LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 36

2023

Bate Stamp Numbers
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Department of the Army
Longhorn Army Ammunition Plant

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

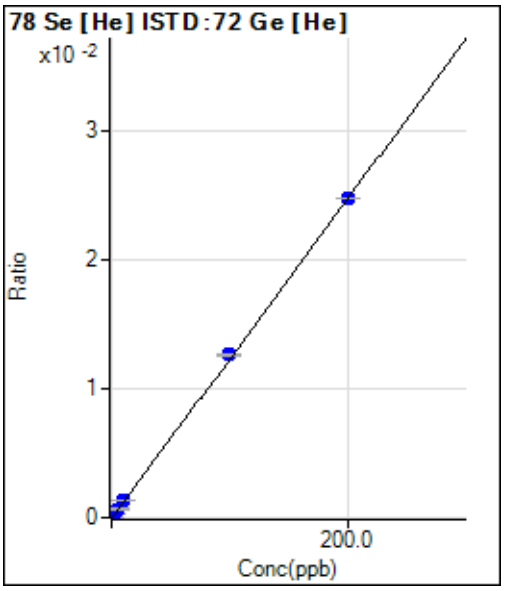
VOLUME 36

2023

A.	Title:	Report (Cont'd) – Appendix C File 1, Level IV DoD to Quarterly Evaluation Report, 2nd Quarter (April–June) 2023, Groundwater Treatment Plant, Longhorn Army Ammunition Plant Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	December 21, 2023
	Bate Stamp:	01199084–01199283

B.	Title:	Report (Cont'd) – Appendix C File 2, Level IV DoD to Quarterly Evaluation Report, 2nd Quarter (April–June) 2023, Groundwater Treatment Plant, Longhorn Army Ammunition Plant Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	December 21, 2023
	Bate Stamp:	01199284–01201025

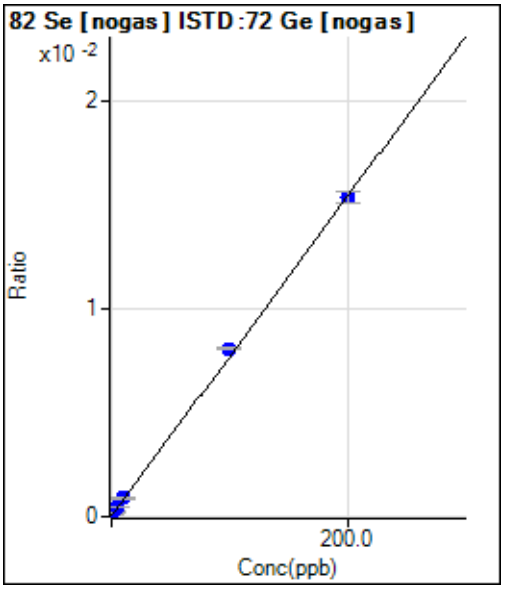
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54.00	0.0001	P	23.0	
2	☐	2.000	2.035	318.67	0.0003	P	13.5	1.7
3	☐	5.000	4.980	708.69	0.0007	P	9.6	-0.4
4	☐	10.000	10.097	1400.74	0.0013	P	5.4	1.0
5	☐	100.000	101.555	13647.62	0.0127	P	1.5	1.6
6	☐	200.000	199.218	26681.92	0.0248	P	0.4	-0.4
7	☐	1.000						

y = 1.2436E-004 * x + 5.1949E-005
R = 1.0000
DL = 0.2877 ppb
BEC = 0.4177 ppb

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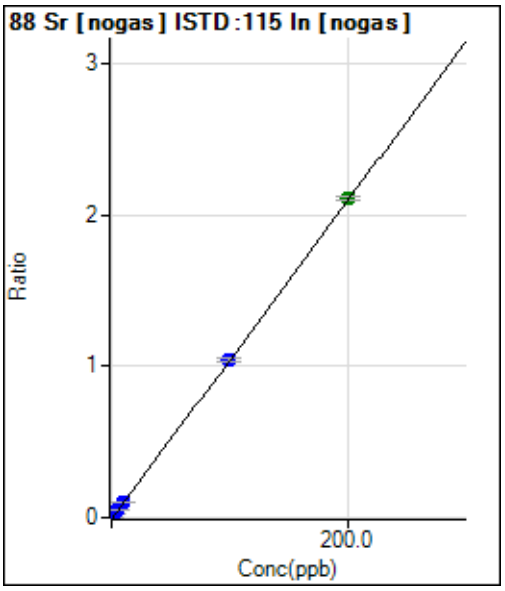


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	460.02	0.0001	P	4.0	
2	☐	2.000	1.672	990.05	0.0002	P	12.2	-16.4
3	☐	5.000	4.854	2016.85	0.0005	P	5.7	-2.9
4	☐	10.000	10.332	3803.90	0.0009	P	8.7	3.3
5	☐	100.000	103.560	34306.97	0.0081	P	0.6	3.6
6	☐	200.000	198.210	65735.99	0.0154	P	3.1	-0.9
7	☐	1.000						

y = 7.7065E-005 * x + 1.1220E-004
R = 0.9998
DL = 0.1735 ppb
BEC = 1.456 ppb

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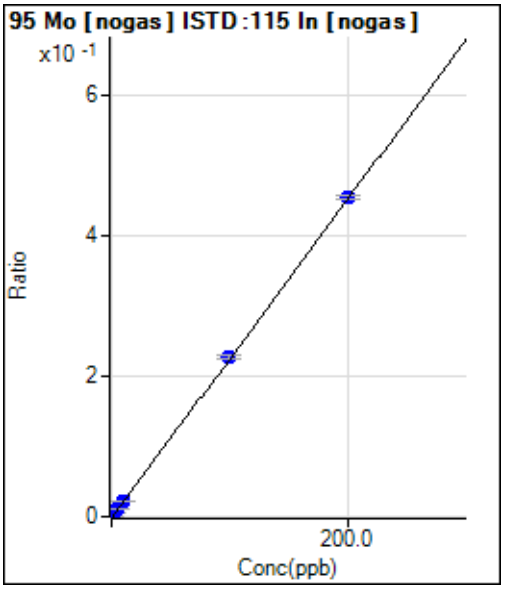
Calibration for 020_ICV.d



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3	☐	5.000	4.906	235356.19	0.0520	P	1.7	-1.9
4	☐	10.000	9.880	473635.59	0.1044	P	1.3	-1.2
5	☐	100.000	99.084	4794006.60	1.0442	P	2.2	-0.9
6	☐	200.000	200.467	9584993.19	2.1123	A	1.7	0.2
7	☐	1.000						

y = 0.0105 * x + 2.8602E-004
R = 1.0000
DL = 0.005366 ppb
BEC = 0.02715 ppb

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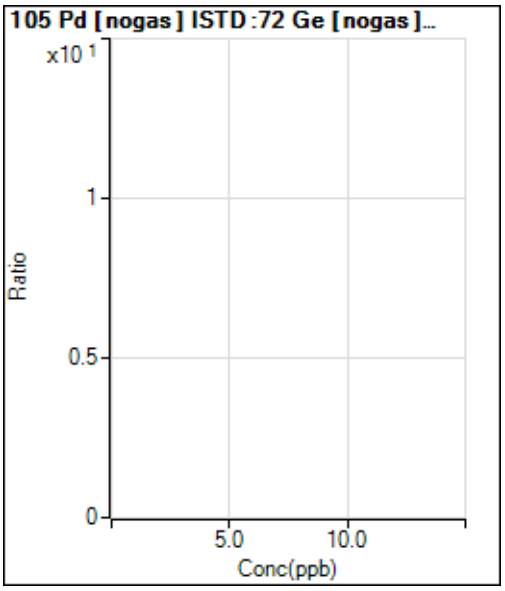


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
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2	☐	2.000	1.940	21222.39	0.0047	P	1.1	-3.0
3	☐	5.000	4.765	50420.51	0.0111	P	1.1	-4.7
4	☐	10.000	9.721	101647.64	0.0224	P	0.5	-2.8
5	☐	100.000	99.736	1042074.41	0.2270	P	1.9	-0.3
6	☐	200.000	200.153	2065566.85	0.4552	P	1.6	0.1
7	☐	1.000						

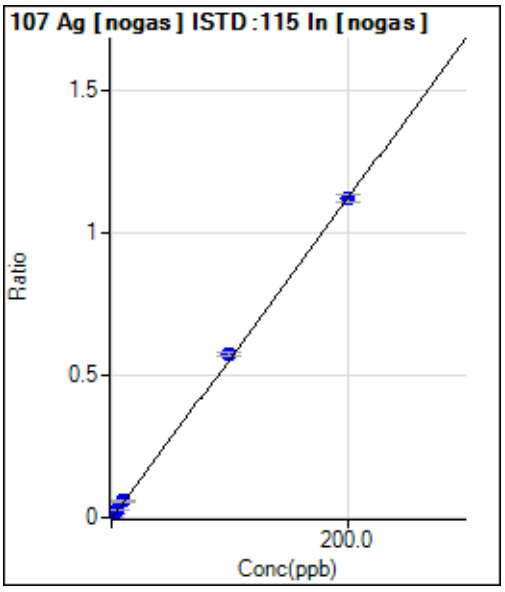
y = 0.0023 * x + 3.0535E-004
R = 1.0000
DL = 0.028 ppb
BEC = 0.1344 ppb

Weight: <None>
Min Conc: <None>

Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

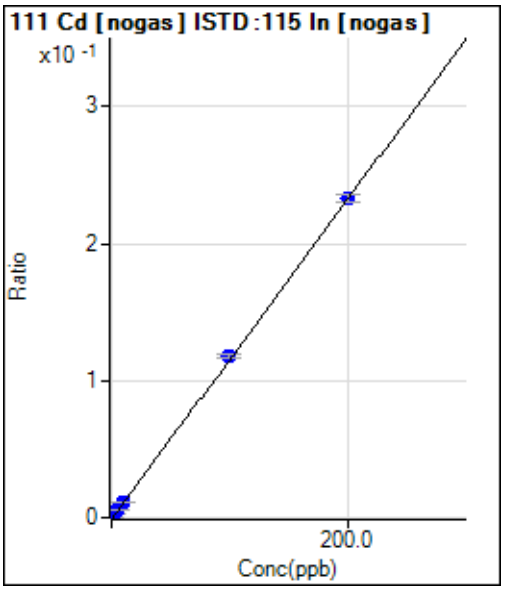


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	460.02	0.0001	P	14.1	
2	☐	2.000	2.013	51625.25	0.0115	P	2.9	0.7
3	☐	5.000	5.093	130652.99	0.0289	P	1.7	1.9
4	☐	10.000	10.247	262978.63	0.0580	P	1.6	2.5
5	☐	100.000	101.967	2643308.08	0.5758	P	1.8	2.0
6	☐	200.000	199.002	5098259.09	1.1236	P	2.3	-0.5
7	☐	1.000						

y = 0.0056 * x + 1.0257E-004
R = 0.9999
DL = 0.007686 ppb
BEC = 0.01817 ppb

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Min Conc: <None>

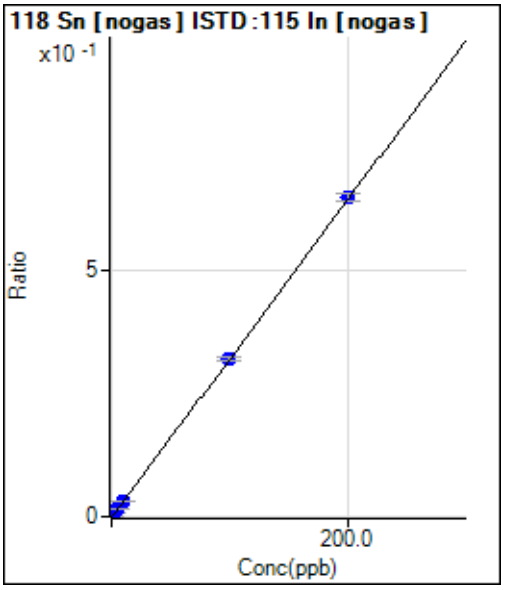
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	42.9	
2	☐	2.000	1.997	10513.98	0.0023	P	2.1	-0.2
3	☐	5.000	5.158	27309.44	0.0060	P	3.0	3.2
4	☐	10.000	10.025	53164.40	0.0117	P	1.1	0.2
5	☐	100.000	100.958	541577.83	0.1180	P	1.2	1.0
6	☐	200.000	199.516	1057809.54	0.2331	P	2.2	-0.2
7	☐	1.000						

y = 0.0012 * x + 2.9674E-006
R = 1.0000
DL = 0.003266 ppb
BEC = 0.00254 ppb

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Min Conc: <None>

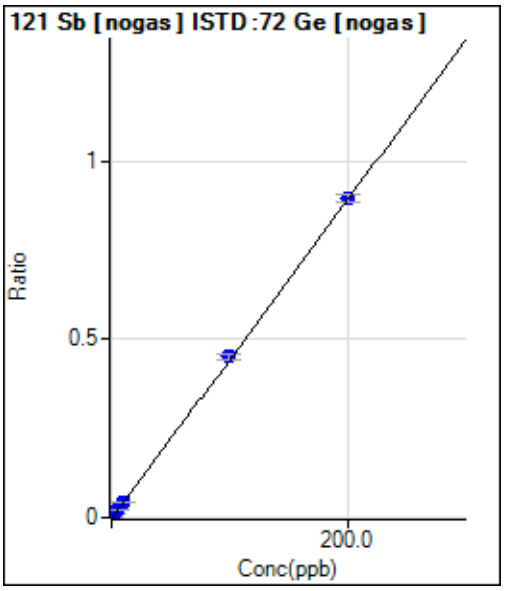


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4877.61	0.0011	P	6.8	
2	☐	2.000	1.937	33038.43	0.0073	P	5.5	-3.2
3	☐	5.000	4.853	75889.10	0.0168	P	3.4	-2.9
4	☐	10.000	9.783	148285.32	0.0327	P	2.0	-2.2
5	☐	100.000	99.023	1473027.79	0.3208	P	3.1	-1.0
6	☐	200.000	200.504	2942736.83	0.6485	P	2.9	0.3
7	☐	1.000						

y = 0.0032 * x + 0.0011
R = 1.0000
DL = 0.06845 ppb
BEC = 0.3367 ppb

Weight: <None>
Min Conc: <None>

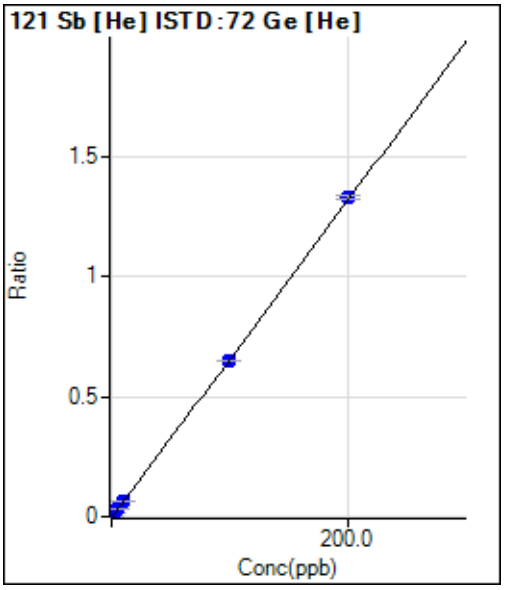
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1603.45	0.0004	P	6.0	
2	☐	2.000	2.009	38545.38	0.0094	P	4.5	0.5
3	☐	5.000	5.095	96293.97	0.0232	P	2.5	1.9
4	☐	10.000	9.951	188399.59	0.0450	P	1.8	-0.5
5	☐	100.000	100.488	1910042.73	0.4506	P	3.0	0.5
6	☐	200.000	199.756	3825004.21	0.8954	P	1.9	-0.1
7	☐	1.000						

y = 0.0045 * x + 3.9104E-004
R = 1.0000
DL = 0.01571 ppb
BEC = 0.08728 ppb

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Min Conc: <None>

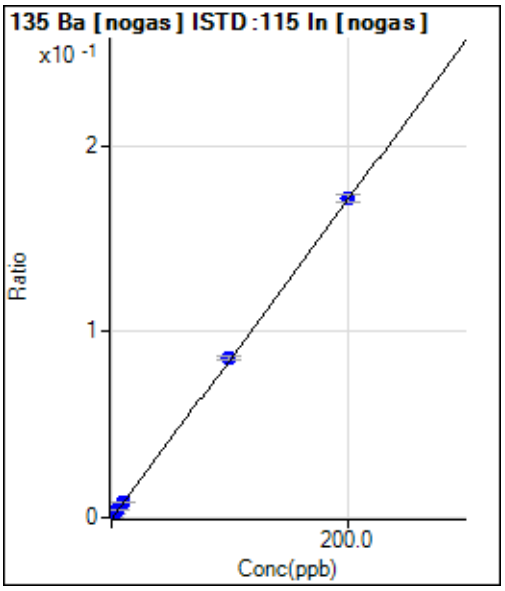


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0006	P	16.2	
2	☐	2.000	1.987	14394.10	0.0138	P	2.0	-0.6
3	☐	5.000	5.032	35764.74	0.0339	P	3.0	0.6
4	☐	10.000	9.985	71456.92	0.0667	P	1.2	-0.1
5	☐	100.000	98.203	700001.76	0.6504	P	0.3	-1.8
6	☐	200.000	200.898	1429273.42	1.3300	P	0.8	0.4
7	☐	1.000						

y = 0.0066 * x + 6.2542E-004
R = 0.9999
DL = 0.04594 ppb
BEC = 0.09452 ppb

Weight: <None>
Min Conc: <None>

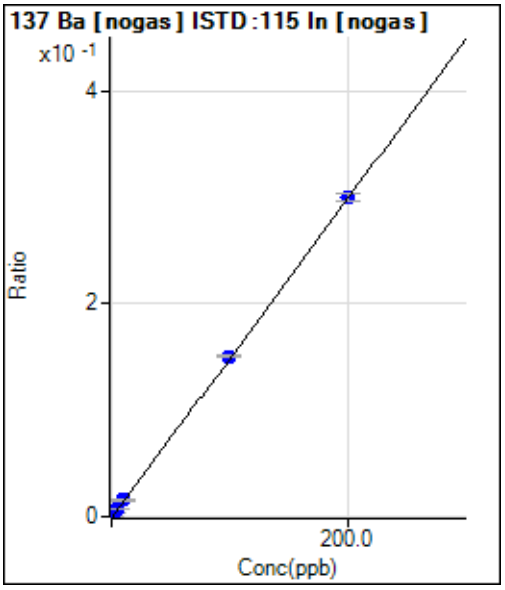
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	470.02	0.0001	P	9.9	
2	☐	2.000	1.894	7785.62	0.0017	P	6.8	-5.3
3	☐	5.000	5.108	20321.58	0.0045	P	2.9	2.2
4	☐	10.000	9.962	39267.80	0.0087	P	1.9	-0.4
5	☐	100.000	99.909	394079.02	0.0858	P	2.3	-0.1
6	☐	200.000	200.046	779377.70	0.1718	P	1.9	0.0
7	☐	1.000						

y = 8.5808E-004 * x + 1.0473E-004
R = 1.0000
DL = 0.03614 ppb
BEC = 0.1221 ppb

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Min Conc: <None>

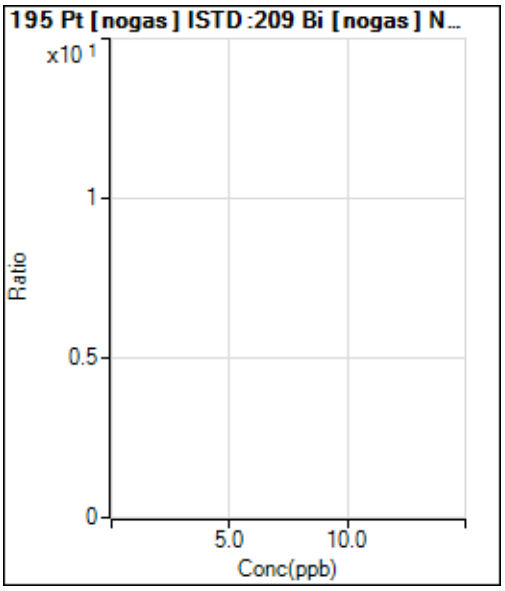


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1	☐	0.000	0.000	693.37	0.0002	P	32.3	
2	☐	2.000	2.060	14611.09	0.0032	P	4.3	3.0
3	☐	5.000	5.047	35006.58	0.0077	P	1.7	0.9
4	☐	10.000	10.171	69998.86	0.0154	P	3.5	1.7
5	☐	100.000	100.378	692497.78	0.1508	P	2.1	0.4
6	☐	200.000	199.801	1361689.98	0.3001	P	2.3	-0.1
7	☐	1.000						

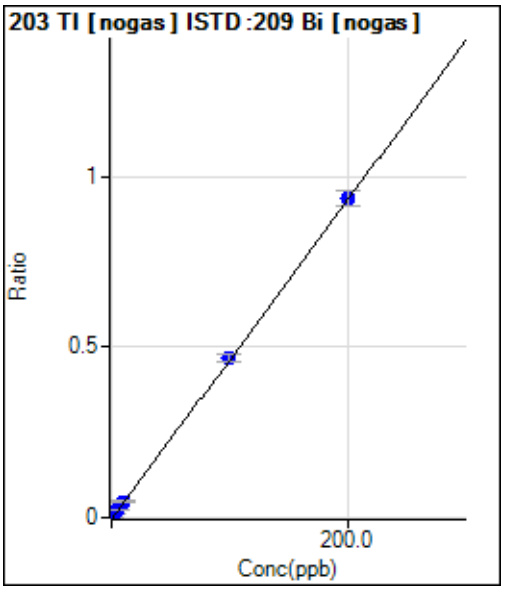
y = 0.0015 * x + 1.5445E-004
R = 1.0000
DL = 0.09984 ppb
BEC = 0.1029 ppb

Weight: <None>
Min Conc: <None>

Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

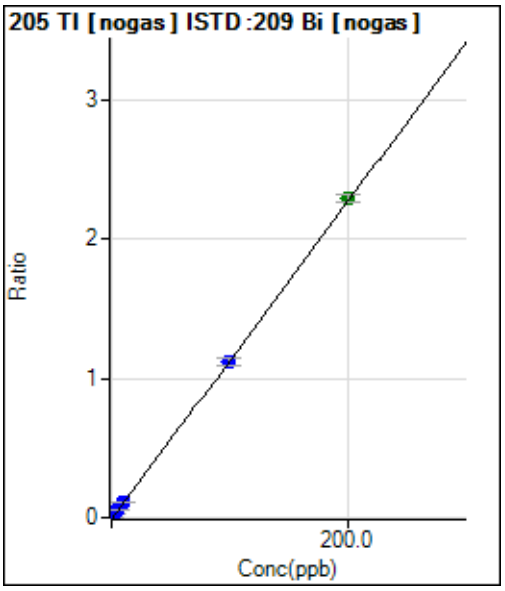


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	296.68	0.0001	P	2.9	
2	☐	2.000	1.985	38076.88	0.0094	P	2.9	-0.7
3	☐	5.000	4.978	94989.16	0.0234	P	5.4	-0.4
4	☐	10.000	9.952	191542.57	0.0466	P	5.7	-0.5
5	☐	100.000	99.991	1923731.69	0.4677	P	4.7	0.0
6	☐	200.000	200.007	3752865.36	0.9355	P	4.7	0.0
7	☐	1.000						

y = 0.0047 * x + 7.3468E-005
R = 1.0000
DL = 0.001383 ppb
BEC = 0.01571 ppb

Weight: <None>
Min Conc: <None>

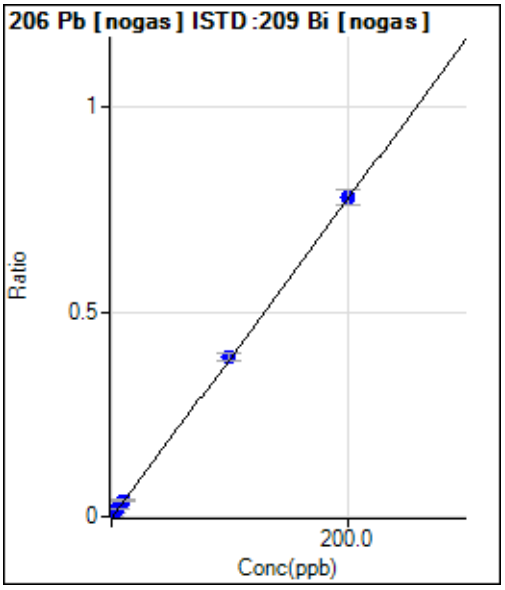
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	640.03	0.0002	P	14.2	
2	☐	2.000	1.912	89509.85	0.0220	P	4.8	-4.4
3	☐	5.000	4.855	226255.58	0.0556	P	4.4	-2.9
4	☐	10.000	9.784	459923.51	0.1119	P	5.5	-2.2
5	☐	100.000	97.873	4599445.25	1.1182	P	4.5	-2.1
6	☐	200.000	201.079	9217284.24	2.2973	A	2.7	0.5
7	☐	1.000						

y = 0.0114 * x + 1.5811E-004
R = 0.9999
DL = 0.005904 ppb
BEC = 0.01384 ppb

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Min Conc: <None>

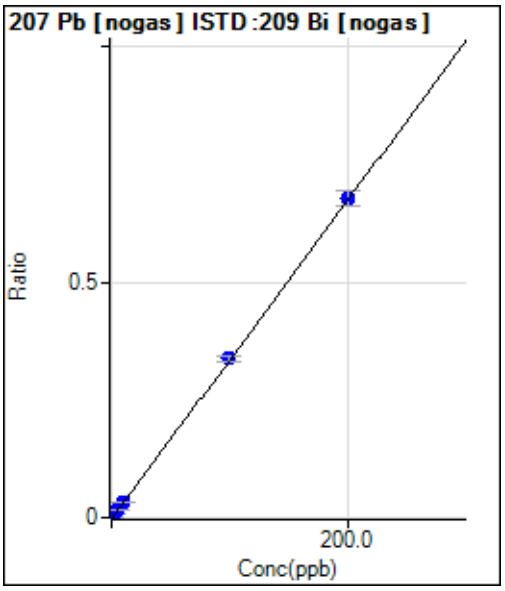


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	656.70	0.0002	P	10.4	
2	☐	2.000	1.956	31724.05	0.0078	P	4.4	-2.2
3	☐	5.000	4.976	79654.98	0.0196	P	4.5	-0.5
4	☐	10.000	9.986	160834.19	0.0391	P	4.5	-0.1
5	☐	100.000	99.835	1603290.60	0.3898	P	4.3	-0.2
6	☐	200.000	200.084	3133464.85	0.7810	P	4.6	0.0
7	☐	1.000						

y = 0.0039 * x + 1.6273E-004
R = 1.0000
DL = 0.01295 ppb
BEC = 0.0417 ppb

Weight: <None>
Min Conc: <None>

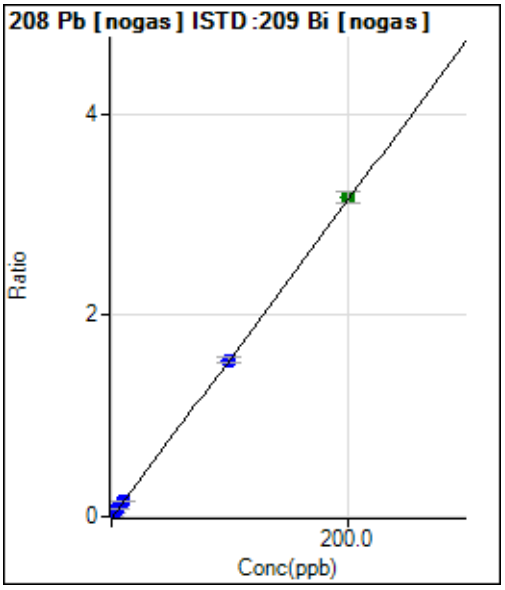
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	590.02	0.0001	P	24.1	
2	☐	2.000	1.949	27457.99	0.0067	P	3.7	-2.5
3	☐	5.000	5.011	69637.73	0.0171	P	4.3	0.2
4	☐	10.000	9.847	137666.90	0.0335	P	4.7	-1.5
5	☐	100.000	99.715	1389972.69	0.3379	P	3.8	-0.3
6	☐	200.000	200.150	2720564.80	0.6781	P	4.7	0.1
7	☐	1.000						

y = 0.0034 * x + 1.4555E-004
R = 1.0000
DL = 0.03112 ppb
BEC = 0.04297 ppb

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Min Conc: <None>

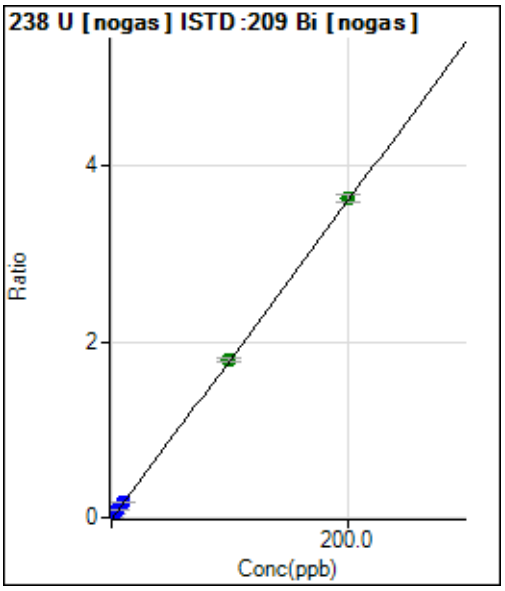


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2486.80	0.0006	P	8.3	
2	☐	2.000	1.945	127587.25	0.0314	P	3.9	-2.7
3	☐	5.000	4.922	319011.36	0.0784	P	4.3	-1.6
4	☐	10.000	9.789	638437.00	0.1554	P	4.3	-2.1
5	☐	100.000	98.338	6396013.55	1.5550	P	4.3	-1.7
6	☐	200.000	200.844	12739850.38	3.1753	A	3.1	0.4
7	☐	1.000						

y = 0.0158 * x + 6.1562E-004
R = 1.0000
DL = 0.00975 ppb
BEC = 0.03895 ppb

Weight: <None>
Min Conc: <None>

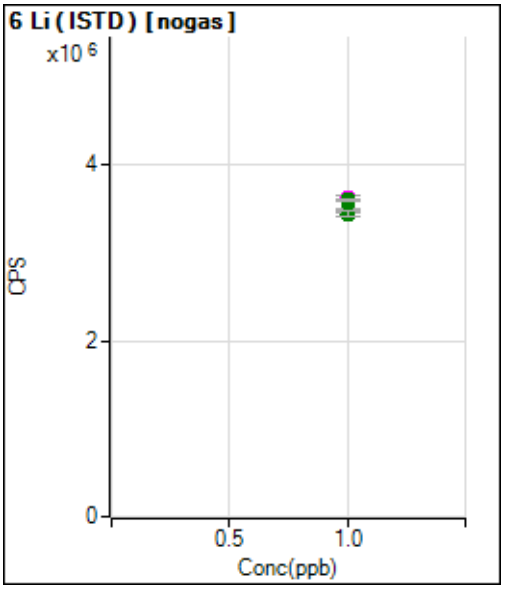
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0001	P	17.6	
2	☐	2.000	1.869	138101.57	0.0339	P	4.3	-6.5
3	☐	5.000	4.658	343734.43	0.0845	P	5.5	-6.8
4	☐	10.000	9.447	704286.97	0.1714	P	3.9	-5.5
5	☐	100.000	98.812	7370708.85	1.7917	A	2.6	-1.2
6	☐	200.000	200.632	14596439.78	3.6380	A	2.7	0.3
7	☐	1.000						

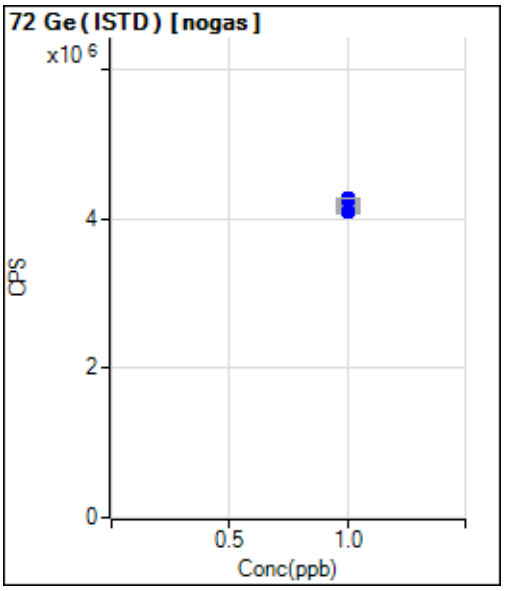
y = 0.0181 * x + 5.4600E-005
R = 1.0000
DL = 0.001591 ppb
BEC = 0.003011 ppb

Weight: <None>
Min Conc: <None>

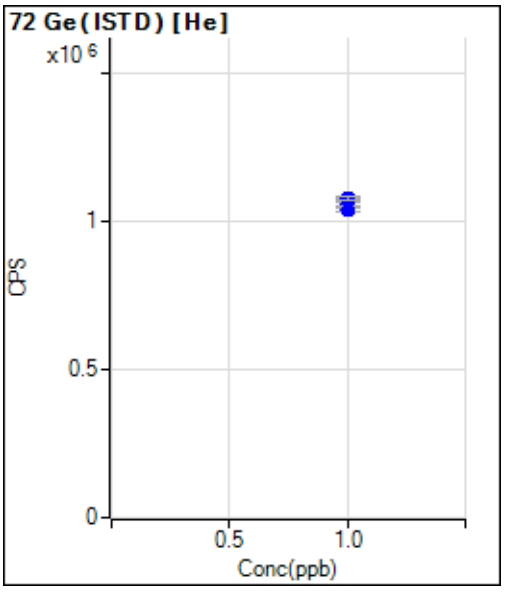


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3628184.07		A	1.8	
2	☐	1.000		3635302.67		M	0.9	
3	☐	1.000		3599110.97		A	0.3	
4	☐	1.000		3604505.57		A	0.8	
5	☐	1.000		3489155.17		A	1.2	
6	☐	1.000		3445485.24		A	1.8	
7	☐	1.000						

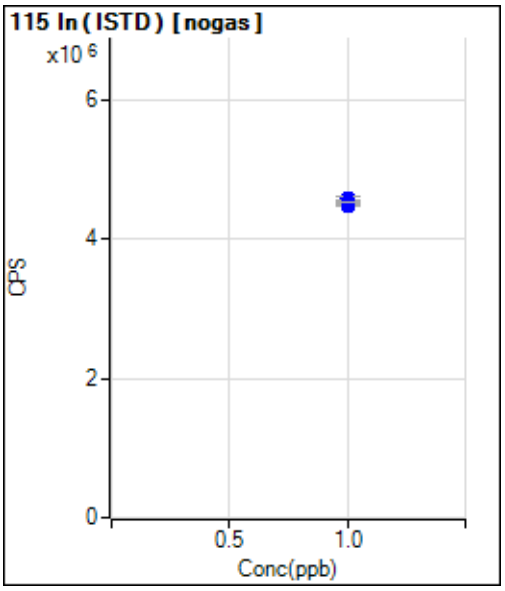
Calibration for 020_ICV.d



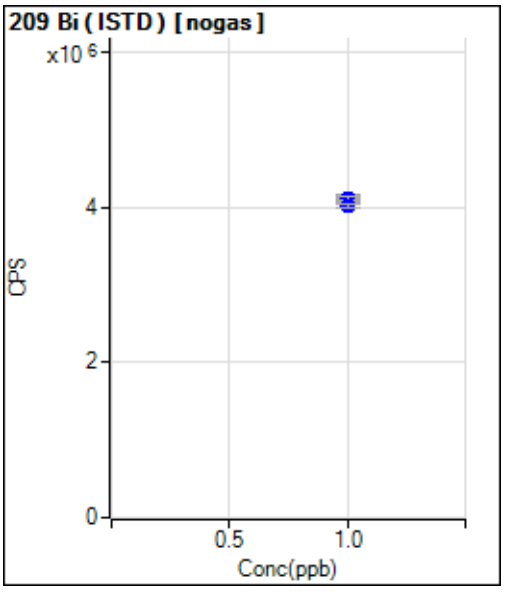
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4099702.23		P	1.1	
2	☐	1.000		4103961.71		P	0.9	
3	☐	1.000		4147243.27		P	0.5	
4	☐	1.000		4188744.42		P	0.6	
5	☐	1.000		4239242.85		P	0.9	
6	☐	1.000		4271930.04		P	0.3	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1040445.76		P	1.6	
2	☐	1.000		1044934.12		P	0.3	
3	☐	1.000		1054698.11		P	1.5	
4	☐	1.000		1071329.12		P	0.3	
5	☐	1.000		1076193.08		P	0.4	
6	☐	1.000		1074722.85		P	1.1	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4488396.96		P	0.8	
2	☐	1.000		4501230.83		P	0.2	
3	☐	1.000		4528450.19		P	1.1	
4	☐	1.000		4537707.27		P	0.8	
5	☐	1.000		4590981.19		P	0.7	
6	☐	1.000		4537568.49		P	0.2	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4039538.07		P	2.3	
2	☐	1.000		4069678.38		P	1.3	
3	☐	1.000		4069889.42		P	1.8	
4	☐	1.000		4112445.15		P	2.4	
5	☐	1.000		4114477.96		P	1.1	
6	☐	1.000		4013036.50		P	1.1	
7	☐	1.000						

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	013CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:28:21-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	77	42.82
B	11	1	nogas	123602	0.00
Al	27	1	nogas	83811	0.00
P	31	1	nogas	71456	0.00
Ti	47	1	nogas	507	1.92
Ni	60	1	nogas	1110	1.10
Cu	63	1	nogas	15749	0.04
Zn	66	1	nogas	1760	0.42
Se	77	1	nogas	4041	0.15
Se	82	1	nogas	460	0.95
Sr	88	1	nogas	1283	0.46
Mo	95	1	nogas	1370	0.46
Ag	107	1	nogas	460	2.87
Cd	111	1	nogas	13	324.76
Sn	118	1	nogas	4878	0.12
Sb	121	1	nogas	1603	0.41
Ba	137	1	nogas	693	4.70
Tl	205	1	nogas	640	2.58
Pb	208	1	nogas	2487	0.35
Li	7	1	nogas	241748	0.00
Na	23	2	He	87564	0.00
Mg	24	2	He	1703	0.34
Al	27	2	He	2810	0.12
K	39	2	He	119334	0.00
Ca	43	2	He	47	53.02
Ca	44	2	He	2370	0.50
V	51	2	He	2145	0.26
Cr	52	2	He	15565	0.03
Mn	55	2	He	663	0.66
Fe	56	2	He	24330	0.00
Co	59	2	He	40	225.35
Ni	60	2	He	340	3.12
Cu	63	2	He	6225	0.07
Zn	66	2	He	673	2.67
As	75	2	He	219	5.92
Sb	121	2	He	650	2.33
Se	78	2	He	54	41.15

Calibration Blank Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Ge	72	1	nogas	4099702	1.08
In	115	1	nogas	4488397	0.82

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	nogas	3628184	1.80
Bi	209	1	nogas	4039538	2.30
Ge	72	2	He	1040446	1.56

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:30:22-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	013CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	28042	0.01
B	11	1	nogas	206955	0.00
Al	27	1	nogas	206045	0.00
P	31	1	nogas	73747	0.00
Ti	47	1	nogas	6392	0.11
Ni	60	1	nogas	20898	0.01
Cu	63	1	nogas	62346	0.00
Zn	66	1	nogas	14914	0.01
Se	77	1	nogas	5351	0.13
Se	82	1	nogas	990	1.33
Sr	88	1	nogas	94794	0.00
Mo	95	1	nogas	21222	0.00
Ag	107	1	nogas	51625	0.01
Cd	111	1	nogas	10514	0.02
Sn	118	1	nogas	33038	0.02
Sb	121	1	nogas	38545	0.01
Ba	137	1	nogas	14611	0.03
Tl	205	1	nogas	89510	0.00
Pb	208	1	nogas	127587	0.00
Na	23	2	He	805461	0.00
Mg	24	2	He	400902	0.00
Al	27	2	He	6331	0.11
K	39	2	He	465876	0.00
Ca	43	2	He	1030	0.82
Ca	44	2	He	19116	0.03
V	51	2	He	24294	0.01
Cr	52	2	He	42263	0.00
Mn	55	2	He	19553	0.02
Fe	56	2	He	2274781	0.00
Co	59	2	He	36171	0.01
Ni	60	2	He	9717	0.00
Cu	63	2	He	28741	0.01
Zn	66	2	He	5008	0.23
As	75	2	He	2737	0.17
Sb	121	2	He	14394	0.02
Se	78	2	He	319	4.18

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	4103962	0.94	4099702	100.10	70	120	
In	115	1	nogas	4501231	0.19	4488397	100.29	70	120	
Li	6	1	nogas	3635303	0.93	3628184	100.20	70	120	
Bi	209	1	nogas	4069678	1.30	4039538	100.75	70	120	
Ge	72	2	He	1044934	0.33	1040446	100.43	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:32:24-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	013CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	72010	0.00
B	11	1	nogas	339249	0.00
Al	27	1	nogas	313125	0.00
P	31	1	nogas	78765	0.00
Ti	47	1	nogas	16003	0.02
Ni	60	1	nogas	49880	0.00
Cu	63	1	nogas	131843	0.00
Zn	66	1	nogas	35078	0.01
Se	77	1	nogas	6231	0.08
Se	82	1	nogas	2017	0.31
Sr	88	1	nogas	235356	0.00
Mo	95	1	nogas	50421	0.00
Ag	107	1	nogas	130653	0.00
Cd	111	1	nogas	27309	0.01
Sn	118	1	nogas	75889	0.01
Sb	121	1	nogas	96294	0.00
Ba	137	1	nogas	35007	0.01
Tl	205	1	nogas	226256	0.00
Pb	208	1	nogas	319011	0.00
Na	23	2	He	1908016	0.00
Mg	24	2	He	1014553	0.00
Al	27	2	He	9947	0.04
K	39	2	He	999659	0.00
Ca	43	2	He	2910	0.05
Ca	44	2	He	44997	0.00
V	51	2	He	57483	0.00
Cr	52	2	He	81027	0.00
Mn	55	2	He	48181	0.00
Fe	56	2	He	5899069	0.00
Co	59	2	He	88094	0.00
Ni	60	2	He	22951	0.00
Cu	63	2	He	65429	0.00
Zn	66	2	He	12082	0.02
As	75	2	He	6628	0.05
Sb	121	2	He	35765	0.00
Se	78	2	He	709	1.54

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	4147243	0.48	4099702	101.16	70	120	
In	115	1	nogas	4528450	1.13	4488397	100.89	70	120	
Li	6	1	nogas	3599111	0.28	3628184	99.20	70	120	
Bi	209	1	nogas	4069889	1.80	4039538	100.75	70	120	
Ge	72	2	He	1054698	1.45	1040446	101.37	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/1000
Data File Name	016CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:34:26-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	013CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	144412	0.00
B	11	1	nogas	577511	0.00
Al	27	1	nogas	503102	0.00
P	31	1	nogas	86001	0.00
Ti	47	1	nogas	32445	0.01
Ni	60	1	nogas	101159	0.00
Cu	63	1	nogas	250709	0.00
Zn	66	1	nogas	67954	0.00
Se	77	1	nogas	7465	0.09
Se	82	1	nogas	3804	0.21
Sr	88	1	nogas	473636	0.00
Mo	95	1	nogas	101648	0.00
Ag	107	1	nogas	262979	0.00
Cd	111	1	nogas	53164	0.00
Sn	118	1	nogas	148285	0.00
Sb	121	1	nogas	188400	0.00
Ba	137	1	nogas	69999	0.01
Tl	205	1	nogas	459924	0.00
Pb	208	1	nogas	638437	0.00
Na	23	2	He	3776115	0.00
Mg	24	2	He	2064581	0.00
Al	27	2	He	16316	0.01
K	39	2	He	1911169	0.00
Ca	43	2	He	5114	0.07
Ca	44	2	He	87300	0.00
V	51	2	He	113197	0.00
Cr	52	2	He	147666	0.00
Mn	55	2	He	97702	0.00
Fe	56	2	He	11667341	0.00
Co	59	2	He	177069	0.00
Ni	60	2	He	46312	0.00
Cu	63	2	He	124191	0.00
Zn	66	2	He	23449	0.01
As	75	2	He	13215	0.02
Sb	121	2	He	71457	0.00
Se	78	2	He	1401	0.37

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	4188744	0.62	4099702	102.17	70	120	
In	115	1	nogas	4537707	0.76	4488397	101.10	70	120	
Li	6	1	nogas	3604506	0.80	3628184	99.35	70	120	
Bi	209	1	nogas	4112445	2.40	4039538	101.80	70	120	
Ge	72	2	He	1071329	0.33	1040446	102.97	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:36:28-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	013CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	1496468	0.00
B	11	1	nogas	4992535	0.00
Al	27	1	nogas	4044190	0.00
P	31	1	nogas	181325	0.00
Ti	47	1	nogas	332359	0.00
Ni	60	1	nogas	997569	0.00
Cu	63	1	nogas	2363249	0.00
Zn	66	1	nogas	624210	0.00
Se	77	1	nogas	31370	0.01
Se	82	1	nogas	34307	0.00
Sr	88	1	nogas	4794007	0.00
Mo	95	1	nogas	1042074	0.00
Ag	107	1	nogas	2643308	0.00
Cd	111	1	nogas	541578	0.00
Sn	118	1	nogas	1473028	0.00
Sb	121	1	nogas	1910043	0.00
Ba	137	1	nogas	692498	0.00
Tl	205	1	nogas	4599445	0.00
Pb	208	1	nogas	6396014	0.00
Na	23	2	He	37761507	0.00
Mg	24	2	He	20932253	0.00
Al	27	2	He	127303	0.00
K	39	2	He	18544022	0.00
Ca	43	2	He	51494	0.00
Ca	44	2	He	853872	0.00
V	51	2	He	1130316	0.00
Cr	52	2	He	1310598	0.00
Mn	55	2	He	958602	0.00
Fe	56	2	He	116327012	0.00
Co	59	2	He	1773847	0.00
Ni	60	2	He	446240	0.00
Cu	63	2	He	1161802	0.00
Zn	66	2	He	214202	0.00
As	75	2	He	129713	0.00
Sb	121	2	He	700002	0.00
Se	78	2	He	13648	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	4239243	0.86	4099702	103.40	70	120	
In	115	1	nogas	4590981	0.70	4488397	102.29	70	120	
Li	6	1	nogas	3489155	1.20	3628184	96.17	70	120	
Bi	209	1	nogas	4114478	1.11	4039538	101.86	70	120	
Ge	72	2	He	1076193	0.43	1040446	103.44	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:38:27-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	013CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	2980051	0.00
B	11	1	nogas	9880628	0.00
Al	27	1	nogas	7723176	0.00
P	31	1	nogas	280477	0.00
Ti	47	1	nogas	663623	0.00
Ni	60	1	nogas	1943624	0.00
Cu	63	1	nogas	4529644	0.00
Zn	66	1	nogas	1219251	0.00
Se	77	1	nogas	57127	0.00
Se	82	1	nogas	65736	0.01
Sr	88	1	nogas	9584993	0.00
Mo	95	1	nogas	2065567	0.00
Ag	107	1	nogas	5098259	0.00
Cd	111	1	nogas	1057810	0.00
Sn	118	1	nogas	2942737	0.00
Sb	121	1	nogas	3825004	0.00
Ba	137	1	nogas	1361690	0.00
Tl	205	1	nogas	9217284	0.00
Pb	208	1	nogas	12739850	0.00
Na	23	2	He	73350119	0.00
Mg	24	2	He	40809214	0.00
Al	27	2	He	240154	0.00
K	39	2	He	36459222	0.00
Ca	43	2	He	104964	0.00
Ca	44	2	He	1732869	0.00
V	51	2	He	2271164	0.00
Cr	52	2	He	2610433	0.00
Mn	55	2	He	1913910	0.00
Fe	56	2	He	228487563	0.00
Co	59	2	He	3502195	0.00
Ni	60	2	He	881082	0.00
Cu	63	2	He	2254009	0.00
Zn	66	2	He	423085	0.00
As	75	2	He	257577	0.00
Sb	121	2	He	1429273	0.00
Se	78	2	He	26682	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	4271930	0.26	4099702	104.20	70	120	
In	115	1	nogas	4537568	0.25	4488397	101.10	70	120	
Li	6	1	nogas	3445485	1.81	3628184	94.96	70	120	
Bi	209	1	nogas	4013037	1.09	4039538	99.34	70	120	
Ge	72	2	He	1074723	1.12	1040446	103.29	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	020_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:42:55-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	96.198	3.430	1460255	1.56	100	96.2	90	110	
B	11	1	nogas	494.009	2.846	4966276	0.91	500	98.8	90	110	
Al	27	1	nogas	100.462	2.596	3949756	3.07	100	100.5	90	110	
P	31	1	nogas	476.566	4.690	173328	3.25	500	95.3	90	110	
Ti	47	1	nogas	97.917	1.422	324968	2.10	100	97.9	90	110	
Ni	60	1	nogas	99.219	2.583	969276	3.19	100	99.2	90	110	
Cu	63	1	nogas	99.719	2.331	2283474	2.92	100	99.7	90	110	
Zn	66	1	nogas	99.683	2.485	611117	3.19	100	99.7	90	110	
Se	77	1	nogas	99.060	3.415	30565	3.55	100	99.1	90	110	
Se	82	1	nogas	99.368	2.994	33117	3.27	100	99.4	90	110	
Sr	88	1	nogas	98.361	2.071	4726500	2.44	100	98.4	90	110	
Mo	95	1	nogas	98.184	2.668	1018935	3.05	100	98.2	90	110	
Ag	107	1	nogas	101.139	2.244	2604102	2.76	100	101.1	90	110	
Cd	111	1	nogas	99.647	2.309	530929	2.88	100	99.6	90	110	
Sn	118	1	nogas	99.706	2.282	1473055	2.89	100	99.7	90	110	
Sb	121	1	nogas	99.058	2.572	1893397	3.24	100	99.1	90	110	
Ba	137	1	nogas	99.844	2.630	684168	3.14	100	99.8	90	110	
Tl	205	1	nogas	98.483	3.869	4597855	3.24	100	98.5	90	110	
Pb	208	1	nogas	98.083	4.083	6337542	3.43	100	98.1	90	110	
U	238	1	nogas	98.024	2.310	7263595	1.72	100	98.0	90	110	
Li	7	1	nogas	96.303	2.339	5453710	0.47	100	96.3	90	110	
Ba	135	1	nogas	100.103	3.035	392183	3.71	100	100.1	90	110	
Tl	203	1	nogas	99.831	3.804	1908112	3.16	100	99.8	90	110	
Na	23	2	He	9979.009	0.572	36535262	0.99	10000	99.8	90	110	
Mg	24	2	He	9928.874	0.343	20191241	1.15	10000	99.3	90	110	
Al	27	2	He	102.370	1.346	124484	0.35	100	102.4	90	110	
K	39	2	He	10047.127	1.711	18267691	1.25	10000	100.5	90	110	
Ca	43	2	He	9733.699	3.108	50471	2.45	10000	97.3	90	110	
Ca	44	2	He	9816.175	0.752	841784	0.86	10000	98.2	90	110	
V	51	2	He	100.283	0.636	1128775	0.72	100	100.3	90	110	
Cr	52	2	He	100.189	1.235	1303897	0.75	100	100.2	90	110	
Mn	55	2	He	99.257	0.678	942307	1.03	100	99.3	90	110	
Fe	56	2	He	10003.716	0.431	113732242	1.07	10000	100.0	90	110	
Co	59	2	He	99.737	1.282	1735901	0.50	100	99.7	90	110	
Ni	60	2	He	100.164	1.373	438774	0.83	100	100.2	90	110	
Cu	63	2	He	100.250	1.439	1129594	0.30	100	100.2	90	110	
Zn	66	2	He	99.576	1.480	209663	0.69	100	99.6	90	110	
As	75	2	He	100.685	1.057	128840	1.38	100	100.7	90	110	
Sb	121	2	He	99.487	0.562	702244	0.78	100	99.5	90	110	
Se	78	2	He	102.524	1.130	13646	2.40	100	102.5	90	110	
Ti	47	2	He	97.130	1.328	45649	1.63	100	97.1	90	110	

QC ISTD Table

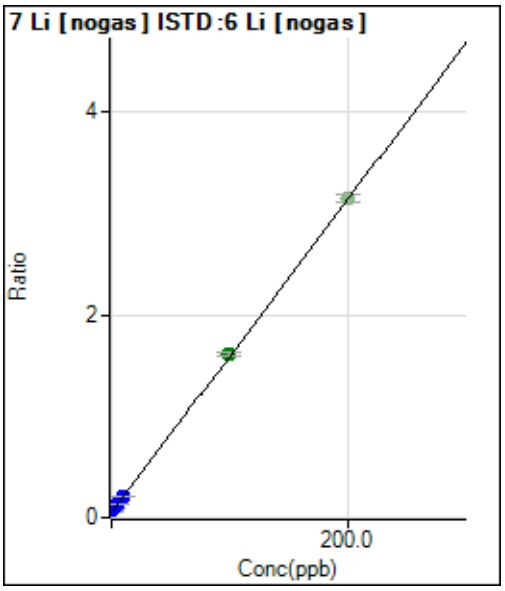
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4262032	0.74	4099702	103.96	70	120	
In	115	1	nogas	4559611	0.79	4488397	101.59	70	120	
Li	6	1	nogas	3517048	1.98	3628184	96.94	70	120	
Bi	209	1	nogas	4086916	0.86	4039538	101.17	70	120	
Ge	72	2	He	1065778	1.34	1040446	102.43	70	120	

Calibration for 020_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070523A.b\
Analysis File: 070523A.batch.bin
DA Date-Time: 7/5/2023 6:33:04 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	013CALB.d	CAL BLK	7/5/2023 11:28:21 AM
2	014CALS.d	2/10/200	7/5/2023 11:30:22 AM
3	015CALS.d	5/25/500	7/5/2023 11:32:24 AM
4	016CALS.d	10/50/1000	7/5/2023 11:34:26 AM
5	017CALS.d	100/500/10K	7/5/2023 11:36:28 AM
6	018CALS.d	200/1000/20K	7/5/2023 11:38:27 AM
7			

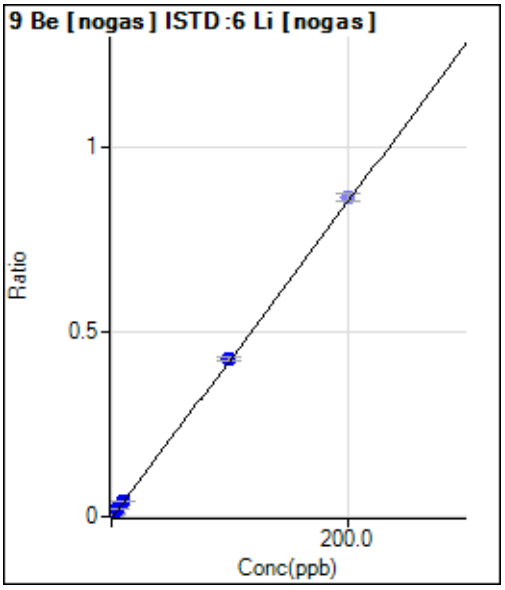
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	241747.95	0.0666	P	1.1	
2	☐	2.000	1.805	343485.86	0.0945	P	0.4	-9.8
3	☐	5.000	4.742	503229.01	0.1398	P	0.4	-5.2
4	☐	10.000	9.484	767757.07	0.2130	P	0.6	-5.2
5	☐	100.000	100.068	5620046.38	1.6110	A	2.9	0.1
6	☑	200.000		10845346.51	3.1486	A	2.5	
7	☐	1.000						

y = 0.0154 * x + 0.0666
R = 1.0000
DL = 0.1441 ppb
BEC = 4.318 ppb

Weight: <None>
Min Conc: <None>

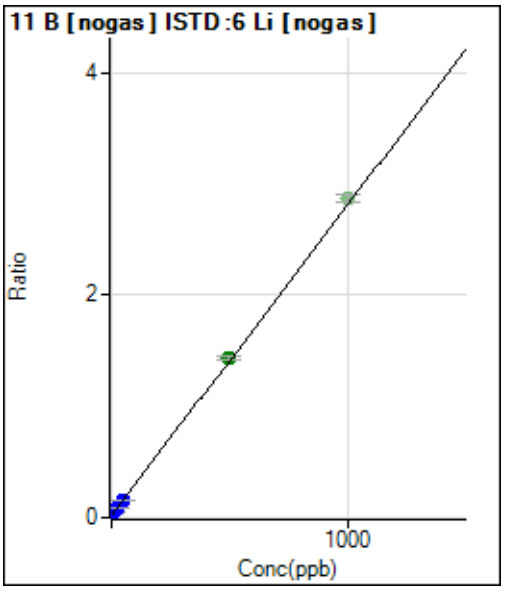


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0000	P	32.0	
2	☐	2.000	1.795	28042.00	0.0077	P	2.7	-10.2
3	☐	5.000	4.664	72010.34	0.0200	P	0.5	-6.7
4	☐	10.000	9.344	144412.30	0.0401	P	1.3	-6.6
5	☐	100.000	100.087	1496467.53	0.4290	P	2.5	0.1
6	☑	200.000		2980051.00	0.8652	P	2.7	
7	☐	1.000						

y = 0.0043 * x + 2.1106E-005
R = 1.0000
DL = 0.004731 ppb
BEC = 0.004925 ppb

Weight: <None>
Min Conc: <None>

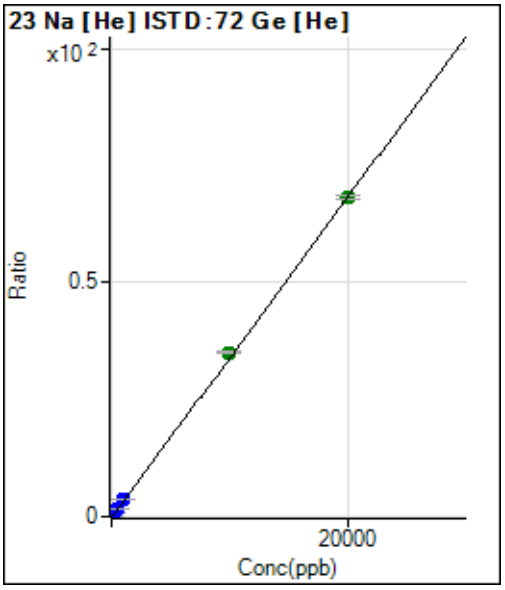
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	123601.89	0.0341	P	1.4	
2	☐	10.000	8.194	206955.21	0.0569	P	1.9	-18.1
3	☐	25.000	21.569	339248.90	0.0943	P	1.4	-13.7
4	☐	50.000	45.209	577511.01	0.1602	P	0.7	-9.6
5	☐	500.000	500.687	4992535.24	1.4312	A	3.1	0.1
6	☑	1000.000		9880628.18	2.8684	A	1.9	
7	☐	5.000						

y = 0.0028 * x + 0.0341
R = 1.0000
DL = 0.4965 ppb
BEC = 12.21 ppb

Weight: <None>
Min Conc: <None>

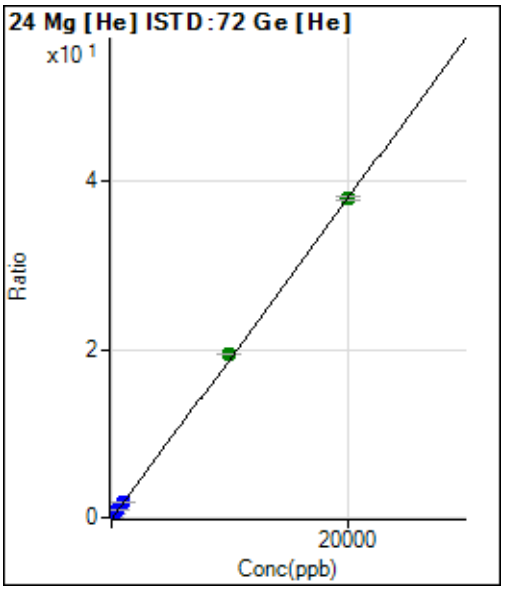


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	87563.83	0.0842	P	2.0	
2	☐	200.000	200.377	805460.85	0.7708	P	0.8	0.2
3	☐	500.000	503.419	1908016.17	1.8093	P	1.7	0.7
4	☐	1000.000	1003.955	3776114.95	3.5247	P	0.6	0.4
5	☐	10000.00	10214.49	37761506.94	35.0887	A	0.9	2.1
6	☐	20000.00	19892.46	73350118.91	68.2545	A	0.9	-0.5
7	☐	100.000						

y = 0.0034 * x + 0.0842
R = 0.9999
DL = 1.488 ppb
BEC = 24.56 ppb

Weight: <None>
Min Conc: <None>

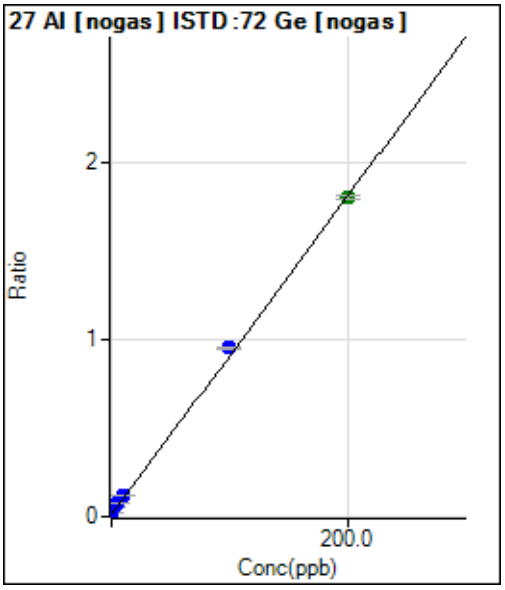
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1703.47	0.0016	P	5.9	
2	☐	200.000	200.229	400902.21	0.3837	P	0.8	0.1
3	☐	500.000	503.389	1014552.54	0.9621	P	1.6	0.7
4	☐	1000.000	1009.182	2064581.17	1.9271	P	0.6	0.9
5	☐	10000.00	10193.24	20932253.02	19.4499	A	0.8	1.9
6	☐	20000.00	19902.83	40809214.39	37.9753	A	1.3	-0.5
7	☐	100.000						

y = 0.0019 * x + 0.0016
R = 0.9999
DL = 0.1518 ppb
BEC = 0.8582 ppb

Weight: <None>
Min Conc: <None>

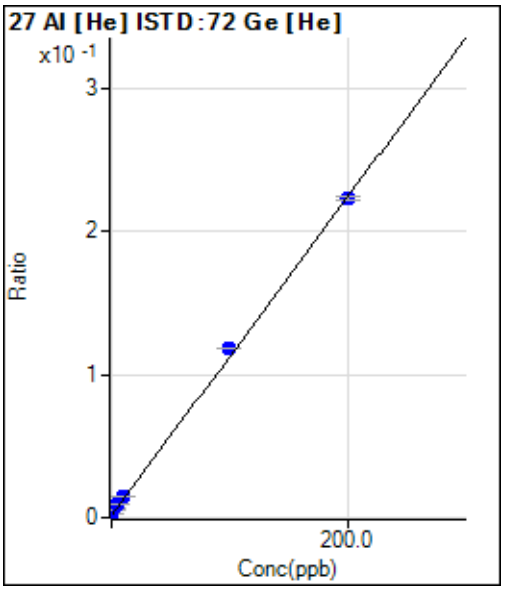


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83811.23	0.0204	P	1.4	
2	☐	2.000	3.300	206045.09	0.0502	P	1.8	65.0
3	☐	5.000	6.103	313124.71	0.0755	P	2.7	22.1
4	☐	10.000	11.048	503101.99	0.1201	P	0.8	10.5
5	☐	100.000	103.498	4044189.52	0.9540	P	2.1	3.5
6	☐	200.000	198.158	7723175.51	1.8079	A	0.7	-0.9
7	☐	1.000						

y = 0.0090 * x + 0.0204
R = 0.9998
DL = 0.09747 ppb
BEC = 2.266 ppb

Weight: <None>
Min Conc: <None>

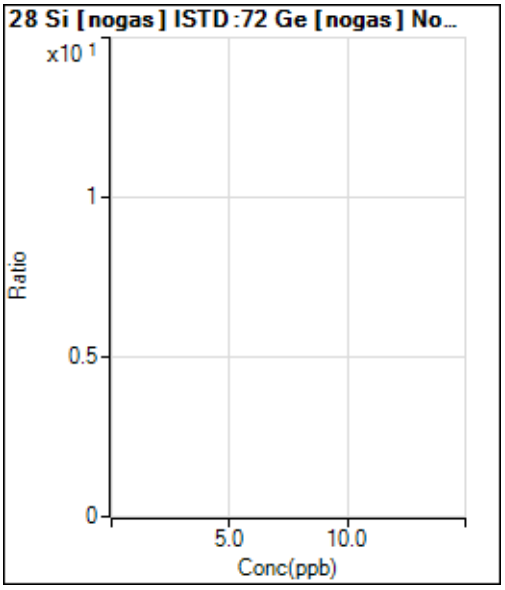
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2810.31	0.0027	P	2.0	
2	☐	2.000	3.013	6331.42	0.0061	P	7.1	50.6
3	☐	5.000	6.040	9946.73	0.0094	P	4.4	20.8
4	☐	10.000	11.239	16315.64	0.0152	P	1.6	12.4
5	☐	100.000	103.696	127303.47	0.1183	P	0.6	3.7
6	☐	200.000	198.054	240154.41	0.2235	P	1.0	-1.0
7	☐	1.000						

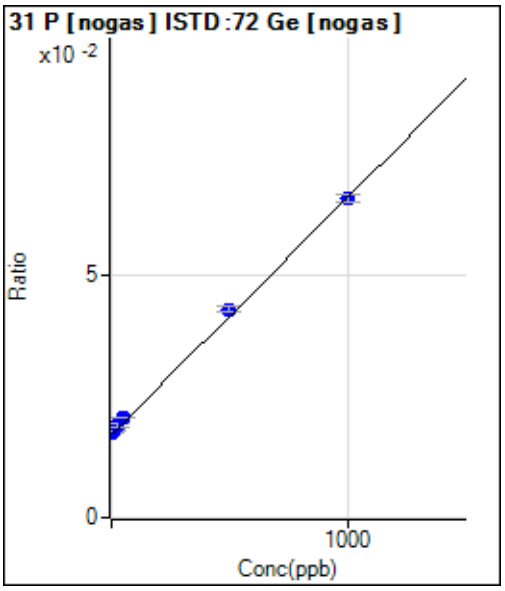
y = 0.0011 * x + 0.0027
R = 0.9998
DL = 0.1462 ppb
BEC = 2.423 ppb

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	100.000						
3	☐	250.000						
4	☐	500.000						
5	☐	5000.000						
6	☐	10000.00						
7	☐	50.000						

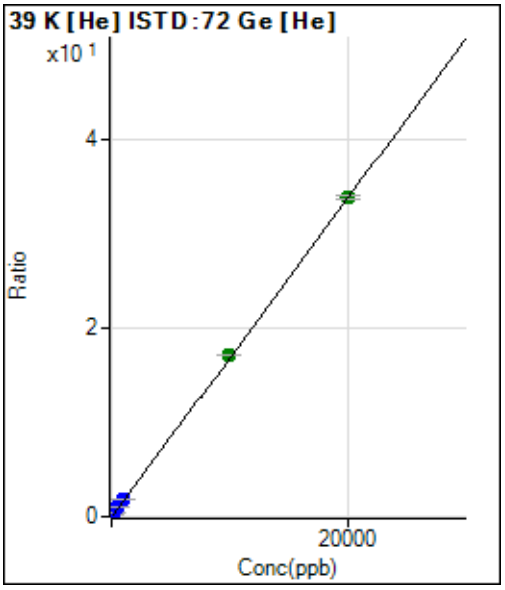
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	71456.43	0.0174	P	2.5	
2	☐	10.000	11.066	73747.18	0.0180	P	0.4	10.7
3	☐	25.000	32.041	78765.30	0.0190	P	2.3	28.2
4	☐	50.000	63.596	86000.87	0.0205	P	1.2	27.2
5	☐	500.000	519.952	181324.66	0.0428	P	2.7	4.0
6	☐	1000.000	989.157	280477.16	0.0657	P	1.9	-1.1
7	☐	5.000						

y = 4.8752E-005 * x + 0.0174
R = 0.9997
DL = 27.18 ppb
BEC = 357.5 ppb

Weight: <None>
Min Conc: <None>

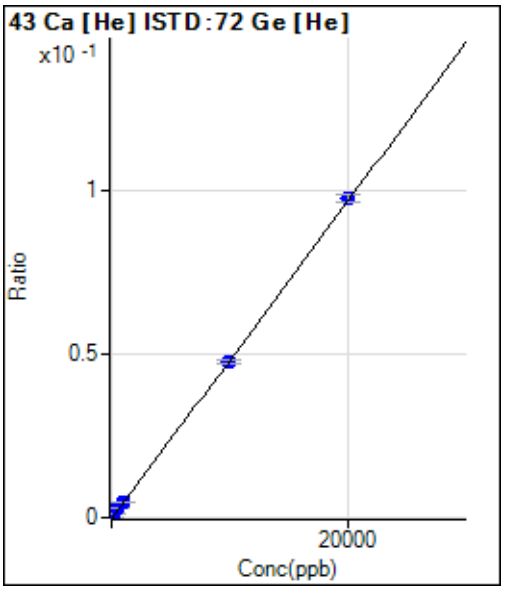


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	119333.56	0.1147	P	1.5	
2	☐	200.000	195.390	465875.55	0.4458	P	0.6	-2.3
3	☐	500.000	491.672	999659.41	0.9480	P	1.9	-1.7
4	☐	1000.000	984.966	1911169.40	1.7840	P	1.1	-1.5
5	☐	10000.00	10099.69	18544021.81	17.2311	A	0.4	1.0
6	☐	20000.00	19951.15	36459221.96	33.9268	A	1.0	-0.2
7	☐	100.000						

y = 0.0017 * x + 0.1147
R = 1.0000
DL = 3.036 ppb
BEC = 67.68 ppb

Weight: <None>
Min Conc: <None>

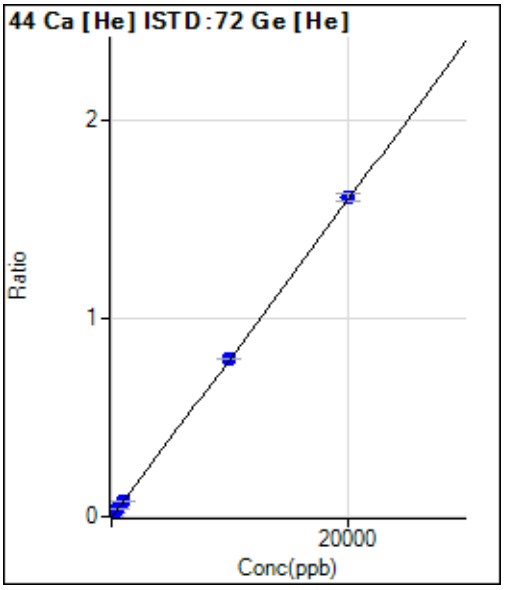
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	23.1	
2	☐	200.000	193.552	1030.06	0.0010	P	8.3	-3.2
3	☐	500.000	558.550	2910.35	0.0028	P	2.7	11.7
4	☐	1000.000	972.704	5114.30	0.0048	P	3.1	-2.7
5	☐	10000.00	9832.759	51494.09	0.0478	P	2.0	-1.7
6	☐	20000.00	20083.58	104963.97	0.0977	P	2.1	0.4
7	☐	100.000						

y = 4.8614E-006 * x + 4.4751E-005
R = 0.9999
DL = 6.386 ppb
BEC = 9.205 ppb

Weight: <None>
Min Conc: <None>

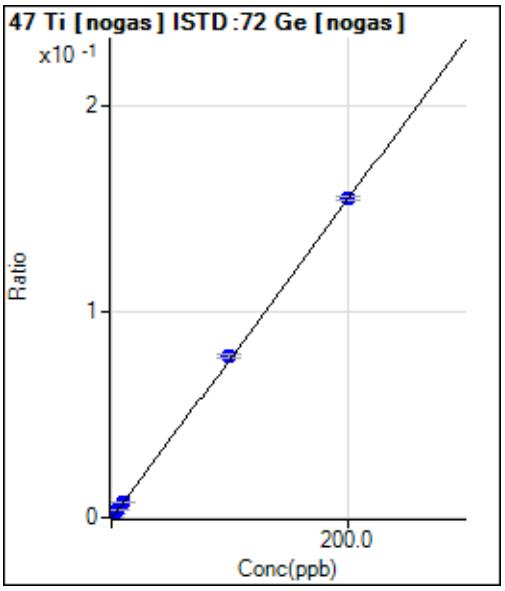


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2370.24	0.0023	P	11.5	
2	☐	200.000	199.593	19115.64	0.0183	P	4.6	-0.2
3	☐	500.000	503.424	44997.07	0.0427	P	1.5	0.7
4	☐	1000.000	987.249	87299.62	0.0815	P	1.2	-1.3
5	☐	10000.00	9860.369	853872.02	0.7934	P	0.3	-1.4
6	☐	20000.00	20070.37	1732869.40	1.6126	P	1.9	0.4
7	☐	100.000						

y = 8.0235E-005 * x + 0.0023
R = 1.0000
DL = 9.791 ppb
BEC = 28.39 ppb

Weight: <None>
Min Conc: <None>

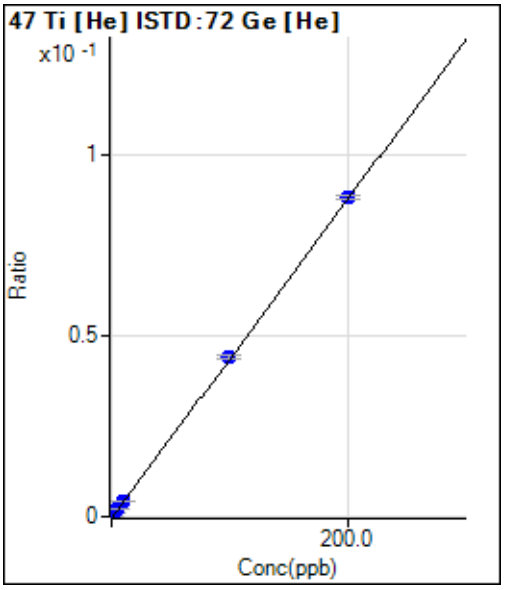
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	506.69	0.0001	P	10.6	
2	☐	2.000	1.844	6391.51	0.0016	P	7.1	-7.8
3	☐	5.000	4.804	16002.63	0.0039	P	2.9	-3.9
4	☐	10.000	9.804	32445.08	0.0077	P	1.8	-2.0
5	☐	100.000	100.702	332358.78	0.0784	P	2.4	0.7
6	☐	200.000	199.665	663622.69	0.1553	P	1.7	-0.2
7	☐	1.000						

y = 7.7738E-004 * x + 1.2367E-004
R = 1.0000
DL = 0.05051 ppb
BEC = 0.1591 ppb

Weight: <None>
Min Conc: <None>

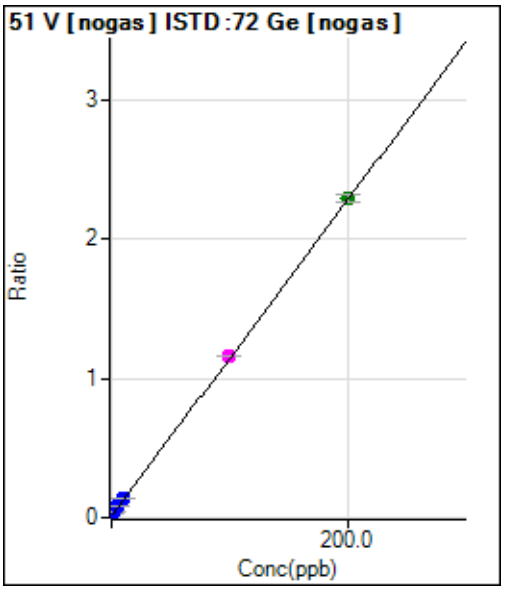


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	115.	
2	☐	2.000	1.910	893.38	0.0009	P	9.8	-4.5
3	☐	5.000	4.766	2230.20	0.0021	P	5.7	-4.7
4	☐	10.000	9.663	4577.45	0.0043	P	8.5	-3.4
5	☐	100.000	99.630	47280.48	0.0439	P	2.3	-0.4
6	☐	200.000	200.209	94865.35	0.0883	P	0.9	0.1
7	☐	1.000						

y = 4.4085E-004 * x + 1.2795E-005
R = 1.0000
DL = 0.1004 ppb
BEC = 0.02902 ppb

Weight: <None>
Min Conc: <None>

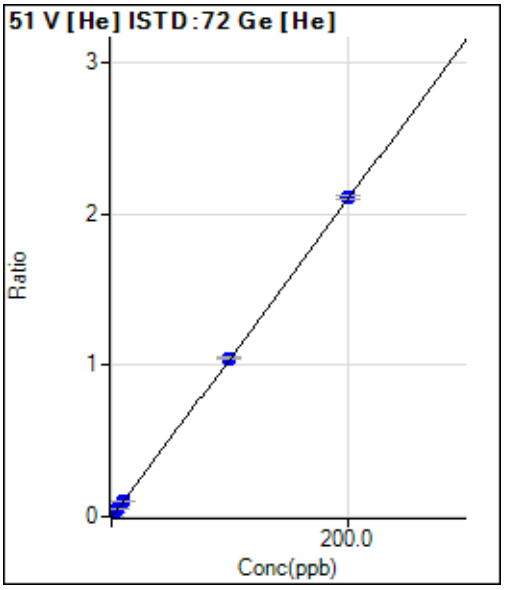
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95839.42	0.0234	P	2.5	
2	☐	2.000	2.139	195554.59	0.0477	P	1.8	7.0
3	☐	5.000	5.042	334255.63	0.0806	P	1.8	0.8
4	☐	10.000	9.956	571095.32	0.1363	P	0.3	-0.4
5	☐	100.000	100.094	4913440.55	1.1591	M	0.7	0.1
6	☐	200.000	199.953	9792115.69	2.2921	A	2.3	0.0
7	☐	1.000						

y = 0.0113 * x + 0.0234
R = 1.0000
DL = 0.1536 ppb
BEC = 2.061 ppb

Weight: <None>
Min Conc: <None>

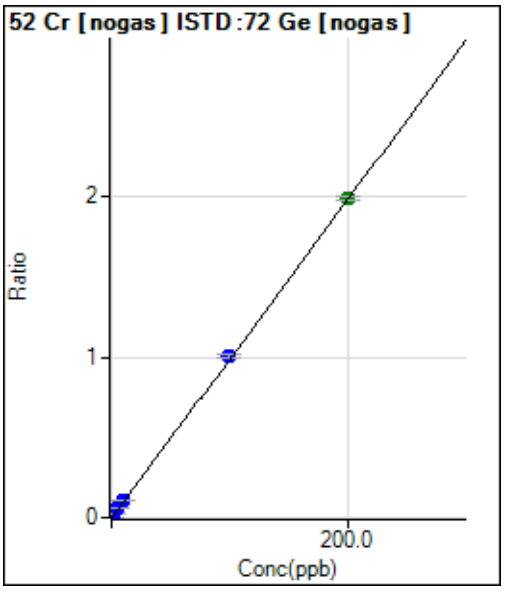


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2144.61	0.0021	P	6.0	
2	☐	2.000	2.010	24293.93	0.0232	P	1.2	0.5
3	☐	5.000	4.976	57483.23	0.0545	P	1.5	-0.5
4	☐	10.000	9.828	113197.48	0.1057	P	0.9	-1.7
5	☐	100.000	99.442	1130316.45	1.0503	P	0.4	-0.6
6	☐	200.000	200.288	2271164.01	2.1134	P	0.7	0.1
7	☐	1.000						

y = 0.0105 * x + 0.0021
R = 1.0000
DL = 0.03491 ppb
BEC = 0.1956 ppb

Weight: <None>
Min Conc: <None>

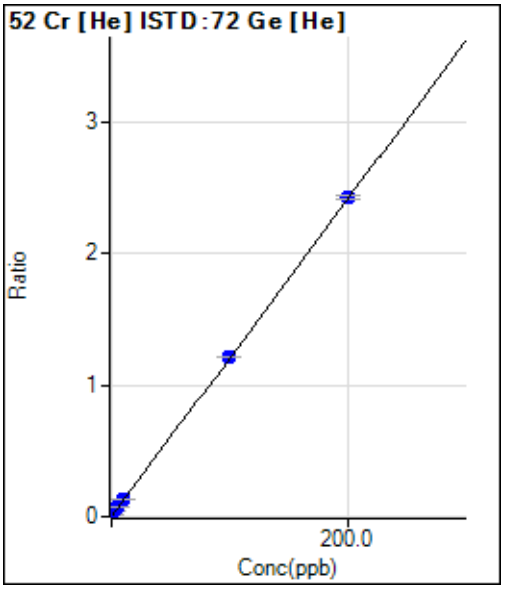
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23688.96	0.0058	P	1.0	
2	☐	2.000	2.027	106322.42	0.0259	P	2.9	1.4
3	☐	5.000	4.972	228743.13	0.0552	P	1.3	-0.6
4	☐	10.000	9.909	436399.43	0.1042	P	1.1	-0.9
5	☐	100.000	100.477	4253990.14	1.0036	P	2.6	0.5
6	☐	200.000	199.766	8499276.12	1.9895	A	1.0	-0.1
7	☐	1.000						

y = 0.0099 * x + 0.0058
R = 1.0000
DL = 0.0178 ppb
BEC = 0.5819 ppb

Weight: <None>
Min Conc: <None>

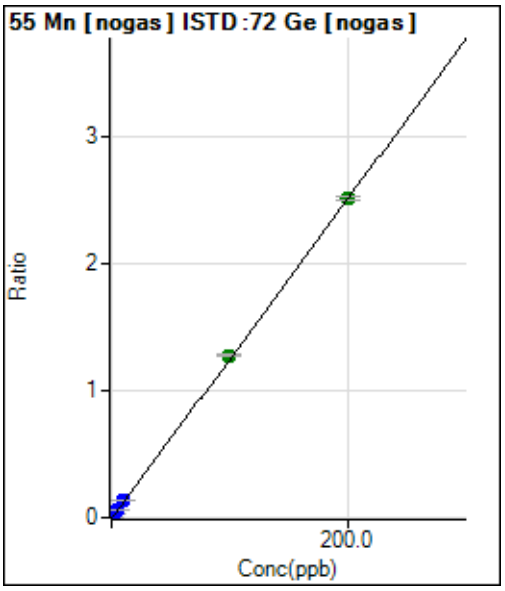


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15565.02	0.0150	P	6.2	
2	☐	2.000	2.112	42262.86	0.0404	P	2.0	5.6
3	☐	5.000	5.129	81027.14	0.0768	P	2.2	2.6
4	☐	10.000	10.186	147665.69	0.1378	P	1.1	1.9
5	☐	100.000	99.715	1310598.00	1.2178	P	0.4	-0.3
6	☐	200.000	200.129	2610433.09	2.4291	P	1.1	0.1
7	☐	1.000						

y = 0.0121 * x + 0.0150
R = 1.0000
DL = 0.2295 ppb
BEC = 1.241 ppb

Weight: <None>
Min Conc: <None>

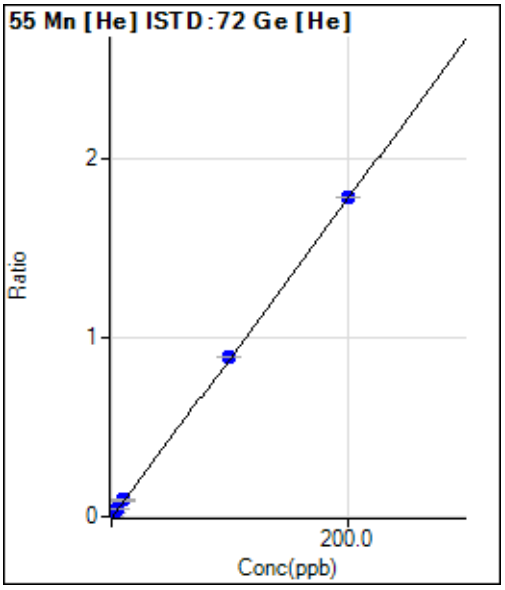
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14730.74	0.0036	P	5.2	
2	☐	2.000	2.011	118670.62	0.0289	P	2.0	0.5
3	☐	5.000	5.033	277830.43	0.0670	P	1.6	0.7
4	☐	10.000	10.065	546119.63	0.1304	P	1.7	0.6
5	☐	100.000	101.166	5416944.92	1.2779	A	1.6	1.2
6	☐	200.000	199.413	10745874.84	2.5154	A	0.6	-0.3
7	☐	1.000						

y = 0.0126 * x + 0.0036
R = 1.0000
DL = 0.04441 ppb
BEC = 0.2853 ppb

Weight: <None>
Min Conc: <None>

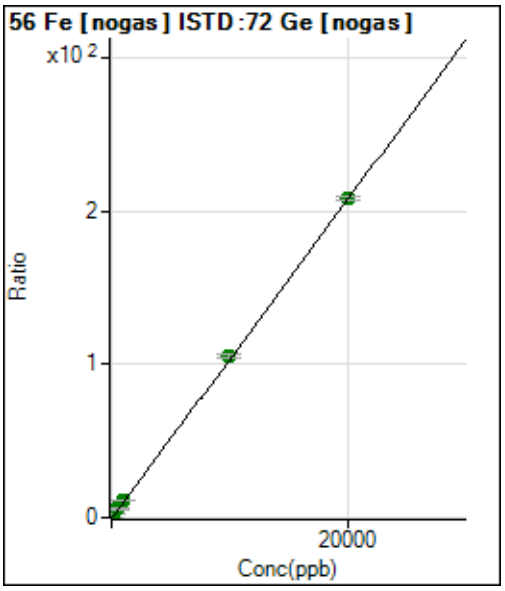


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	663.36	0.0006	P	4.4	
2	☐	2.000	2.030	19552.98	0.0187	P	3.7	1.5
3	☐	5.000	5.061	48180.61	0.0457	P	1.0	1.2
4	☐	10.000	10.174	97701.90	0.0912	P	1.8	1.7
5	☐	100.000	99.994	958601.60	0.8907	P	0.6	0.0
6	☐	200.000	199.992	1913909.82	1.7809	P	0.4	0.0
7	☐	1.000						

y = 0.0089 * x + 6.3763E-004
R = 1.0000
DL = 0.009368 ppb
BEC = 0.07163 ppb

Weight: <None>
Min Conc: <None>

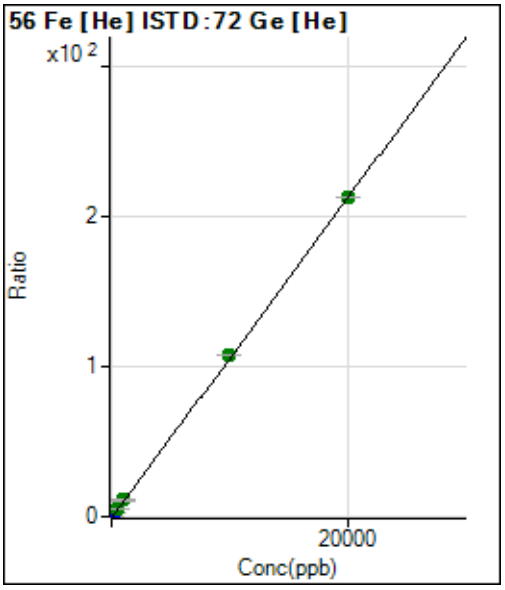
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1073526.42	0.2619	P	2.1	
2	☐	200.000	208.315	9988013.81	2.4339	A	1.6	4.2
3	☐	500.000	518.006	23485850.49	5.6629	A	1.2	3.6
4	☐	1000.000	1015.402	45445024.32	10.8491	A	0.6	1.5
5	☐	10000.00	10073.07	446310180.0	105.290	A	2.1	0.7
6	☐	20000.00	19962.16	890290120.0	208.400	A	1.2	-0.2
7	☐	100.000						

y = 0.0104 * x + 0.2619
R = 1.0000
DL = 1.551 ppb
BEC = 25.11 ppb

Weight: <None>
Min Conc: <None>

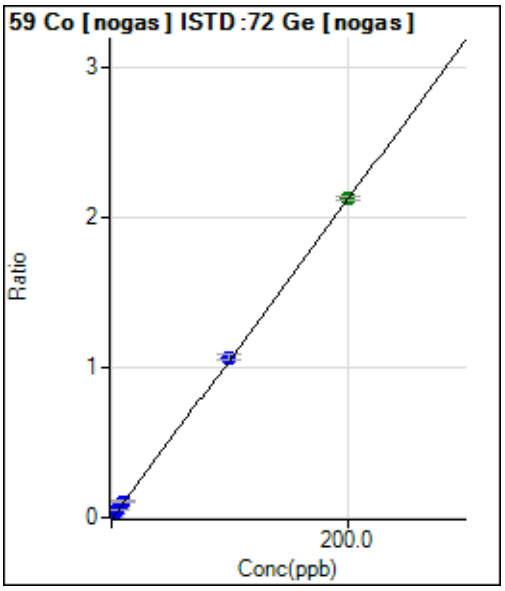


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24329.98	0.0234	P	2.4	
2	☐	200.000	201.924	2274780.90	2.1770	P	0.6	1.0
3	☐	500.000	522.303	5899069.29	5.5939	A	2.4	4.5
4	☐	1000.000	1018.964	11667340.66	10.8909	A	1.7	1.9
5	☐	10000.00	10132.71	116327011.6	108.091	A	0.2	1.3
6	☐	20000.00	19932.11	228487563.2	212.605	A	0.3	-0.3
7	☐	100.000						

y = 0.0107 * x + 0.0234
R = 1.0000
DL = 0.1553 ppb
BEC = 2.193 ppb

Weight: <None>
Min Conc: <None>

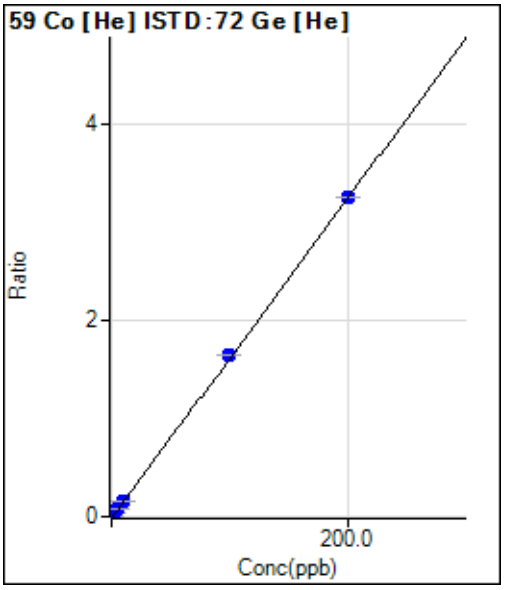
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	296.68	0.0001	P	20.7	
2	☐	2.000	2.020	88717.34	0.0216	P	1.3	1.0
3	☐	5.000	5.080	225096.41	0.0543	P	2.3	1.6
4	☐	10.000	10.135	453273.97	0.1082	P	1.7	1.4
5	☐	100.000	100.471	4543936.18	1.0720	P	2.6	0.5
6	☐	200.000	199.756	9104482.36	2.1312	A	0.7	-0.1
7	☐	1.000						

y = 0.0107 * x + 7.2281E-005
R = 1.0000
DL = 0.004211 ppb
BEC = 0.006775 ppb

Weight: <None>
Min Conc: <None>

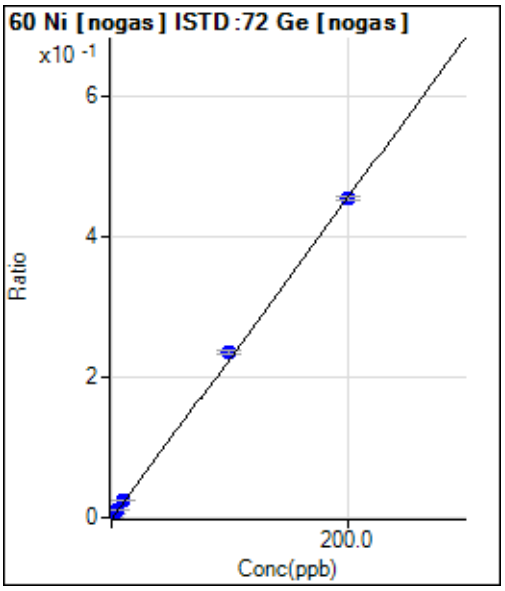


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	88.9	
2	☐	2.000	2.117	36170.62	0.0346	P	2.0	5.9
3	☐	5.000	5.112	88094.13	0.0835	P	1.1	2.2
4	☐	10.000	10.118	177068.84	0.1653	P	1.0	1.2
5	☐	100.000	100.922	1773847.16	1.6483	P	0.9	0.9
6	☐	200.000	199.529	3502194.95	3.2588	P	0.3	-0.2
7	☐	1.000						

y = 0.0163 * x + 3.8092E-005
R = 1.0000
DL = 0.006221 ppb
BEC = 0.002332 ppb

Weight: <None>
Min Conc: <None>

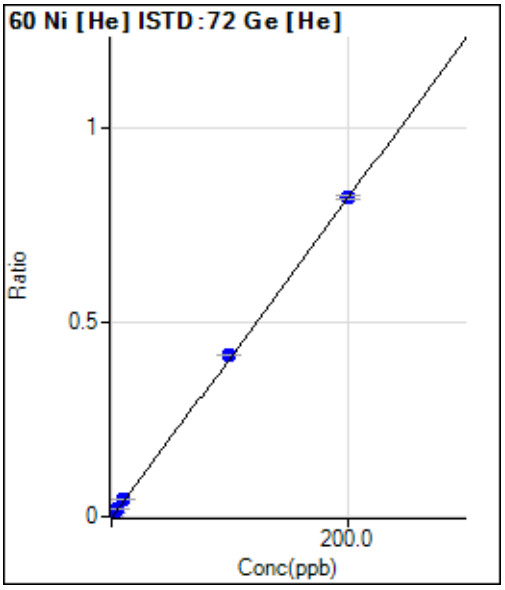
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1110.06	0.0003	P	12.7	
2	☐	2.000	2.106	20898.14	0.0051	P	2.3	5.3
3	☐	5.000	5.136	49879.80	0.0120	P	0.8	2.7
4	☐	10.000	10.431	101159.04	0.0241	P	1.3	4.3
5	☐	100.000	102.689	997568.89	0.2353	P	2.5	2.7
6	☐	200.000	198.630	1943623.98	0.4550	P	1.6	-0.7
7	☐	1.000						

y = 0.0023 * x + 2.7089E-004
R = 0.9999
DL = 0.04522 ppb
BEC = 0.1183 ppb

Weight: <None>
Min Conc: <None>

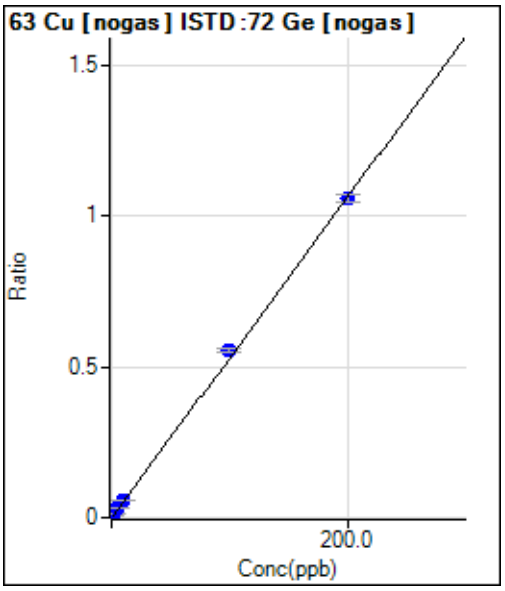


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	340.01	0.0003	P	9.9	
2	☐	2.000	2.184	9716.66	0.0093	P	0.4	9.2
3	☐	5.000	5.219	22951.18	0.0218	P	1.1	4.4
4	☐	10.000	10.445	46311.62	0.0432	P	0.5	4.5
5	☐	100.000	100.876	446240.00	0.4147	P	1.0	0.9
6	☐	200.000	199.533	881081.73	0.8199	P	1.1	-0.2
7	☐	1.000						

y = 0.0041 * x + 3.2665E-004
R = 1.0000
DL = 0.02372 ppb
BEC = 0.07953 ppb

Weight: <None>
Min Conc: <None>

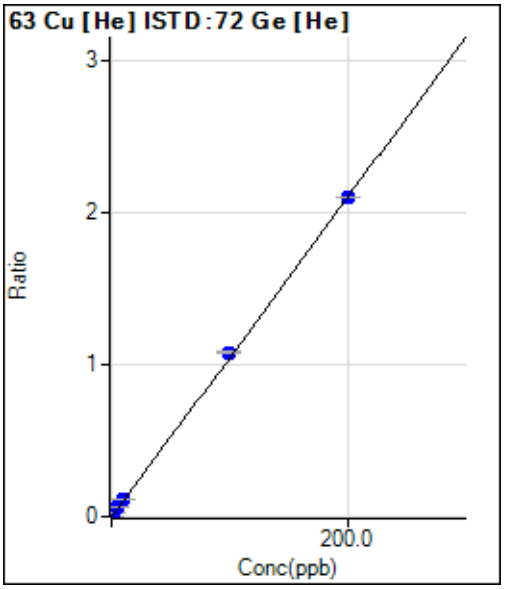
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15748.55	0.0038	P	4.6	
2	☐	2.000	2.129	62346.31	0.0152	P	1.7	6.4
3	☐	5.000	5.240	131842.62	0.0318	P	1.9	4.8
4	☐	10.000	10.500	250708.74	0.0598	P	2.5	5.0
5	☐	100.000	103.804	2363249.08	0.5575	P	2.3	3.8
6	☐	200.000	198.066	4529644.10	1.0603	P	2.2	-1.0
7	☐	1.000						

y = 0.0053 * x + 0.0038
R = 0.9997
DL = 0.09904 ppb
BEC = 0.72 ppb

Weight: <None>
Min Conc: <None>

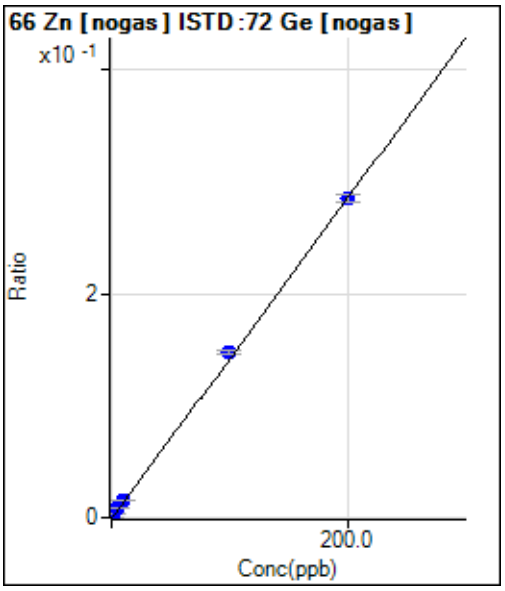


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6224.74	0.0060	P	3.9	
2	☐	2.000	2.047	28741.15	0.0275	P	2.8	2.4
3	☐	5.000	5.332	65429.13	0.0620	P	0.8	6.6
4	☐	10.000	10.457	124190.81	0.1159	P	1.2	4.6
5	☐	100.000	102.108	1161802.04	1.0795	P	0.2	2.1
6	☐	200.000	198.914	2254009.13	2.0974	P	0.5	-0.5
7	☐	1.000						

y = 0.0105 * x + 0.0060
R = 0.9999
DL = 0.06694 ppb
BEC = 0.569 ppb

Weight: <None>
Min Conc: <None>

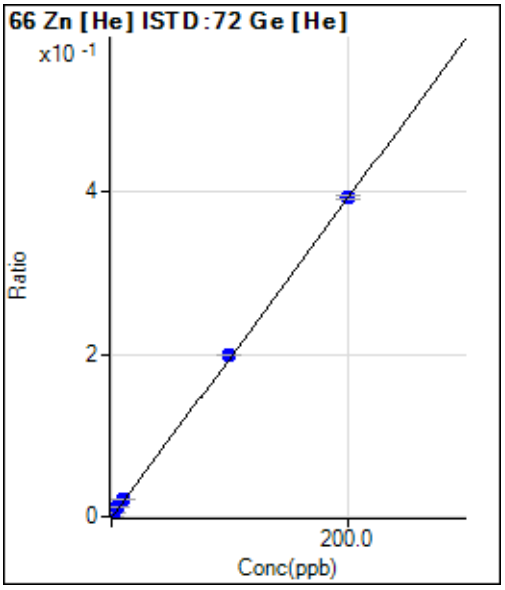
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1760.14	0.0004	P	8.5	
2	☐	2.000	2.235	14914.36	0.0036	P	0.6	11.7
3	☐	5.000	5.598	35078.07	0.0085	P	2.9	12.0
4	☐	10.000	11.014	67954.47	0.0162	P	1.1	10.1
5	☐	100.000	102.398	624210.08	0.1473	P	2.6	2.4
6	☐	200.000	198.733	1219251.05	0.2854	P	1.9	-0.6
7	☐	1.000						

y = 0.0014 * x + 4.2959E-004
R = 0.9999
DL = 0.07661 ppb
BEC = 0.2996 ppb

Weight: <None>
Min Conc: <None>

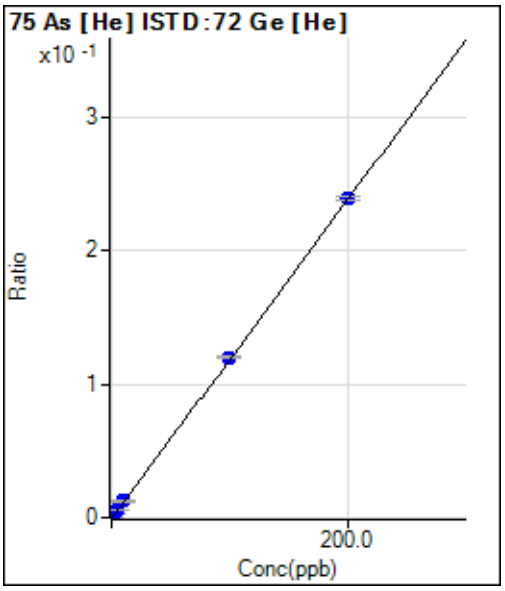


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	673.36	0.0006	P	18.1	
2	☐	2.000	2.105	5007.60	0.0048	P	11.4	5.2
3	☐	5.000	5.489	12081.81	0.0115	P	2.1	9.8
4	☐	10.000	10.786	23448.76	0.0219	P	1.7	7.9
5	☐	100.000	100.740	214202.07	0.1990	P	0.5	0.7
6	☐	200.000	199.578	423085.38	0.3937	P	0.8	-0.2
7	☐	1.000						

y = 0.0020 * x + 6.4727E-004
R = 1.0000
DL = 0.1783 ppb
BEC = 0.3287 ppb

Weight: <None>
Min Conc: <None>

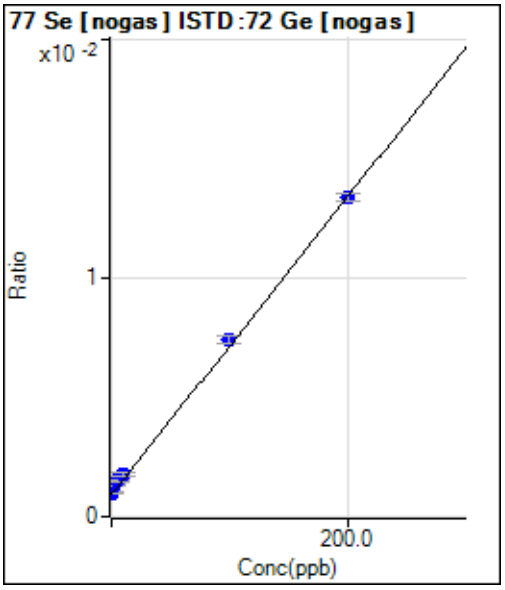
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	218.89	0.0002	P	14.4	
2	☐	2.000	2.009	2736.94	0.0026	P	4.5	0.5
3	☐	5.000	5.067	6628.18	0.0063	P	2.3	1.3
4	☐	10.000	10.115	13214.83	0.0123	P	1.7	1.1
5	☐	100.000	100.385	129713.11	0.1205	P	0.9	0.4
6	☐	200.000	199.800	257576.74	0.2397	P	1.6	-0.1
7	☐	1.000						

y = 0.0012 * x + 2.1069E-004
R = 1.0000
DL = 0.07584 ppb
BEC = 0.1758 ppb

Weight: <None>
Min Conc: <None>

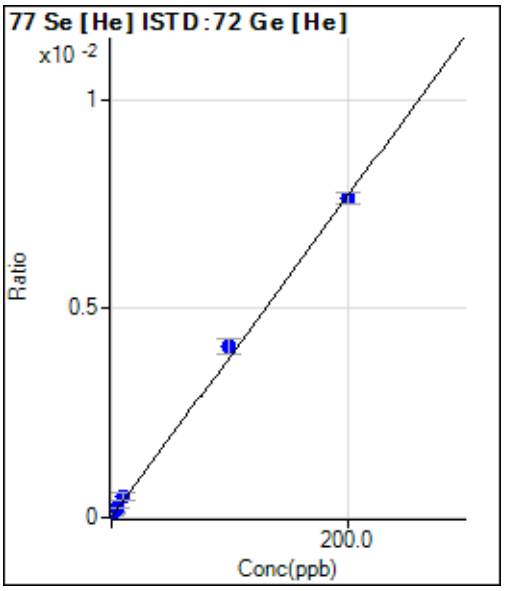


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4040.63	0.0010	P	5.0	
2	☐	2.000	5.106	5351.06	0.0013	P	7.4	155.
3	☐	5.000	8.281	6231.44	0.0015	P	4.3	65.6
4	☐	10.000	12.758	7465.35	0.0018	P	6.1	27.6
5	☐	100.000	102.743	31370.27	0.0074	P	3.6	2.7
6	☐	200.000	198.378	57127.13	0.0134	P	2.4	-0.8
7	☐	1.000						

y = 6.2441E-005 * x + 9.8528E-004
R = 0.9998
DL = 2.379 ppb
BEC = 15.78 ppb

Weight: <None>
Min Conc: <None>

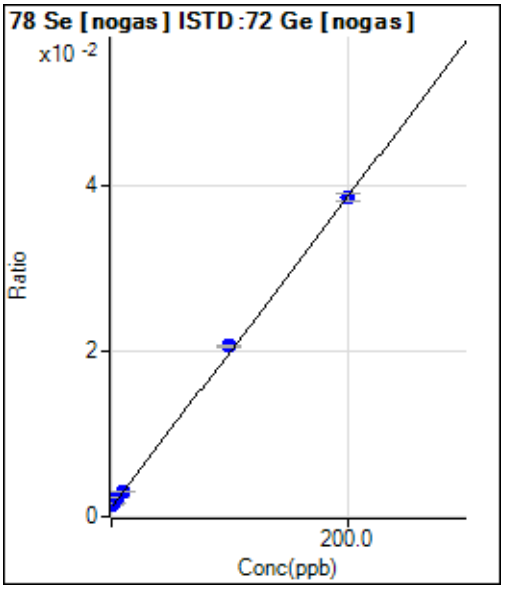
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0000	P	18.5	
2	☐	2.000	1.823	123.33	0.0001	P	12.6	-8.9
3	☐	5.000	4.841	246.68	0.0002	P	9.9	-3.2
4	☐	10.000	11.547	526.69	0.0005	P	36.0	15.5
5	☐	100.000	104.995	4397.40	0.0041	P	9.3	5.0
6	☐	200.000	197.431	8209.04	0.0076	P	3.2	-1.3
7	☐	1.000						

y = 3.8452E-005 * x + 4.7966E-005
R = 0.9995
DL = 0.6917 ppb
BEC = 1.247 ppb

Weight: <None>
Min Conc: <None>

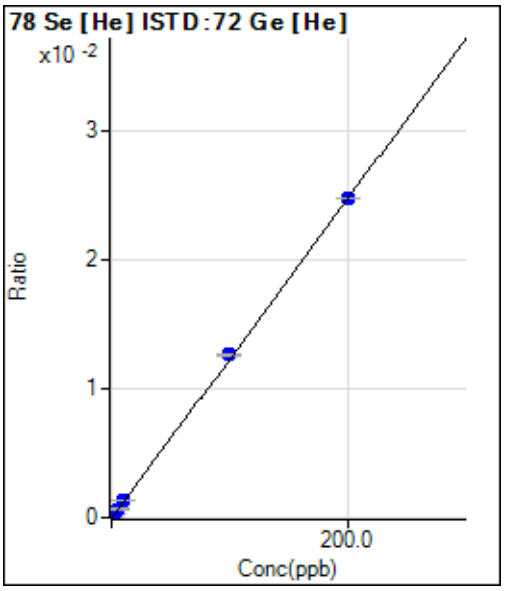


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5464.46	0.0013	P	2.8	
2	☐	2.000	1.407	6554.90	0.0016	P	2.2	-29.6
3	☐	5.000	5.082	9489.88	0.0023	P	6.1	1.6
4	☐	10.000	9.470	13039.26	0.0031	P	1.7	-5.3
5	☐	100.000	102.846	87591.40	0.0207	P	1.5	2.8
6	☐	200.000	198.607	165168.41	0.0387	P	2.0	-0.7
7	☐	1.000						

y = 1.8796E-004 * x + 0.0013
R = 0.9998
DL = 0.5986 ppb
BEC = 7.09 ppb

Weight: <None>
Min Conc: <None>

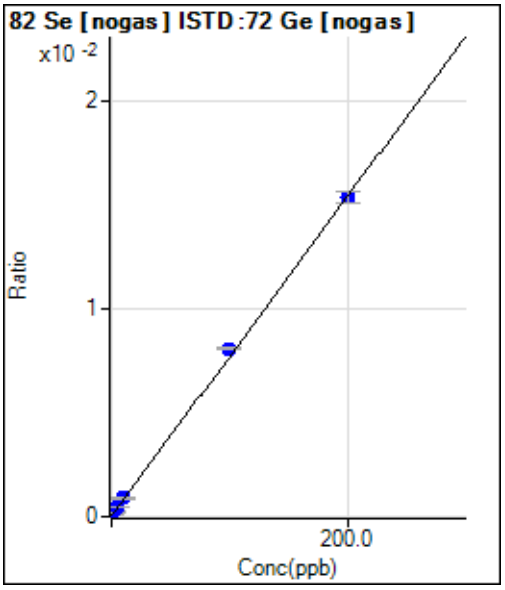
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54.00	0.0001	P	23.0	
2	☐	2.000	2.035	318.67	0.0003	P	13.5	1.7
3	☐	5.000	4.980	708.69	0.0007	P	9.6	-0.4
4	☐	10.000	10.097	1400.74	0.0013	P	5.4	1.0
5	☐	100.000	101.555	13647.62	0.0127	P	1.5	1.6
6	☐	200.000	199.218	26681.92	0.0248	P	0.4	-0.4
7	☐	1.000						

y = 1.2436E-004 * x + 5.1949E-005
R = 1.0000
DL = 0.2877 ppb
BEC = 0.4177 ppb

Weight: <None>
Min Conc: <None>

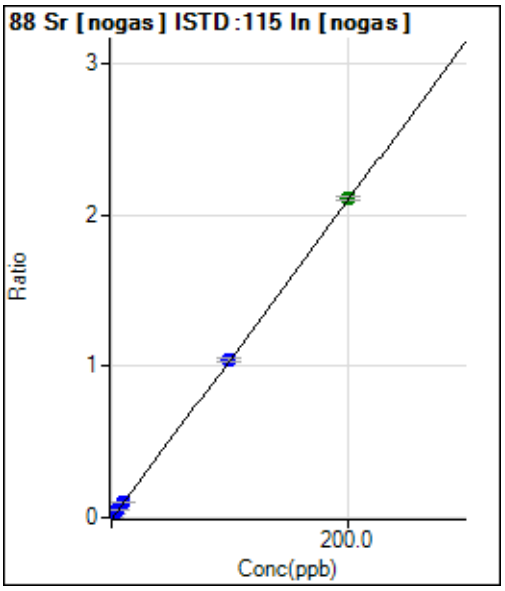


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	460.02	0.0001	P	4.0	
2	☐	2.000	1.672	990.05	0.0002	P	12.2	-16.4
3	☐	5.000	4.854	2016.85	0.0005	P	5.7	-2.9
4	☐	10.000	10.332	3803.90	0.0009	P	8.7	3.3
5	☐	100.000	103.560	34306.97	0.0081	P	0.6	3.6
6	☐	200.000	198.210	65735.99	0.0154	P	3.1	-0.9
7	☐	1.000						

y = 7.7065E-005 * x + 1.1220E-004
R = 0.9998
DL = 0.1735 ppb
BEC = 1.456 ppb

Weight: <None>
Min Conc: <None>

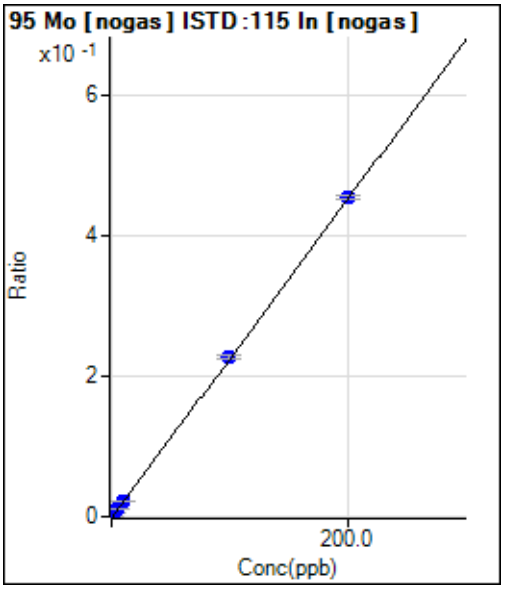
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1283.42	0.0003	P	6.6	
2	☐	2.000	1.972	94794.08	0.0211	P	2.1	-1.4
3	☐	5.000	4.906	235356.19	0.0520	P	1.7	-1.9
4	☐	10.000	9.880	473635.59	0.1044	P	1.3	-1.2
5	☐	100.000	99.084	4794006.60	1.0442	P	2.2	-0.9
6	☐	200.000	200.467	9584993.19	2.1123	A	1.7	0.2
7	☐	1.000						

y = 0.0105 * x + 2.8602E-004
R = 1.0000
DL = 0.005366 ppb
BEC = 0.02715 ppb

Weight: <None>
Min Conc: <None>

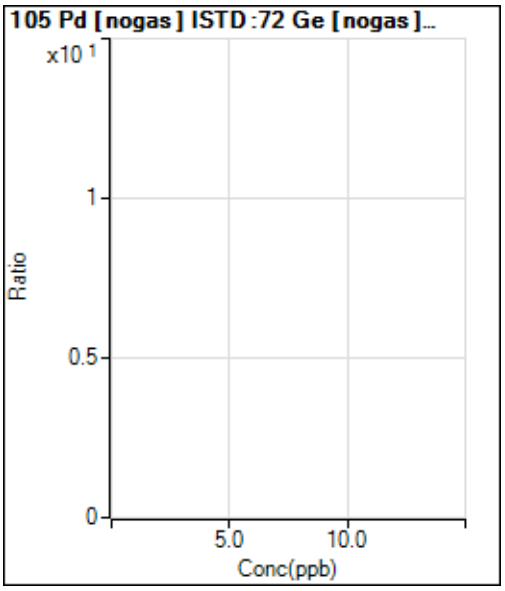


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0003	P	6.9	
2	☐	2.000	1.940	21222.39	0.0047	P	1.1	-3.0
3	☐	5.000	4.765	50420.51	0.0111	P	1.1	-4.7
4	☐	10.000	9.721	101647.64	0.0224	P	0.5	-2.8
5	☐	100.000	99.736	1042074.41	0.2270	P	1.9	-0.3
6	☐	200.000	200.153	2065566.85	0.4552	P	1.6	0.1
7	☐	1.000						

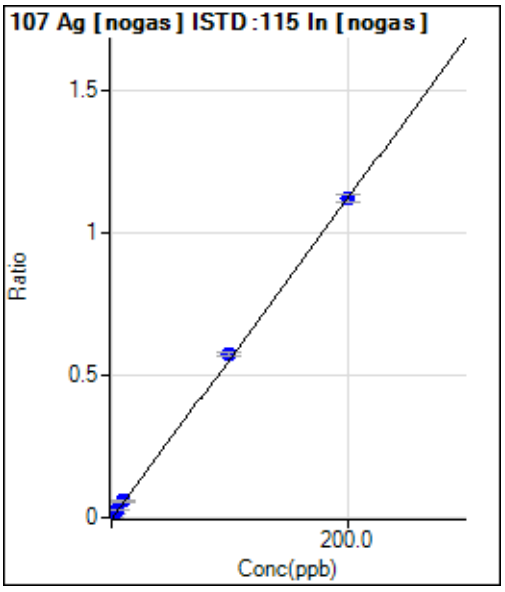
y = 0.0023 * x + 3.0535E-004
R = 1.0000
DL = 0.028 ppb
BEC = 0.1344 ppb

Weight: <None>
Min Conc: <None>

Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

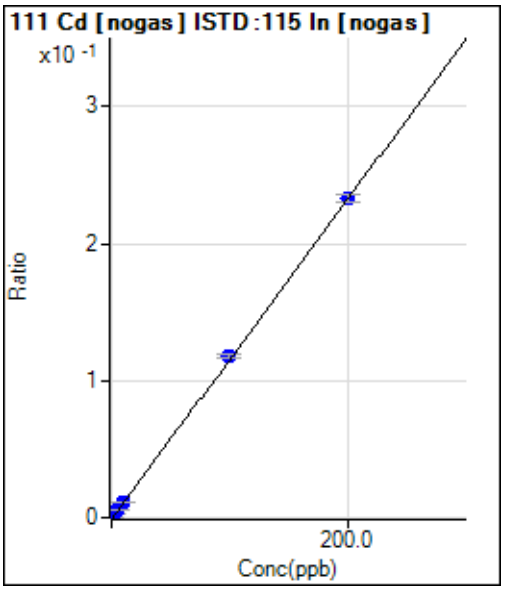


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	460.02	0.0001	P	14.1	
2	☐	2.000	2.013	51625.25	0.0115	P	2.9	0.7
3	☐	5.000	5.093	130652.99	0.0289	P	1.7	1.9
4	☐	10.000	10.247	262978.63	0.0580	P	1.6	2.5
5	☐	100.000	101.967	2643308.08	0.5758	P	1.8	2.0
6	☐	200.000	199.002	5098259.09	1.1236	P	2.3	-0.5
7	☐	1.000						

y = 0.0056 * x + 1.0257E-004
R = 0.9999
DL = 0.007686 ppb
BEC = 0.01817 ppb

Weight: <None>
Min Conc: <None>

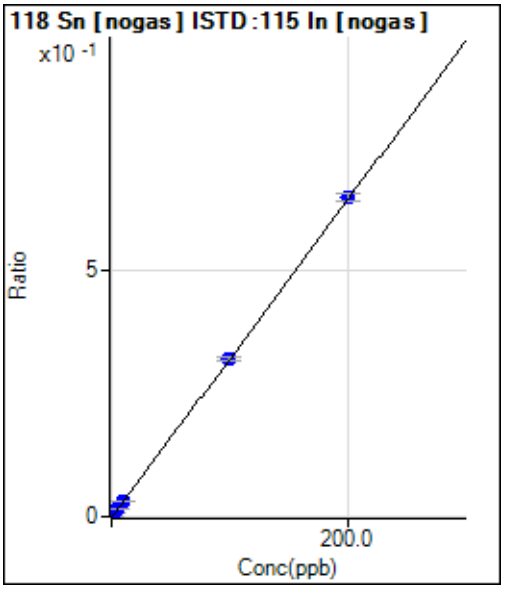
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	42.9	
2	☐	2.000	1.997	10513.98	0.0023	P	2.1	-0.2
3	☐	5.000	5.158	27309.44	0.0060	P	3.0	3.2
4	☐	10.000	10.025	53164.40	0.0117	P	1.1	0.2
5	☐	100.000	100.958	541577.83	0.1180	P	1.2	1.0
6	☐	200.000	199.516	1057809.54	0.2331	P	2.2	-0.2
7	☐	1.000						

y = 0.0012 * x + 2.9674E-006
R = 1.0000
DL = 0.003266 ppb
BEC = 0.00254 ppb

Weight: <None>
Min Conc: <None>

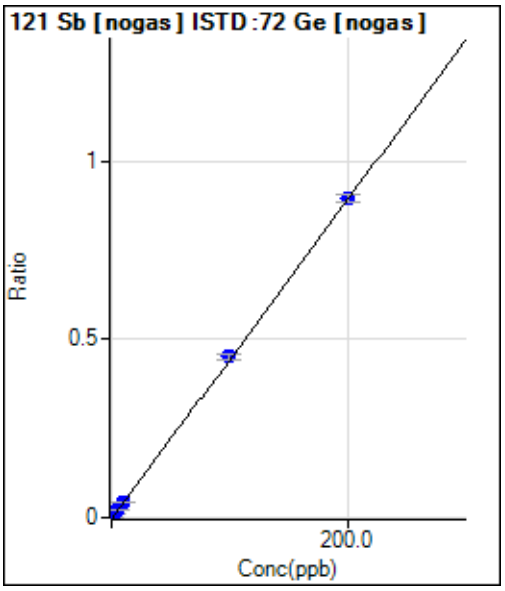


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4877.61	0.0011	P	6.8	
2	☐	2.000	1.937	33038.43	0.0073	P	5.5	-3.2
3	☐	5.000	4.853	75889.10	0.0168	P	3.4	-2.9
4	☐	10.000	9.783	148285.32	0.0327	P	2.0	-2.2
5	☐	100.000	99.023	1473027.79	0.3208	P	3.1	-1.0
6	☐	200.000	200.504	2942736.83	0.6485	P	2.9	0.3
7	☐	1.000						

y = 0.0032 * x + 0.0011
R = 1.0000
DL = 0.06845 ppb
BEC = 0.3367 ppb

Weight: <None>
Min Conc: <None>

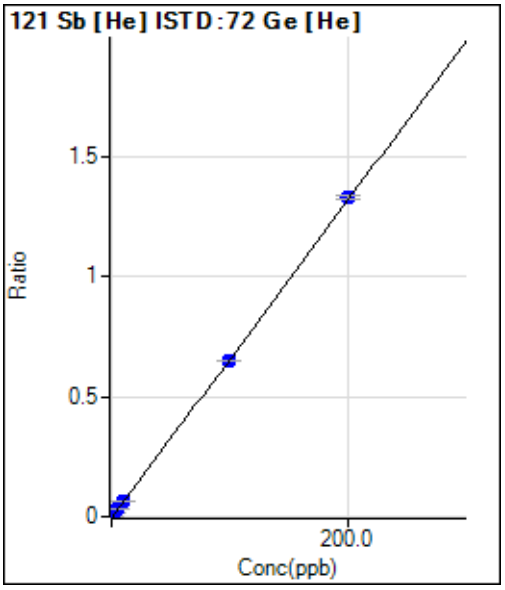
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1603.45	0.0004	P	6.0	
2	☐	2.000	2.009	38545.38	0.0094	P	4.5	0.5
3	☐	5.000	5.095	96293.97	0.0232	P	2.5	1.9
4	☐	10.000	9.951	188399.59	0.0450	P	1.8	-0.5
5	☐	100.000	100.488	1910042.73	0.4506	P	3.0	0.5
6	☐	200.000	199.756	3825004.21	0.8954	P	1.9	-0.1
7	☐	1.000						

y = 0.0045 * x + 3.9104E-004
R = 1.0000
DL = 0.01571 ppb
BEC = 0.08728 ppb

Weight: <None>
Min Conc: <None>

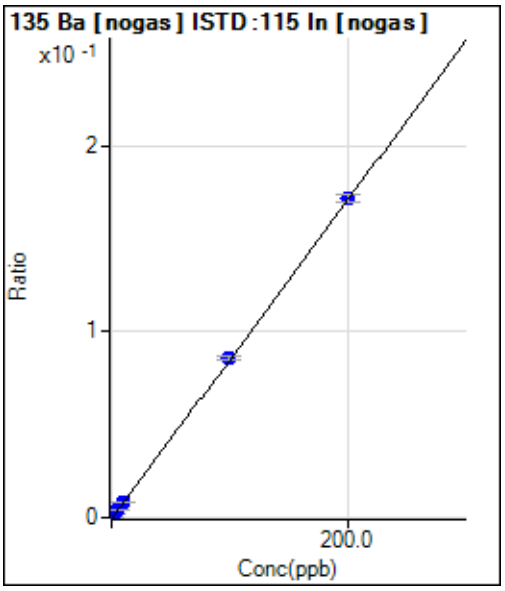


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0006	P	16.2	
2	☐	2.000	1.987	14394.10	0.0138	P	2.0	-0.6
3	☐	5.000	5.032	35764.74	0.0339	P	3.0	0.6
4	☐	10.000	9.985	71456.92	0.0667	P	1.2	-0.1
5	☐	100.000	98.203	700001.76	0.6504	P	0.3	-1.8
6	☐	200.000	200.898	1429273.42	1.3300	P	0.8	0.4
7	☐	1.000						

y = 0.0066 * x + 6.2542E-004
R = 0.9999
DL = 0.04594 ppb
BEC = 0.09452 ppb

Weight: <None>
Min Conc: <None>

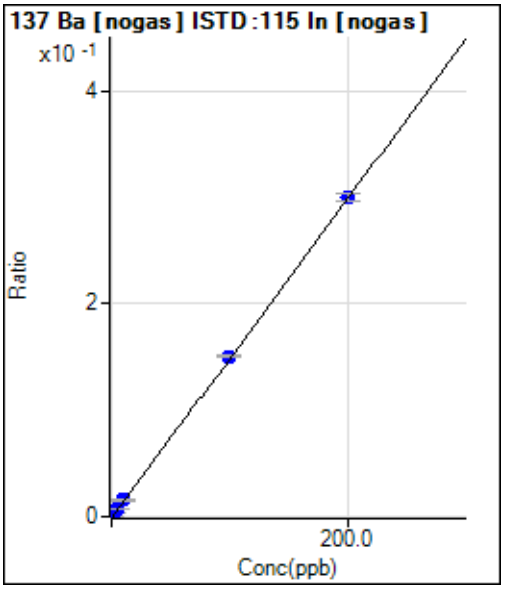
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	470.02	0.0001	P	9.9	
2	☐	2.000	1.894	7785.62	0.0017	P	6.8	-5.3
3	☐	5.000	5.108	20321.58	0.0045	P	2.9	2.2
4	☐	10.000	9.962	39267.80	0.0087	P	1.9	-0.4
5	☐	100.000	99.909	394079.02	0.0858	P	2.3	-0.1
6	☐	200.000	200.046	779377.70	0.1718	P	1.9	0.0
7	☐	1.000						

y = 8.5808E-004 * x + 1.0473E-004
R = 1.0000
DL = 0.03614 ppb
BEC = 0.1221 ppb

Weight: <None>
Min Conc: <None>

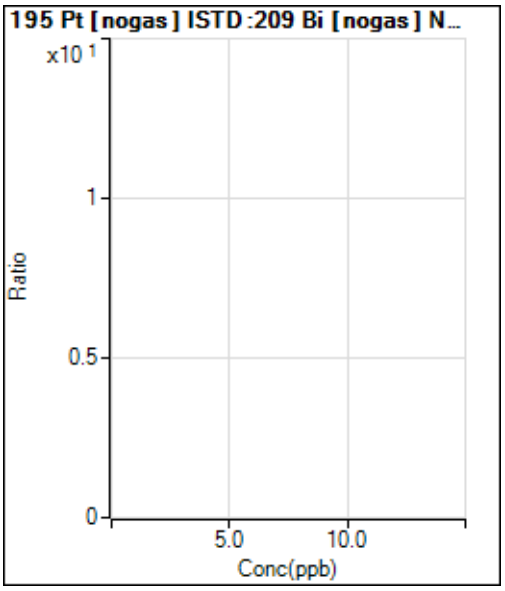


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	693.37	0.0002	P	32.3	
2	☐	2.000	2.060	14611.09	0.0032	P	4.3	3.0
3	☐	5.000	5.047	35006.58	0.0077	P	1.7	0.9
4	☐	10.000	10.171	69998.86	0.0154	P	3.5	1.7
5	☐	100.000	100.378	692497.78	0.1508	P	2.1	0.4
6	☐	200.000	199.801	1361689.98	0.3001	P	2.3	-0.1
7	☐	1.000						

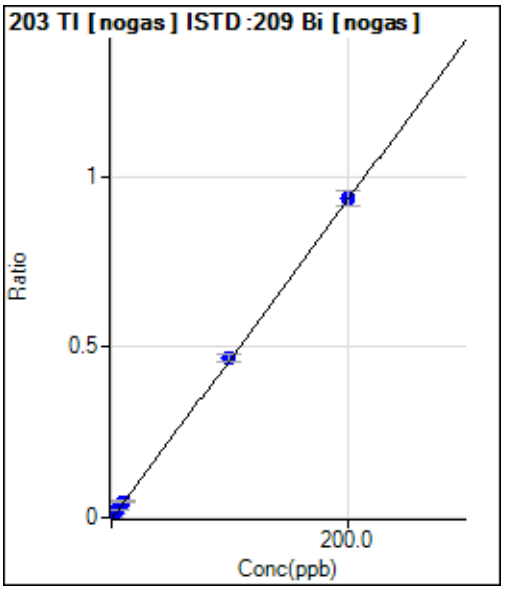
y = 0.0015 * x + 1.5445E-004
R = 1.0000
DL = 0.09984 ppb
BEC = 0.1029 ppb

Weight: <None>
Min Conc: <None>

Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

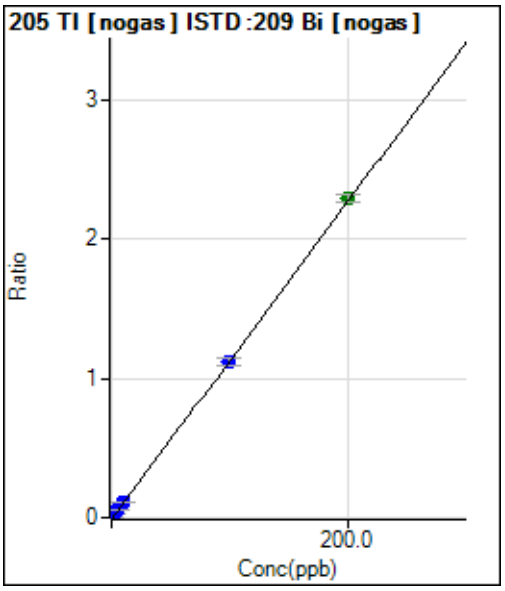


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	296.68	0.0001	P	2.9	
2	☐	2.000	1.985	38076.88	0.0094	P	2.9	-0.7
3	☐	5.000	4.978	94989.16	0.0234	P	5.4	-0.4
4	☐	10.000	9.952	191542.57	0.0466	P	5.7	-0.5
5	☐	100.000	99.991	1923731.69	0.4677	P	4.7	0.0
6	☐	200.000	200.007	3752865.36	0.9355	P	4.7	0.0
7	☐	1.000						

y = 0.0047 * x + 7.3468E-005
R = 1.0000
DL = 0.001383 ppb
BEC = 0.01571 ppb

Weight: <None>
Min Conc: <None>

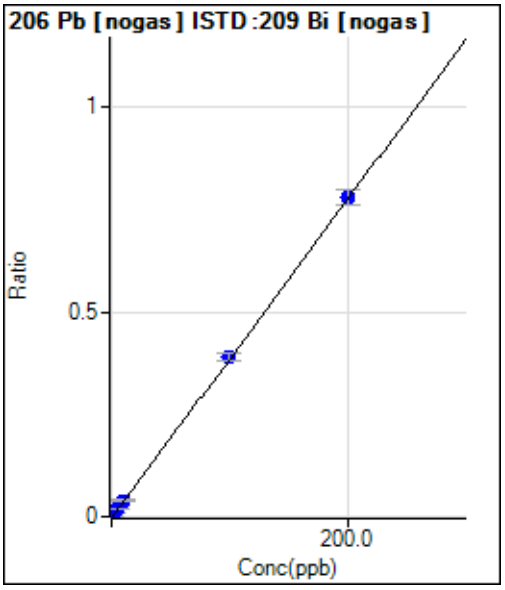
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	640.03	0.0002	P	14.2	
2	☐	2.000	1.912	89509.85	0.0220	P	4.8	-4.4
3	☐	5.000	4.855	226255.58	0.0556	P	4.4	-2.9
4	☐	10.000	9.784	459923.51	0.1119	P	5.5	-2.2
5	☐	100.000	97.873	4599445.25	1.1182	P	4.5	-2.1
6	☐	200.000	201.079	9217284.24	2.2973	A	2.7	0.5
7	☐	1.000						

y = 0.0114 * x + 1.5811E-004
R = 0.9999
DL = 0.005904 ppb
BEC = 0.01384 ppb

Weight: <None>
Min Conc: <None>

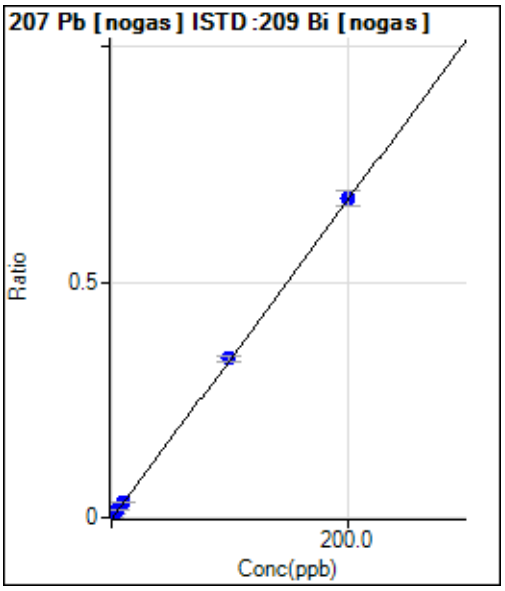


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	656.70	0.0002	P	10.4	
2	☐	2.000	1.956	31724.05	0.0078	P	4.4	-2.2
3	☐	5.000	4.976	79654.98	0.0196	P	4.5	-0.5
4	☐	10.000	9.986	160834.19	0.0391	P	4.5	-0.1
5	☐	100.000	99.835	1603290.60	0.3898	P	4.3	-0.2
6	☐	200.000	200.084	3133464.85	0.7810	P	4.6	0.0
7	☐	1.000						

y = 0.0039 * x + 1.6273E-004
R = 1.0000
DL = 0.01295 ppb
BEC = 0.0417 ppb

Weight: <None>
Min Conc: <None>

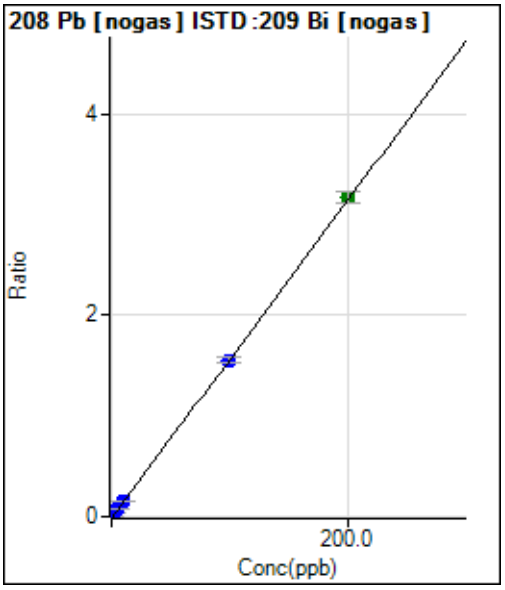
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	590.02	0.0001	P	24.1	
2	☐	2.000	1.949	27457.99	0.0067	P	3.7	-2.5
3	☐	5.000	5.011	69637.73	0.0171	P	4.3	0.2
4	☐	10.000	9.847	137666.90	0.0335	P	4.7	-1.5
5	☐	100.000	99.715	1389972.69	0.3379	P	3.8	-0.3
6	☐	200.000	200.150	2720564.80	0.6781	P	4.7	0.1
7	☐	1.000						

y = 0.0034 * x + 1.4555E-004
R = 1.0000
DL = 0.03112 ppb
BEC = 0.04297 ppb

Weight: <None>
Min Conc: <None>

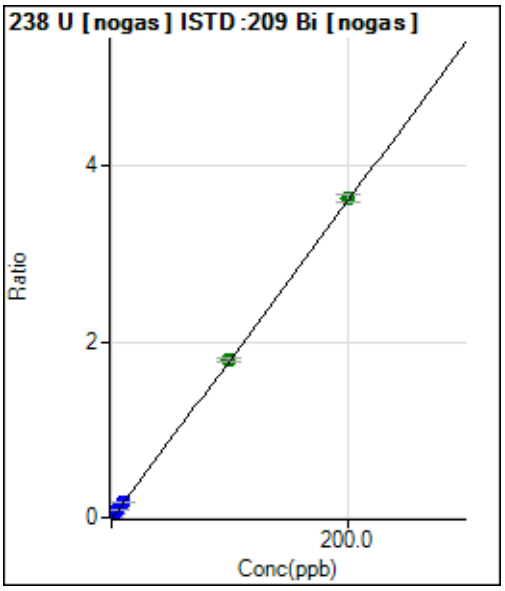


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2486.80	0.0006	P	8.3	
2	☐	2.000	1.945	127587.25	0.0314	P	3.9	-2.7
3	☐	5.000	4.922	319011.36	0.0784	P	4.3	-1.6
4	☐	10.000	9.789	638437.00	0.1554	P	4.3	-2.1
5	☐	100.000	98.338	6396013.55	1.5550	P	4.3	-1.7
6	☐	200.000	200.844	12739850.38	3.1753	A	3.1	0.4
7	☐	1.000						

y = 0.0158 * x + 6.1562E-004
R = 1.0000
DL = 0.00975 ppb
BEC = 0.03895 ppb

Weight: <None>
Min Conc: <None>

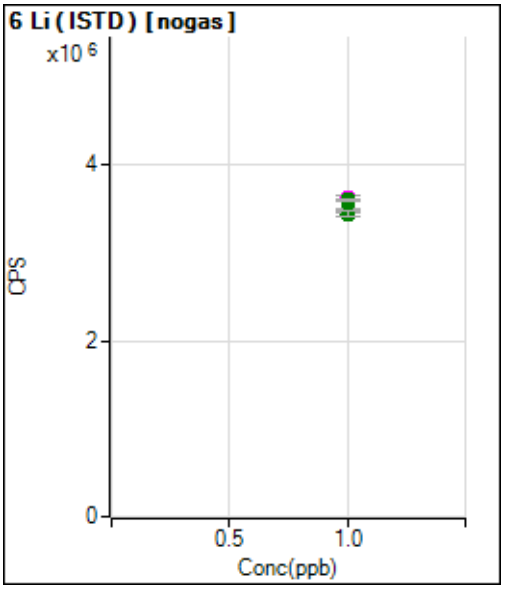
Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0001	P	17.6	
2	☐	2.000	1.869	138101.57	0.0339	P	4.3	-6.5
3	☐	5.000	4.658	343734.43	0.0845	P	5.5	-6.8
4	☐	10.000	9.447	704286.97	0.1714	P	3.9	-5.5
5	☐	100.000	98.812	7370708.85	1.7917	A	2.6	-1.2
6	☐	200.000	200.632	14596439.78	3.6380	A	2.7	0.3
7	☐	1.000						

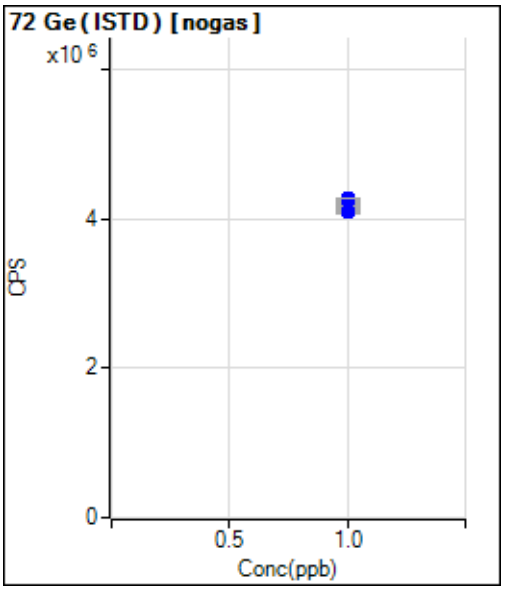
y = 0.0181 * x + 5.4600E-005
R = 1.0000
DL = 0.001591 ppb
BEC = 0.003011 ppb

Weight: <None>
Min Conc: <None>

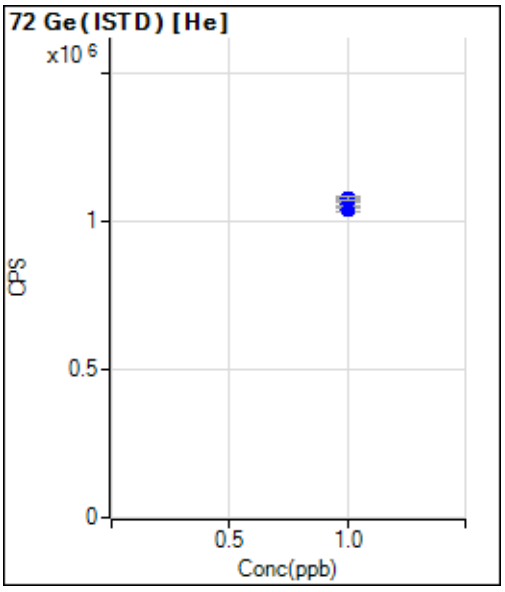


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3628184.07		A	1.8	
2	☐	1.000		3635302.67		M	0.9	
3	☐	1.000		3599110.97		A	0.3	
4	☐	1.000		3604505.57		A	0.8	
5	☐	1.000		3489155.17		A	1.2	
6	☐	1.000		3445485.24		A	1.8	
7	☐	1.000						

Calibration for 020_ICV.d

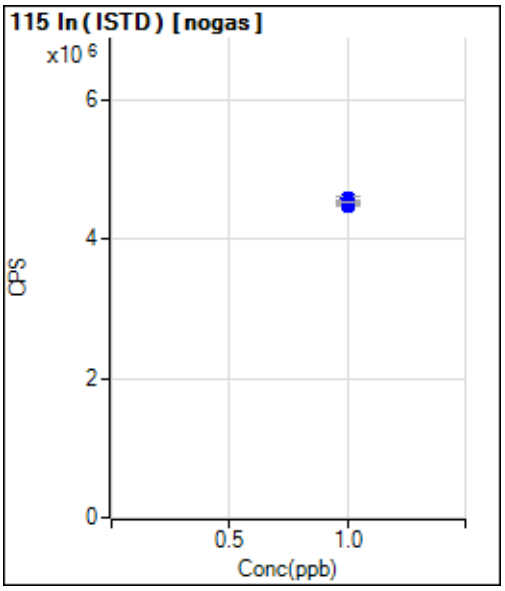


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4099702.23		P	1.1	
2	☐	1.000		4103961.71		P	0.9	
3	☐	1.000		4147243.27		P	0.5	
4	☐	1.000		4188744.42		P	0.6	
5	☐	1.000		4239242.85		P	0.9	
6	☐	1.000		4271930.04		P	0.3	
7	☐	1.000						

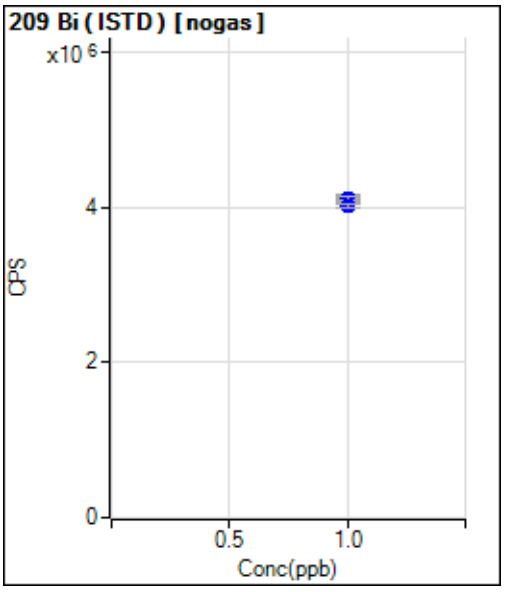


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1040445.76		P	1.6	
2	☐	1.000		1044934.12		P	0.3	
3	☐	1.000		1054698.11		P	1.5	
4	☐	1.000		1071329.12		P	0.3	
5	☐	1.000		1076193.08		P	0.4	
6	☐	1.000		1074722.85		P	1.1	
7	☐	1.000						

Calibration for 020_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4488396.96		P	0.8	
2	☐	1.000		4501230.83		P	0.2	
3	☐	1.000		4528450.19		P	1.1	
4	☐	1.000		4537707.27		P	0.8	
5	☐	1.000		4590981.19		P	0.7	
6	☐	1.000		4537568.49		P	0.2	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4039538.07		P	2.3	
2	☐	1.000		4069678.38		P	1.3	
3	☐	1.000		4069889.42		P	1.8	
4	☐	1.000		4112445.15		P	2.4	
5	☐	1.000		4114477.96		P	1.1	
6	☐	1.000		4013036.50		P	1.1	
7	☐	1.000						

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV5
Data File Name	021LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:44:54-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	4.703	2.551	73650	2.18	5	94.1	70	130	
B	11	1	nogas	46.481	3.686	593552	3.58	25	185.9	70	130	NewName Main CR1 Failed
Al	27	1	nogas	6.208	2.075	319926	1.97	5	124.2	70	130	
P	31	1	nogas	24.599	20.275	77964	0.76	25	98.4	70	130	
Ti	47	1	nogas	5.239	2.153	17560	1.58	5	104.8	70	130	
Ni	60	1	nogas	5.226	0.905	51204	1.26	5	104.5	70	130	
Cu	63	1	nogas	5.277	0.425	133873	0.92	5	105.5	70	130	
Zn	66	1	nogas	5.656	1.308	35743	1.10	5	113.1	70	130	
Se	77	1	nogas	7.323	11.639	6038	4.23	5	146.5	70	130	NewName Main CR1 Failed
Se	82	1	nogas	5.007	18.250	2084	13.62	5	100.1	70	130	
Sr	88	1	nogas	5.160	1.332	247572	1.69	5	103.2	70	130	
Mo	95	1	nogas	5.432	1.996	57309	2.37	5	108.6	70	130	
Ag	107	1	nogas	5.274	2.064	135328	2.30	5	105.5	70	130	
Cd	111	1	nogas	5.157	4.819	27309	5.14	5	103.1	70	130	
Sn	118	1	nogas	6.287	2.322	96887	2.35	5	125.7	70	130	
Sb	121	1	nogas	6.679	1.677	126871	1.53	5	133.6	70	130	NewName Main CR1 Failed
Ba	137	1	nogas	5.268	4.929	36521	4.93	5	105.4	70	130	
Tl	205	1	nogas	5.468	0.881	252724	1.77	5	109.4	70	130	
Pb	208	1	nogas	5.194	3.424	333685	1.12	5	103.9	70	130	
U	238	1	nogas	4.971	2.640	363854	0.42	5	99.4	70	130	
Li	7	1	nogas	4.960	1.012	518536	0.88	5	99.2	70	130	
Na	23	2	He	504.886	1.616	1921906	0.73	500	101.0	70	130	
Mg	24	2	He	508.410	1.471	1029249	0.68	500	101.7	70	130	
Al	27	2	He	6.227	2.708	10214	2.00	5	124.5	70	130	
K	39	2	He	500.843	1.355	1020627	0.54	500	100.2	70	130	
Ca	43	2	He	523.561	4.271	2744	4.19	500	104.7	70	130	
Ca	44	2	He	499.659	1.932	44880	1.59	500	99.9	70	130	
V	51	2	He	5.005	2.040	58072	1.16	5	100.1	70	130	
Cr	52	2	He	5.159	1.864	81777	1.18	5	103.2	70	130	
Mn	55	2	He	5.037	1.628	48174	0.83	5	100.7	70	130	
Fe	56	2	He	524.245	2.060	5947206	1.26	500	104.8	70	130	
Co	59	2	He	5.189	2.845	89807	2.09	5	103.8	70	130	
Ni	60	2	He	5.261	4.342	23232	3.46	5	105.2	70	130	
Cu	63	2	He	5.316	1.146	65543	0.23	5	106.3	70	130	
Zn	66	2	He	5.668	3.611	12512	4.13	5	113.4	70	130	
As	75	2	He	5.250	1.502	6888	0.73	5	105.0	70	130	
Sb	121	2	He	6.300	2.793	44820	2.03	5	126.0	70	130	
Se	78	2	He	5.434	6.317	771	5.07	5	108.7	70	130	
Ti	47	2	He	5.089	1.894	2390	2.51	5	101.8	70	130	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4185141	0.55	4099702	102.08	70	120	
In	115	1	nogas	4529723	0.44	4488397	100.92	70	120	
Li	6	1	nogas	3623821	0.93	3628184	99.88	70	120	
Bi	209	1	nogas	4035922	2.31	4039538	99.91	70	120	
Ge	72	2	He	1059353	0.81	1040446	101.82	70	120	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV2
Data File Name	022LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:46:55-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	1.852	3.579	29052	2.96	2	92.6	70	120	
B	11	1	nogas	24.640	0.697	372632	0.58	10	246.4	70	120	NewName Main CR1 Failed
Al	27	1	nogas	3.661	13.087	222884	8.65	2	183.0	70	120	NewName Main CR1 Failed
P	31	1	nogas	4.762	91.901	73610	0.56	10	47.6	70	120	NewName Main CR1 Failed
Ti	47	1	nogas	1.949	4.358	6832	4.70	2	97.5	70	120	
Ni	60	1	nogas	2.082	3.156	20992	1.92	2	104.1	70	120	
Cu	63	1	nogas	2.078	5.459	62199	4.04	2	103.9	70	120	
Zn	66	1	nogas	2.281	3.727	15421	2.34	2	114.1	70	120	
Se	77	1	nogas	4.056	17.348	5161	2.80	2	202.8	70	120	NewName Main CR1 Failed
Se	82	1	nogas	2.176	5.838	1167	4.40	2	108.8	70	120	
Sr	88	1	nogas	2.010	1.856	97790	2.15	2	100.5	70	120	
Mo	95	1	nogas	2.064	3.902	22758	3.66	2	103.2	70	120	
Ag	107	1	nogas	2.055	2.404	53318	2.69	2	102.8	70	120	
Cd	111	1	nogas	1.967	5.513	10484	5.81	2	98.4	70	120	
Sn	118	1	nogas	2.392	4.310	40134	4.09	2	119.6	70	120	
Sb	121	1	nogas	2.543	1.238	49124	1.84	2	127.2	70	120	NewName Main CR1 Failed
Ba	137	1	nogas	2.034	3.027	14614	2.90	2	101.7	70	120	
Tl	205	1	nogas	2.060	3.341	95714	1.85	2	103.0	70	120	
Pb	208	1	nogas	2.013	3.733	131057	2.20	2	100.7	70	120	
Pb	206	1	nogas	2.013	3.426	32392	1.83	2	100.6	70	120	
Pb	207	1	nogas	2.045	2.028	28574	1.54	2	102.2	70	120	
U	238	1	nogas	1.906	2.295	139891	1.03	2	95.3	70	120	
Li	7	1	nogas	1.882	4.412	346605	1.03	2	94.1	70	120	
Ba	135	1	nogas	1.953	10.671	8112	10.25	2	97.7	70	120	
Tl	203	1	nogas	2.072	3.003	39451	1.51	2	103.6	70	120	
Na	23	2	He	202.362	0.956	822108	0.18	200	101.2	70	120	
Mg	24	2	He	202.400	0.703	410012	1.43	200	101.2	70	120	
Al	27	2	He	3.044	17.976	6442	9.70	2	152.2	70	120	NewName Main CR1 Failed
K	39	2	He	197.713	0.303	475512	0.84	200	98.9	70	120	
Ca	43	2	He	187.201	13.911	1010	13.97	200	93.6	70	120	
Ca	44	2	He	203.791	1.853	19693	0.94	200	101.9	70	120	
V	51	2	He	1.967	1.018	24099	0.94	2	98.3	70	120	
Cr	52	2	He	2.020	1.482	41588	1.28	2	101.0	70	120	
Mn	55	2	He	2.015	5.123	19636	5.50	2	100.7	70	120	
Fe	56	2	He	203.148	1.429	2315283	1.29	200	101.6	70	120	
Co	59	2	He	2.070	0.755	35790	0.99	2	103.5	70	120	
Ni	60	2	He	2.052	5.372	9256	5.68	2	102.6	70	120	
Cu	63	2	He	2.059	1.441	29209	0.54	2	102.9	70	120	
Zn	66	2	He	2.240	2.975	5348	2.62	2	112.0	70	120	
As	75	2	He	2.006	3.146	2765	2.68	2	100.3	70	120	
Se	77	2	He	2.857	35.648	167	24.25	2	142.8	70	120	NewName Main CR1 Failed
Sb	121	2	He	2.419	4.588	17588	4.59	2	121.0	70	120	NewName Main CR1 Failed
Se	78	2	He	2.225	6.286	347	4.66	2	111.2	70	120	
Ti	47	2	He	2.081	15.296	983	14.82	2	104.1	70	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4167862	1.07	4099702	101.66	70	120	
In	115	1	nogas	4555234	0.32	4488397	101.49	70	120	
Li	6	1	nogas	3623873	0.65	3628184	99.88	70	120	
Bi	209	1	nogas	4041456	1.56	4039538	100.05	70	120	
Ge	72	2	He	1057223	0.72	1040446	101.61	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	023_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:48:57-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	0.006	39.1	165	21.9	1	
B	11	1	nogas	10.926	5.4	236934	2.2	10	ICB Main CR1 Failed
Al	27	1	nogas	1.326	6.0	133098	3.0	5	
P	31	1	nogas	-0.009	-51017.0	71580	1.3	10	
Ti	47	1	nogas	-0.008	-463.2	483	24.7	2.5	
Ni	60	1	nogas	0.102	5.0	2070	2.6	2.5	
Cu	63	1	nogas	-0.057	-62.3	14531	5.2	1	
Zn	66	1	nogas	0.212	3.8	3014	2.2	2.5	
Se	77	1	nogas	2.292	35.9	4634	4.6	2.5	
Se	82	1	nogas	-0.402	-24.7	333	8.7	1	
Sr	88	1	nogas	0.030	10.4	2694	5.8	2.5	
Mo	95	1	nogas	0.083	8.9	2207	3.4	2.5	
Ag	107	1	nogas	0.001	40.8	493	3.1	2.5	
Cd	111	1	nogas	0.009	56.4	60	44.1	1	
Sn	118	1	nogas	0.341	6.5	9787	3.6	5	
Sb	121	1	nogas	0.272	7.3	6622	6.3	2	
Ba	137	1	nogas	0.060	38.1	1097	14.2	2.5	
Tl	205	1	nogas	0.039	21.9	2434	18.1	1	
Pb	208	1	nogas	0.024	15.6	4060	6.4	2.5	
U	238	1	nogas	0.014	13.3	1263	12.9	2.5	
Na	23	2	He	1.032	40.9	91228	1.2	100	
Mg	24	2	He	1.376	4.0	4434	2.6	100	
Al	27	2	He	1.450	2.9	4491	1.6	5	
K	39	2	He	1.459	55.7	121894	0.9	100	
Ca	43	2	He	17.823	34.2	137	22.4	100	
Ca	44	2	He	8.124	32.5	3047	6.9	100	
V	51	2	He	0.001	756.5	2152	2.6	2.5	
Cr	52	2	He	0.220	8.1	18331	1.1	2.5	
Mn	55	2	He	0.059	27.2	1213	12.9	2.5	
Fe	56	2	He	2.547	2.1	52592	0.7	100	
Co	59	2	He	0.011	14.4	230	11.5	2.5	
Ni	60	2	He	0.133	23.2	910	15.1	2.5	
Cu	63	2	He	-0.061	-44.7	5554	5.5	1	
Zn	66	2	He	0.228	11.9	1140	4.4	2.5	
As	75	2	He	0.059	54.2	293	14.2	2.5	
Sb	121	2	He	0.282	5.7	2594	4.3	2	
Se	78	2	He	0.196	10.2	79	2.9	1	
Ti	47	2	He	0.102	22.0	60	16.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4106812	0.81	4099702	100.17	70	120	
In	115	1	nogas	4474791	0.41	4488397	99.70	70	120	
Li	6	1	nogas	3670442	1.35	3628184	101.16	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	nogas	4061037	2.00	4039538	100.53	70	120	
Ge	72	2	He	1040326	0.60	1040446	99.99	70	120	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV5
Data File Name	025LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T11:56:06-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	4.592	0.424	72397	0.53	5	91.8	70	130	
B	11	1	nogas	26.015	0.669	389089	1.40	25	104.1	70	130	
Al	27	1	nogas	6.839	1.024	340596	1.55	5	136.8	70	130	NewName Main CR1 Failed
P	31	1	nogas	27.468	30.794	77834	2.41	25	109.9	70	130	
Ti	47	1	nogas	4.841	3.613	16116	2.28	5	96.8	70	130	
Ni	60	1	nogas	5.152	2.116	50041	3.26	5	103.0	70	130	
Cu	63	1	nogas	5.039	2.832	127381	2.95	5	100.8	70	130	
Zn	66	1	nogas	5.617	1.303	35182	2.13	5	112.3	70	130	
Se	77	1	nogas	9.093	14.070	6442	5.80	5	181.9	70	130	NewName Main CR1 Failed
Se	82	1	nogas	5.160	7.938	2114	5.32	5	103.2	70	130	
Sr	88	1	nogas	4.883	1.675	233913	1.79	5	97.7	70	130	
Mo	95	1	nogas	4.950	1.580	52253	1.72	5	99.0	70	130	
Ag	107	1	nogas	5.101	3.334	130666	3.39	5	102.0	70	130	
Cd	111	1	nogas	5.090	2.413	26902	2.63	5	101.8	70	130	
Sn	118	1	nogas	4.935	3.194	76962	3.22	5	98.7	70	130	
Sb	121	1	nogas	5.040	2.780	95264	3.53	5	100.8	70	130	
Ba	137	1	nogas	5.031	4.550	34847	4.64	5	100.6	70	130	
Tl	205	1	nogas	4.842	4.825	224592	4.13	5	96.8	70	130	
Pb	208	1	nogas	4.903	4.638	316242	3.98	5	98.1	70	130	
U	238	1	nogas	4.684	4.902	344019	3.84	5	93.7	70	130	
Li	7	1	nogas	4.652	2.794	504633	0.49	5	93.0	70	130	
Na	23	2	He	509.280	0.291	1940114	0.43	500	101.9	70	130	
Mg	24	2	He	507.846	0.672	1029342	1.30	500	101.6	70	130	
Al	27	2	He	6.635	1.507	10707	0.44	5	132.7	70	130	NewName Main CR1 Failed
K	39	2	He	495.955	1.180	1013011	1.12	500	99.2	70	130	
Ca	43	2	He	487.237	7.599	2560	8.13	500	97.4	70	130	
Ca	44	2	He	501.835	2.403	45114	2.03	500	100.4	70	130	
V	51	2	He	5.008	0.465	58177	1.03	5	100.2	70	130	
Cr	52	2	He	5.128	1.498	81473	0.58	5	102.6	70	130	
Mn	55	2	He	5.068	1.767	48519	1.08	5	101.4	70	130	
Fe	56	2	He	526.143	0.627	5975817	0.86	500	105.2	70	130	
Co	59	2	He	5.102	2.077	88395	1.72	5	102.0	70	130	
Ni	60	2	He	5.105	0.382	22584	0.76	5	102.1	70	130	
Cu	63	2	He	5.108	2.127	63307	2.46	5	102.2	70	130	
Zn	66	2	He	5.558	2.491	12295	2.94	5	111.2	70	130	
As	75	2	He	5.121	2.607	6734	3.05	5	102.4	70	130	
Sb	121	2	He	5.062	1.887	36183	1.37	5	101.2	70	130	
Se	78	2	He	5.310	4.985	755	4.56	5	106.2	70	130	
Ti	47	2	He	5.184	2.140	2437	1.55	5	103.7	70	130	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4146890	1.28	4099702	101.15	70	120	
In	115	1	nogas	4521439	0.24	4488397	100.74	70	120	
Li	6	1	nogas	3647722	0.96	3628184	100.54	70	120	
Bi	209	1	nogas	4049656	1.26	4039538	100.25	70	120	
Ge	72	2	He	1060513	0.67	1040446	101.93	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	027ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T12:01:33-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	0.003	0.1	115	0.0	0	ICSA Main CR1 Failed
B	11	1	nogas	2.909	8.9	146821	1.7	0	ICSA Main CR1 Failed
Al	27	1	nogas	104338.655	0.4	3643952266	1.4	0	
P	31	1	nogas	921742.608	2.1	174009497	0.5	0	
Ti	47	1	nogas	2269.310	0.8	6830613	1.8	0	
Ni	60	1	nogas	1.512	4.4	14447	3.5	0	ICSA Main CR1 Failed
Cu	63	1	nogas	0.477	1.8	24711	1.4	0	ICSA Main CR1 Failed
Zn	66	1	nogas	4.017	2.6	23973	3.9	0	ICSA Main CR1 Failed
Se	77	1	nogas	24.526	9.3	9743	5.7	0	
Se	82	1	nogas	0.511	13.1	587	2.0	0	ICSA Main CR1 Failed
Sr	88	1	nogas	4.897	1.5	210270	2.9	0	ICSA Main CR1 Failed
Mo	95	1	nogas	2133.973	0.6	19656053	1.9	0	
Ag	107	1	nogas	0.184	3.8	4618	4.4	0	ICSA Main CR1 Failed
Cd	111	1	nogas	1.792	2.8	8499	3.8	0	ICSA Main CR1 Failed
Sn	118	1	nogas	0.410	6.5	9767	4.2	0	ICSA Main CR1 Failed
Sb	121	1	nogas	0.372	6.2	7972	6.7	0	ICSA Main CR1 Failed
Ba	137	1	nogas	0.823	4.2	5635	5.1	0	ICSA Main CR1 Failed
Tl	205	1	nogas	0.016	23.3	1137	11.7	0	ICSA Main CR1 Failed
Pb	208	1	nogas	0.207	5.8	13086	3.8	0	ICSA Main CR1 Failed
Na	23	2	He	108734.938	1.2	374894421	0.5	0	
Mg	24	2	He	107388.129	1.4	206088164	0.6	0	
Al	27	2	He	104736.220	1.0	117440065	0.7	0	
K	39	2	He	110276.536	1.2	188102044	0.8	0	
Ca	43	2	He	101739.076	1.1	497552	1.0	0	
Ca	44	2	He	107297.156	1.4	8661418	0.2	0	
V	51	2	He	0.150	5.6	3662	3.5	0	ICSA Main CR1 Failed
Cr	52	2	He	1.946	0.7	38667	1.6	0	ICSA Main CR1 Failed
Mn	55	2	He	1.050	8.9	10037	7.8	0	ICSA Main CR1 Failed
Fe	56	2	He	107415.422	1.1	1152361663	0.6	0	
Co	59	2	He	0.443	7.2	7305	6.4	0	ICSA Main CR1 Failed
Ni	60	2	He	1.045	1.0	4644	1.2	0	ICSA Main CR1 Failed
Cu	63	2	He	0.152	34.6	7622	6.0	0	ICSA Main CR1 Failed
Zn	66	2	He	3.213	3.4	7018	4.2	0	ICSA Main CR1 Failed
As	75	2	He	0.384	21.5	674	14.3	0	ICSA Main CR1 Failed
Sb	121	2	He	0.361	11.8	3034	8.9	0	ICSA Main CR1 Failed
Se	78	2	He	0.206	21.5	78	6.8	0	ICSA Main CR1 Failed
Ti	47	2	He	2197.875	0.6	974696	1.2	0	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	3871713	1.64	4099702	94.44	70	120	
In	115	1	nogas	4052317	1.49	4488397	90.28	70	120	
Li	6	1	nogas	3480176	0.02	3628184	95.92	70	120	
Bi	209	1	nogas	3372734	1.14	4039538	83.49	70	120	
Ge	72	2	He	1005948	1.29	1040446	96.68	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	028ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T12:03:36-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	103.788	1.028	1485604	1.86	100	103.8	80	120	
B	11	1	nogas	525.484	1.471	4973243	1.15	100	525.5	80	120	
Al	27	1	nogas	101781.684	0.770	3800563463	1.47	100	101781.7	80	120	ICSB Main CR1 Failed
Ti	47	1	nogas	2322.435	2.147	7472576	0.80	100	2322.4	80	120	ICSB Main CR1 Failed
Ni	60	1	nogas	101.063	0.602	958931	2.57	100	101.1	80	120	
Cu	63	1	nogas	98.090	0.829	2181952	2.55	100	98.1	80	120	
Zn	66	1	nogas	104.225	0.814	620528	2.62	100	104.2	80	120	
Se	77	1	nogas	129.298	3.061	37515	4.69	100	129.3	80	120	
Se	82	1	nogas	106.655	3.641	34487	3.78	100	106.7	80	120	
Sr	88	1	nogas	112.607	3.228	5079285	4.06	100	112.6	80	120	
Mo	95	1	nogas	2203.051	0.802	21430061	1.49	100	2203.1	80	120	ICSB Main CR1 Failed
Ag	107	1	nogas	101.781	1.318	2459685	2.15	100	101.8	80	120	
Cd	111	1	nogas	103.895	2.205	519585	3.04	100	103.9	80	120	
Sn	118	1	nogas	108.126	1.814	1498954	2.58	100	108.1	80	120	
Sb	121	1	nogas	104.773	0.365	1944997	2.46	100	104.8	80	120	
Ba	137	1	nogas	107.142	1.448	689029	2.22	100	107.1	80	120	
Tl	205	1	nogas	105.260	4.600	4220966	4.33	100	105.3	80	120	
Pb	208	1	nogas	105.048	4.158	5830022	3.87	100	105.0	80	120	
U	238	1	nogas	110.127	1.624	7009089	1.31	100	110.1	80	120	
Na	23	2	He	116101.142	1.665	417601567	1.28	100	116101.1	80	120	ICSB Main CR1 Failed
Mg	24	2	He	114940.167	1.493	230128637	1.10	100	114940.2	80	120	ICSB Main CR1 Failed
Al	27	2	He	101513.117	0.848	118752182	0.91	100	101513.1	80	120	ICSB Main CR1 Failed
K	39	2	He	117965.448	0.910	209916697	0.73	100	117965.4	80	120	ICSB Main CR1 Failed
Ca	43	2	He	110426.878	0.555	563407	0.87	100	110426.9	80	120	
Ca	44	2	He	115156.678	0.809	9698709	1.26	100	115156.7	80	120	ICSB Main CR1 Failed
V	51	2	He	103.331	0.801	1145222	0.97	100	103.3	80	120	
Cr	52	2	He	102.771	1.503	1316664	1.43	100	102.8	80	120	
Mn	55	2	He	102.921	1.290	962086	1.25	100	102.9	80	120	
Fe	56	2	He	114364.302	0.944	1280002194	0.79	100	114364.3	80	120	ICSB Main CR1 Failed
Co	59	2	He	100.797	0.614	1727577	0.29	100	100.8	80	120	
Ni	60	2	He	99.361	1.342	428615	1.34	100	99.4	80	120	
Cu	63	2	He	95.322	0.513	1058039	0.96	100	95.3	80	120	
Zn	66	2	He	102.242	1.507	211973	1.36	100	102.2	80	120	
As	75	2	He	107.770	0.489	135776	0.54	100	107.8	80	120	
Sb	121	2	He	102.811	1.389	714547	1.04	100	102.8	80	120	
Se	78	2	He	111.347	0.678	14587	0.95	100	111.3	80	120	
Ti	47	2	He	2288.955	0.638	1058966	0.79	100	2289.0	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4139843	2.11	4099702	100.98	70	120	
In	115	1	nogas	4279557	0.84	4488397	95.35	70	120	
Li	6	1	nogas	3314791	0.91	3628184	91.36	70	120	
Bi	209	1	nogas	3510088	0.33	4039538	86.89	70	120	
Ge	72	2	He	1049412	0.45	1040446	100.86	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	055_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:07:22-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	97.848	2.274	1577860	1.36	100	97.8	90	110	
B	11	1	nogas	497.869	1.877	5315713	0.95	500	99.6	90	110	
Al	27	1	nogas	105.161	1.066	4341769	1.81	100	105.2	90	110	
P	31	1	nogas	600.372	1.310	209238	1.70	500	120.1	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	100.196	2.891	349556	3.40	100	100.2	90	110	
Ni	60	1	nogas	98.445	1.883	1011050	3.06	100	98.4	90	110	
Cu	63	1	nogas	98.349	2.080	2367979	3.41	100	98.3	90	110	
Zn	66	1	nogas	99.551	2.295	641681	3.86	100	99.6	90	110	
Se	77	1	nogas	98.082	3.325	31865	4.45	100	98.1	90	110	
Se	82	1	nogas	100.577	0.595	35233	2.06	100	100.6	90	110	
Sr	88	1	nogas	103.733	2.404	5102148	0.99	100	103.7	90	110	
Mo	95	1	nogas	98.299	1.908	1044513	2.92	100	98.3	90	110	
Ag	107	1	nogas	100.268	1.602	2643378	2.77	100	100.3	90	110	
Cd	111	1	nogas	100.021	1.985	545675	3.23	100	100.0	90	110	
Sn	118	1	nogas	98.442	1.782	1489213	2.97	100	98.4	90	110	
Sb	121	1	nogas	96.505	1.696	1939339	3.25	100	96.5	90	110	
Ba	137	1	nogas	98.035	2.136	687882	3.42	100	98.0	90	110	
Tl	205	1	nogas	94.941	4.563	4416546	3.38	100	94.9	90	110	
Pb	208	1	nogas	94.307	4.897	6071707	3.75	100	94.3	90	110	
U	238	1	nogas	96.551	2.241	7129628	1.23	100	96.6	90	110	
Li	7	1	nogas	97.722	3.629	5874128	2.69	100	97.7	90	110	
Ba	135	1	nogas	98.485	2.233	395052	3.26	100	98.5	90	110	
Tl	203	1	nogas	96.122	5.267	1830509	4.08	100	96.1	90	110	
Na	23	2	He	10616.285	2.107	40462824	1.52	10000	106.2	90	110	
Mg	24	2	He	10354.824	1.697	21924156	1.01	10000	103.5	90	110	
Al	27	2	He	102.621	1.217	129935	0.69	100	102.6	90	110	
K	39	2	He	10396.512	1.633	19678471	1.04	10000	104.0	90	110	
Ca	43	2	He	10077.605	0.695	54414	0.20	10000	100.8	90	110	
Ca	44	2	He	9959.506	1.516	889266	1.33	10000	99.6	90	110	
V	51	2	He	100.109	1.226	1173291	0.89	100	100.1	90	110	
Cr	52	2	He	100.128	1.397	1356888	0.87	100	100.1	90	110	
Mn	55	2	He	99.578	1.700	984298	1.17	100	99.6	90	110	
Fe	56	2	He	10111.212	1.359	119689988	0.86	10000	101.1	90	110	
Co	59	2	He	99.924	0.916	1810997	0.75	100	99.9	90	110	
Ni	60	2	He	98.343	1.182	448620	1.64	100	98.3	90	110	
Cu	63	2	He	98.845	0.887	1159909	0.93	100	98.8	90	110	
Zn	66	2	He	98.516	0.361	216013	0.68	100	98.5	90	110	
As	75	2	He	97.860	1.723	130387	0.97	100	97.9	90	110	
Sb	121	2	He	95.141	0.873	699284	0.05	100	95.1	90	110	
Se	78	2	He	96.949	1.986	13436	1.13	100	96.9	90	110	
Ti	47	2	He	98.582	1.364	48240	1.09	100	98.6	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4480540	1.60	4099702	109.29	70	120	
In	115	1	nogas	4668410	1.45	4488397	104.01	70	120	
Li	6	1	nogas	3735086	0.92	3628184	102.95	70	120	
Bi	209	1	nogas	4073015	1.30	4039538	100.83	70	120	
Ge	72	2	He	1109724	0.88	1040446	106.66	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	056_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:09:22-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	0.073	18.0	1300	16.6	1	
B	11	1	nogas	6.208	22.4	199922	7.2	10	
Al	27	1	nogas	0.678	11.1	117815	1.3	5	
P	31	1	nogas	107.161	4.7	100511	1.7	10	CCB Main CR1 Failed
Ti	47	1	nogas	0.275	28.7	1493	17.0	2.5	
Ni	60	1	nogas	0.143	23.0	2647	11.4	2.5	
Cu	63	1	nogas	-0.113	-23.3	14354	3.1	2	
Zn	66	1	nogas	0.484	20.9	4991	13.6	2.5	
Se	77	1	nogas	1.476	26.2	4781	3.4	2.5	
Se	82	1	nogas	-0.004	-5113.3	497	15.2	2	
Sr	88	1	nogas	0.101	10.2	6318	8.5	2.5	
Mo	95	1	nogas	0.517	18.4	6912	15.2	2.5	
Ag	107	1	nogas	0.084	10.9	2704	9.7	2.5	
Cd	111	1	nogas	0.082	17.1	460	17.3	1	
Sn	118	1	nogas	1.321	9.9	24995	8.4	5	
Sb	121	1	nogas	1.300	14.5	27547	12.5	2	
Ba	137	1	nogas	0.075	34.1	1250	14.8	2.5	
Tl	205	1	nogas	0.521	41.2	24539	42.4	1	
Pb	208	1	nogas	0.115	20.5	9748	17.0	2.5	
U	238	1	nogas	0.156	37.5	11549	39.1	2.5	
Na	23	2	He	9.793	7.4	131446	2.2	100	
Mg	24	2	He	6.127	6.5	14881	5.7	100	
Al	27	2	He	0.596	30.3	3757	6.0	5	
K	39	2	He	10.999	7.5	148886	1.1	100	
Ca	43	2	He	9.829	70.9	103	36.6	100	
Ca	44	2	He	11.018	26.8	3530	7.7	100	
V	51	2	He	0.112	4.9	3626	2.0	2.5	
Cr	52	2	He	0.201	9.6	19416	1.2	2.5	
Mn	55	2	He	0.111	10.7	1817	6.5	2.5	
Fe	56	2	He	10.012	5.3	145350	4.5	100	
Co	59	2	He	0.062	17.3	1170	16.6	2.5	
Ni	60	2	He	0.091	4.7	783	2.7	2.5	
Cu	63	2	He	-0.093	-11.7	5591	2.2	2	
Zn	66	2	He	0.442	16.3	1693	9.2	2.5	
As	75	2	He	0.133	10.0	413	4.3	2.5	
Sb	121	2	He	0.927	5.4	7549	4.9	2	
Se	78	2	He	0.370	26.3	109	12.2	2	
Ti	47	2	He	0.249	4.7	137	4.2	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4436650	1.32	4099702	108.22	70	120	
In	115	1	nogas	4669453	0.69	4488397	104.03	70	120	
Li	6	1	nogas	3890640	0.65	3628184	107.23	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	3993897	2.18	4039538	98.87	70	120	
Ge	72	2	He	1116585	0.18	1040446	107.32	70	120	

Sample Report

Sample Table

Sample Name	MBLK-197025
Data File Name	057SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:11:59-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.015	0.015	8.83	327	0.00	2000	
B	11	1	nogas	1.005	1.005	88.84	143032	0.00	2000	
Al	27	1	nogas	0.147	0.147	36.48	96535	0.00	2000	
Ti	47	1	nogas	0.041	0.041	69.17	690	0.01	2000	
Ni	60	1	nogas	0.069	0.069	0.98	1903	0.00	2000	
Cu	63	1	nogas	-0.264	-0.264	-7.11	10774	0.00	2000	
Zn	66	1	nogas	0.407	0.407	12.19	4491	0.01	2000	
Se	77	1	nogas	2.137	2.137	62.26	4961	0.04	2000	
Se	82	1	nogas	-0.481	-0.481	-30.54	333	-0.14	2000	
Sr	88	1	nogas	0.019	0.019	6.57	2294	0.00	2000	
Mo	95	1	nogas	0.082	0.082	30.43	2300	0.00	2000	
Ag	107	1	nogas	0.016	0.016	33.90	917	0.00	2000	
Cd	111	1	nogas	0.013	0.013	33.33	87	0.02	2000	
Sn	118	1	nogas	0.368	0.368	8.82	10677	0.00	2000	
Sb	121	1	nogas	0.284	0.284	4.92	7369	0.00	2000	
Ba	137	1	nogas	-0.037	-0.037	-9.46	467	-0.01	2000	
Tl	205	1	nogas	0.032	0.032	10.91	2084	0.00	2000	
Pb	208	1	nogas	0.008	0.008	35.98	2997	0.00	2000	
U	238	1	nogas	0.021	0.021	8.47	1740	0.00	2000	
Na	23	2	He	6.500	6.500	10.27	119207	0.01	200000	
Mg	24	2	He	1.591	1.591	3.95	5234	0.03	200000	
Al	27	2	He	0.037	0.037	236.42	3070	0.00	2000	
K	39	2	He	6.670	6.670	6.73	141140	0.00	200000	
Ca	43	2	He	4.268	4.268	174.41	73	5.82	200000	
Ca	44	2	He	1.989	1.989	29.47	2730	0.07	200000	
V	51	2	He	0.077	0.077	5.06	3219	0.00	2000	
Cr	52	2	He	0.103	0.103	35.14	18148	0.00	2000	
Mn	55	2	He	0.105	0.105	30.40	1767	0.01	2000	
Fe	56	2	He	2.149	2.149	7.21	51880	0.00	200000	
Co	59	2	He	0.017	0.017	19.58	347	0.00	2000	
Ni	60	2	He	0.037	0.037	27.16	537	0.01	2000	
Cu	63	2	He	-0.219	-0.219	-11.97	4121	-0.01	2000	
Zn	66	2	He	0.392	0.392	23.09	1590	0.02	2000	
As	75	2	He	0.028	0.028	84.26	273	0.01	2000	
Sb	121	2	He	0.263	0.263	10.36	2650	0.01	2000	
Se	78	2	He	0.085	0.085	107.21	70	0.12	2000	
Ti	47	2	He	0.086	0.086	83.83	57	0.15	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4434599	0.64	4099702	108.17	70	120	
In	115	1	nogas	4689916	1.64	4488397	104.49	70	120	

Sample Report

Li	6	1	nogas	3882000	2.31	3628184	107.00	70	120	
Bi	209	1	nogas	4025589	3.42	4039538	99.65	70	120	
Ge	72	2	He	1120179	1.17	1040446	107.66	70	120	

Sample Report

Sample Table

Sample Name	LCS-197025
Data File Name	058SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:14:01-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	47.547	47.547	0.40	777903	0.01	2000	
B	11	1	nogas	465.535	465.535	0.95	5050730	0.01	2000	
Al	27	1	nogas	100.722	100.722	0.85	4359299	0.00	2000	
Ti	47	1	nogas	145.992	145.992	1.22	533147	0.03	2000	
Ni	60	1	nogas	46.318	46.318	0.48	498804	0.01	2000	
Cu	63	1	nogas	46.935	46.935	1.80	1192770	0.00	2000	
Zn	66	1	nogas	50.483	50.483	1.78	341715	0.01	2000	
Se	77	1	nogas	47.474	47.474	4.39	18535	0.26	2000	
Se	82	1	nogas	50.999	50.999	2.13	18969	0.27	2000	
Sr	88	1	nogas	98.032	98.032	2.11	5004907	0.00	2000	
Mo	95	1	nogas	46.114	46.114	1.72	509210	0.01	2000	
Ag	107	1	nogas	48.687	48.687	1.69	1332072	0.00	2000	
Cd	111	1	nogas	49.201	49.201	1.57	278514	0.02	2000	
Sn	118	1	nogas	95.009	95.009	2.64	1491511	0.01	2000	
Sb	121	1	nogas	47.408	47.408	2.29	998578	0.00	2000	
Ba	137	1	nogas	47.474	47.474	2.86	345995	0.01	2000	
Tl	205	1	nogas	43.920	43.920	5.45	2106499	0.00	2000	
Pb	208	1	nogas	45.667	45.667	4.31	3032672	0.00	2000	
U	238	1	nogas	94.795	94.795	3.14	7216387	0.00	2000	
Na	23	2	He	5072.185	5072.185	1.15	20302766	0.02	200000	
Mg	24	2	He	5029.527	5029.527	0.63	11157061	0.05	200000	
Al	27	2	He	99.315	99.315	1.68	131821	0.08	2000	
K	39	2	He	5026.112	5026.112	1.61	10034261	0.05	200000	
Ca	43	2	He	4941.666	4941.666	0.44	27980	17.66	200000	
Ca	44	2	He	4857.118	4857.118	0.44	455663	1.07	200000	
V	51	2	He	46.400	46.400	1.30	570932	0.01	2000	
Cr	52	2	He	46.918	46.918	1.42	675267	0.01	2000	
Mn	55	2	He	46.617	46.617	1.42	483089	0.01	2000	
Fe	56	2	He	4884.307	4884.307	1.25	60583266	0.01	200000	
Co	59	2	He	47.115	47.115	0.76	894557	0.01	2000	
Ni	60	2	He	47.362	47.362	1.65	226519	0.02	2000	
Cu	63	2	He	47.366	47.366	0.56	585874	0.01	2000	
Zn	66	2	He	50.332	50.332	1.05	115983	0.04	2000	
As	75	2	He	48.573	48.573	0.86	67919	0.07	2000	
Sb	121	2	He	45.838	45.838	1.17	353295	0.01	2000	
Se	78	2	He	50.473	50.473	0.89	7358	0.69	2000	
Ti	47	2	He	141.318	141.318	1.56	72430	0.20	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4692327	0.61	4099702	114.46	70	120	
In	115	1	nogas	4844139	0.76	4488397	107.93	70	120	
Li	6	1	nogas	3788915	1.59	3628184	104.43	70	120	
Bi	209	1	nogas	4199713	1.69	4039538	103.97	70	120	

Sample Report

Ge	72	2	He	1162486	1.12	1040446	111.73	70	120	

Sample Report

Sample Table

Sample Name	HS23061372-02SD
Data File Name	060SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:18:01-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.007	0.034	14.93	195	0.00	2000	
B	11	1	nogas	7.832	39.160	11.33	215472	0.00	2000	
Al	27	1	nogas	3.974	19.872	0.96	265973	0.00	2000	
Ti	47	1	nogas	0.748	3.738	4.32	3330	0.02	2000	
Ni	60	1	nogas	14.908	74.541	2.21	162528	0.01	2000	
Cu	63	1	nogas	0.550	2.750	8.22	32001	0.00	2000	
Zn	66	1	nogas	2.095	10.477	2.49	16226	0.01	2000	
Se	77	1	nogas	12.531	62.656	8.26	8353	0.15	2000	
Se	82	1	nogas	-0.193	-0.963	-78.07	460	-0.04	2000	
Sr	88	1	nogas	118.547	592.735	2.49	6114804	0.00	2000	
Mo	95	1	nogas	4.306	21.530	2.99	49397	0.01	2000	
Ag	107	1	nogas	0.002	0.010	50.00	557	0.00	2000	
Cd	111	1	nogas	0.049	0.246	19.50	297	0.02	2000	
Sn	118	1	nogas	0.902	4.512	5.63	19594	0.00	2000	
Sb	121	1	nogas	0.231	1.156	10.32	6742	0.00	2000	
Ba	137	1	nogas	82.157	410.786	3.71	604369	0.01	2000	
Tl	205	1	nogas	0.065	0.323	19.87	3604	0.00	2000	
Pb	208	1	nogas	0.009	0.043	23.42	3010	0.00	2000	
U	238	1	nogas	0.056	0.278	14.05	4277	0.00	2000	
Na	23	2	He	17502.844	87514.219	0.50	70743711	0.02	200000	
Mg	24	2	He	4097.289	20486.447	0.86	9209056	0.04	200000	
Al	27	2	He	3.787	18.934	1.95	8152	0.05	2000	
K	39	2	He	594.227	2971.134	0.77	1321198	0.04	200000	
Ca	43	2	He	5364.298	26821.492	4.84	30762	17.44	200000	
Ca	44	2	He	5150.843	25754.213	0.30	489416	1.05	200000	
V	51	2	He	0.407	2.036	5.63	7484	0.01	2000	
Cr	52	2	He	20.479	102.396	0.53	308584	0.01	2000	
Mn	55	2	He	13.189	65.943	0.93	139013	0.01	2000	
Fe	56	2	He	85.208	426.038	1.04	1097894	0.01	200000	
Co	59	2	He	0.293	1.463	3.17	5671	0.01	2000	
Ni	60	2	He	14.991	74.956	1.67	72906	0.02	2000	
Cu	63	2	He	0.602	3.010	2.49	14501	0.00	2000	
Zn	66	2	He	1.940	9.700	7.06	5261	0.04	2000	
As	75	2	He	0.119	0.596	26.33	417	0.03	2000	
Sb	121	2	He	0.234	1.170	7.07	2560	0.01	2000	
Se	78	2	He	0.419	2.097	40.53	123	0.34	2000	
Ti	47	2	He	0.510	2.552	10.63	280	0.18	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4724647	0.36	4099702	115.24	70	120	
In	115	1	nogas	4896365	1.89	4488397	109.09	70	120	
Li	6	1	nogas	3853965	1.42	3628184	106.22	70	120	
Bi	209	1	nogas	4012188	2.26	4039538	99.32	70	120	

Sample Report

Ge	72	2	He	1177752	0.68	1040446	113.20	70	120	

Sample Report

Sample Table

Sample Name	HS23061372-02MS
Data File Name	061SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:20:00-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	50.963	50.963	2.47	788358	0.01	2000	
B	11	1	nogas	544.479	544.479	1.09	5565787	0.01	2000	
Al	27	1	nogas	119.521	119.521	1.28	5163262	0.00	2000	
Ti	47	1	nogas	153.664	153.664	0.72	562066	0.03	2000	
Ni	60	1	nogas	114.645	114.645	1.80	1235064	0.01	2000	
Cu	63	1	nogas	49.145	49.145	1.10	1250330	0.00	2000	
Zn	66	1	nogas	58.239	58.239	0.30	394564	0.01	2000	
Se	77	1	nogas	65.873	65.873	2.60	23966	0.27	2000	
Se	82	1	nogas	50.629	50.629	1.15	18866	0.27	2000	
Sr	88	1	nogas	684.249	684.249	0.73	34497209	0.00	2000	
Mo	95	1	nogas	66.519	66.519	1.49	724918	0.01	2000	
Ag	107	1	nogas	47.336	47.336	1.22	1279265	0.00	2000	
Cd	111	1	nogas	48.638	48.638	0.70	271955	0.02	2000	
Sn	118	1	nogas	96.883	96.883	2.56	1502219	0.01	2000	
Sb	121	1	nogas	47.152	47.152	0.70	994924	0.00	2000	
Ba	137	1	nogas	463.033	463.033	2.53	3326969	0.01	2000	
Tl	205	1	nogas	45.440	45.440	5.13	2026530	0.00	2000	
Pb	208	1	nogas	47.117	47.117	4.30	2909175	0.00	2000	
U	238	1	nogas	101.518	101.518	1.87	7185967	0.00	2000	
Na	23	2	He	89953.082	89953.082	1.12	359706421	0.03	200000	
Mg	24	2	He	24646.941	24646.941	0.52	54860719	0.04	200000	
Al	27	2	He	117.231	117.231	2.96	155592	0.08	2000	
K	39	2	He	8063.218	8063.218	0.73	16075334	0.05	200000	
Ca	43	2	He	31191.635	31191.635	1.16	176943	17.63	200000	
Ca	44	2	He	30195.987	30195.987	0.41	2828961	1.07	200000	
V	51	2	He	48.607	48.607	0.18	600132	0.01	2000	
Cr	52	2	He	139.172	139.172	0.21	1975925	0.01	2000	
Mn	55	2	He	108.617	108.617	0.95	1128647	0.01	2000	
Fe	56	2	He	5218.524	5218.524	1.40	64954356	0.01	200000	
Co	59	2	He	47.449	47.449	1.74	904039	0.01	2000	
Ni	60	2	He	116.387	116.387	1.13	558034	0.02	2000	
Cu	63	2	He	48.794	48.794	0.99	605446	0.01	2000	
Zn	66	2	He	57.295	57.295	2.05	132377	0.04	2000	
As	75	2	He	49.230	49.230	0.98	69083	0.07	2000	
Sb	121	2	He	46.105	46.105	0.87	356616	0.01	2000	
Se	78	2	He	49.695	49.695	2.17	7270	0.68	2000	
Ti	47	2	He	149.583	149.583	1.21	76941	0.19	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4700591	1.54	4099702	114.66	70	120	
In	115	1	nogas	4785174	0.15	4488397	106.61	70	120	
Li	6	1	nogas	3583424	1.84	3628184	98.77	70	120	
Bi	209	1	nogas	3904187	1.12	4039538	96.65	70	120	

Sample Report

Ge	72	2	He	1166570	0.35	1040446	112.12	70	120	

Sample Report

Sample Table

Sample Name	HS23061372-02MSD
Data File Name	062SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:22:01-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	51.283	51.283	2.14	791680	0.01	2000	
B	11	1	nogas	552.284	552.284	2.23	5630990	0.01	2000	
Al	27	1	nogas	121.366	121.366	1.16	5226015	0.00	2000	
Ti	47	1	nogas	153.304	153.304	1.84	559067	0.03	2000	
Ni	60	1	nogas	115.247	115.247	1.49	1237635	0.01	2000	
Cu	63	1	nogas	49.095	49.095	1.61	1245193	0.00	2000	
Zn	66	1	nogas	57.847	57.847	1.12	390748	0.01	2000	
Se	77	1	nogas	67.265	67.265	1.56	24300	0.28	2000	
Se	82	1	nogas	52.302	52.302	3.39	19416	0.27	2000	
Sr	88	1	nogas	675.856	675.856	0.41	33963474	0.00	2000	
Mo	95	1	nogas	66.872	66.872	1.26	726365	0.01	2000	
Ag	107	1	nogas	47.251	47.251	1.76	1272845	0.00	2000	
Cd	111	1	nogas	48.817	48.817	2.22	272075	0.02	2000	
Sn	118	1	nogas	98.680	98.680	1.07	1524988	0.01	2000	
Sb	121	1	nogas	47.008	47.008	1.02	988809	0.00	2000	
Ba	137	1	nogas	464.706	464.706	2.47	3327845	0.01	2000	
Tl	205	1	nogas	46.765	46.765	5.20	2062262	0.00	2000	
Pb	208	1	nogas	47.137	47.137	3.93	2878231	0.00	2000	
U	238	1	nogas	102.017	102.017	2.74	7141385	0.00	2000	
Na	23	2	He	90962.496	90962.496	0.40	359898395	0.03	200000	
Mg	24	2	He	24862.403	24862.403	0.98	54755031	0.05	200000	
Al	27	2	He	117.113	117.113	1.74	153789	0.08	2000	
K	39	2	He	8151.514	8151.514	0.92	16077805	0.05	200000	
Ca	43	2	He	31175.703	31175.703	0.92	174990	17.82	200000	
Ca	44	2	He	30329.985	30329.985	0.65	2811516	1.08	200000	
V	51	2	He	48.539	48.539	0.72	592938	0.01	2000	
Cr	52	2	He	138.595	138.595	2.08	1946837	0.01	2000	
Mn	55	2	He	107.655	107.655	1.82	1106764	0.01	2000	
Fe	56	2	He	5224.563	5224.563	1.35	64339444	0.01	200000	
Co	59	2	He	47.569	47.569	1.26	896726	0.01	2000	
Ni	60	2	He	115.768	115.768	1.51	549182	0.02	2000	
Cu	63	2	He	48.899	48.899	1.08	600299	0.01	2000	
Zn	66	2	He	56.573	56.573	0.49	129345	0.04	2000	
As	75	2	He	49.723	49.723	0.67	69033	0.07	2000	
Sb	121	2	He	46.653	46.653	1.40	357024	0.01	2000	
Se	78	2	He	50.789	50.789	0.78	7351	0.69	2000	
Ti	47	2	He	148.007	148.007	0.60	75327	0.20	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4686184	0.55	4099702	114.31	70	120	
In	115	1	nogas	4769738	0.85	4488397	106.27	70	120	
Li	6	1	nogas	3575714	1.75	3628184	98.55	70	120	
Bi	209	1	nogas	3862052	2.27	4039538	95.61	70	120	

Sample Report

Ge	72	2	He	1154235	0.64	1040446	110.94	70	120	

Sample Report

Sample Table

Sample Name	HS23061372-02PDS
Data File Name	063SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:24:01-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	98.566	98.566	2.06	1571941	0.01	2000	
B	11	1	nogas	36.555	36.555	4.36	502688	0.01	2000	
Al	27	1	nogas	113.578	113.578	1.49	4871725	0.00	2000	
Ti	47	1	nogas	104.208	104.208	1.20	378313	0.03	2000	
Ni	60	1	nogas	161.480	161.480	1.16	1725035	0.01	2000	
Cu	63	1	nogas	95.893	95.893	0.09	2402767	0.00	2000	
Zn	66	1	nogas	106.471	106.471	0.53	713912	0.01	2000	
Se	77	1	nogas	110.858	110.858	2.29	36869	0.30	2000	
Se	82	1	nogas	101.727	101.727	0.05	37077	0.27	2000	
Sr	88	1	nogas	571.101	571.101	0.34	28397780	0.00	2000	
Mo	95	1	nogas	117.328	117.328	2.01	1260123	0.01	2000	
Ag	107	1	nogas	97.681	97.681	1.30	2603359	0.00	2000	
Cd	111	1	nogas	98.340	98.340	2.53	542385	0.02	2000	
Sn	118	1	nogas	2.553	2.553	11.17	44008	0.01	2000	
Sb	121	1	nogas	86.795	86.795	1.75	1815226	0.00	2000	
Ba	137	1	nogas	510.769	510.769	1.58	3619832	0.01	2000	
Tl	205	1	nogas	97.664	97.664	4.58	4282796	0.00	2000	
Pb	208	1	nogas	95.555	95.555	4.39	5799614	0.00	2000	
U	238	1	nogas	0.386	0.386	33.80	27224	0.00	2000	
Na	23	2	He	93411.482	93411.482	1.06	373177861	0.03	200000	
Mg	24	2	He	29130.650	29130.650	0.54	64778124	0.04	200000	
Al	27	2	He	107.167	107.167	0.40	142375	0.08	2000	
K	39	2	He	13268.491	13268.491	0.59	26340893	0.05	200000	
Ca	43	2	He	35161.268	35161.268	1.04	199266	17.65	200000	
Ca	44	2	He	34528.717	34528.717	0.88	3231414	1.07	200000	
V	51	2	He	96.619	96.619	0.83	1189393	0.01	2000	
Cr	52	2	He	184.297	184.297	1.35	2608417	0.01	2000	
Mn	55	2	He	153.589	153.589	0.77	1594136	0.01	2000	
Fe	56	2	He	10037.508	10037.508	1.37	124790898	0.01	200000	
Co	59	2	He	93.406	93.406	0.41	1777976	0.01	2000	
Ni	60	2	He	159.420	159.420	0.14	763518	0.02	2000	
Cu	63	2	He	94.174	94.174	1.22	1160935	0.01	2000	
Zn	66	2	He	103.916	103.916	0.87	239262	0.04	2000	
As	75	2	He	99.832	99.832	0.78	139702	0.07	2000	
Sb	121	2	He	84.361	84.361	1.73	651300	0.01	2000	
Se	78	2	He	101.724	101.724	3.79	14804	0.69	2000	
Ti	47	2	He	102.454	102.454	0.52	52655	0.19	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4662718	1.47	4099702	113.73	70	120	
In	115	1	nogas	4719547	1.11	4488397	105.15	70	120	
Li	6	1	nogas	3693765	0.66	3628184	101.81	70	120	
Bi	209	1	nogas	3840261	1.82	4039538	95.07	70	120	

Sample Report

Ge	72	2	He	1165465	0.24	1040446	112.02	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	064_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:26:02-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	101.184	2.942	1634907	0.54	100	101.2	90	110	
B	11	1	nogas	528.399	3.628	5644382	1.19	500	105.7	90	110	
Al	27	1	nogas	103.603	0.361	4560708	2.02	100	103.6	90	110	
P	31	1	nogas	578.996	4.078	217978	1.04	500	115.8	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	101.780	1.145	378438	2.07	100	101.8	90	110	
Ni	60	1	nogas	99.023	0.347	1083784	1.65	100	99.0	90	110	
Cu	63	1	nogas	98.138	1.234	2518519	3.08	100	98.1	90	110	
Zn	66	1	nogas	99.186	1.384	681386	3.23	100	99.2	90	110	
Se	77	1	nogas	101.361	0.676	34928	1.39	100	101.4	90	110	
Se	82	1	nogas	101.756	1.282	37989	2.88	100	101.8	90	110	
Sr	88	1	nogas	105.530	1.665	5504088	1.11	100	105.5	90	110	
Mo	95	1	nogas	101.344	2.778	1141491	2.45	100	101.3	90	110	
Ag	107	1	nogas	101.013	2.616	2822895	2.17	100	101.0	90	110	
Cd	111	1	nogas	100.665	2.017	582189	2.22	100	100.7	90	110	
Sn	118	1	nogas	99.635	2.603	1597759	2.57	100	99.6	90	110	
Sb	121	1	nogas	100.994	1.174	2162758	2.31	100	101.0	90	110	
Ba	137	1	nogas	99.284	2.709	738339	1.57	100	99.3	90	110	
Tl	205	1	nogas	99.348	4.037	4683390	2.86	100	99.3	90	110	
Pb	208	1	nogas	98.615	3.612	6434370	2.56	100	98.6	90	110	
U	238	1	nogas	97.832	2.021	7321529	2.08	100	97.8	90	110	
Li	7	1	nogas	99.733	3.533	6001652	0.96	100	99.7	90	110	
Ba	135	1	nogas	99.221	2.211	421896	1.85	100	99.2	90	110	
Tl	203	1	nogas	101.149	4.130	1952128	3.02	100	101.1	90	110	
Na	23	2	He	10296.483	0.426	42030532	0.47	10000	103.0	90	110	
Mg	24	2	He	10156.942	0.393	23030616	0.70	10000	101.6	90	110	
Al	27	2	He	100.490	2.271	136323	2.25	100	100.5	90	110	
K	39	2	He	10356.180	1.341	20992848	1.45	10000	103.6	90	110	
Ca	43	2	He	10075.920	1.603	58262	1.76	10000	100.8	90	110	
Ca	44	2	He	9834.684	0.529	940401	0.84	10000	98.3	90	110	
V	51	2	He	99.275	1.219	1246029	1.46	100	99.3	90	110	
Cr	52	2	He	98.686	0.504	1432431	0.82	100	98.7	90	110	
Mn	55	2	He	97.943	0.400	1036797	0.35	100	97.9	90	110	
Fe	56	2	He	9924.142	0.635	125803395	0.45	10000	99.2	90	110	
Co	59	2	He	98.091	0.997	1903722	0.67	100	98.1	90	110	
Ni	60	2	He	98.421	1.061	480757	0.78	100	98.4	90	110	
Cu	63	2	He	97.534	0.686	1225695	0.45	100	97.5	90	110	
Zn	66	2	He	96.168	0.670	225820	0.31	100	96.2	90	110	
As	75	2	He	97.415	1.002	138998	0.65	100	97.4	90	110	
Sb	121	2	He	96.400	0.932	758773	1.28	100	96.4	90	110	
Se	78	2	He	99.208	1.772	14723	1.47	100	99.2	90	110	
Ti	47	2	He	100.257	2.445	52538	2.52	100	100.3	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4775591	1.88	4099702	116.49	70	120	
In	115	1	nogas	4949906	1.52	4488397	110.28	70	120	
Li	6	1	nogas	3743745	2.41	3628184	103.19	70	120	
Bi	209	1	nogas	4127332	1.21	4039538	102.17	70	120	
Ge	72	2	He	1188326	0.35	1040446	114.21	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	065_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:28:03-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	0.092	19.4	1660	20.3	1	
B	11	1	nogas	14.824	9.5	299353	6.0	10	CCB Main CR1 Failed
Al	27	1	nogas	0.626	3.4	122973	0.6	5	
P	31	1	nogas	74.045	2.5	99166	1.2	10	CCB Main CR1 Failed
Ti	47	1	nogas	0.281	13.7	1613	8.4	2.5	
Ni	60	1	nogas	0.167	19.2	3077	10.2	2.5	
Cu	63	1	nogas	-0.173	-21.8	13743	5.9	2	
Zn	66	1	nogas	0.510	6.7	5474	4.7	2.5	
Se	77	1	nogas	2.368	25.1	5341	3.7	2.5	
Se	82	1	nogas	0.077	237.2	557	12.0	2	
Sr	88	1	nogas	0.177	12.4	10527	10.6	2.5	
Mo	95	1	nogas	0.762	10.3	9980	8.4	2.5	
Ag	107	1	nogas	0.098	14.4	3217	11.8	2.5	
Cd	111	1	nogas	0.094	19.3	550	18.5	1	
Sn	118	1	nogas	1.694	8.4	32140	6.8	5	
Sb	121	1	nogas	2.107	10.0	46298	8.6	2	CCB Main CR1 Failed
Ba	137	1	nogas	0.155	19.3	1900	11.3	2.5	
Tl	205	1	nogas	0.557	39.8	26874	41.1	1	
Pb	208	1	nogas	0.143	25.1	11799	21.8	2.5	
U	238	1	nogas	0.173	36.3	13134	37.9	2.5	
Na	23	2	He	16.412	5.5	164000	3.4	100	
Mg	24	2	He	7.677	4.7	19022	5.1	100	
Al	27	2	He	0.387	24.0	3657	2.4	5	
K	39	2	He	8.834	10.7	151445	2.1	100	
Ca	43	2	He	14.363	69.1	133	41.3	100	
Ca	44	2	He	9.267	22.7	3527	4.8	100	
V	51	2	He	0.146	3.6	4208	2.4	2.5	
Cr	52	2	He	0.206	22.3	20371	1.9	2.5	
Mn	55	2	He	0.107	14.7	1853	9.7	2.5	
Fe	56	2	He	11.176	7.4	166606	7.4	100	
Co	59	2	He	0.066	6.0	1300	6.6	2.5	
Ni	60	2	He	0.111	24.5	913	13.2	2.5	
Cu	63	2	He	-0.139	-12.1	5288	5.1	2	
Zn	66	2	He	0.441	8.9	1770	4.8	2.5	
As	75	2	He	0.178	18.0	494	8.7	2.5	
Sb	121	2	He	1.614	2.8	13203	3.0	2	
Se	78	2	He	0.637	17.5	153	11.8	2	
Ti	47	2	He	0.294	34.8	167	33.0	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4713095	1.09	4099702	114.96	70	120	
In	115	1	nogas	4902432	0.56	4488397	109.22	70	120	
Li	6	1	nogas	3967630	1.96	3628184	109.36	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	4096669	2.15	4039538	101.41	70	120	
Ge	72	2	He	1167878	1.27	1040446	112.25	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-01
Data File Name	068SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:35:13-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.005	0.005	21.51	167	0.00	2000	
B	11	1	nogas	19.102	19.102	0.86	351187	0.01	2000	
Al	27	1	nogas	36.503	36.503	0.59	1628450	0.00	2000	
Ti	47	1	nogas	1.569	1.569	2.63	6255	0.03	2000	
Ni	60	1	nogas	7.865	7.865	0.84	85090	0.01	2000	
Cu	63	1	nogas	0.329	0.329	7.78	26066	0.00	2000	
Zn	66	1	nogas	3.341	3.341	2.39	24307	0.01	2000	
Se	77	1	nogas	15.319	15.319	8.78	9043	0.17	2000	
Se	82	1	nogas	0.549	0.549	62.02	720	0.08	2000	
Sr	88	1	nogas	817.993	817.993	0.70	41135569	0.00	2000	
Mo	95	1	nogas	0.143	0.143	12.57	3014	0.00	2000	
Ag	107	1	nogas	0.026	0.026	7.70	1190	0.00	2000	
Cd	111	1	nogas	0.075	0.075	30.57	433	0.02	2000	
Sn	118	1	nogas	0.103	0.103	15.62	6778	0.00	2000	
Sb	121	1	nogas	0.249	0.249	6.17	7012	0.00	2000	
Ba	137	1	nogas	154.542	154.542	0.58	1108162	0.01	2000	
Tl	205	1	nogas	0.000	0.000	1083.80	623	0.00	2000	
Pb	208	1	nogas	0.135	0.135	5.59	10735	0.00	2000	
U	238	1	nogas	0.257	0.257	4.03	18413	0.00	2000	
Na	23	2	He	39505.877	39505.877	2.05	157317194	0.03	200000	
Mg	24	2	He	10361.166	10361.166	0.90	22960249	0.05	200000	
Al	27	2	He	35.633	35.633	1.82	49259	0.07	2000	
K	39	2	He	376.383	376.383	1.75	873915	0.04	200000	
Ca	43	2	He	61483.437	61483.437	0.71	347207	17.71	200000	
Ca	44	2	He	63823.888	63823.888	1.56	5949168	1.07	200000	
V	51	2	He	1.119	1.119	4.06	16092	0.01	2000	
Cr	52	2	He	6.183	6.183	3.01	103983	0.01	2000	
Mn	55	2	He	57.562	57.562	1.36	595766	0.01	2000	
Fe	56	2	He	133.988	133.988	0.72	1686832	0.01	200000	
Co	59	2	He	0.705	0.705	2.33	13416	0.01	2000	
Ni	60	2	He	7.531	7.531	4.33	36288	0.02	2000	
Cu	63	2	He	0.305	0.305	11.68	10674	0.00	2000	
Zn	66	2	He	3.207	3.207	3.39	8086	0.04	2000	
As	75	2	He	0.248	0.248	11.06	590	0.04	2000	
Sb	121	2	He	0.215	0.215	8.01	2377	0.01	2000	
Se	78	2	He	0.390	0.390	8.10	117	0.33	2000	
Ti	47	2	He	1.344	1.344	3.94	703	0.19	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4656367	1.00	4099702	113.58	70	120	
In	115	1	nogas	4773284	1.29	4488397	106.35	70	120	
Li	6	1	nogas	4019587	1.80	3628184	110.79	70	120	
Bi	209	1	nogas	3906895	0.59	4039538	96.72	70	120	

Sample Report

Ge	72	2	He	1161474	2.12	1040446	111.63	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-02
Data File Name	069SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:37:13-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.007	0.007	33.64	208	0.00	2000	
B	11	1	nogas	16.680	16.680	1.80	319025	0.01	2000	
Al	27	1	nogas	32.586	32.586	3.36	1461836	0.00	2000	
Ti	47	1	nogas	1.505	1.505	9.17	6008	0.03	2000	
Ni	60	1	nogas	8.252	8.252	2.08	89076	0.01	2000	
Cu	63	1	nogas	0.217	0.217	12.36	23225	0.00	2000	
Zn	66	1	nogas	4.493	4.493	0.56	31948	0.01	2000	
Se	77	1	nogas	21.384	21.384	1.95	10787	0.20	2000	
Se	82	1	nogas	0.144	0.144	212.93	573	0.03	2000	
Sr	88	1	nogas	827.220	827.220	1.40	41606504	0.00	2000	
Mo	95	1	nogas	0.136	0.136	6.12	2937	0.00	2000	
Ag	107	1	nogas	0.004	0.004	47.75	610	0.00	2000	
Cd	111	1	nogas	0.051	0.051	15.17	300	0.02	2000	
Sn	118	1	nogas	0.013	0.013	41.49	5394	0.00	2000	
Sb	121	1	nogas	0.188	0.188	3.71	5725	0.00	2000	
Ba	137	1	nogas	156.151	156.151	2.31	1119703	0.01	2000	
Tl	205	1	nogas	-0.001	-0.001	-163.26	557	0.00	2000	
Pb	208	1	nogas	0.119	0.119	5.58	9788	0.00	2000	
U	238	1	nogas	0.251	0.251	4.82	18089	0.00	2000	
Na	23	2	He	40066.452	40066.452	0.56	159397478	0.03	200000	
Mg	24	2	He	10454.974	10454.974	0.95	23144868	0.05	200000	
Al	27	2	He	32.123	32.123	2.95	44676	0.07	2000	
K	39	2	He	373.764	373.764	1.92	867954	0.04	200000	
Ca	43	2	He	62476.075	62476.075	1.15	352424	17.73	200000	
Ca	44	2	He	64763.841	64763.841	0.75	6031283	1.07	200000	
V	51	2	He	1.277	1.277	1.88	18012	0.01	2000	
Cr	52	2	He	3.257	3.257	2.04	62941	0.01	2000	
Mn	55	2	He	58.393	58.393	1.22	603780	0.01	2000	
Fe	56	2	He	119.326	119.326	0.50	1503629	0.01	200000	
Co	59	2	He	0.716	0.716	1.36	13620	0.01	2000	
Ni	60	2	He	7.772	7.772	0.26	37413	0.02	2000	
Cu	63	2	He	0.195	0.195	21.40	9316	0.00	2000	
Zn	66	2	He	4.253	4.253	3.43	10467	0.04	2000	
As	75	2	He	0.241	0.241	5.60	580	0.04	2000	
Sb	121	2	He	0.181	0.181	8.02	2114	0.01	2000	
Se	78	2	He	0.414	0.414	45.57	120	0.35	2000	
Ti	47	2	He	1.366	1.366	5.67	713	0.19	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4648876	1.54	4099702	113.40	70	120	
In	115	1	nogas	4773688	0.82	4488397	106.36	70	120	
Li	6	1	nogas	3957497	0.65	3628184	109.08	70	120	
Bi	209	1	nogas	3932856	2.02	4039538	97.36	70	120	

Sample Report

Ge	72	2	He	1160176	0.25	1040446	111.51	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-03
Data File Name	070SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:39:13-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.016	0.016	23.04	327	0.00	2000	
B	11	1	nogas	52.456	52.456	2.20	664422	0.01	2000	
Al	27	1	nogas	16.498	16.498	1.66	760822	0.00	2000	
Ti	47	1	nogas	2.415	2.415	1.02	8993	0.03	2000	
Ni	60	1	nogas	2.002	2.002	1.65	21816	0.01	2000	
Cu	63	1	nogas	0.567	0.567	5.50	30869	0.00	2000	
Zn	66	1	nogas	5.850	5.850	3.37	39646	0.01	2000	
Se	77	1	nogas	22.492	22.492	11.61	10747	0.21	2000	
Se	82	1	nogas	1.766	1.766	13.09	1117	0.16	2000	
Sr	88	1	nogas	412.050	412.050	0.18	19893965	0.00	2000	
Mo	95	1	nogas	0.111	0.111	30.28	2560	0.00	2000	
Ag	107	1	nogas	-0.004	-0.004	-45.48	363	0.00	2000	
Cd	111	1	nogas	0.109	0.109	5.77	597	0.02	2000	
Sn	118	1	nogas	-0.004	-0.004	-554.63	4928	0.00	2000	
Sb	121	1	nogas	0.150	0.150	10.33	4774	0.00	2000	
Ba	137	1	nogas	863.569	863.569	1.06	5941355	0.01	2000	
Tl	205	1	nogas	-0.005	-0.005	-42.31	367	0.00	2000	
Pb	208	1	nogas	0.208	0.208	11.41	14517	0.00	2000	
U	238	1	nogas	0.010	0.010	9.16	850	0.00	2000	
Na	23	2	He	201136.913	201136.913	1.20	783278415	0.03	200000	>LDR
Mg	24	2	He	10835.077	10835.077	0.61	23490501	0.05	200000	
Al	27	2	He	16.123	16.123	7.43	23492	0.07	2000	
K	39	2	He	3842.914	3842.914	1.84	7529972	0.05	200000	
Ca	43	2	He	19009.815	19009.815	2.10	105054	18.10	200000	
Ca	44	2	He	18494.706	18494.706	0.33	1688614	1.10	200000	
V	51	2	He	0.026	0.026	20.08	2650	0.00	2000	
Cr	52	2	He	0.556	0.556	14.61	24627	0.00	2000	
Mn	55	2	He	857.659	857.659	0.83	8675050	0.01	2000	
Fe	56	2	He	55182.704	55182.704	0.88	668716683	0.01	200000	
Co	59	2	He	1.749	1.749	1.55	32492	0.01	2000	
Ni	60	2	He	1.524	1.524	5.45	7482	0.02	2000	
Cu	63	2	He	0.180	0.180	24.47	8943	0.00	2000	
Zn	66	2	He	5.925	5.925	2.69	13993	0.04	2000	
As	75	2	He	0.924	0.924	5.17	1498	0.06	2000	
Sb	121	2	He	0.171	0.171	4.66	1997	0.01	2000	
Se	78	2	He	0.224	0.224	37.75	91	0.25	2000	
Ti	47	2	He	1.888	1.888	7.23	960	0.20	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4494428	1.44	4099702	109.63	70	120	
In	115	1	nogas	4582320	1.13	4488397	102.09	70	120	
Li	6	1	nogas	3682042	0.78	3628184	101.48	70	120	
Bi	209	1	nogas	3725984	2.27	4039538	92.24	70	120	
Ge	72	2	He	1136208	0.34	1040446	109.20	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-04
Data File Name	071SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:41:13-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.483	0.483	11.30	7223	0.01	2000	
B	11	1	nogas	30.912	30.912	14.03	412643	0.01	2000	
Al	27	1	nogas	19.256	19.256	14.97	816420	0.00	2000	
Ti	47	1	nogas	2.967	2.967	9.67	10250	0.03	2000	
Ni	60	1	nogas	4.910	4.910	13.55	48418	0.01	2000	
Cu	63	1	nogas	2.148	2.148	17.39	64334	0.00	2000	
Zn	66	1	nogas	4.560	4.560	14.91	29296	0.02	2000	
Se	77	1	nogas	27.007	27.007	14.86	11274	0.24	2000	
Se	82	1	nogas	3.350	3.350	16.38	1560	0.21	2000	
Sr	88	1	nogas	1557.125	1557.125	15.51	68477177	0.00	2000	
Mo	95	1	nogas	2.274	2.274	20.60	22768	0.01	2000	
Ag	107	1	nogas	-0.002	-0.002	-208.78	373	0.00	2000	
Cd	111	1	nogas	0.071	0.071	18.13	357	0.02	2000	
Sn	118	1	nogas	0.060	0.060	76.49	5361	0.00	2000	
Sb	121	1	nogas	0.162	0.162	23.59	4694	0.00	2000	
Ba	137	1	nogas	1359.963	1359.963	16.18	8516284	0.02	2000	
Tl	205	1	nogas	-0.007	-0.007	-8.57	257	0.00	2000	
Pb	208	1	nogas	0.630	0.630	18.45	35716	0.00	2000	
U	238	1	nogas	0.119	0.119	15.98	7462	0.00	2000	
Na	23	2	He	154377.878	154377.878	1.15	597093778	0.03	200000	
Mg	24	2	He	36408.947	36408.947	1.47	78393412	0.05	200000	
Al	27	2	He	18.128	18.128	3.46	25846	0.07	2000	
K	39	2	He	3614.083	3614.083	0.74	7041226	0.05	200000	
Ca	43	2	He	58710.770	58710.770	1.09	322122	18.23	200000	
Ca	44	2	He	60202.733	60202.733	1.53	5453254	1.10	200000	
V	51	2	He	0.519	0.519	2.61	8505	0.01	2000	
Cr	52	2	He	28.015	28.015	0.86	398245	0.01	2000	
Mn	55	2	He	2089.283	2089.283	1.12	20988312	0.01	2000	>LDR
Fe	56	2	He	108133.489	108133.489	0.80	1301475074	0.01	200000	
Co	59	2	He	0.391	0.391	2.13	7245	0.01	2000	
Ni	60	2	He	4.001	4.001	4.12	18909	0.02	2000	
Cu	63	2	He	1.603	1.603	2.28	25772	0.01	2000	
Zn	66	2	He	4.590	4.590	3.48	10931	0.04	2000	
As	75	2	He	6.300	6.300	0.83	8759	0.07	2000	
Sb	121	2	He	0.117	0.117	14.69	1577	0.01	2000	
Se	78	2	He	0.201	0.201	81.41	87	0.23	2000	
Ti	47	2	He	2.450	2.450	28.62	1230	0.20	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4244987	10.61	4099702	103.54	70	120	
In	115	1	nogas	4233643	13.68	4488397	94.32	70	120	
Li	6	1	nogas	3452220	10.00	3628184	95.15	70	120	
Bi	209	1	nogas	3435101	14.23	4039538	85.04	70	120	
Ge	72	2	He	1128542	1.43	1040446	108.47	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-05
Data File Name	072SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:43:12-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.037	0.037	15.66	547	0.01	2000	
B	11	1	nogas	9.711	9.711	20.25	185637	0.01	2000	
Al	27	1	nogas	7.781	7.781	8.84	338819	0.00	2000	
Ti	47	1	nogas	2.691	2.691	9.29	8272	0.03	2000	
Ni	60	1	nogas	658.005	658.005	9.85	5618277	0.01	2000	
Cu	63	1	nogas	160.503	160.503	8.10	3210690	0.00	2000	
Zn	66	1	nogas	377.958	377.958	8.61	2024447	0.02	2000	
Se	77	1	nogas	62.182	62.182	9.33	18185	0.34	2000	
Se	82	1	nogas	12.485	12.485	14.71	4007	0.31	2000	
Sr	88	1	nogas	5094.437	5094.437	12.59	192148057	0.00	2000	>LDR
Mo	95	1	nogas	9.835	9.835	11.38	81211	0.01	2000	
Ag	107	1	nogas	0.115	0.115	10.59	2714	0.00	2000	
Cd	111	1	nogas	0.386	0.386	2.91	1640	0.02	2000	
Sn	118	1	nogas	0.734	0.734	8.62	12462	0.01	2000	
Sb	121	1	nogas	0.202	0.202	11.47	4848	0.00	2000	
Ba	137	1	nogas	2300.524	2300.524	14.01	12348996	0.02	2000	>LDR
Tl	205	1	nogas	0.002	0.002	106.81	503	0.00	2000	
Pb	208	1	nogas	2.500	2.500	8.14	110193	0.00	2000	
U	238	1	nogas	24.117	24.117	7.55	1201233	0.00	2000	
Na	23	2	He	900194.658	900194.658	1.72	3173229179	0.03	200000	>LDR
Mg	24	2	He	174822.617	174822.617	1.13	343133555	0.05	200000	
Al	27	2	He	6.959	6.959	2.94	10761	0.06	2000	
K	39	2	He	1340.952	1340.952	0.89	2455759	0.05	200000	
Ca	43	2	He	266728.691	266728.691	1.51	1333868	20.00	200000	>LDR
Ca	44	2	He	269648.058	269648.058	1.38	22256280	1.21	200000	>LDR
V	51	2	He	2.653	2.653	2.45	30886	0.01	2000	
Cr	52	2	He	89.916	89.916	1.06	1131157	0.01	2000	
Mn	55	2	He	223.708	223.708	0.76	2049178	0.01	2000	
Fe	56	2	He	3496.391	3496.391	1.37	38379623	0.01	200000	
Co	59	2	He	7.242	7.242	1.35	121723	0.01	2000	
Ni	60	2	He	592.111	592.111	1.14	2502086	0.02	2000	
Cu	63	2	He	136.913	136.913	0.94	1486930	0.01	2000	
Zn	66	2	He	337.875	337.875	0.24	685169	0.05	2000	
As	75	2	He	0.929	0.929	1.75	1362	0.07	2000	
Sb	121	2	He	0.168	0.168	7.62	1787	0.01	2000	
Se	78	2	He	0.983	0.983	22.61	179	0.55	2000	
Ti	47	2	He	1.752	1.752	16.89	807	0.22	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	3753444	9.83	4099702	91.55	70	120	
In	115	1	nogas	3619325	12.94	4488397	80.64	70	120	
Li	6	1	nogas	3050162	8.43	3628184	84.07	70	120	
Bi	209	1	nogas	2757620	7.96	4039538	68.27	70	120	ISTD Failed
Ge	72	2	He	1028742	1.80	1040446	98.88	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-06
Data File Name	073SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:45:13-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.005	0.005	37.72	155	0.00	2000	
B	11	1	nogas	21.950	21.950	1.10	361866	0.01	2000	
Al	27	1	nogas	9.662	9.662	2.36	483354	0.00	2000	
Ti	47	1	nogas	2.155	2.155	4.55	8079	0.03	2000	
Ni	60	1	nogas	1.764	1.764	10.40	19336	0.01	2000	
Cu	63	1	nogas	0.376	0.376	20.05	26237	0.00	2000	
Zn	66	1	nogas	5.281	5.281	2.85	35950	0.01	2000	
Se	77	1	nogas	23.460	23.460	9.55	11001	0.21	2000	
Se	82	1	nogas	1.619	1.619	21.32	1063	0.15	2000	
Sr	88	1	nogas	674.672	674.672	1.70	31967629	0.00	2000	
Mo	95	1	nogas	0.105	0.105	18.77	2440	0.00	2000	
Ag	107	1	nogas	-0.004	-0.004	-125.09	360	0.00	2000	
Cd	111	1	nogas	0.276	0.276	10.43	1463	0.02	2000	
Sn	118	1	nogas	-0.002	-0.002	-692.87	4864	0.00	2000	
Sb	121	1	nogas	0.110	0.110	2.71	3974	0.00	2000	
Ba	137	1	nogas	802.910	802.910	1.27	5421507	0.01	2000	
Tl	205	1	nogas	-0.007	-0.007	-4.77	267	0.00	2000	
Pb	208	1	nogas	0.245	0.245	2.88	16061	0.00	2000	
U	238	1	nogas	0.054	0.054	46.79	3687	0.00	2000	
Na	23	2	He	112928.444	112928.444	1.18	429839714	0.03	200000	
Mg	24	2	He	18305.509	18305.509	1.69	38785709	0.05	200000	
Al	27	2	He	9.653	9.653	4.38	14948	0.06	2000	
K	39	2	He	2512.844	2512.844	3.93	4856323	0.05	200000	
Ca	43	2	He	33392.944	33392.944	1.29	180317	18.52	200000	
Ca	44	2	He	32729.295	32729.295	1.24	2918605	1.12	200000	
V	51	2	He	0.000	0.000	-9445.85	2288	0.00	2000	
Cr	52	2	He	0.748	0.748	3.33	26637	0.00	2000	
Mn	55	2	He	936.243	936.243	1.35	9255325	0.01	2000	
Fe	56	2	He	50027.546	50027.546	1.86	592520151	0.01	200000	
Co	59	2	He	0.267	0.267	3.03	4888	0.01	2000	
Ni	60	2	He	0.738	0.738	0.34	3727	0.02	2000	
Cu	63	2	He	-0.042	-0.042	-50.71	6158	0.00	2000	
Zn	66	2	He	5.320	5.320	2.74	12352	0.04	2000	
As	75	2	He	0.987	0.987	7.74	1548	0.06	2000	
Sb	121	2	He	0.105	0.105	10.01	1463	0.01	2000	
Se	78	2	He	0.176	0.176	64.00	82	0.21	2000	
Ti	47	2	He	2.109	2.109	3.11	1047	0.20	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4493119	1.91	4099702	109.60	70	120	
In	115	1	nogas	4497862	1.26	4488397	100.21	70	120	
Li	6	1	nogas	3796459	1.14	3628184	104.64	70	120	
Bi	209	1	nogas	3578679	1.43	4039538	88.59	70	120	
Ge	72	2	He	1110467	0.18	1040446	106.73	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-08
Data File Name	074SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:47:13-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.056	0.056	6.92	892	0.01	2000	
B	11	1	nogas	18.512	18.512	3.00	288960	0.01	2000	
Al	27	1	nogas	10.663	10.663	1.45	469712	0.00	2000	
Ti	47	1	nogas	2.127	2.127	6.63	7152	0.03	2000	
Ni	60	1	nogas	12.229	12.229	1.35	113859	0.01	2000	
Cu	63	1	nogas	1.012	1.012	4.16	37220	0.00	2000	
Zn	66	1	nogas	11.470	11.470	1.10	67978	0.02	2000	
Se	77	1	nogas	52.540	52.540	4.95	17187	0.31	2000	
Se	82	1	nogas	10.111	10.111	2.96	3591	0.28	2000	
Sr	88	1	nogas	4234.046	4234.046	0.80	180771157	0.00	2000	>LDR
Mo	95	1	nogas	0.170	0.170	21.47	2804	0.01	2000	
Ag	107	1	nogas	0.008	0.008	22.28	590	0.00	2000	
Cd	111	1	nogas	0.219	0.219	15.97	1047	0.02	2000	
Sn	118	1	nogas	0.074	0.074	42.97	5374	0.00	2000	
Sb	121	1	nogas	0.117	0.117	13.88	3691	0.00	2000	
Ba	137	1	nogas	494.875	494.875	1.48	3011245	0.02	2000	
Tl	205	1	nogas	0.035	0.035	13.71	1710	0.00	2000	
Pb	208	1	nogas	0.055	0.055	6.45	4610	0.00	2000	
U	238	1	nogas	5.825	5.825	5.23	326944	0.00	2000	
Na	23	2	He	677667.889	677667.889	0.26	2427494364	0.03	200000	>LDR
Mg	24	2	He	163730.367	163730.367	0.32	326527862	0.05	200000	
Al	27	2	He	11.080	11.080	6.26	15732	0.07	2000	
K	39	2	He	2491.297	2491.297	0.56	4532984	0.05	200000	
Ca	43	2	He	236054.089	236054.089	0.66	1199515	19.68	200000	>LDR
Ca	44	2	He	240310.394	240310.394	0.34	20155789	1.19	200000	>LDR
V	51	2	He	0.221	0.221	13.61	4595	0.00	2000	
Cr	52	2	He	2.088	2.088	7.04	41969	0.00	2000	
Mn	55	2	He	1754.263	1754.263	0.77	16322764	0.01	2000	
Fe	56	2	He	627.916	627.916	1.22	7024639	0.01	200000	
Co	59	2	He	11.292	11.292	1.56	192806	0.01	2000	
Ni	60	2	He	10.267	10.267	0.78	44419	0.02	2000	
Cu	63	2	He	-0.265	-0.265	-2.97	3337	-0.01	2000	
Zn	66	2	He	10.993	10.993	0.64	23305	0.05	2000	
As	75	2	He	0.696	0.696	1.13	1092	0.06	2000	
Sb	121	2	He	0.090	0.090	12.15	1273	0.01	2000	
Se	78	2	He	0.305	0.305	25.95	94	0.32	2000	
Ti	47	2	He	2.207	2.207	6.49	1030	0.21	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4027300	2.37	4099702	98.23	70	120	
In	115	1	nogas	4052027	1.87	4488397	90.28	70	120	
Li	6	1	nogas	3371003	1.33	3628184	92.91	70	120	
Bi	209	1	nogas	3097620	3.58	4039538	76.68	70	120	
Ge	72	2	He	1045248	0.49	1040446	100.46	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	077_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T14:59:15-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	0.042	50.1	780	44.9	1	
B	11	1	nogas	5.117	29.8	188318	8.0	10	
Al	27	1	nogas	0.749	6.1	120315	0.7	5	
P	31	1	nogas	26.395	41.1	82793	2.4	10	CCB Main CR1 Failed
Ti	47	1	nogas	0.169	31.1	1127	15.1	2.5	
Ni	60	1	nogas	0.116	24.4	2374	11.2	2.5	
Cu	63	1	nogas	-0.328	-12.5	9253	9.5	2	
Zn	66	1	nogas	0.429	3.1	4621	2.5	2.5	
Se	77	1	nogas	2.581	18.2	5071	2.0	2.5	CCB Main CR1 Failed
Se	82	1	nogas	-0.037	-603.5	483	15.3	2	
Sr	88	1	nogas	0.081	18.8	5318	13.1	2.5	
Mo	95	1	nogas	0.410	12.5	5765	8.4	2.5	
Ag	107	1	nogas	0.033	33.8	1353	21.1	2.5	
Cd	111	1	nogas	0.055	56.7	310	53.3	1	
Sn	118	1	nogas	1.055	13.4	20949	9.3	5	
Sb	121	1	nogas	1.088	13.6	23273	11.7	2	
Ba	137	1	nogas	0.039	32.8	990	8.1	2.5	
Tl	205	1	nogas	0.455	35.5	21015	35.0	1	
Pb	208	1	nogas	0.075	39.9	7051	26.8	2.5	
U	238	1	nogas	0.115	39.7	8370	39.3	2.5	
Na	23	2	He	18.265	5.6	161658	2.3	100	
Mg	24	2	He	2.712	27.2	7502	20.5	100	
Al	27	2	He	0.814	34.9	3974	8.7	5	
K	39	2	He	1.519	31.9	129186	0.7	100	
Ca	43	2	He	6.976	61.6	87	26.6	100	
Ca	44	2	He	5.940	38.1	3034	6.5	100	
V	51	2	He	0.064	23.2	3018	5.9	2.5	
Cr	52	2	He	0.220	22.7	19409	3.6	2.5	
Mn	55	2	He	0.060	28.4	1293	13.2	2.5	
Fe	56	2	He	9.155	10.5	133312	8.3	100	
Co	59	2	He	0.022	20.9	443	18.8	2.5	
Ni	60	2	He	0.066	23.6	660	10.9	2.5	
Cu	63	2	He	-0.289	-2.3	3240	2.4	2	
Zn	66	2	He	0.375	9.2	1527	5.0	2.5	
As	75	2	He	0.138	18.7	414	8.1	2.5	
Sb	121	2	He	0.784	4.4	6402	3.8	2	
Se	78	2	He	0.565	6.1	135	3.4	2	
Ti	47	2	He	0.108	48.0	67	37.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4423789	0.92	4099702	107.91	70	120	
In	115	1	nogas	4665012	1.05	4488397	103.93	70	120	
Li	6	1	nogas	3897504	2.30	3628184	107.42	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	3917654	0.76	4039538	96.98	70	120	
Ge	72	2	He	1101573	0.18	1040446	105.88	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	079_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T15:03:17-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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	%High2	QC Flag
Be	9	1	nogas	93.561	4.447	1498267	1.12	100	93.6	90	110	
B	11	1	nogas	466.603	6.239	4953274	2.63	500	93.3	90	110	
Al	27	1	nogas	101.939	0.337	4190871	1.45	100	101.9	90	110	
P	31	1	nogas	504.324	0.544	187346	2.05	500	100.9	90	110	
Ti	47	1	nogas	98.751	0.423	342813	1.33	100	98.8	90	110	
Ni	60	1	nogas	97.800	0.525	999459	2.23	100	97.8	90	110	
Cu	63	1	nogas	97.601	1.184	2338516	2.83	100	97.6	90	110	
Zn	66	1	nogas	97.570	1.189	625805	2.86	100	97.6	90	110	
Se	77	1	nogas	98.972	3.637	31955	4.49	100	99.0	90	110	
Se	82	1	nogas	97.821	3.389	34123	4.91	100	97.8	90	110	
Sr	88	1	nogas	100.144	4.157	4970871	2.76	100	100.1	90	110	
Mo	95	1	nogas	98.152	4.263	1052131	2.68	100	98.2	90	110	
Ag	107	1	nogas	99.786	3.344	2654117	1.90	100	99.8	90	110	
Cd	111	1	nogas	97.616	2.506	537351	1.71	100	97.6	90	110	
Sn	118	1	nogas	97.707	2.410	1491474	1.56	100	97.7	90	110	
Sb	121	1	nogas	96.593	0.842	1931388	2.31	100	96.6	90	110	
Ba	137	1	nogas	98.172	4.310	694912	3.22	100	98.2	90	110	
Tl	205	1	nogas	98.341	5.835	4486255	3.45	100	98.3	90	110	
Pb	208	1	nogas	98.236	5.058	6203211	2.67	100	98.2	90	110	
U	238	1	nogas	99.623	2.993	7216165	0.57	100	99.6	90	110	
Li	7	1	nogas	95.284	4.751	5694277	1.49	100	95.3	90	110	
Ba	135	1	nogas	97.368	4.124	394080	3.46	100	97.4	90	110	
Tl	203	1	nogas	99.610	6.443	1860180	4.08	100	99.6	90	110	
Na	23	2	He	10072.654	1.668	38117900	1.83	10000	100.7	90	110	
Mg	24	2	He	9963.966	2.205	20944032	2.37	10000	99.6	90	110	
Al	27	2	He	100.962	0.540	126950	0.57	100	101.0	90	110	
K	39	2	He	10176.942	1.374	19125631	1.45	10000	101.8	90	110	
Ca	43	2	He	9743.938	0.152	52230	0.17	10000	97.4	90	110	
Ca	44	2	He	9676.007	1.505	857728	1.67	10000	96.8	90	110	
V	51	2	He	98.448	0.747	1145449	0.79	100	98.4	90	110	
Cr	52	2	He	98.247	0.305	1322007	0.37	100	98.2	90	110	
Mn	55	2	He	98.578	0.740	967330	0.58	100	98.6	90	110	
Fe	56	2	He	9926.156	1.062	116644028	1.08	10000	99.3	90	110	
Co	59	2	He	97.867	0.927	1760751	0.95	100	97.9	90	110	
Ni	60	2	He	97.863	0.606	443144	0.51	100	97.9	90	110	
Cu	63	2	He	97.502	0.442	1135854	0.51	100	97.5	90	110	
Zn	66	2	He	97.177	0.651	211524	0.51	100	97.2	90	110	
As	75	2	He	97.419	0.510	128859	0.68	100	97.4	90	110	
Sb	121	2	He	96.886	0.288	706902	0.41	100	96.9	90	110	
Se	78	2	He	99.734	1.057	13720	0.95	100	99.7	90	110	
Ti	47	2	He	98.526	2.829	47863	2.98	100	98.5	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4458640	1.75	4099702	108.76	70	120	
In	115	1	nogas	4712166	1.75	4488397	104.99	70	120	
Li	6	1	nogas	3712314	3.35	3628184	102.32	70	120	
Bi	209	1	nogas	3996635	2.47	4039538	98.94	70	120	
Ge	72	2	He	1101571	0.17	1040446	105.87	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	080_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T15:05:15-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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	%High2	QC Flag
Be	9	1	nogas	93.995	3.914	1491470	1.66	100	94.0	90	110	
B	11	1	nogas	476.650	4.847	5011989	2.06	500	95.3	90	110	
Al	27	1	nogas	101.404	0.963	4181425	1.88	100	101.4	90	110	
P	31	1	nogas	492.874	2.024	185369	1.49	500	98.6	90	110	
Ti	47	1	nogas	97.732	0.767	340259	1.55	100	97.7	90	110	
Ni	60	1	nogas	98.271	1.542	1007156	2.62	100	98.3	90	110	
Cu	63	1	nogas	98.538	1.564	2367322	2.34	100	98.5	90	110	
Zn	66	1	nogas	97.859	2.348	629432	3.33	100	97.9	90	110	
Se	77	1	nogas	98.019	2.427	31774	2.98	100	98.0	90	110	
Se	82	1	nogas	100.352	0.730	35082	1.80	100	100.4	90	110	
Sr	88	1	nogas	98.934	2.652	4940766	2.64	100	98.9	90	110	
Mo	95	1	nogas	97.662	2.818	1053301	2.75	100	97.7	90	110	
Ag	107	1	nogas	98.507	3.096	2635835	2.98	100	98.5	90	110	
Cd	111	1	nogas	98.231	2.964	543907	2.84	100	98.2	90	110	
Sn	118	1	nogas	98.759	3.155	1516351	3.16	100	98.8	90	110	
Sb	121	1	nogas	97.940	2.243	1963940	3.13	100	97.9	90	110	
Ba	137	1	nogas	98.277	2.714	699859	2.66	100	98.3	90	110	
Tl	205	1	nogas	98.654	4.537	4503451	3.21	100	98.7	90	110	
Pb	208	1	nogas	98.287	4.449	6209722	3.11	100	98.3	90	110	
U	238	1	nogas	101.726	4.400	7370338	3.28	100	101.7	90	110	
Li	7	1	nogas	95.745	1.490	5670710	1.39	100	95.7	90	110	
Ba	135	1	nogas	97.881	2.598	398509	2.59	100	97.9	90	110	
Tl	203	1	nogas	100.825	4.142	1884344	2.80	100	100.8	90	110	
Na	23	2	He	9993.868	1.762	38044492	1.56	10000	99.9	90	110	
Mg	24	2	He	9997.367	1.927	21139238	2.00	10000	100.0	90	110	
Al	27	2	He	101.939	3.586	128900	3.01	100	101.9	90	110	
K	39	2	He	10251.401	1.241	19379162	1.09	10000	102.5	90	110	
Ca	43	2	He	9842.243	1.948	53073	2.23	10000	98.4	90	110	
Ca	44	2	He	9729.722	1.288	867575	0.82	10000	97.3	90	110	
V	51	2	He	97.980	1.094	1146770	0.61	100	98.0	90	110	
Cr	52	2	He	97.654	0.921	1322004	1.26	100	97.7	90	110	
Mn	55	2	He	97.583	0.436	963315	0.99	100	97.6	90	110	
Fe	56	2	He	9814.154	1.066	116013385	0.72	10000	98.1	90	110	
Co	59	2	He	97.390	0.764	1762628	0.83	100	97.4	90	110	
Ni	60	2	He	97.227	0.346	442894	0.36	100	97.2	90	110	
Cu	63	2	He	95.570	0.329	1120120	0.43	100	95.6	90	110	
Zn	66	2	He	96.375	0.759	211041	1.11	100	96.4	90	110	
As	75	2	He	97.519	1.385	129754	0.84	100	97.5	90	110	
Sb	121	2	He	96.329	1.431	707002	0.88	100	96.3	90	110	
Se	78	2	He	98.965	2.741	13695	2.17	100	99.0	90	110	
Ti	47	2	He	96.899	3.610	47354	3.79	100	96.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4471221	1.18	4099702	109.06	70	120	
In	115	1	nogas	4738874	0.22	4488397	105.58	70	120	
Li	6	1	nogas	3677152	2.61	3628184	101.35	70	120	
Bi	209	1	nogas	3997026	1.36	4039538	98.95	70	120	
Ge	72	2	He	1108152	0.58	1040446	106.51	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-03
Data File Name	083SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T15:11:29-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.009	0.180	12.51	232	0.00	2000	
B	11	1	nogas	11.350	226.991	5.08	254480	0.00	2000	
Al	27	1	nogas	6.357	127.138	0.78	350407	0.00	2000	
Ti	47	1	nogas	0.225	4.490	11.62	1343	0.02	2000	
Ni	60	1	nogas	0.177	3.539	13.91	3044	0.01	2000	
Cu	63	1	nogas	-0.354	-7.073	-2.38	8803	0.00	2000	
Zn	66	1	nogas	0.564	11.272	7.59	5574	0.01	2000	
Se	77	1	nogas	5.143	102.855	16.77	5885	0.09	2000	
Se	82	1	nogas	-0.189	-3.785	-72.88	440	-0.04	2000	
Sr	88	1	nogas	19.001	380.011	2.37	952096	0.00	2000	
Mo	95	1	nogas	0.215	4.293	4.85	3767	0.01	2000	
Ag	107	1	nogas	0.009	0.186	40.01	737	0.00	2000	
Cd	111	1	nogas	0.021	0.430	17.28	133	0.02	2000	
Sn	118	1	nogas	0.771	15.420	3.32	16987	0.00	2000	
Sb	121	1	nogas	0.320	6.397	4.66	8219	0.00	2000	
Ba	137	1	nogas	43.198	863.956	2.33	308722	0.01	2000	
Tl	205	1	nogas	0.054	1.073	13.69	3094	0.00	2000	
Pb	208	1	nogas	0.017	0.342	17.39	3550	0.00	2000	
U	238	1	nogas	0.022	0.435	9.10	1800	0.00	2000	
Na	23	2	He	10208.301	204166.029	0.78	39486869	0.03	200000	
Mg	24	2	He	543.860	10877.197	0.86	1170295	0.05	200000	
Al	27	2	He	5.903	118.064	2.22	10450	0.06	2000	
K	39	2	He	189.883	3797.661	0.35	491523	0.04	200000	
Ca	43	2	He	916.320	18326.395	6.80	5068	18.08	200000	
Ca	44	2	He	930.880	18617.603	0.54	86670	1.07	200000	
V	51	2	He	0.029	0.573	35.13	2661	0.00	2000	
Cr	52	2	He	0.158	3.161	26.18	18999	0.00	2000	
Mn	55	2	He	41.951	839.026	1.58	421202	0.01	2000	
Fe	56	2	He	2869.470	57389.398	1.05	34487296	0.01	200000	
Co	59	2	He	0.109	2.172	4.05	2040	0.01	2000	
Ni	60	2	He	0.160	3.196	9.97	1107	0.01	2000	
Cu	63	2	He	-0.292	-5.838	-5.04	3280	-0.01	2000	
Zn	66	2	He	0.519	10.386	11.82	1880	0.03	2000	
As	75	2	He	0.141	2.824	17.03	428	0.03	2000	
Sb	121	2	He	0.313	6.263	10.63	3037	0.01	2000	
Se	78	2	He	0.325	6.499	13.34	104	0.31	2000	
Ti	47	2	He	0.387	7.742	25.35	207	0.19	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4504911	1.09	4099702	109.88	70	120	
In	115	1	nogas	4749501	0.18	4488397	105.82	70	120	
Li	6	1	nogas	3870833	1.16	3628184	106.69	70	120	
Bi	209	1	nogas	4006752	1.62	4039538	99.19	70	120	

Sample Report

Ge	72	2	He	1126056	0.53	1040446	108.23	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-04
Data File Name	084SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T15:13:29-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.025	0.498	15.76	495	0.01	2000	
B	11	1	nogas	8.071	161.414	10.78	218157	0.00	2000	
Al	27	1	nogas	4.763	95.259	2.66	285132	0.00	2000	
Ti	47	1	nogas	0.199	3.973	28.45	1250	0.02	2000	
Ni	60	1	nogas	0.293	5.862	16.23	4234	0.01	2000	
Cu	63	1	nogas	-0.278	-5.553	-3.36	10611	0.00	2000	
Zn	66	1	nogas	0.382	7.635	2.87	4394	0.01	2000	
Se	77	1	nogas	4.335	86.702	19.83	5648	0.08	2000	
Se	82	1	nogas	-0.254	-5.076	-125.01	417	-0.06	2000	
Sr	88	1	nogas	69.874	1397.470	2.35	3445318	0.00	2000	
Mo	95	1	nogas	0.207	4.149	16.30	3634	0.01	2000	
Ag	107	1	nogas	0.007	0.136	38.55	660	0.00	2000	
Cd	111	1	nogas	0.014	0.279	39.59	90	0.02	2000	
Sn	118	1	nogas	0.422	8.432	17.52	11459	0.00	2000	
Sb	121	1	nogas	0.188	3.752	18.86	5541	0.00	2000	
Ba	137	1	nogas	64.554	1291.086	2.98	454087	0.01	2000	
Tl	205	1	nogas	0.011	0.223	40.79	1147	0.00	2000	
Pb	208	1	nogas	0.025	0.496	15.53	4047	0.00	2000	
U	238	1	nogas	0.015	0.305	6.81	1330	0.00	2000	
Na	23	2	He	7978.433	159568.655	1.46	30751270	0.03	200000	
Mg	24	2	He	1865.956	37319.122	1.13	3993797	0.05	200000	
Al	27	2	He	4.025	80.508	6.36	8059	0.05	2000	
K	39	2	He	177.352	3547.038	0.77	465637	0.04	200000	
Ca	43	2	He	2929.018	58580.361	1.85	16015	18.29	200000	
Ca	44	2	He	2883.365	57667.295	1.94	261976	1.10	200000	
V	51	2	He	0.051	1.020	22.64	2914	0.00	2000	
Cr	52	2	He	1.582	31.647	4.22	38182	0.00	2000	
Mn	55	2	He	105.844	2116.887	0.69	1057121	0.01	2000	
Fe	56	2	He	5757.991	115159.829	0.81	68881522	0.01	200000	
Co	59	2	He	0.021	0.423	6.32	430	0.00	2000	
Ni	60	2	He	0.238	4.767	9.48	1463	0.02	2000	
Cu	63	2	He	-0.204	-4.076	-10.09	4307	0.00	2000	
Zn	66	2	He	0.378	7.556	6.07	1560	0.02	2000	
As	75	2	He	0.349	6.984	1.71	706	0.05	2000	
Sb	121	2	He	0.193	3.851	6.97	2130	0.01	2000	
Se	78	2	He	0.156	3.114	77.72	80	0.19	2000	
Ti	47	2	He	0.221	4.410	21.33	123	0.18	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4497197	0.98	4099702	109.70	70	120	
In	115	1	nogas	4678651	0.44	4488397	104.24	70	120	
Li	6	1	nogas	3854278	1.51	3628184	106.23	70	120	
Bi	209	1	nogas	4015565	1.46	4039538	99.41	70	120	

Sample Report

Ge	72	2	He	1121269	0.78	1040446	107.77	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-05
Data File Name	085SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T15:15:30-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.001	0.016	97.51	95	0.00	2000	
B	11	1	nogas	4.655	93.106	12.64	181451	0.00	2000	
Al	27	1	nogas	5.046	100.922	1.96	292985	0.00	2000	
Ti	47	1	nogas	0.104	2.089	13.66	910	0.01	2000	
Ni	60	1	nogas	33.372	667.437	2.17	340536	0.01	2000	
Cu	63	1	nogas	7.472	149.438	2.61	194086	0.00	2000	
Zn	66	1	nogas	18.617	372.336	2.90	120489	0.02	2000	
Se	77	1	nogas	11.563	231.261	7.25	7582	0.15	2000	
Se	82	1	nogas	0.151	3.024	53.49	550	0.03	2000	
Sr	88	1	nogas	219.626	4392.528	2.34	10743805	0.00	2000	
Mo	95	1	nogas	0.453	9.054	3.42	6195	0.01	2000	
Ag	107	1	nogas	0.007	0.140	41.07	660	0.00	2000	
Cd	111	1	nogas	0.020	0.404	10.67	123	0.02	2000	
Sn	118	1	nogas	0.308	6.168	26.02	9668	0.00	2000	
Sb	121	1	nogas	0.121	2.426	5.35	4151	0.00	2000	
Ba	137	1	nogas	104.914	2098.276	2.03	731908	0.01	2000	
Tl	205	1	nogas	0.003	0.053	163.60	723	0.00	2000	
Pb	208	1	nogas	0.102	2.036	7.62	8568	0.00	2000	
U	238	1	nogas	1.034	20.685	5.07	72426	0.00	2000	
Na	23	2	He	43816.050	876321.004	0.91	167406821	0.03	200000	
Mg	24	2	He	8448.116	168962.322	0.75	17962003	0.05	200000	
Al	27	2	He	4.691	93.829	2.32	8836	0.05	2000	
K	39	2	He	60.012	1200.246	3.49	241120	0.02	200000	
Ca	43	2	He	12649.129	252982.586	3.40	68561	18.45	200000	
Ca	44	2	He	12426.655	248533.095	1.32	1113478	1.12	200000	
V	51	2	He	0.217	4.343	6.25	4849	0.00	2000	
Cr	52	2	He	4.698	93.961	1.61	79824	0.01	2000	
Mn	55	2	He	11.200	223.996	1.56	111799	0.01	2000	
Fe	56	2	He	177.808	3556.159	1.78	2139070	0.01	200000	
Co	59	2	He	0.377	7.540	5.90	6902	0.01	2000	
Ni	60	2	He	33.085	661.698	1.20	151780	0.02	2000	
Cu	63	2	He	7.314	146.284	2.13	92350	0.01	2000	
Zn	66	2	He	18.391	367.812	1.90	41077	0.04	2000	
As	75	2	He	0.104	2.077	22.34	373	0.03	2000	
Sb	121	2	He	0.104	2.079	10.86	1463	0.01	2000	
Se	78	2	He	0.174	3.490	77.36	82	0.21	2000	
Ti	47	2	He	0.120	2.402	41.95	73	0.16	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4441451	0.71	4099702	108.34	70	120	
In	115	1	nogas	4642719	0.26	4488397	103.44	70	120	
Li	6	1	nogas	3855721	1.07	3628184	106.27	70	120	
Bi	209	1	nogas	3853882	2.61	4039538	95.40	70	120	

Sample Report

Ge	72	2	He	1114274	0.55	1040446	107.10	70	120	

Sample Report

Sample Table

Sample Name	HS23061459-08
Data File Name	086SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T15:17:31-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197025
ISTD Ref FileName	013CALB.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
Be	9	1	nogas	0.002	0.033	209.04	110	0.00	2000	
B	11	1	nogas	4.103	82.056	10.58	177181	0.00	2000	
Al	27	1	nogas	6.921	138.430	2.82	373617	0.00	2000	
Ti	47	1	nogas	0.089	1.782	27.18	870	0.01	2000	
Ni	60	1	nogas	0.674	13.472	1.51	8172	0.01	2000	
Cu	63	1	nogas	-0.364	-7.288	-0.06	8549	0.00	2000	
Zn	66	1	nogas	0.693	13.859	10.21	6415	0.01	2000	
Se	77	1	nogas	11.725	234.491	4.55	7742	0.15	2000	
Se	82	1	nogas	0.348	6.950	50.54	627	0.06	2000	
Sr	88	1	nogas	205.237	4104.731	2.93	10197251	0.00	2000	
Mo	95	1	nogas	0.024	0.480	49.23	1697	0.00	2000	
Ag	107	1	nogas	-0.005	-0.095	-48.53	357	0.00	2000	
Cd	111	1	nogas	0.010	0.203	71.09	70	0.01	2000	
Sn	118	1	nogas	0.158	3.156	28.56	7529	0.00	2000	
Sb	121	1	nogas	0.072	1.448	25.26	3224	0.00	2000	
Ba	137	1	nogas	24.585	491.700	2.57	174759	0.01	2000	
Tl	205	1	nogas	0.001	0.017	150.01	657	0.00	2000	
Pb	208	1	nogas	-0.012	-0.249	-26.01	1640	0.00	2000	
U	238	1	nogas	0.277	5.542	6.59	19845	0.00	2000	
Na	23	2	He	32008.738	640174.769	1.21	124640785	0.03	200000	
Mg	24	2	He	7698.125	153962.509	1.39	16678535	0.05	200000	
Al	27	2	He	6.880	137.599	2.22	11771	0.06	2000	
K	39	2	He	115.065	2301.305	2.19	351582	0.03	200000	
Ca	43	2	He	11173.735	223474.710	0.68	61722	18.10	200000	
Ca	44	2	He	10787.916	215758.317	1.12	985173	1.10	200000	
V	51	2	He	0.116	2.325	3.09	3732	0.00	2000	
Cr	52	2	He	0.238	4.767	37.46	20251	0.00	2000	
Mn	55	2	He	82.452	1649.033	0.29	833966	0.01	2000	
Fe	56	2	He	30.968	619.359	0.06	401525	0.01	200000	
Co	59	2	He	0.570	11.399	0.92	10611	0.01	2000	
Ni	60	2	He	0.540	10.799	10.91	2887	0.02	2000	
Cu	63	2	He	-0.341	-6.819	-4.11	2724	-0.01	2000	
Zn	66	2	He	0.638	12.755	5.82	2160	0.03	2000	
As	75	2	He	0.063	1.256	32.99	324	0.02	2000	
Sb	121	2	He	0.091	1.822	22.64	1393	0.01	2000	
Se	78	2	He	0.186	3.713	77.64	85	0.22	2000	
Ti	47	2	He	0.124	2.485	10.55	77	0.16	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4508199	0.55	4099702	109.96	70	120	
In	115	1	nogas	4715702	0.36	4488397	105.06	70	120	
Li	6	1	nogas	3892352	1.32	3628184	107.28	70	120	
Bi	209	1	nogas	3911312	2.37	4039538	96.83	70	120	

Sample Report

Ge	72	2	He	1135299	1.19	1040446	109.12	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	087_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T15:19:32-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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	%High2	QC Flag
Be	9	1	nogas	95.349	3.885	1525737	1.82	100	95.3	90	110	
B	11	1	nogas	476.951	4.229	5058166	2.04	500	95.4	90	110	
Al	27	1	nogas	99.968	1.676	4200727	1.61	100	100.0	90	110	
P	31	1	nogas	480.795	0.963	186171	0.66	500	96.2	90	110	
Ti	47	1	nogas	99.414	3.294	352600	3.33	100	99.4	90	110	
Ni	60	1	nogas	98.864	3.448	1032118	3.38	100	98.9	90	110	
Cu	63	1	nogas	97.113	2.085	2376988	2.09	100	97.1	90	110	
Zn	66	1	nogas	96.215	1.919	630417	1.90	100	96.2	90	110	
Se	77	1	nogas	101.093	3.617	33241	2.99	100	101.1	90	110	
Se	82	1	nogas	98.840	2.534	35209	2.67	100	98.8	90	110	
Sr	88	1	nogas	100.157	3.358	5069900	3.20	100	100.2	90	110	
Mo	95	1	nogas	98.154	2.007	1073037	1.92	100	98.2	90	110	
Ag	107	1	nogas	99.876	2.332	2708920	2.23	100	99.9	90	110	
Cd	111	1	nogas	98.237	3.306	551361	3.20	100	98.2	90	110	
Sn	118	1	nogas	97.628	3.537	1519464	3.42	100	97.6	90	110	
Sb	121	1	nogas	96.278	2.662	1966672	2.74	100	96.3	90	110	
Ba	137	1	nogas	99.061	2.643	715055	2.56	100	99.1	90	110	
Tl	205	1	nogas	99.267	5.152	4550912	3.13	100	99.3	90	110	
Pb	208	1	nogas	98.476	4.620	6248781	2.62	100	98.5	90	110	
U	238	1	nogas	99.287	1.996	7227252	0.68	100	99.3	90	110	
Li	7	1	nogas	95.794	2.581	5720335	0.93	100	95.8	90	110	
Ba	135	1	nogas	98.319	2.405	405745	2.26	100	98.3	90	110	
Tl	203	1	nogas	101.169	5.130	1898814	3.08	100	101.2	90	110	
Na	23	2	He	10001.868	0.892	38836534	0.93	10000	100.0	90	110	
Mg	24	2	He	9969.144	1.397	21500191	1.23	10000	99.7	90	110	
Al	27	2	He	100.067	0.731	129131	0.82	100	100.1	90	110	
K	39	2	He	10292.216	1.680	19844299	1.44	10000	102.9	90	110	
Ca	43	2	He	9795.649	2.391	53872	2.00	10000	98.0	90	110	
Ca	44	2	He	9819.520	1.772	893061	1.55	10000	98.2	90	110	
V	51	2	He	98.288	1.502	1173355	1.20	100	98.3	90	110	
Cr	52	2	He	98.132	1.652	1354862	1.41	100	98.1	90	110	
Mn	55	2	He	97.855	0.706	985261	0.57	100	97.9	90	110	
Fe	56	2	He	9890.618	0.382	119256638	0.65	10000	98.9	90	110	
Co	59	2	He	97.579	0.260	1801337	0.60	100	97.6	90	110	
Ni	60	2	He	97.198	0.661	451601	0.40	100	97.2	90	110	
Cu	63	2	He	96.726	0.672	1156224	0.43	100	96.7	90	110	
Zn	66	2	He	96.473	0.978	215467	0.58	100	96.5	90	110	
As	75	2	He	98.898	0.709	134222	0.86	100	98.9	90	110	
Sb	121	2	He	95.979	1.137	718535	1.01	100	96.0	90	110	
Se	78	2	He	98.714	1.430	13935	1.36	100	98.7	90	110	
Ti	47	2	He	98.201	1.855	48946	1.72	100	98.2	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4555168	0.34	4099702	111.11	70	120	
In	115	1	nogas	4803519	0.23	4488397	107.02	70	120	
Li	6	1	nogas	3707843	2.11	3628184	102.20	70	120	
Bi	209	1	nogas	4015434	2.13	4039538	99.40	70	120	
Ge	72	2	He	1130287	0.42	1040446	108.63	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	088_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq Date Time	2023-07-05T15:21:30-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	013CALB.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
Be	9	1	nogas	0.049	47.7	927	43.2	1	
B	11	1	nogas	10.067	16.5	245781	7.5	10	CCB Main CR1 Failed
Al	27	1	nogas	0.594	1.4	116869	1.0	5	
P	31	1	nogas	5.224	110.8	80112	1.8	10	
Ti	47	1	nogas	0.184	35.8	1210	19.3	2.5	
Ni	60	1	nogas	0.105	35.8	2314	17.3	2.5	
Cu	63	1	nogas	-0.334	-5.1	9330	4.4	2	
Zn	66	1	nogas	0.441	16.5	4808	9.6	2.5	
Se	77	1	nogas	2.947	24.4	5298	4.5	2.5	CCB Main CR1 Failed
Se	82	1	nogas	0.072	129.5	533	5.7	2	
Sr	88	1	nogas	0.080	29.2	5348	22.4	2.5	
Mo	95	1	nogas	0.487	16.6	6692	13.7	2.5	
Ag	107	1	nogas	0.033	19.4	1377	13.2	2.5	
Cd	111	1	nogas	0.046	48.9	267	46.9	1	
Sn	118	1	nogas	1.218	11.2	23790	9.5	5	
Sb	121	1	nogas	1.132	13.9	24758	13.3	2	
Ba	137	1	nogas	0.079	26.5	1297	12.3	2.5	
Tl	205	1	nogas	0.490	39.0	23393	40.8	1	
Pb	208	1	nogas	0.078	43.9	7521	32.3	2.5	
U	238	1	nogas	0.136	49.0	10245	50.9	2.5	
Na	23	2	He	10.014	4.1	133856	1.1	100	
Mg	24	2	He	2.323	11.3	6858	8.4	100	
Al	27	2	He	0.367	83.4	3514	11.0	5	
K	39	2	He	-1.350	-65.7	127009	1.5	100	
Ca	43	2	He	10.221	80.6	107	42.3	100	
Ca	44	2	He	0.551	572.7	2624	11.1	100	
V	51	2	He	0.066	6.2	3120	1.7	2.5	
Cr	52	2	He	0.178	0.3	19336	0.2	2.5	
Mn	55	2	He	0.072	11.5	1443	5.6	2.5	
Fe	56	2	He	6.544	8.8	105284	6.6	100	
Co	59	2	He	0.017	9.5	350	8.6	2.5	
Ni	60	2	He	0.079	35.9	737	18.1	2.5	
Cu	63	2	He	-0.312	-3.5	3054	4.4	2	
Zn	66	2	He	0.374	24.1	1563	13.0	2.5	
As	75	2	He	0.160	14.8	454	7.1	2.5	
Sb	121	2	He	0.818	6.6	6822	6.1	2	
Se	78	2	He	0.508	19.9	130	10.8	2	
Ti	47	2	He	0.125	48.9	77	39.8	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	4529903	0.75	4099702	110.49	70	120	
In	115	1	nogas	4736606	0.96	4488397	105.53	70	120	
Li	6	1	nogas	3953873	0.79	3628184	108.98	70	120	

Continuing Calibration Blank (CCB) Report

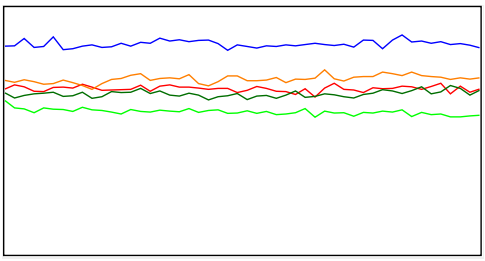
Bi	209	1	nogas	4035842	2.90	4039538	99.91	70	120	
Ge	72	2	He	1129834	0.20	1040446	108.59	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\070523A.b
Acq. Date-Time	7/5/2023 10:25:43 AM
Report Comment	---
Instrument Name	G3281A JP11080910

[nogas]

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	20000	13427	134273.96		
24	100000	57751	577512.77		
59	50000	42643	426426.55		
115	50000	35544	355437.68		
208	50000	32505	325050.42		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	1.698	5.000	
24	2.105	5.000	
59	1.609	5.000	
115	2.144	5.000	
208	1.954	5.000	

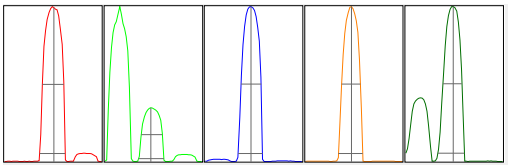
Mass	Background	Background (Required)	Background (Flag)
9	0.200		
24	0.400		
59	0.600		
115	3.200		
208	5.700		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.542 %
Doubly Charged	70 / 140 1.047 %

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	13051.60	9.05	8.90 - 9.10	
24	53665.54	23.95	23.90 - 24.10	
59	42357.81	58.95	58.90 - 59.10	
115	35974.05	114.95	114.90 - 115.10	
208	31836.37	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.783		
24	0.64	0.770		
59	0.61	0.742		
115	0.57	0.737		
208	0.58	0.813		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.52 L/min	Dilution Gas	0.55 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	---
RF Matching	1.70 V	Nebulizer Pump	0.10 rps	Plasma Gas	---
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	14.0 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-45 V
Omega Bias	-100 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	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

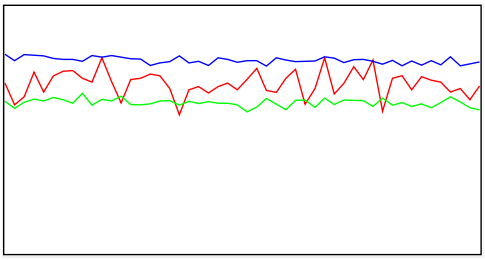
EM

Discriminator	4.5 mV	Analog HV	1596 V	Pulse HV	1243 V

[He]

Tune Check Report

Sensitivity



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

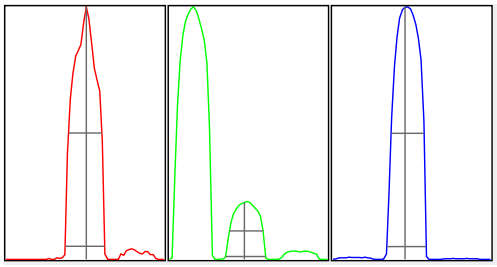
Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	500	344	3438.98		
24	5000	3050	30504.29		
59	20000	15649	156485.23		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	7.366	5.000	Fail
24	2.514	5.000	
59	1.663	5.000	

Mass	Background	Background (Required)	Background (Flag)
9			
24			
59			

Resolution/Axis



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

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	374.81	9.05	8.90 - 9.10	
24	3054.37	23.95	23.90 - 24.10	
59	15546.26	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.743		
24	0.63	0.745		
59	0.61	0.740		

Tune Parameters

Plasma Parameters

Tune Check Report

Plasma Mode	---	Nebulizer Gas	0.52 L/min	Dilution Gas	0.55 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	---
RF Matching	1.70 V	Nebulizer Pump	0.10 rps	Plasma Gas	---
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.4 V	Deflect	1.0 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm		

EM

Discriminator	4.5 mV	Analog HV	1596 V	Pulse HV	1243 V

HS23061459-E2300587 Perchlorate Level IV Report

ALS WO# HS23061459

June 27, 2023 Service Request No:E2300587

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

Laboratory Results for: HS23061459

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory June 22, 2023
For your reference, these analyses have been assigned our service request number **E2300587.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300587
Project:	HS23061459	**Date Received:**	06/22/23
Sample Matrix:	Ground 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

Ten samples were received for analysis at ALS Environmental in Houston on 06/22/23.

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:

EQ2300307: 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:**E2300587
Project: HS23061459

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300587-001	CO9_062023	6/20/2023	0705
E2300587-002	CO9_062023_a	6/20/2023	0705
E2300587-003	CO6_062023	6/20/2023	0800
E2300587-004	18WW18_062023	6/20/2023	0850
E2300587-005	18WW17_062023	6/20/2023	0900
E2300587-006	CO3_062023	6/20/2023	0950
E2300587-007	1824DPTMW03	6/20/2023	1035
E2300587-008	18CPTMW18_062023	6/20/2023	1120
E2300587-009	18CPTMW01_062023	6/20/2023	1205
E2300587-010	1824DPTMW01_062023_a	6/20/2023	1205

Service Request Summary

Folder #: **E2300587**
Client Name: ALS Environmental - US
Project Name: HS23061459
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/22/23
Internal Due Date: 7/6/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061459
EDD: BASIC_WQC_CASNo_LOD

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS: ClO4 DOD/6850
E2300587-001	CO9_062023	Ground Water	06/20/23 0705	**IV**
E2300587-002	CO9_062023_a	Ground Water	06/20/23 0705	**IV**
E2300587-003	CO6_062023	Ground Water	06/20/23 0800	**IV**
E2300587-004	18WW18_062023	Ground Water	06/20/23 0850	**IV**
E2300587-005	18WW17_062023	Ground Water	06/20/23 0900	**IV**
E2300587-006	CO3_062023	Ground Water	06/20/23 0950	**IV**
E2300587-007	1824DPTMW03	Ground Water	06/20/23 1035	**IV**
E2300587-008	18CPTMW18_062023	Ground Water	06/20/23 1120	**IV**
E2300587-009	18CPTMW01_062023	Ground Water	06/20/23 1205	**IV**
E2300587-010	1824DPTMW01_062023_a	Ground Water	06/20/23 1205	**IV**

Service Request Summary

Folder #: **E2300587**
Client Name: ALS Environmental - US
Project Name: HS23061459
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/22/23
Internal Due Date: 7/6/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061459
EDD: BASIC_WQC_CASNo_LOD

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

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

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: Texas **COC ID:** 22114

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@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:	HS23061459
TSR:	Holly Tignac

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23061459-01**	**CO9_062023**	**Water**	**20 Jun 2023 07:05**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			06 Jul 2023
2.	**HS23061459-02**	**CO9_062023_a**	**Water**	**20 Jun 2023 07:05**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			06 Jul 2023
3.	**HS23061459-03**	**CO6_062023**	**Water**	**20 Jun 2023 08:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			06 Jul 2023
4.	**HS23061459-04**	**18WW18_062023**	**Water**	**20 Jun 2023 08:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			06 Jul 2023
5.	**HS23061459-05**	**18WW17_062023**	**Water**	**20 Jun 2023 09:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			06 Jul 2023
6.	**HS23061459-06**	**CO3_062023**	**Water**	**20 Jun 2023 09:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			06 Jul 2023
7.	**HS23061459-07**	**1824DPTMW03**	**Water**	**20 Jun 2023 10:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			06 Jul 2023
8.	**HS23061459-08**	**18CPTMW18_062023**	**Water**	**20 Jun 2023 11:20**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **22114**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			06 Jul 2023
9.	**HS23061459-09**	**1824DPTMW01_062023**	**Water**	**20 Jun 2023 12:05**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			06 Jul 2023
10.	**HS23061459-10**	**1824DPTMW01_062023_a**	**Water**	**20 Jun 2023 12:05**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			06 Jul 2023

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: NR Date/Time:

Received By: Date/Time: 6.22.23 1800

Cooler ID(s): Temperature(s):

Cooler Receipt Form

ALS Environmental

Project Chemist JG

Client/Project ALS

Thermometer ID IR1

Date/Time Received: 6.22.23 Initials: CJ

Date/Time Logged in: 6.22.23 Initials IC

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☒ Courier (ALS) ○ Client

2. Samples received in: ☒ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☒ No
   Were they intact? ○ Yes ○ No ☒ N/A
   Were they signed and dated? ○ Yes ○ No ☒ N/A
   If yes, how many and where?

4. Packing Material: ○ Inserts ☒ Baggies ○ Bubble Wrap ○ Gel Packs ☒ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		6.22.23	1300	IC	0.8	☒
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☒ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☒ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☒ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ☒ Yes ○ No
10. Did sample labels and tags agree with custody documents? ☒ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

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

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#: 421905 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/21/23 09:53

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300575-001	AAR3331	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300575-002	AAR3333	.01	6850/ClO4 DOD			Ground Water	10mL	
3	E2300575-003	AAR3340	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2300575-004	AAR3341	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300575-005	AAR3342	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2300575-006	AAR3357	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300577-006	18WW03_061923	.01	6850/ClO4 DOD			Ground Water	10mL	
8	E2300577-007	C08_061923	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2300577-008	18DPTMW04_061923	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2300577-009	18DPTMW02_061923	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2300587-001	CO9_062023	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2300587-002	CO9_062023_a	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2300587-003	CO6_062023	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2300587-004	18WW18_062023	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2300587-005	18WW17_062023	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2300587-006	CO3_062023	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2300587-007	1824DPTMW03	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2300587-008	18CPTMW18_062023	.01	6850/ClO4 DOD			Ground Water	10mL	
19	E2300587-009	18CPTMW01_062023	.01	6850/ClO4 DOD			Ground Water	10mL	
20	E2300587-010	1824DPTMW01_062023_a	.01	6850/ClO4 DOD			Ground Water	10mL	
21	EQ2300307-01	MB		6850/ClO4			Liquid	10mL	
22	EQ2300307-02	LCS		6850/ClO4			Liquid	10mL	
23	EQ2300307-03	DLCS		6850/ClO4			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300307-02	1.00µL	EQ2300307-02	1.00µL	EQ2300307-03	1.00µL	EQ2300307-03	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

E2300575-001	100.00µL	E2300575-002	100.00µL	E2300575-003	100.00µL	E2300575-004	100.00µL	E2300575-005	100.00µL	E2300575-006	100.00µL
E2300577-006	100.00µL	E2300577-007	100.00µL	E2300577-008	100.00µL	E2300577-009	100.00µL	E2300587-001	100.00µL	E2300587-002	100.00µL
E2300587-003	100.00µL	E2300587-004	100.00µL	E2300587-005	100.00µL	E2300587-006	100.00µL	E2300587-007	100.00µL	E2300587-008	100.00µL
E2300587-009	100.00µL	E2300587-010	100.00µL	EQ2300307-01	100.00µL	EQ2300307-01	100.00µL	EQ2300307-02	100.00µL	EQ2300307-02	100.00µL
EQ2300307-03	100.00µL	EQ2300307-03	100.00µL								

Preparation Information Benchsheet

Prep Run#: 421905 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/21/23 09:53

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229314)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 0.45um syringe (229005)
6850 Luer-Lok Syringes	luer-lock syringes (228116)				

Preparation Steps

Step: Preparation
Started: 6/21/23 09:53
Finished: 6/23/23 13:38
By: XMI
Comments

Comments: _____

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:**	E2300587
Project:	HS23061459	**Date Collected:**	6/20/23 0705
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	CO9_062023	**Units:**	µg/L
Lab Code:	E2300587-001	**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	**8.61**		0.100	0.0500	0.0250	1	6/21/23	6/26/23 13:51	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	6/20/23 0705
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	CO9_062023_a	**Units:**	µg/L
Lab Code:	E2300587-002	**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	**9.10**		0.100	0.0500	0.0250	1	6/21/23	6/26/23 13:57	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	6/20/23 0800
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	CO6_062023	**Units:**	µg/L
Lab Code:	E2300587-003	**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	6/21/23	6/26/23 14:08	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	6/20/23 0850
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18WW18_062023	**Units:**	µg/L
Lab Code:	E2300587-004	**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	6/21/23	6/26/23 14:13	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	6/20/23 0900
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18WW17_062023	**Units:**	µg/L
Lab Code:	E2300587-005	**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	**89000**		500	250	125	5000	6/21/23	6/26/23 14:19	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	6/20/23 0950
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	CO3_062023	**Units:**	µg/L
Lab Code:	E2300587-006	**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	**23.1**		0.100	0.0500	0.0250	1	6/21/23	6/26/23 14:25	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	6/20/23 1035
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	1824DPTMW03	**Units:**	µg/L
Lab Code:	E2300587-007	**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	6/21/23	6/26/23 14:30	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	6/20/23 1120
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18CPTMW18_062023	**Units:**	µg/L
Lab Code:	E2300587-008	**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	6/21/23	6/26/23 14:36	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	6/20/23 1205
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18CPTMW01_062023	**Units:**	µg/L
Lab Code:	E2300587-009	**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	**2.59**		0.100	0.0500	0.0250	1	6/21/23	6/26/23 14:41	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	6/20/23 1205
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	1824DPTMW01_062023_a	**Units:**	µg/L
Lab Code:	E2300587-010	**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	**2.85**		0.100	0.0500	0.0250	1	6/21/23	6/26/23 14:47	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300307-01	**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	6/21/23	6/26/23 12:52	421905	808705	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061459
Sample Matrix: Ground Water

Service Request: E2300587
Date Analyzed: 6/26/23

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: 421905

	Lab Control Sample EQ2300307-02			Duplicate Lab Control Sample EQ2300307-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0991	0.100	99	0.109	0.100	109	84 - 119	10	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:**	E2300587
Project:	HS23061459	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300307-02	**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	**0.0991**	J	0.100	0.0500	0.0250	1	6/21/23	6/26/23 13:07	421905	808705	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300307-03	**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	**0.109**		0.100	0.0500	0.0250	1	6/21/23	6/26/23 13:12	421905	808705	

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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20230623-808638

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/23/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300010

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	PERCHLORATE1		20230623-002	Perchlorate6850c.lcm	1x	227245	6/23/2023 14:23
2	PERCHLORATE2		20230623-003	Perchlorate6850c.lcm	1x	227246	6/23/2023 14:28
3	PERCHLORATE3		20230623-004	Perchlorate6850c.lcm	1x	227247	6/23/2023 14:34
4	PERCHLORATE4		20230623-005	Perchlorate6850c.lcm	1x	227248	6/23/2023 14:39
5	PERCHLORATE5		20230623-006	Perchlorate6850c.lcm	1x	227249	6/23/2023 14:45
6	PERCHLORATE6		20230623-007	Perchlorate6850c.lcm	1x	227250	6/23/2023 14:50
7	PERCHLORATE7		20230623-008	Perchlorate6850c.lcm	1x	227251	6/23/2023 14:56
8	PERCHLORATE8		20230623-009	Perchlorate6850c.lcm	1x	227252	6/23/2023 15:01
9	PERCHLORATE9		20230623-010	Perchlorate6850c.lcm	1x	227253	6/23/2023 15:07
10	PERCHLORATE10		20230623-011	Perchlorate6850c.lcm	1x	227254	6/23/2023 15:13
11	PERCHLORATEICV		20230623-012	Perchlorate6850c.lcm	1x	227256	6/23/2023 15:18
12	LODV		20230623-013	Perchlorate6850c.lcm	1x	227501	6/23/2023 15:24
13	IB		20230623-014	Perchlorate6850c.lcm	1x		6/23/2023 15:29
14	ICS		20230623-015	Perchlorate6850c.lcm	1x	32103024	6/23/2023 15:35
15	CCV		20230623-016	Perchlorate6850c.lcm	1x	227251	6/23/2023 15:41
16	EQ2300301-01		20230623-017	Perchlorate6850c.lcm	1x		6/23/2023 15:46
17	EQ2300301-02		20230623-018	Perchlorate6850c.lcm	1x	DNU-RR	6/23/2023 15:52
18	EQ2300301-03		20230623-019	Perchlorate6850c.lcm	1x		6/23/2023 16:09
19	E2300548-001		20230623-020	Perchlorate6850c.lcm	1x		6/23/2023 16:03
20	E2300548-002		20230623-021	Perchlorate6850c.lcm	1x		6/23/2023 16:14
21	E2300548-003		20230623-022	Perchlorate6850c.lcm	1x	DNU-IS	6/23/2023 16:20
22	EQ2300301-04		20230623-023	Perchlorate6850c.lcm	1x	DNU-RR	6/23/2023 16:25
23	EQ2300301-05		20230623-024	Perchlorate6850c.lcm	1x	DNU-RR	6/23/2023 16:31
24	E2300549-001		20230623-025	Perchlorate6850c.lcm	1x	227251	6/23/2023 16:36
25	E2300549-002		20230623-026	Perchlorate6850c.lcm	1x	DNU-RR	6/23/2023 16:42
26	CCV		20230623-027	Perchlorate6850c.lcm	1x	227251	6/23/2023 16:47
27	E2300549-003		20230623-028	Perchlorate6850c.lcm	1x		6/23/2023 16:53
28	E2300549-004		20230623-029	Perchlorate6850c.lcm	1x		6/23/2023 16:58
29	E2300557-001		20230623-030	Perchlorate6850c.lcm	1x		6/23/2023 17:04
30	E2300559-001		20230623-031	Perchlorate6850c.lcm	1000x		6/23/2023 17:10
31	E2300559-002		20230623-032	Perchlorate6850c.lcm	500x		6/23/2023 17:15
32	E2300559-003		20230623-033	Perchlorate6850c.lcm	1000x		6/23/2023 17:21
33	E2300559-004		20230623-034	Perchlorate6850c.lcm	1x		6/23/2023 17:26
34	E2300559-005		20230623-035	Perchlorate6850c.lcm	10x		6/23/2023 17:32
35	E2300559-006		20230623-036	Perchlorate6850c.lcm	10x		6/23/2023 17:37
36	K2306641-001		20230623-037	Perchlorate6850c.lcm	1x		6/23/2023 17:43
37	CCV		20230623-038	Perchlorate6850c.lcm	1x	227251	6/23/2023 17:48

20230623-808638

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/23/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300010

Mobile Phases : **A:**20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
38	K2306641-002		20230623-039	Perchlorate6850c.lcm	1x		6/23/2023 17:54
39	K2306641-003		20230623-040	Perchlorate6850c.lcm	1x		6/23/2023 17:59
40	K2306921-001		20230623-041	Perchlorate6850c.lcm	1x	DNU-IS	6/23/2023 18:05
41	K2306921-002		20230623-042	Perchlorate6850c.lcm	1x		6/23/2023 18:11
42	K2306921-003		20230623-043	Perchlorate6850c.lcm	1x	DNU-IS	6/23/2023 18:16
43	E2300548-003		20230623-044	Perchlorate6850c.lcm	1x		6/23/2023 18:22
44	EQ2300301-02		20230623-045	Perchlorate6850c.lcm	1x		6/23/2023 18:27
45	CCV		20230623-049	Perchlorate6850c.lcm	1x	227251	6/23/2023 18:49

Initial Calibration - Detailed Report

Calibration ID: EC2300010 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300010-01	PERCHLORATE1	20230623-002	06/23/2023 14:23
02	EC2300010-02	PERCHLORATE2	20230623-003	06/23/2023 14:28
03	EC2300010-03	PERCHLORATE3	20230623-004	06/23/2023 14:34
04	EC2300010-04	PERCHLORATE4	20230623-005	06/23/2023 14:39
05	EC2300010-05	PERCHLORATE5	20230623-006	06/23/2023 14:45
06	EC2300010-06	PERCHLORATE6	20230623-007	06/23/2023 14:50
07	EC2300010-07	PERCHLORATE7	20230623-008	06/23/2023 14:56
08	EC2300010-08	PERCHLORATE8	20230623-009	06/23/2023 15:01
09	EC2300010-09	PERCHLORATE9	20230623-010	06/23/2023 15:07
10	EC2300010-10	PERCHLORATE10	20230623-011	06/23/2023 15:13

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

Perchlorate **Average RF** **RSD = 8.061** **Average RF = 0.1579**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1838	02	0.5000	0.1777	03	0.7000	0.1443	04	1.0000	0.1544
05	2.0000	0.1586	06	5.0000	0.1522	07	10.0000	0.1523	08	20.0000	0.154
09	30.0000	0.1479	10	50.0000	0.1539						

Analyte

Perchlorate RSE = 8.06

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.116	16.4	02	0.5000	0.563	12.6	03	0.7000	0.640	-8.6
04	1.0000	0.978	-2.2	05	2.0000	2.01	0.4	06	5.0000	4.82	-3.6
07	10.0000	9.64	-3.6	08	20.0000	19.5	-2.5	09	30.0000	28.1	-6.3
10	50.0000	48.7	-2.6								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300010	**Instrument ID:**	E-LCMS-01
Datafile ID:	20230623-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300010-11	T	Average RF	10	9.670	ng/mL	-3.3	<= 15

Insight Report

Printed at 6/26/2023 9:45:37 AM

Method File: I:\LCMS01\DATA\20230623\20230623.lcm
Project File: I:\LCMS01\DATA\20230623\20230623.damlp

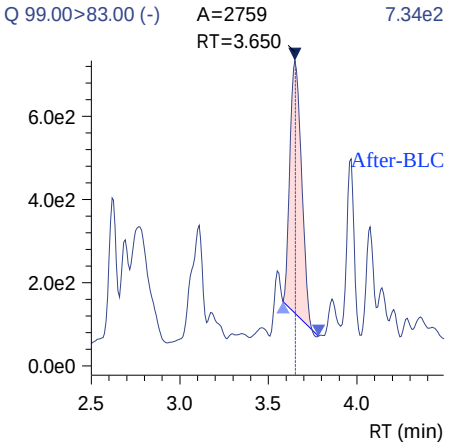
PERCHLORATE1

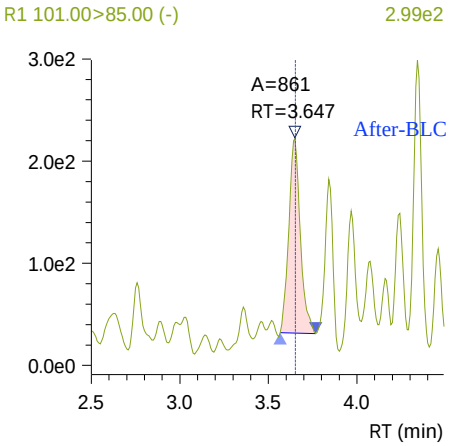
Sample ID: PERCHLORATE1
Date Acquired: 6/23/2023 2:23:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.650	2759	150098	0.1164	ng/mL	101.00 >85.00	31.22	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.649	1500 98	150098	1.0000	ng/mL	----	----	

Perchlorate

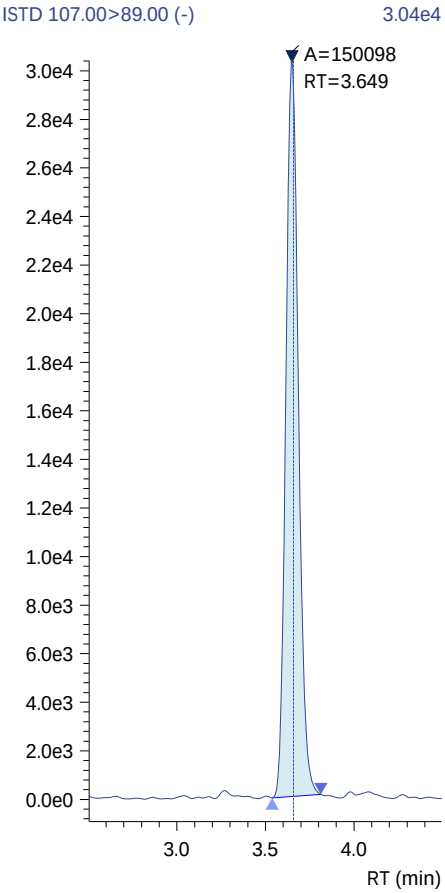
Conc 0.1164
R#1 31.22 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:48:04 AM

Method File: I:\LCMS01\DATA\20230623\20230623.lcm
Project File: I:\LCMS01\DATA\20230623\20230623.damlp

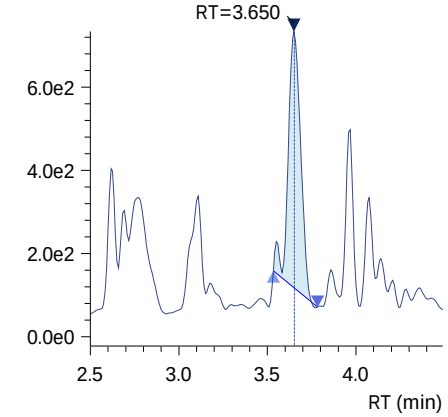
PERCHLORATE1

Sample ID: PERCHLORATE1
Date Acquired: 6/23/2023 2:23:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

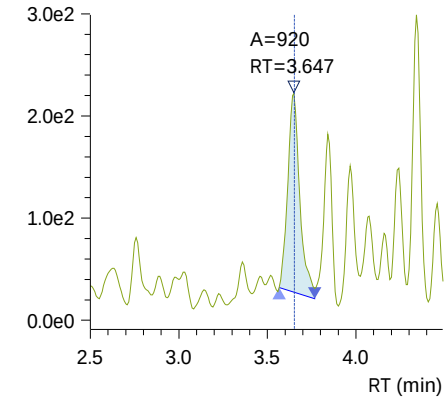
Perchlorate

Conc 0.1244
R#1 30.91 (35.79)

Q 99.00>83.00 (-) A=2976 RT=3.650 7.34e2



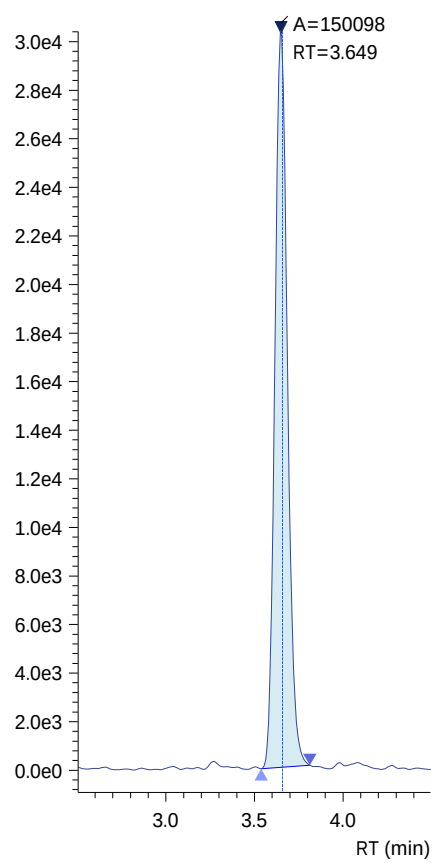
R1 101.00>85.00 (-) 2.99e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.04e4



Insight Report

Printed at 6/26/2023 9:45:37 AM

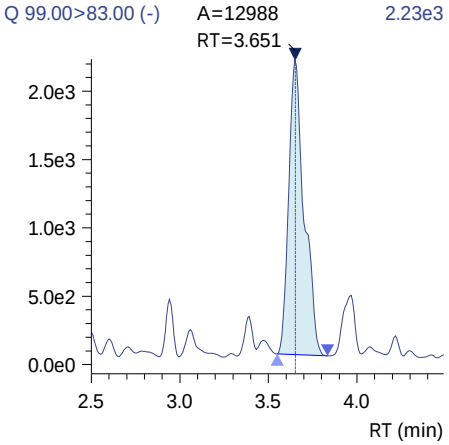
PERCHLORATE2

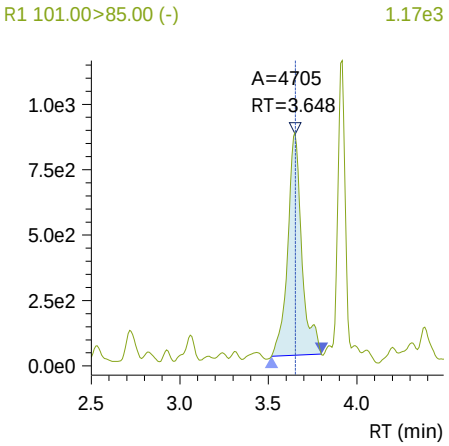
Sample ID: PERCHLORATE2
Date Acquired: 6/23/2023 2:28:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.651	12988	146157	0.5627	ng/mL	101.00 >85.00	36.23	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.648	1461 57	146157	1.0000	ng/mL	----	----	

Perchlorate

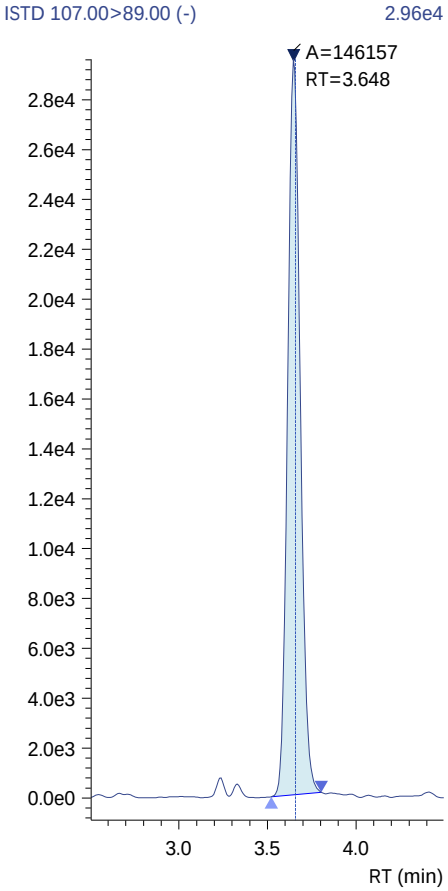
Conc 0.5627
R#1 36.23 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

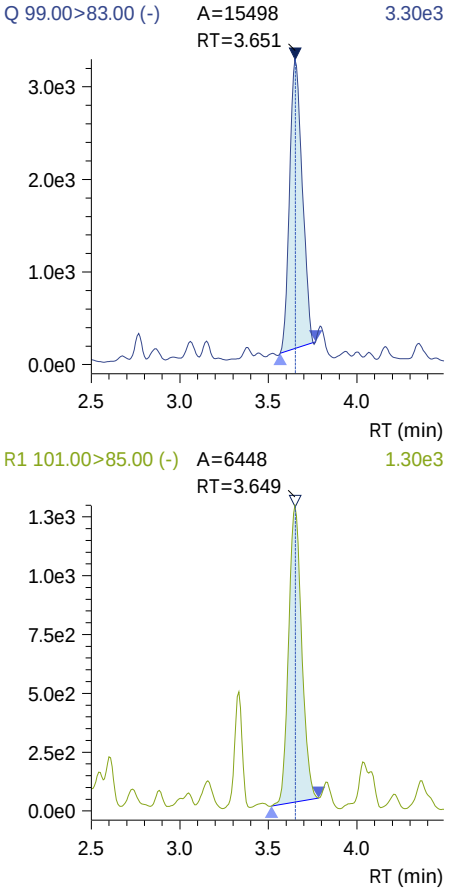
PERCHLORATE3

Sample ID: PERCHLORATE3
Date Acquired: 6/23/2023 2:34:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-004.lcd
Vial: 3 | 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	Auto	3.651	15498	153437	0.6397	ng/mL	101.00 >85.00	41.61	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.648	1534 37	153437	1.0000	ng/mL	----	----	

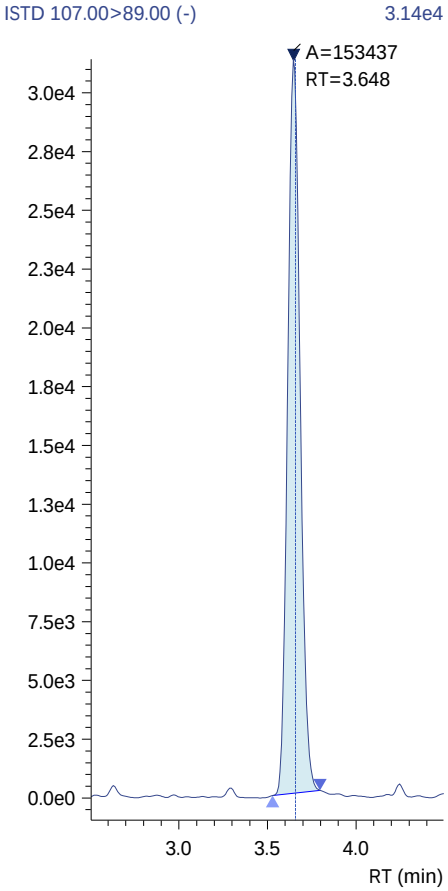
Perchlorate

Conc 0.6397
R#1 41.61 (35.79)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

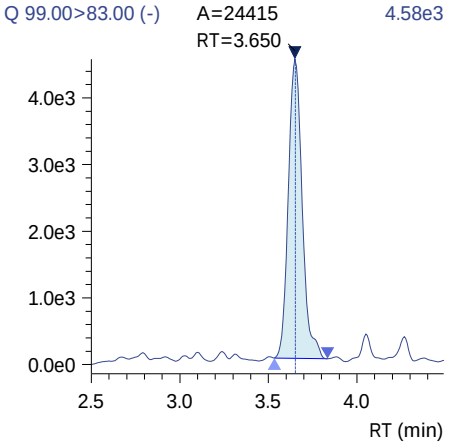
PERCHLORATE4

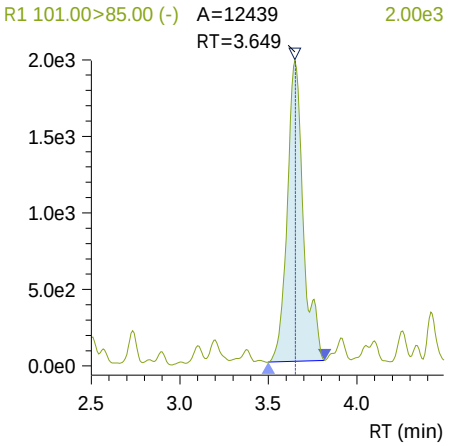
Sample ID: PERCHLORATE4
Date Acquired: 6/23/2023 2:39:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.650	24415	158135	0.9778	ng/mL	101.00 >85.00	50.95	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.647	1581 35	158135	1.0000	ng/mL	----	----	

Perchlorate

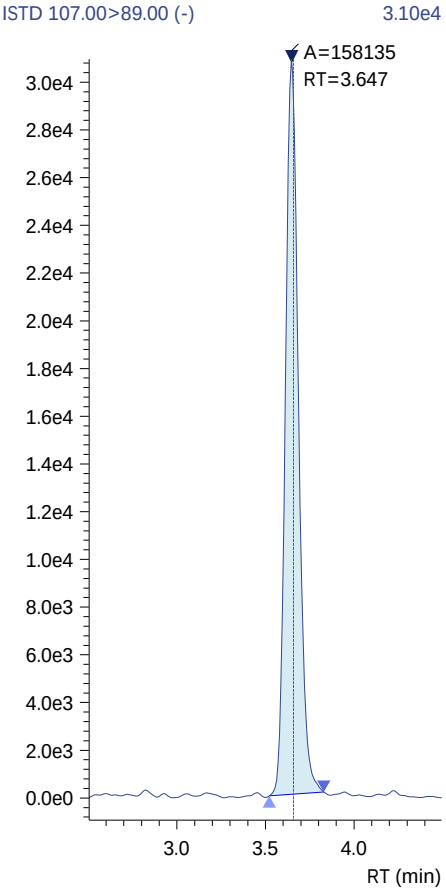
Conc 0.9778
R#1 50.95 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

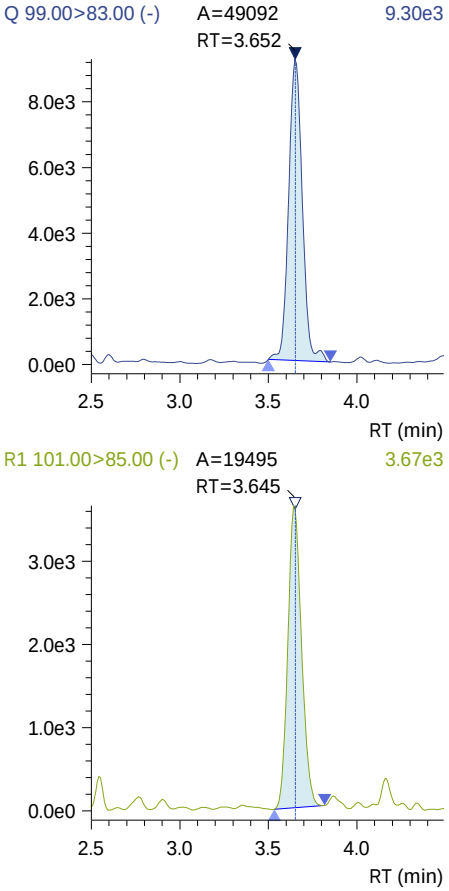
PERCHLORATE5

Sample ID: PERCHLORATE5
Date Acquired: 6/23/2023 2:45:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-006.lcd
Vial: 5 | 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	Auto	3.652	49092	154771	2.0088	ng/mL	101.00 >85.00	39.71	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.647	1547 71	154771	1.0000	ng/mL	----	----	

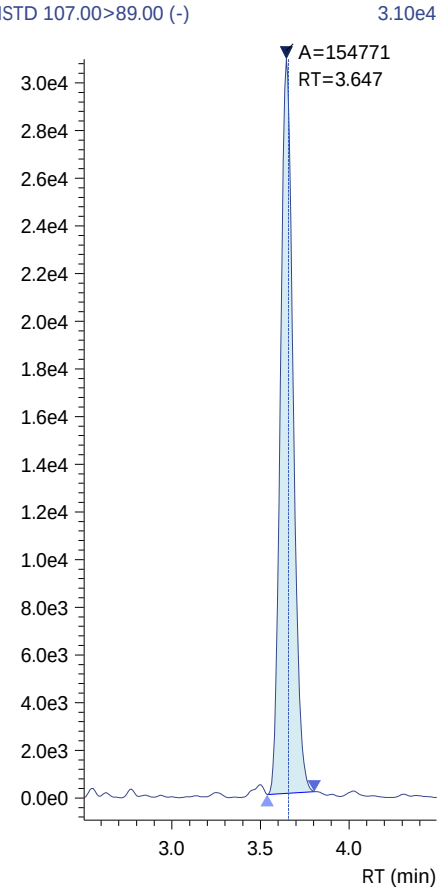
Perchlorate

Conc 2.0088
R#1 39.71 (35.79)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

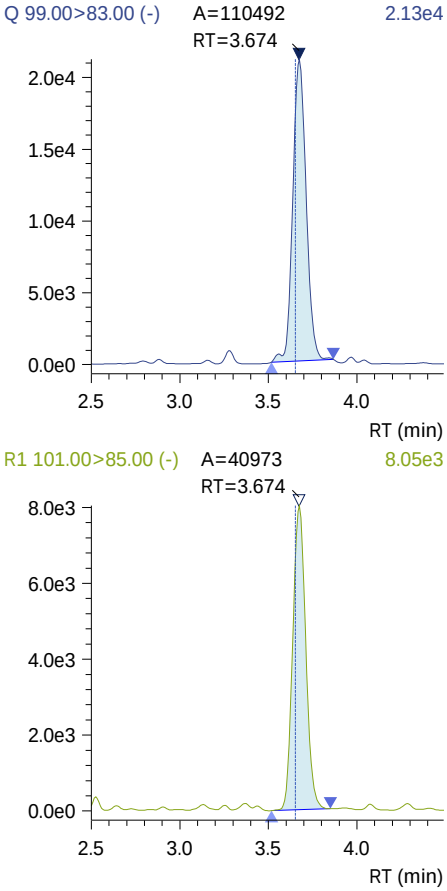
PERCHLORATE6

Sample ID: PERCHLORATE6
Date Acquired: 6/23/2023 2:50:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-007.lcd
Vial: 6 | 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	Auto	3.674	110492	145205	4.8190	ng/mL	101.00 >85.00	37.08	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.670	145205	145205	1.0000	ng/mL	----	----	

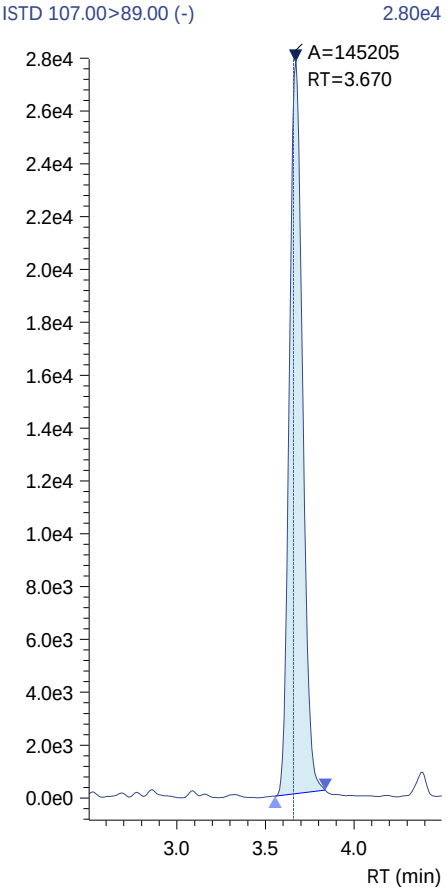
Perchlorate

Conc 4.8190
R#1 37.08 (35.79)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

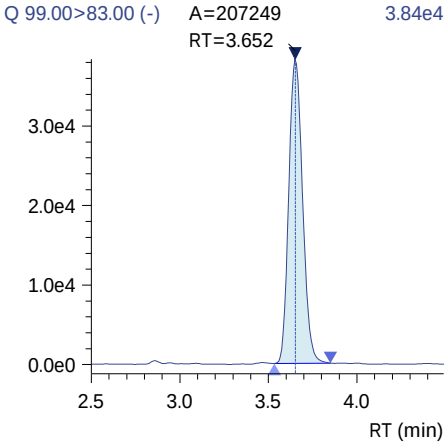
PERCHLORATE7

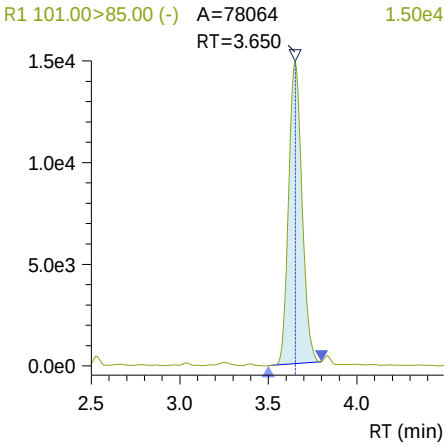
Sample ID: PERCHLORATE7
Date Acquired: 6/23/2023 2:56:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.652	207249	136114	9.6427	ng/mL	101.00 >85.00	37.67	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.648	136114	136114	1.0000	ng/mL	----	----	

Perchlorate

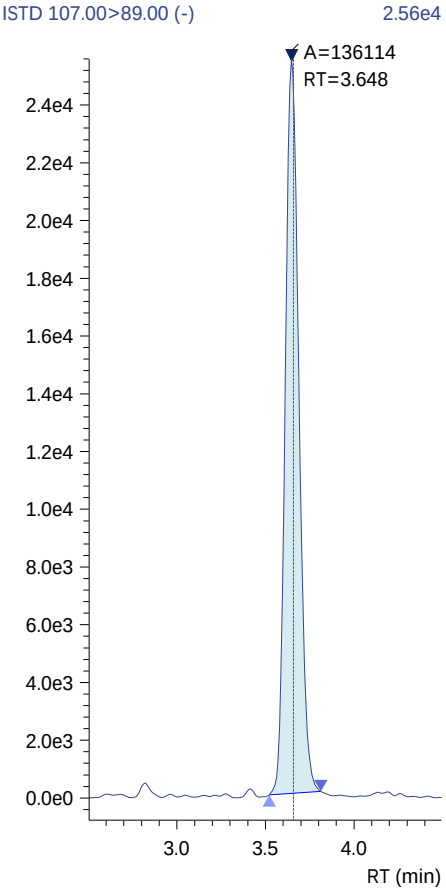
Conc 9.6427
R#1 37.67 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

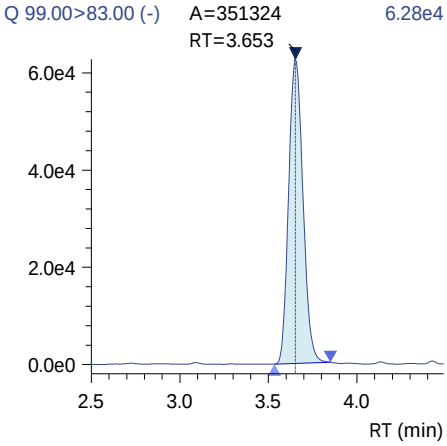
PERCHLORATE8

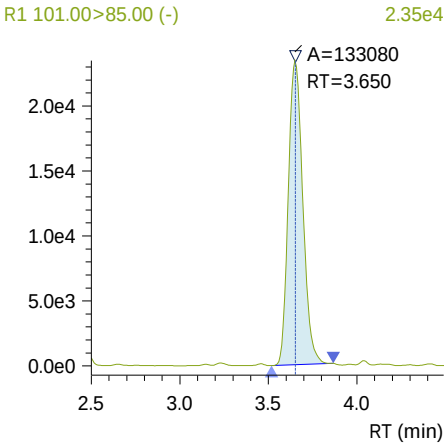
Sample ID: PERCHLORATE8
Date Acquired: 6/23/2023 3:01:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.653	351324	114068	19.5054	ng/mL	101.00 >85.00	37.88	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.647	114068	114068	1.0000	ng/mL	----	----	

Perchlorate

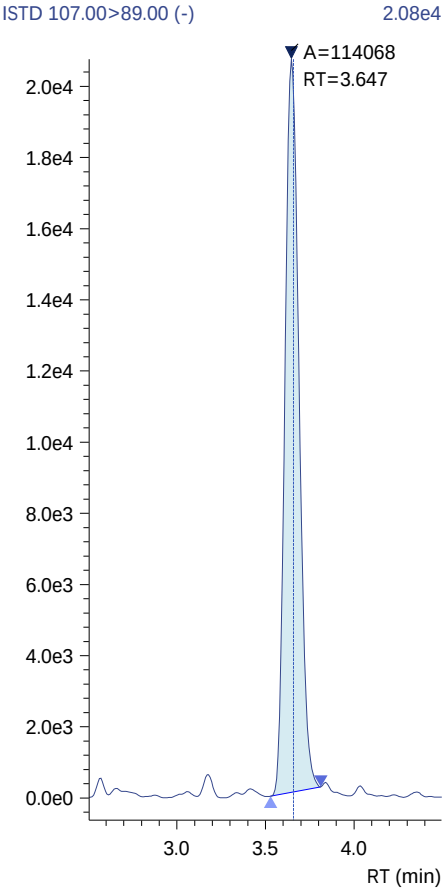
Conc 19.5054
R#1 37.88 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

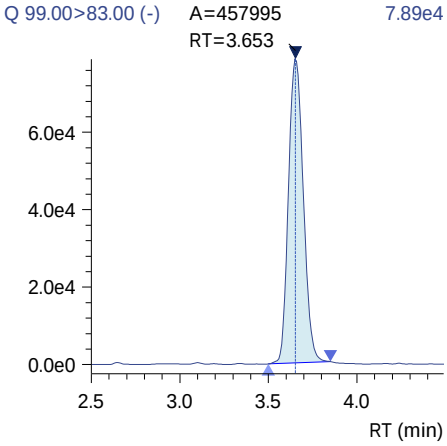
PERCHLORATE9

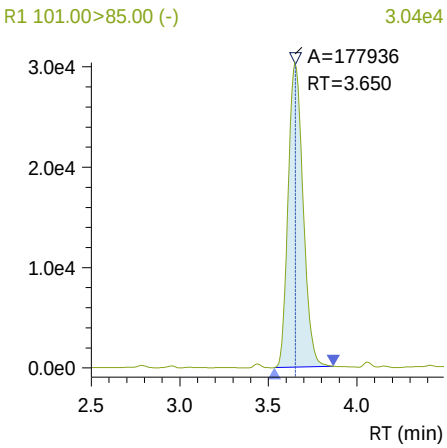
Sample ID: PERCHLORATE9
Date Acquired: 6/23/2023 3:07:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.653	457995	103207	28.1035	ng/mL	101.00 >85.00	38.85	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.650	103207	103207	1.0000	ng/mL	----	----	

Perchlorate

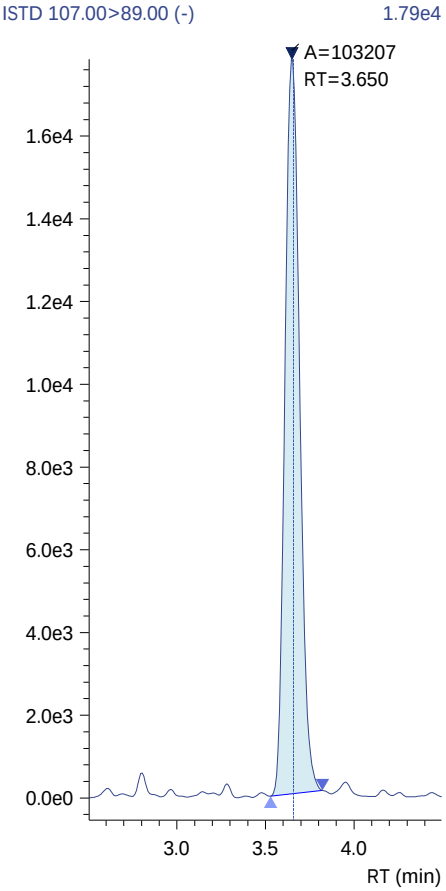
Conc 28.1035
R#1 38.85 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

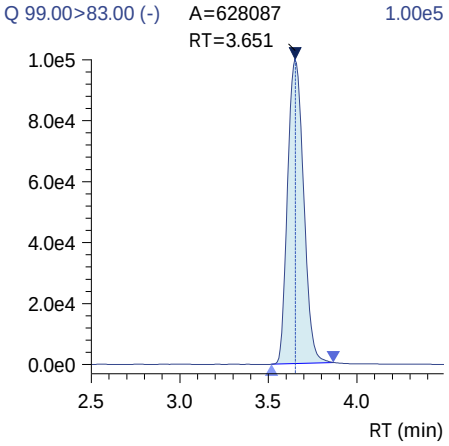
PERCHLORATE10

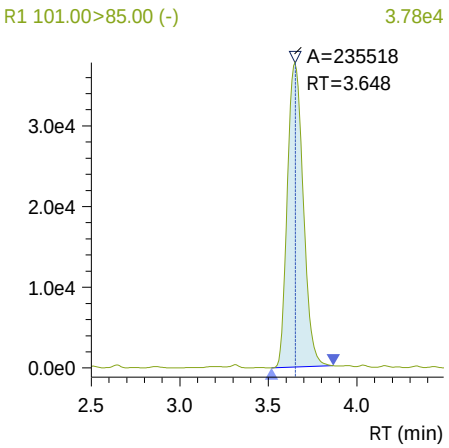
Sample ID: PERCHLORATE10
Date Acquired: 6/23/2023 3:13:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.651	6280 87	81644	48.71 99	ng/mL	101.00 >85.00	37.50	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.645	81644	81644	1.0000	ng/mL	----	----	

Perchlorate

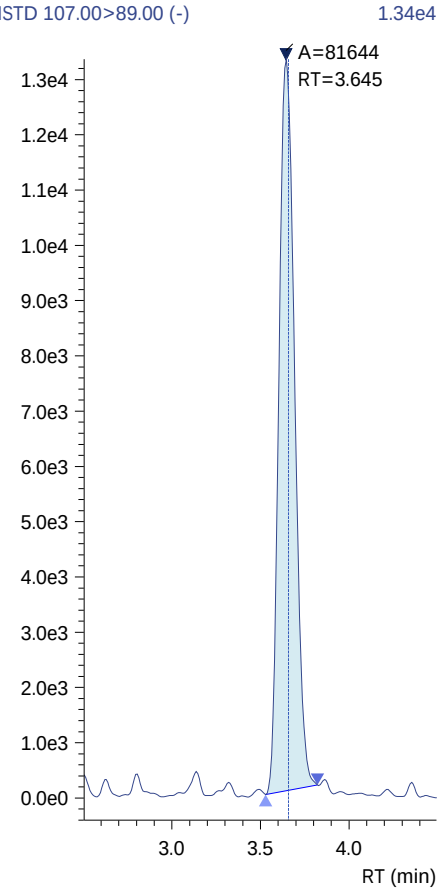
Conc 48.7199
R#1 37.50 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

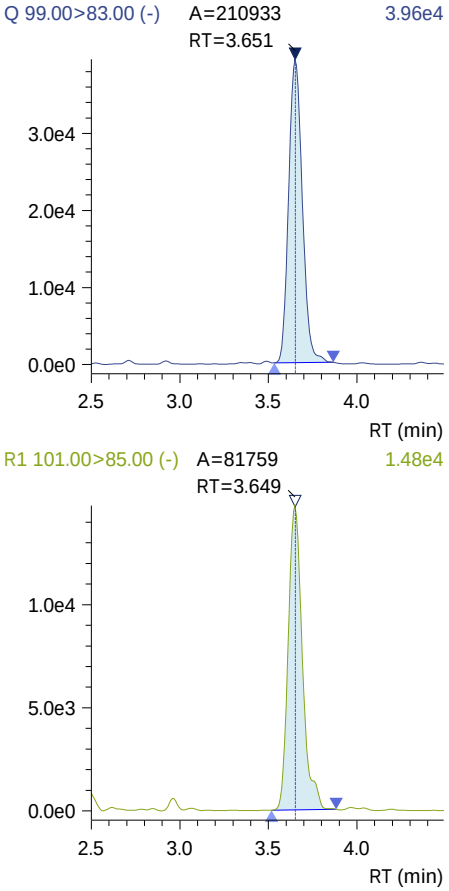
PERCHLORATEICV

Sample ID: PERCHLORATEICV
Date Acquired: 6/23/2023 3:18:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-012.lcd
Vial: 11 | 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	Auto	3.651	210933	138145	9.6698	ng/mL	101.00 >85.00	38.76	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.646	138145	138145	1.0000	ng/mL	----	----	

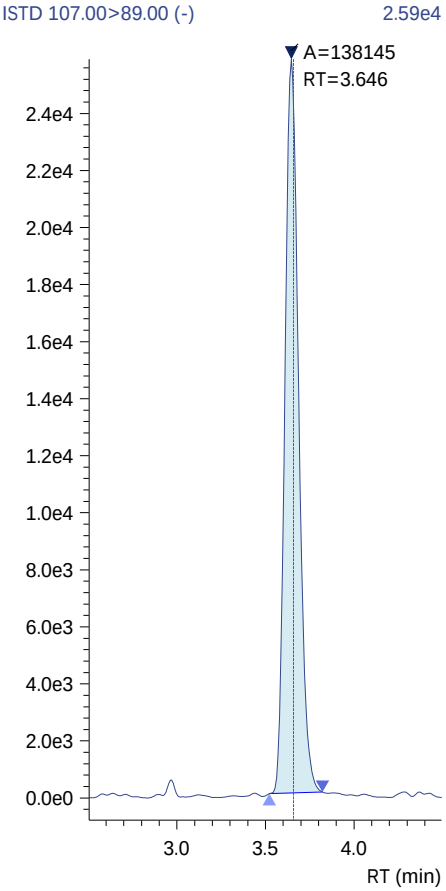
Perchlorate

Conc 9.6698
R#1 38.76 (35.79)



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

20230626-808705

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/23/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300010

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	LODV		20230626-001	Perchlorate6850c.lcm	1x	DNU-RR	6/26/2023 8:48
2	LODV		20230626-002	Perchlorate6850c.lcm	1x	227501	6/26/2023 9:03
3	ICS		20230626-003	Perchlorate6850c.lcm	1x	32103024	6/26/2023 9:11
4	CCV		20230626-004	Perchlorate6850c.lcm	1x	227251	6/26/2023 9:16
5	E2300549-002		20230626-005	Perchlorate6850c.lcm	1x		6/26/2023 9:33
6	K2306921-001		20230626-006	Perchlorate6850c.lcm	1x		6/26/2023 9:38
7	K2306921-003		20230626-007	Perchlorate6850c.lcm	1x		6/26/2023 9:44
8	EQ2300303-01		20230626-008	Perchlorate6850c.lcm	1x		6/26/2023 9:50
9	EQ2300303-02		20230626-009	Perchlorate6850c.lcm	1x	DNU-RR	6/26/2023 9:55
10	EQ2300303-03		20230626-010	Perchlorate6850c.lcm	1x		6/26/2023 10:01
11	EQ2300301-04		20230626-011	Perchlorate6850c.lcm	1x		6/26/2023 10:06
12	EQ2300301-05		20230626-012	Perchlorate6850c.lcm	1x		6/26/2023 10:39
13	E2300570-001		20230626-013	Perchlorate6850c.lcm	5x		6/26/2023 10:45
14	E2300570-002		20230626-014	Perchlorate6850c.lcm	1x	32103024	6/26/2023 10:50
15	CCV		20230626-015	Perchlorate6850c.lcm	1x	227251	6/26/2023 10:56
16	E2300570-003		20230626-016	Perchlorate6850c.lcm	5000x		6/26/2023 11:01
17	E2300570-004		20230626-017	Perchlorate6850c.lcm	5000x		6/26/2023 11:07
18	E2300570-005		20230626-018	Perchlorate6850c.lcm	1x		6/26/2023 11:12
19	E2300570-006		20230626-019	Perchlorate6850c.lcm	1x		6/26/2023 11:18
20	E2300570-007		20230626-020	Perchlorate6850c.lcm	1000x		6/26/2023 11:23
21	E2300571-001		20230626-021	Perchlorate6850c.lcm	1x		6/26/2023 11:29
22	E2300571-002		20230626-022	Perchlorate6850c.lcm	1x		6/26/2023 11:35
23	E2300571-003		20230626-023	Perchlorate6850c.lcm	1x		6/26/2023 11:40
24	E2300571-004		20230626-024	Perchlorate6850c.lcm	1000x		6/26/2023 11:46
25	E2300571-005		20230626-025	Perchlorate6850c.lcm	1x		6/26/2023 11:51
26	CCV		20230626-026	Perchlorate6850c.lcm	1x	227251	6/26/2023 11:57
27	E2300571-006		20230626-027	Perchlorate6850c.lcm	1x		6/26/2023 12:02
28	E2300571-007		20230626-028	Perchlorate6850c.lcm	500x		6/26/2023 12:08
29	E2300571-008		20230626-029	Perchlorate6850c.lcm	1x	DNU-RR	6/26/2023 12:13
30	E2300571-009		20230626-030	Perchlorate6850c.lcm	1x	DNU-RR	6/26/2023 12:19
31	R2305214-008		20230626-031	Perchlorate6850c.lcm	1x		6/26/2023 12:24
32	R2305402-005		20230626-032	Perchlorate6850c.lcm	1x		6/26/2023 12:30
33	R2305457-006		20230626-033	Perchlorate6850c.lcm	1x		6/26/2023 12:35
34	E2300589-001		20230626-034	Perchlorate6850c.lcm	1x		6/26/2023 12:41
35	EQ2300307-01		20230626-035	Perchlorate6850c.lcm	1x		6/26/2023 12:52
36	CCV		20230626-036	Perchlorate6850c.lcm	1x	227251	6/26/2023 12:58
37	EQ2300307-02		20230626-037	Perchlorate6850c.lcm	1x		6/26/2023 13:07

20230626-808705

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/23/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300010

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
38	EQ2300307-03		20230626-038	Perchlorate6850c.lcm	1x		6/26/2023 13:12
39	E2300575-001		20230626-039	Perchlorate6850c.lcm	1x		6/26/2023 13:18
40	E2300575-002		20230626-040	Perchlorate6850c.lcm	1x		6/26/2023 13:24
41	E2300575-003		20230626-041	Perchlorate6850c.lcm	1x		6/26/2023 13:29
42	E2300575-004		20230626-042	Perchlorate6850c.lcm	1x		6/26/2023 13:35
43	E2300575-005		20230626-043	Perchlorate6850c.lcm	1x		6/26/2023 13:40
44	E2300575-006		20230626-044	Perchlorate6850c.lcm	1x		6/26/2023 13:46
45	E2300587-001		20230626-045	Perchlorate6850c.lcm	1x		6/26/2023 13:51
46	E2300587-002		20230626-046	Perchlorate6850c.lcm	1x		6/26/2023 13:57
47	CCV		20230626-047	Perchlorate6850c.lcm	1x	227251	6/26/2023 14:02
48	E2300587-003		20230626-048	Perchlorate6850c.lcm	1x		6/26/2023 14:08
49	E2300587-004		20230626-049	Perchlorate6850c.lcm	1x		6/26/2023 14:13
50	E2300587-005		20230626-050	Perchlorate6850c.lcm	5000x		6/26/2023 14:19
51	E2300587-006		20230626-051	Perchlorate6850c.lcm	1x		6/26/2023 14:25
52	E2300587-007		20230626-052	Perchlorate6850c.lcm	1x		6/26/2023 14:30
53	E2300587-008		20230626-053	Perchlorate6850c.lcm	1x		6/26/2023 14:36
54	E2300587-009		20230626-054	Perchlorate6850c.lcm	1x		6/26/2023 14:41
55	E2300587-010		20230626-055	Perchlorate6850c.lcm	1x		6/26/2023 14:47
56	E2300571-008		20230626-056	Perchlorate6850c.lcm	1x		6/26/2023 14:52
57	E2300571-009		20230626-057	Perchlorate6850c.lcm	1x		6/26/2023 14:58
58	CCV		20230626-058	Perchlorate6850c.lcm	1x	227251	6/26/2023 15:03
59	EQ2300303-02		20230626-059	Perchlorate6850c.lcm	1x		6/26/2023 15:09
60	CCV		20230626-060	Perchlorate6850c.lcm	1x	227251	6/26/2023 15:16

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300587
Project:	HS23061459	**Date Analyzed:**	6/26/23 09:16

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230626\20230626-004	**Lab Code:**	EQ2300311-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	808705
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300311-01	146,249	3.62

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:**	E2300587
Project:	HS23061459	**Date Analyzed:**	6/26/23 10:56

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230626\20230626-015	**Lab Code:**	EQ2300311-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	808705
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300311-02	148,479	3.62

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:**	E2300587
Project:	HS23061459	**Date Analyzed:**	6/26/23 11:57

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230626\20230626-026	**Lab Code:**	EQ2300311-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	808705
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300311-03	153,571	3.62
Method Blank	EQ2300307-01	189,211	3.62

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: HS23061459

Service Request: E2300587
Date Analyzed: 6/26/23 12:58

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

File ID: I:\LCMS01\DATA\20230626\20230626-036
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300311-04
Analysis Lot: 808705
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300311-04	154,111	3.62
Lab Control Sample	EQ2300307-02	193,129	3.63
Duplicate Lab Control Sample	EQ2300307-03	194,106	3.62
CO9_062023	E2300587-001	165,134	3.62
CO9_062023_a	E2300587-002	172,703	3.62

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:**	E2300587
Project:	HS23061459	**Date Analyzed:**	6/26/23 14:02

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230626\20230626-047	**Lab Code:**	EQ2300311-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	808705
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300311-05	158,132	3.62
CO6_062023	E2300587-003	189,440	3.62
18WW18_062023	E2300587-004	175,711	3.62
18WW17_062023	E2300587-005	137,748	3.62
CO3_062023	E2300587-006	126,732	3.62
1824DPTMW03	E2300587-007	192,485	3.62
18CPTMW18_062023	E2300587-008	197,159	3.62
18CPTMW01_062023	E2300587-009	191,158	3.62
1824DPTMW01_062023_a	E2300587-010	198,070	3.62

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:**	E2300587
Project:	HS23061459	**Date Analyzed:**	6/26/23 15:03

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230626\20230626-058	**Lab Code:**	EQ2300311-06
Instrument ID:	E-LCMS-01	**Analysis Lot:**	808705
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300311-06	157,388	3.62

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:**	E2300587
Project:	HS23061459	**Date Analyzed:**	6/26/23 15:16

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230626\20230626-060	**Lab Code:**	EQ2300311-07
Instrument ID:	E-LCMS-01	**Analysis Lot:**	808705
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300311-07	154,611	3.62

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: HS23061459

Service Request: E2300587
Date Analyzed: 6/26/23

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\20230626\20230626-004

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808705
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.89	0.1579	0.1561	-1.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061459

Service Request: E2300587
Date Analyzed: 6/26/23

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\20230626\20230626-015

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808705
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1579	0.1605	1.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061459

Service Request: E2300587
Date Analyzed: 6/26/23

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\20230626\20230626-026

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808705
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1579	0.1598	1.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061459

Service Request: E2300587
Date Analyzed: 6/26/23

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\20230626\20230626-036

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808705
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1579	0.1602	1.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061459

Service Request: E2300587
Date Analyzed: 6/26/23

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\20230626\20230626-047

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808705
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.91	0.1579	0.1565	-0.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061459

Service Request: E2300587
Date Analyzed: 6/26/23

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\20230626\20230626-058

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808705
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.85	0.1579	0.1555	-1.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061459

Service Request: E2300587
Date Analyzed: 6/26/23

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\20230626\20230626-060

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808705
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1579	0.1614	2.2	NA	± 15 %	Average RF

Insight Report

Printed at 6/26/2023 3:31:35 PM

Method File: I:\LCMS01\DATA\20230626\20230626.lcm
Project File: I:\LCMS01\DATA\20230626\20230626.damlp

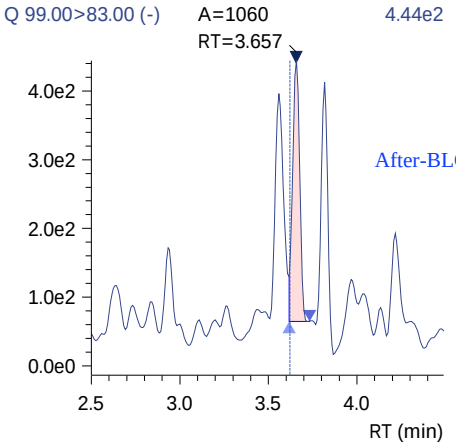
LODV

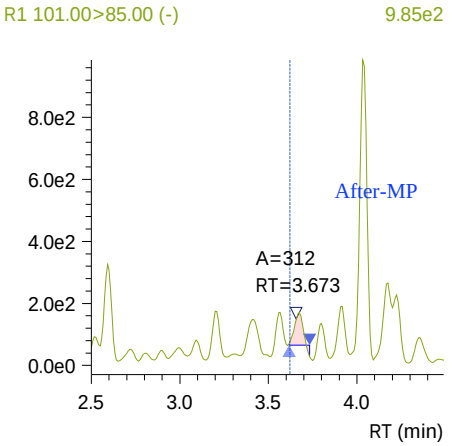
Sample ID: LODV
Date Acquired: 6/26/2023 9:03:42 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-002.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.657	1060	153861	0.0436	ng/mL	101.00 >85.00	29.45	22.93-42.59
Sodium Perchlorate-18O4 _IS	Auto	3.636	1538 61	153861	1.0000	ng/mL	----	----	

Perchlorate

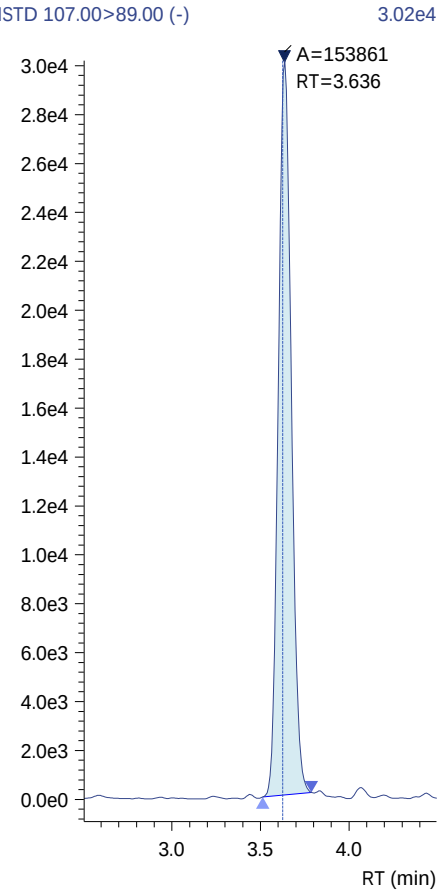
Conc 0.0436
R#1 29.45 (32.76)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 3:35:16 PM

Method File: I:\LCMS01\DATA\20230626\20230626.lcm
Project File: I:\LCMS01\DATA\20230626\20230626.damlp

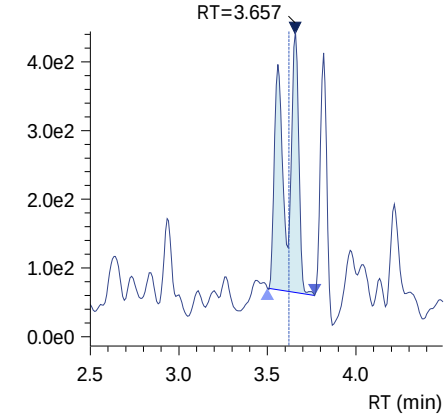
LODV

Sample ID: LODV
Date Acquired: 6/26/2023 9:03:42 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-002.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

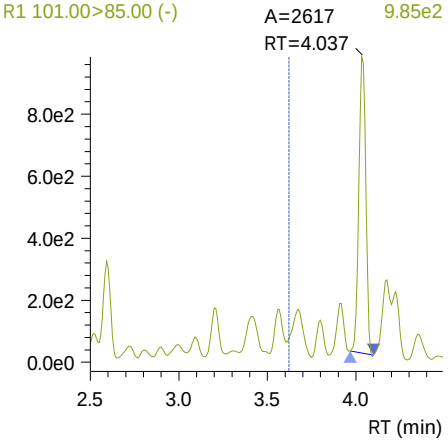
Perchlorate

Conc 0.0879
R#1 0.00 (32.76)

Q 99.00>83.00 (-) A=2155 4.44e2



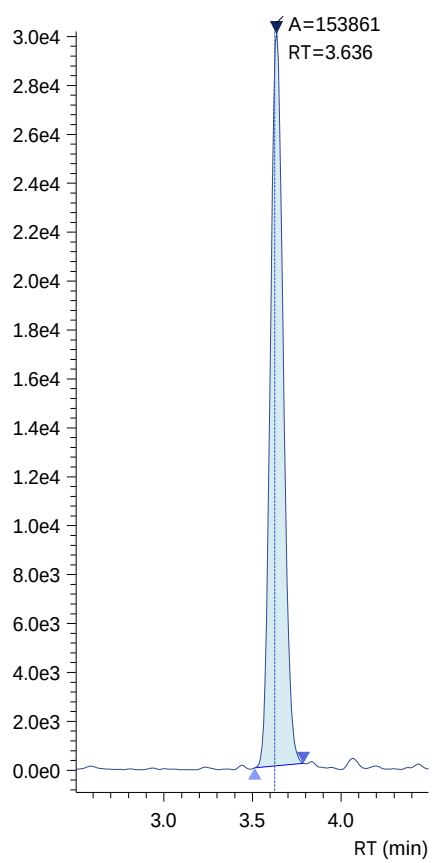
R1 101.00>85.00 (-) A=2617 9.85e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.02e4



Insight Report

Printed at 6/26/2023 3:31:35 PM

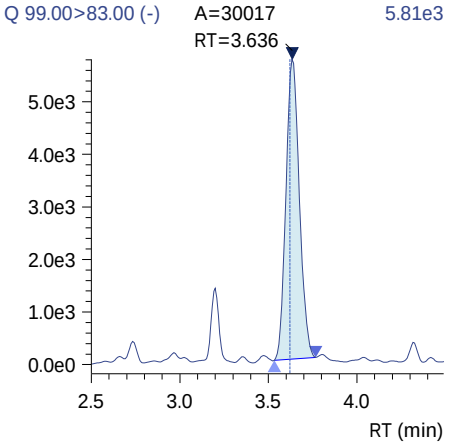
ICS

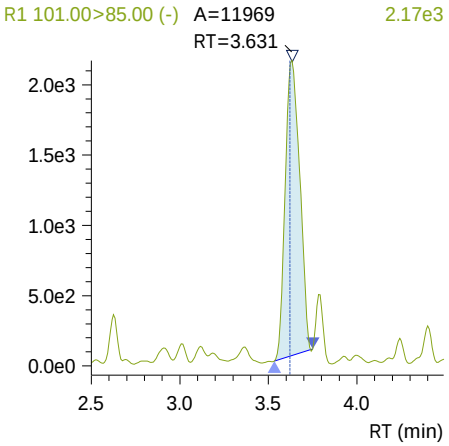
Sample ID: ICS
Date Acquired: 6/26/2023 9:11:15 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.636	30017	177905	1.0685	ng/mL	101.00 >85.00	39.88	22.93-42.59
Sodium Perchlorate-18O4 _IS	Auto	3.632	177905	177905	1.0000	ng/mL	----	----	

Perchlorate

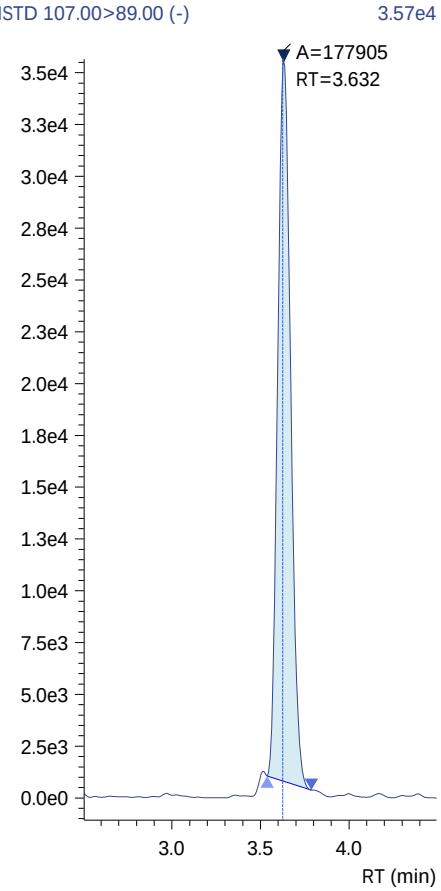
Conc 1.0685
R#1 39.88 (32.76)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 3:31:35 PM

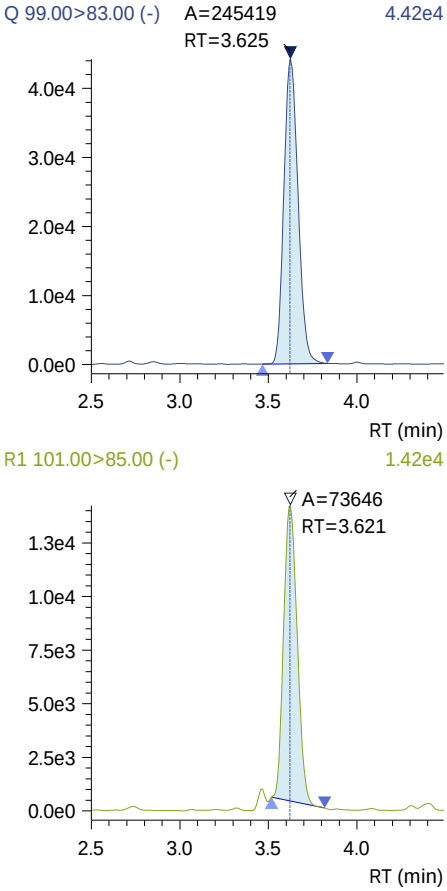
CCV

Sample ID: CCV
Date Acquired: 6/26/2023 11:57:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-026.lcd
Vial: 7 | 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	Auto	3.625	245419	153571	10.1207	ng/mL	101.00 >85.00	30.01	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.621	153571	153571	1.0000	ng/mL	----	----	

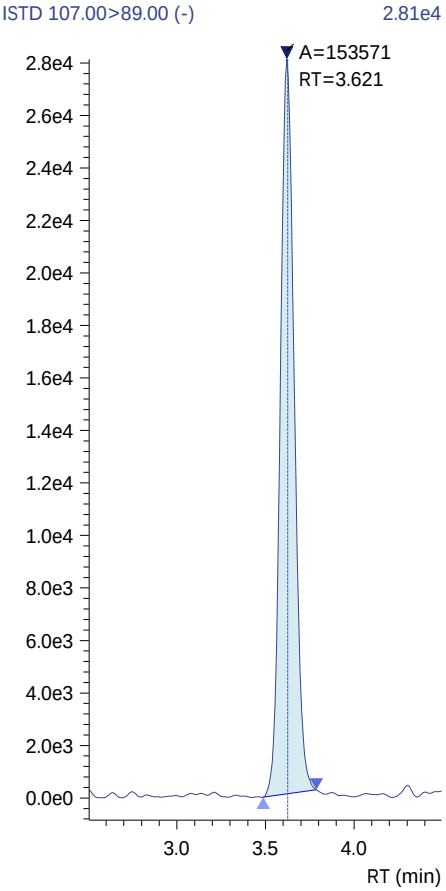
Perchlorate

Conc 10.1207
R#1 30.01 (32.76)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 3:31:35 PM

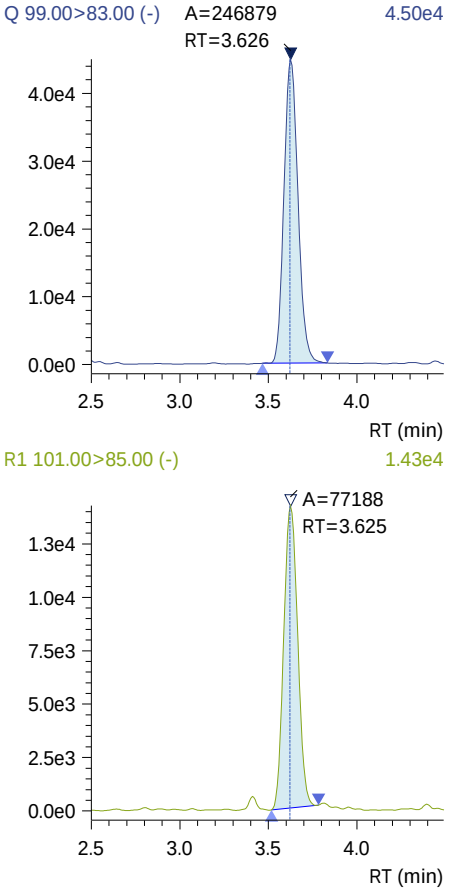
CCV

Sample ID: CCV
Date Acquired: 6/26/2023 12:58:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-036.lcd
Vial: 7 | 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	Auto	3.626	246879	154111	10.1452	ng/mL	101.00 >85.00	31.27	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.620	154111	154111	1.0000	ng/mL	----	----	

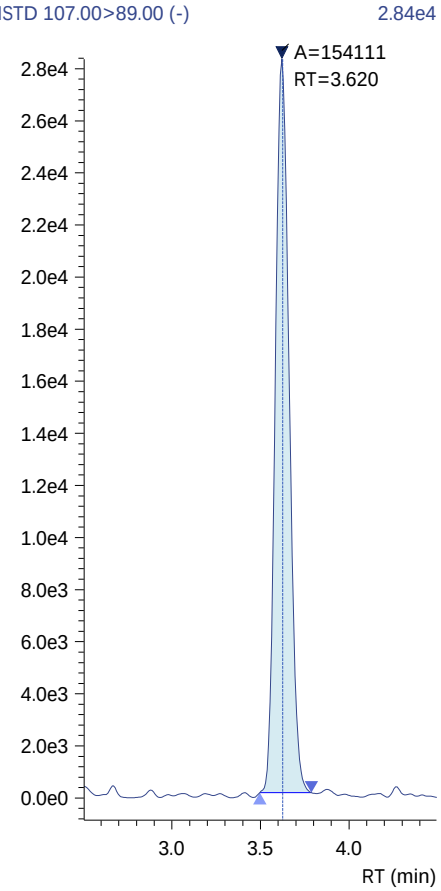
Perchlorate

Conc 10.1452
R#1 31.27 (32.76)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 3:31:35 PM

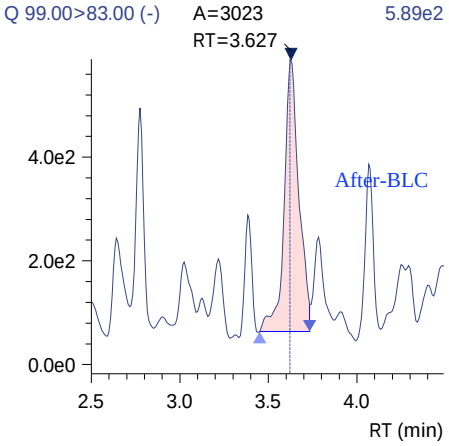
EQ2300307-02

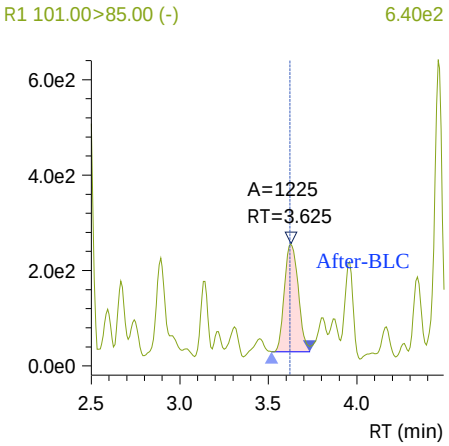
Sample ID: EQ2300307-02
Date Acquired: 6/26/2023 1:07:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-037.lcd
Vial: 35 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.627	3023	193129	0.0991	ng/mL	101.00 >85.00	40.51	22.93-42.59
Sodium Perchlorate-18O4 _IS	Auto	3.625	1931 29	193129	1.0000	ng/mL	----	----	

Perchlorate

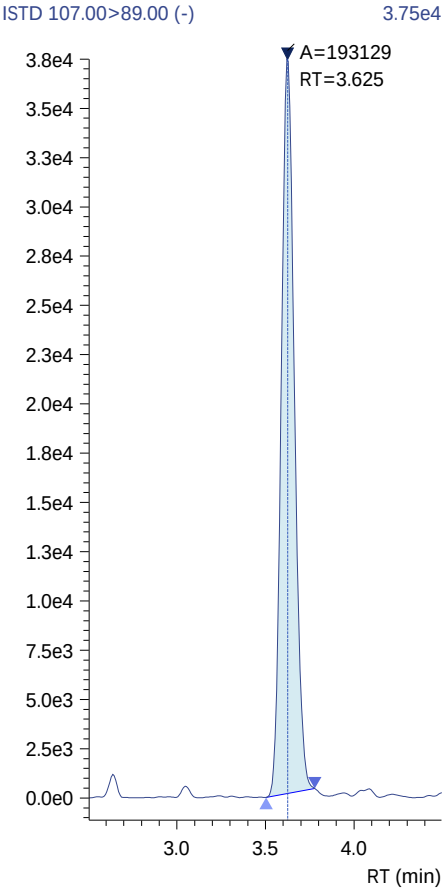
Conc 0.0991
R#1 40.51 (32.76)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

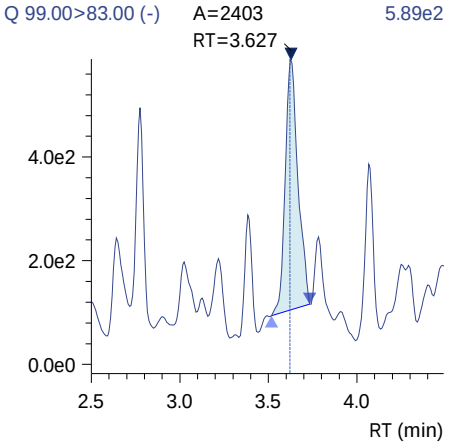
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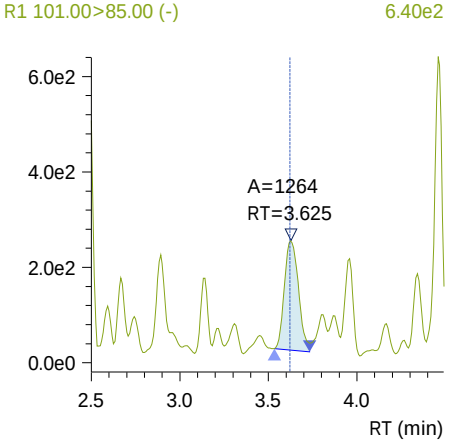
EQ2300307-02

Sample ID: EQ2300307-02
Date Acquired: 6/26/2023 1:07:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-037.lcd
Vial: 35 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

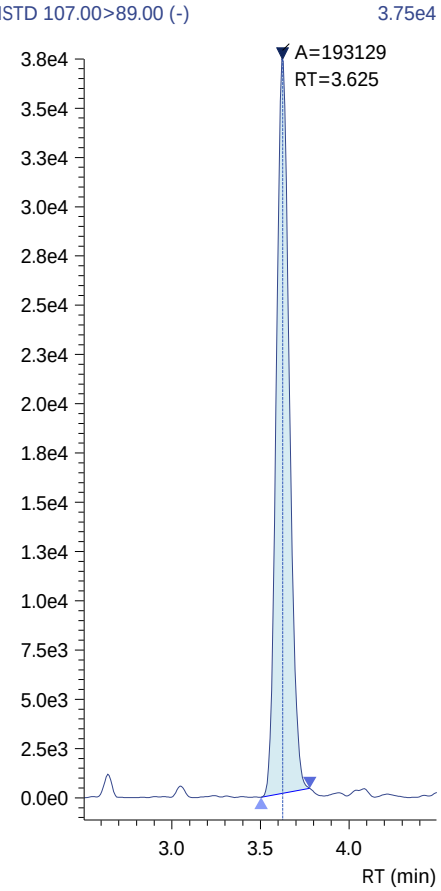
Conc 0.0781
R#1 52.62 (32.76)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 3:31:35 PM

EQ2300307-03

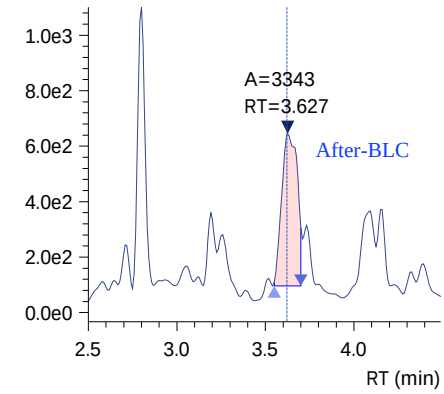
Sample ID: EQ2300307-03
Date Acquired: 6/26/2023 1:12:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-038.lcd
Vial: 36 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.627	3343	194106	0.1091	ng/mL	101.00 >85.00	29.82	22.93-42.59
Sodium Perchlorate-18O4 _IS	Auto	3.622	194106	194106	1.0000	ng/mL	----	----	

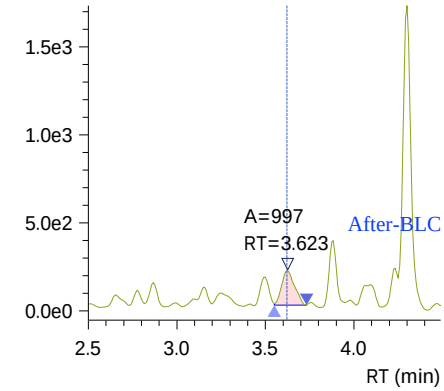
Perchlorate

Conc 0.1091
R#1 29.82 (32.76)

Q 99.00>83.00 (-) 1.10e3



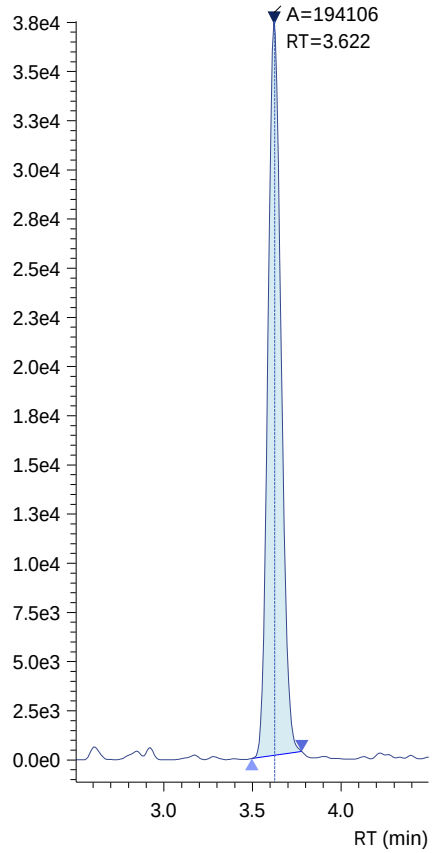
R1 101.00>85.00 (-) 1.73e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.76e4



Insight Report

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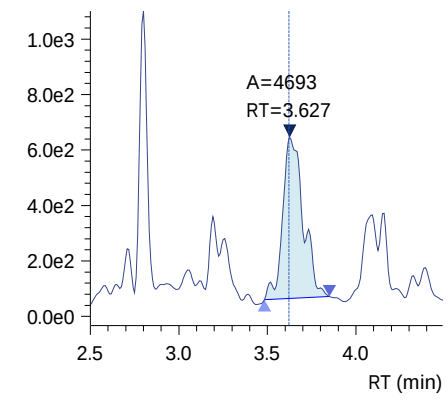
EQ2300307-03

Sample ID: EQ2300307-03
Date Acquired: 6/26/2023 1:12:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-038.lcd
Vial: 36 | Inj. Volume: 10.0000uL | Tray: 4

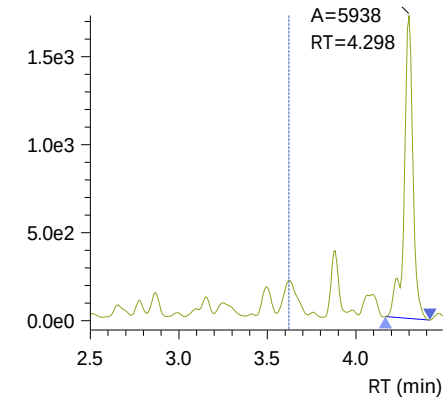
Perchlorate

Conc 0.1517
R#1 0.00 (32.76)

Q 99.00>83.00 (-) 1.10e3



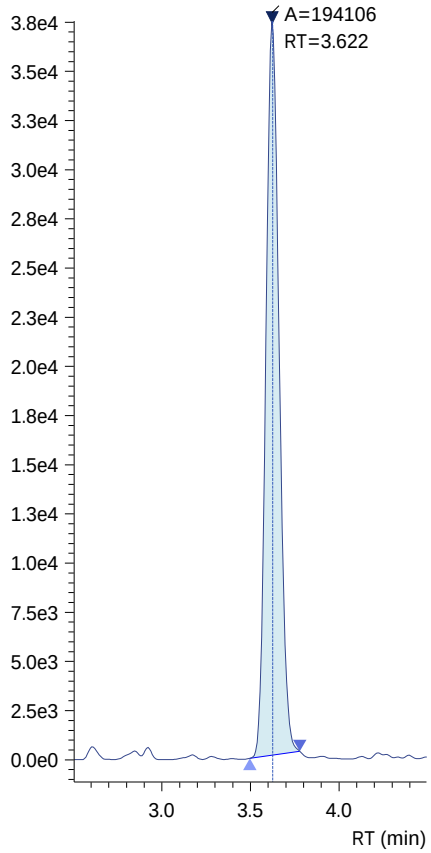
R1 101.00>85.00 (-) 1.73e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.76e4



Insight Report

Printed at 6/26/2023 3:31:35 PM

EQ2300307-01

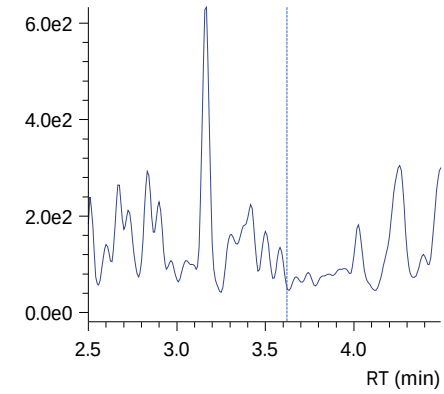
Sample ID: EQ2300307-01
Date Acquired: 6/26/2023 12:52:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-035.lcd
Vial: 34 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	189211	----	ng/mL	101.00 >85.00	0.00	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.622	189211	189211	1.0000	ng/mL	----	----	

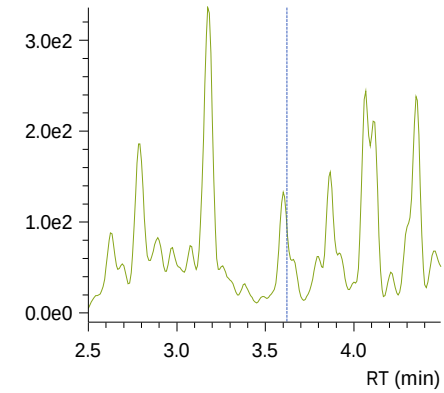
Perchlorate

Conc ----
R#1 0.00 (32.76)

Q 99.00>83.00 (-) 6.33e2



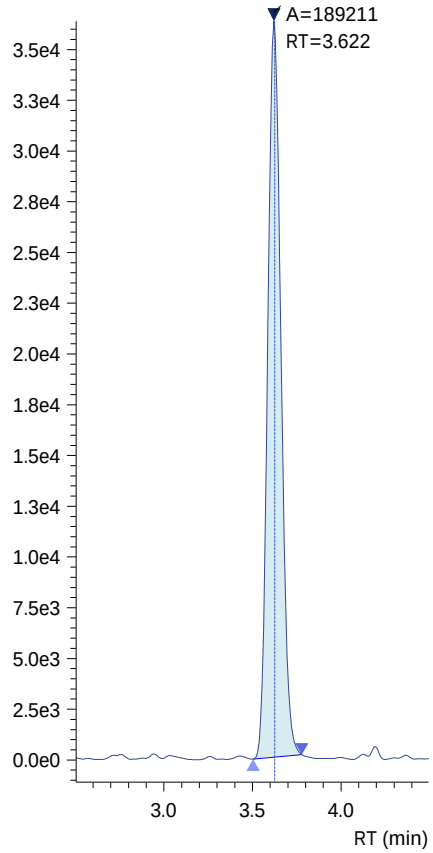
R1 101.00>85.00 (-) 3.36e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.64e4



Insight Report

Printed at 6/26/2023 3:31:35 PM

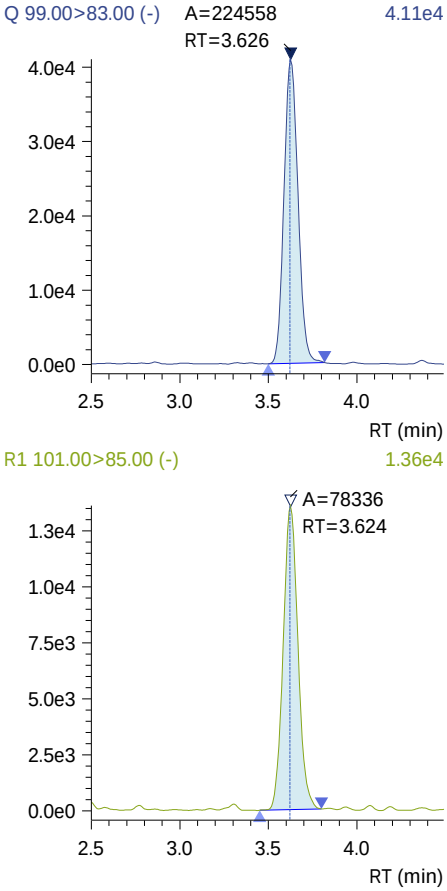
E2300587-001

Sample ID: E2300587-001
Date Acquired: 6/26/2023 1:51:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-045.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.626	224558	165134	8.6120	ng/mL	101.00 >85.00	34.89	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.622	165134	165134	1.0000	ng/mL	----	----	

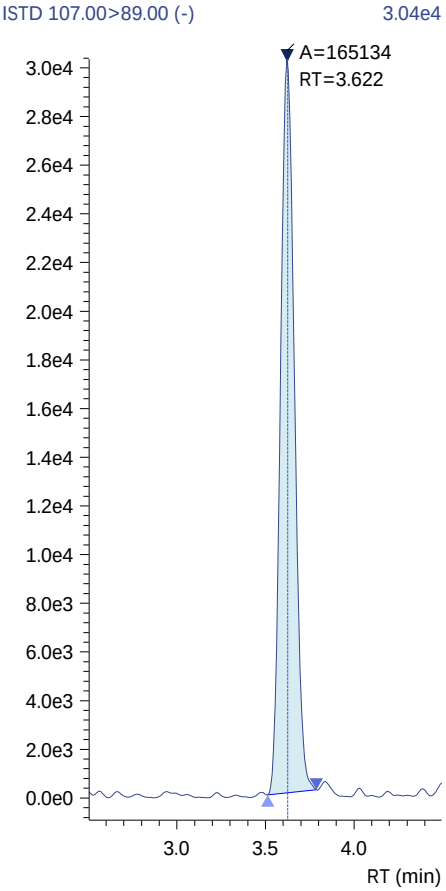
Perchlorate

Conc 8.6120
R#1 34.89 (32.76)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 3:31:35 PM

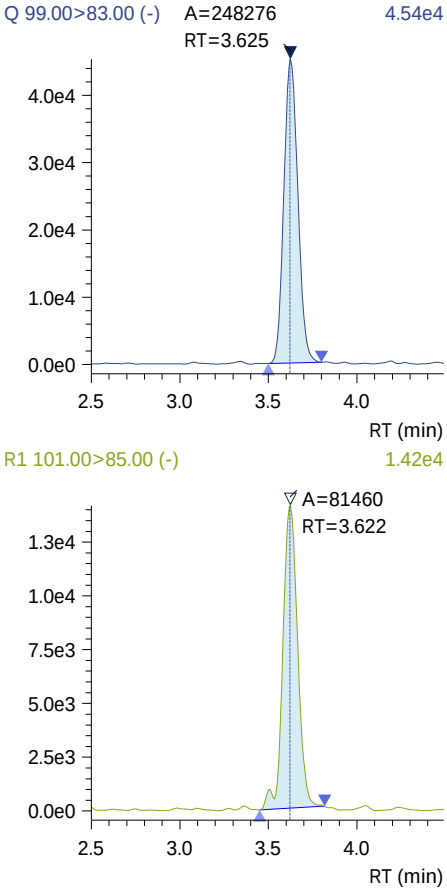
E2300587-002

Sample ID: E2300587-002
Date Acquired: 6/26/2023 1:57:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-046.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.625	248276	172703	9.1042	ng/mL	101.00 >85.00	32.81	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.621	172703	172703	1.0000	ng/mL	----	----	

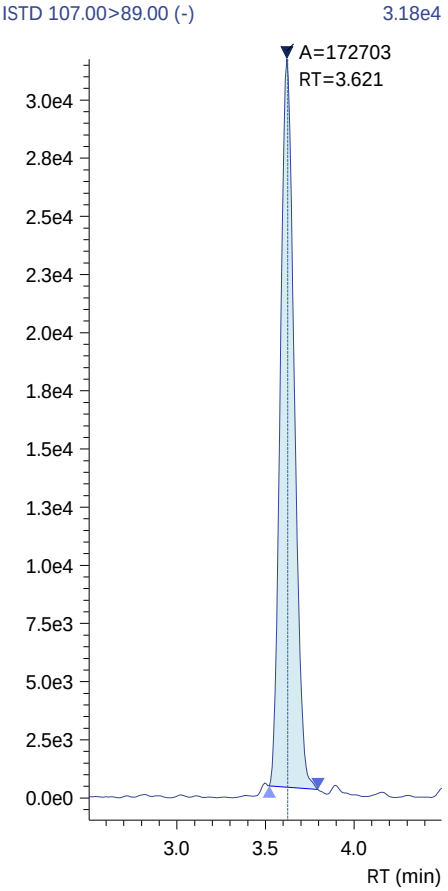
Perchlorate

Conc 9.1042
R#1 32.81 (32.76)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 3:31:35 PM

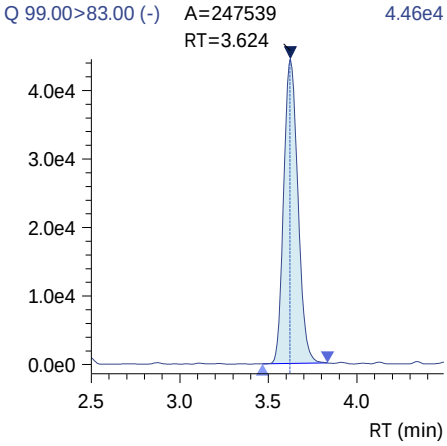
CCV

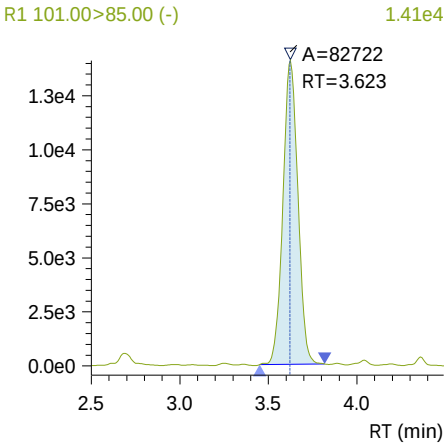
Sample ID: CCV
Date Acquired: 6/26/2023 2:02:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-047.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.624	247539	158132	9.9137	ng/mL	101.00 >85.00	33.42	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.621	158132	158132	1.0000	ng/mL	----	----	

Perchlorate

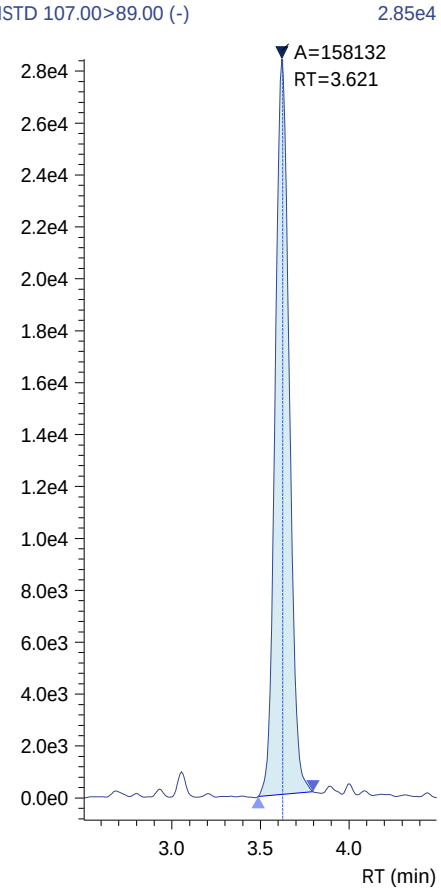
Conc 9.9137
R#1 33.42 (32.76)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 3:31:35 PM

E2300587-003

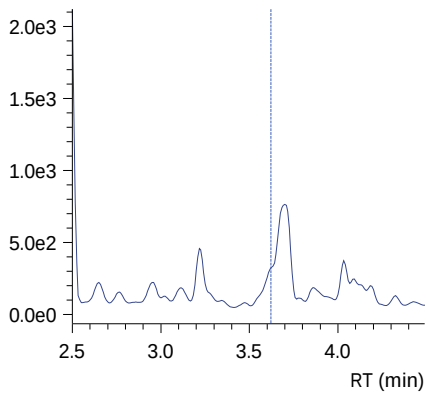
Sample ID: E2300587-003
Date Acquired: 6/26/2023 2:08:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-048.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	189440	----	ng/mL	101.00 >85.00	0.00	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.622	189440	189440	1.0000	ng/mL	----	----	

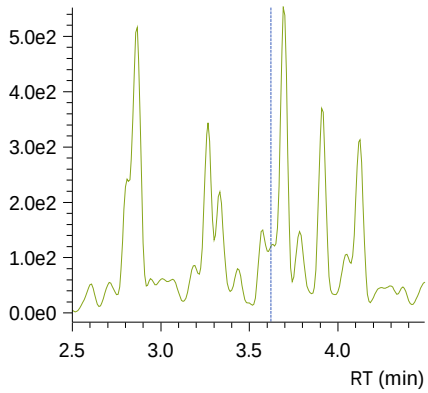
Perchlorate

Conc ----
R#1 0.00 (32.76)

Q 99.00>83.00 (-) 2.12e3



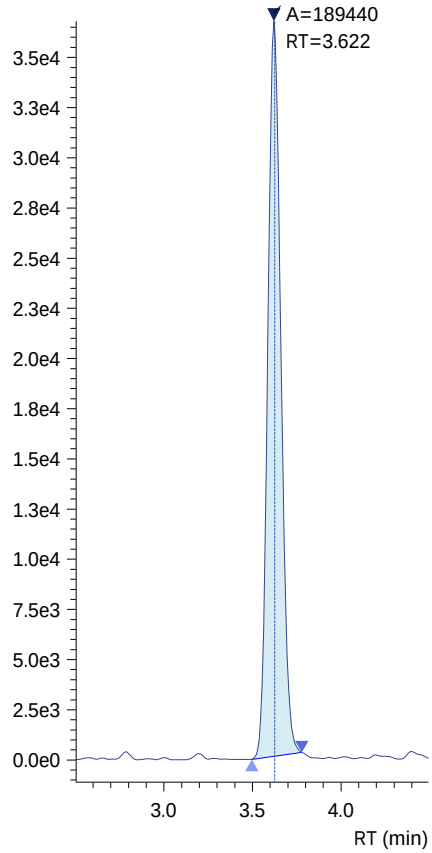
R1 101.00>85.00 (-) 5.52e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.68e4



Insight Report

Printed at 6/26/2023 3:31:35 PM

E2300587-004

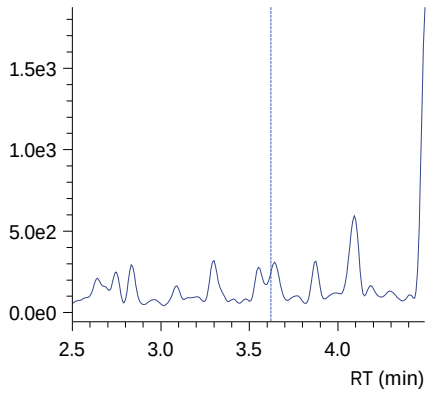
Sample ID: E2300587-004
Date Acquired: 6/26/2023 2:13:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-049.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	175711	----	ng/mL	101.00 >85.00	0.00	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.622	175711	175711	1.0000	ng/mL	----	----	

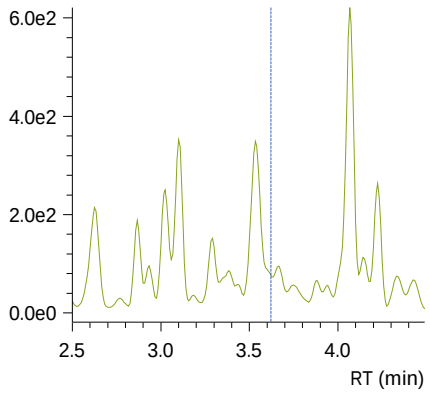
Perchlorate

Conc ----
R#1 0.00 (32.76)

Q 99.00>83.00 (-) 1.88e3



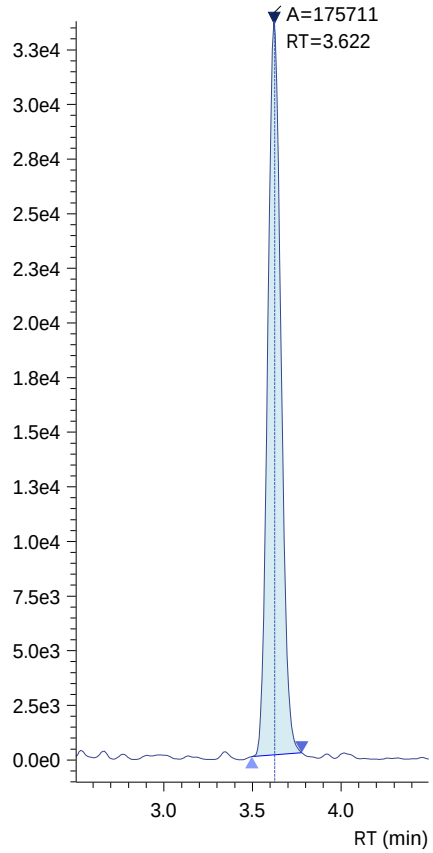
R1 101.00>85.00 (-) 6.21e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.38e4



Insight Report

Printed at 6/26/2023 3:31:35 PM

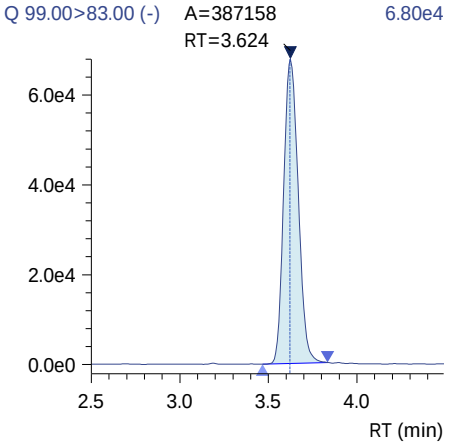
E2300587-005x5k

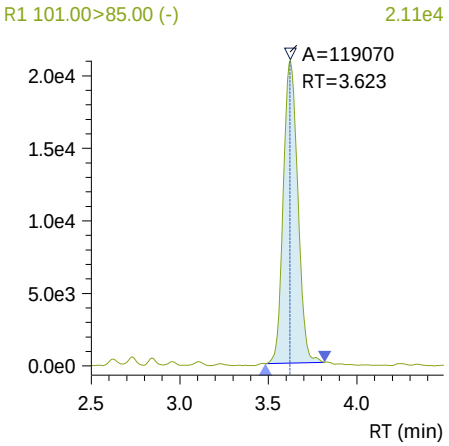
Sample ID: E2300587-005
Date Acquired: 6/26/2023 2:19:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-050.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.624	387158	137748	17.7997	ng/mL	101.00 >85.00	30.76	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.621	137748	137748	1.0000	ng/mL	----	----	

Perchlorate

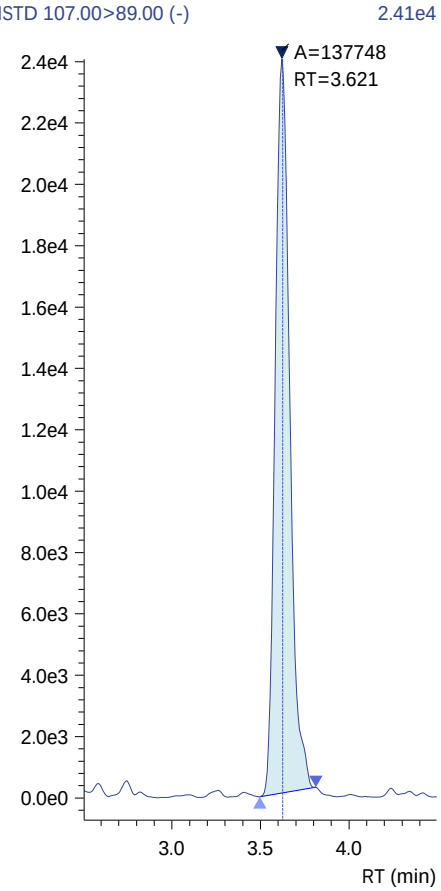
Conc 17.7997
R#1 30.76 (32.76)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 3:31:35 PM

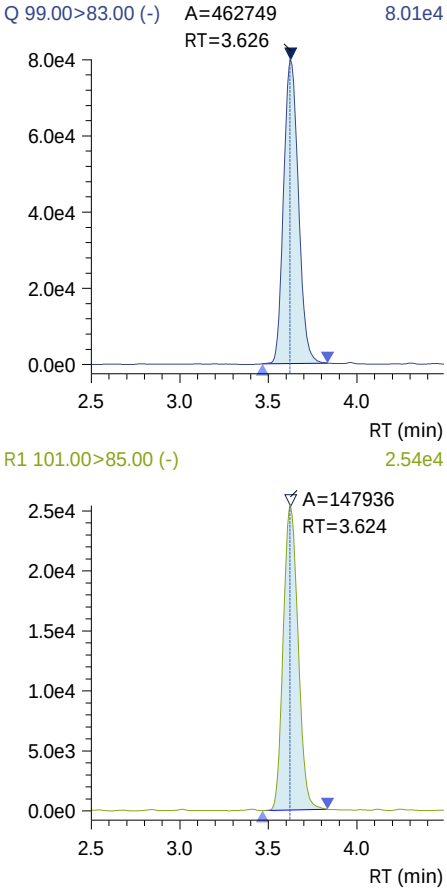
E2300587-006

Sample ID: E2300587-006
Date Acquired: 6/26/2023 2:25:01 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-051.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.626	462749	126732	23.1243	ng/mL	101.00 >85.00	31.97	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.620	126732	126732	1.0000	ng/mL	----	----	

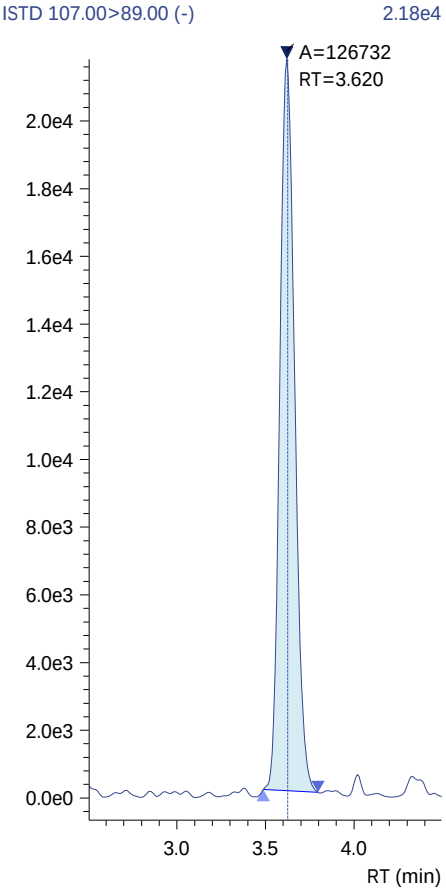
Perchlorate

Conc 23.1243
R#1 31.97 (32.76)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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E2300587-007

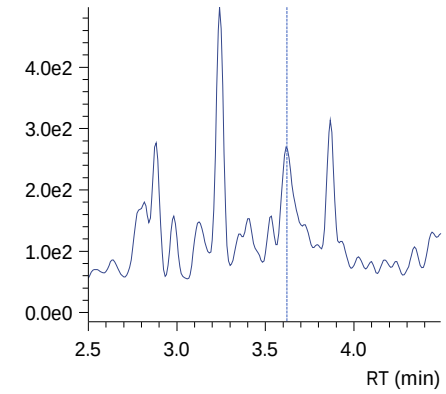
Sample ID: E2300587-007
Date Acquired: 6/26/2023 2:30:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-052.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	192485	----	ng/mL	101.00 >85.00	0.00	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.622	192485	192485	1.0000	ng/mL	----	----	

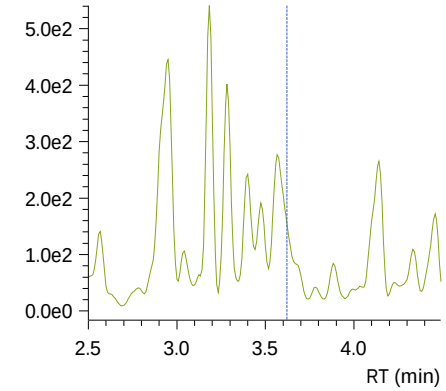
Perchlorate

Conc ----
R#1 0.00 (32.76)

Q 99.00>83.00 (-) 4.98e2



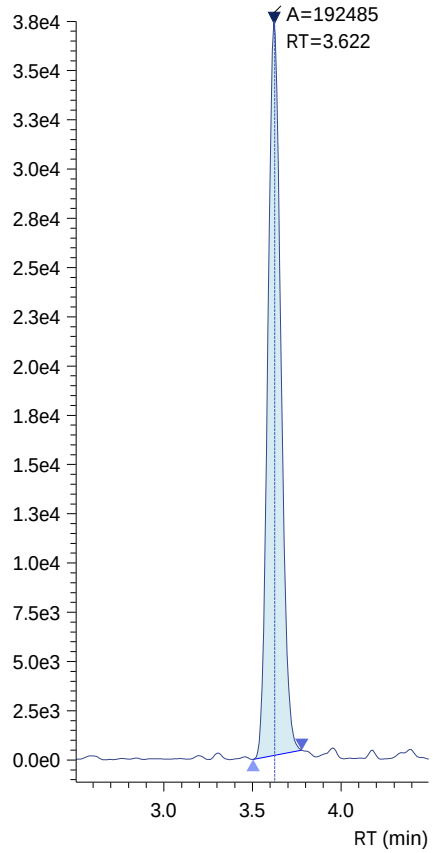
R1 101.00>85.00 (-) 5.41e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.75e4



Insight Report

Printed at 6/26/2023 3:31:35 PM

E2300587-008

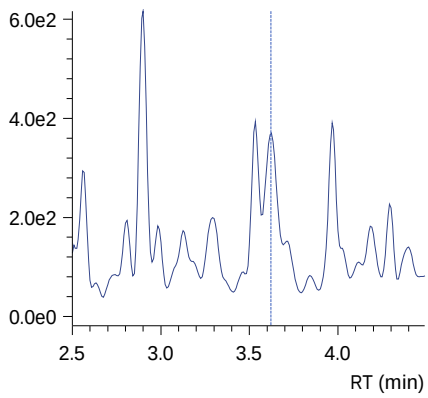
Sample ID: E2300587-008
Date Acquired: 6/26/2023 2:36:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-053.lcd
Vial: 17 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	197159	----	ng/mL	101.00 >85.00	0.00	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.622	197159	197159	1.0000	ng/mL	----	----	

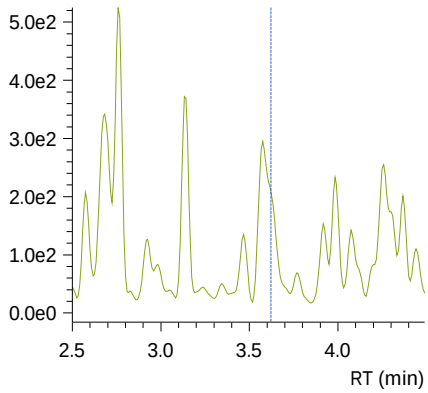
Perchlorate

Conc ----
R#1 0.00 (32.76)

Q 99.00>83.00 (-) 6.16e2



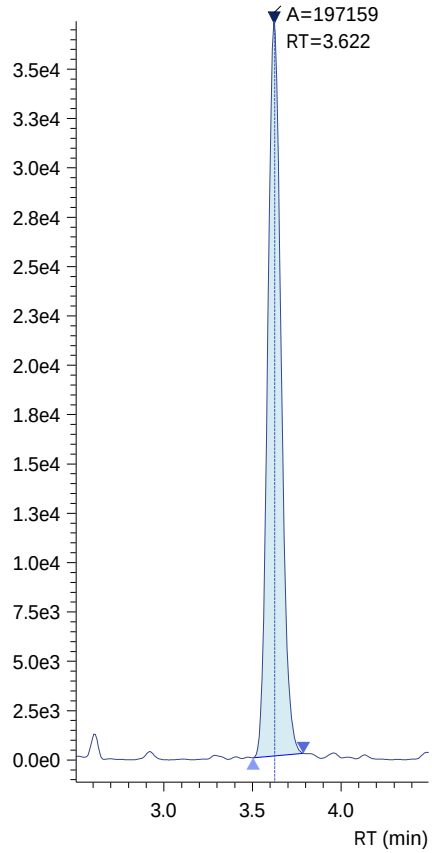
R1 101.00>85.00 (-) 5.25e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.74e4



Insight Report

Printed at 6/26/2023 3:31:35 PM

E2300587-009

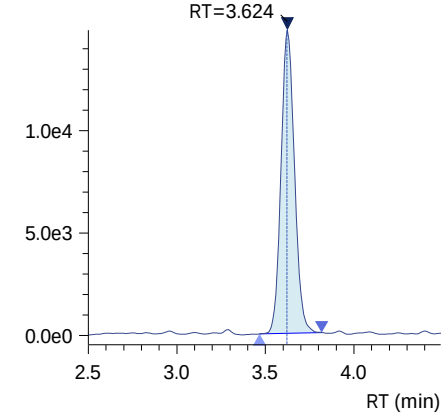
Sample ID: E2300587-009
Date Acquired: 6/26/2023 2:41:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-054.lcd
Vial: 18 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.624	78108	191158	2.5877	ng/mL	101.00 >85.00	34.00	22.93-42.59
Sodium Perchlorate-18O4 _IS	Auto	3.622	1911 58	191158	1.0000	ng/mL	----	----	

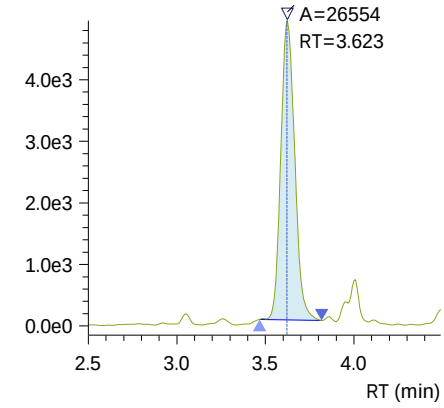
Perchlorate

Conc 2.5877
R#1 34.00 (32.76)

Q 99.00>83.00 (-) A=78108 RT=3.624 1.49e4



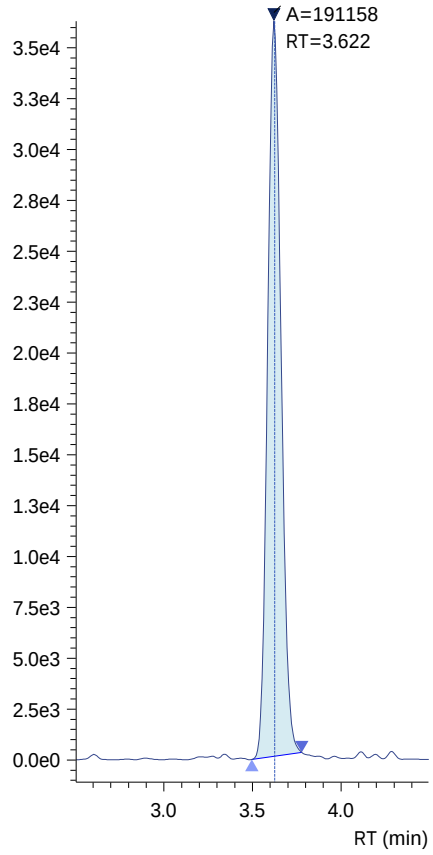
R1 101.00>85.00 (-) 4.96e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.63e4



Insight Report

Printed at 6/26/2023 3:31:35 PM

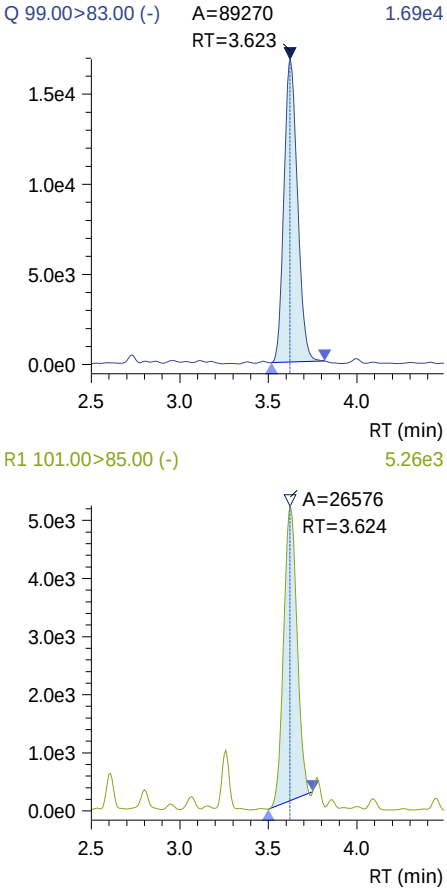
E2300587-010

Sample ID: E2300587-010
Date Acquired: 6/26/2023 2:47:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-055.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.623	89270	198070	2.8543	ng/mL	101.00 >85.00	29.77	22.93-42.59
Sodium Perchlorate-18O4 _IS	Auto	3.621	1980 70	198070	1.0000	ng/mL	----	----	

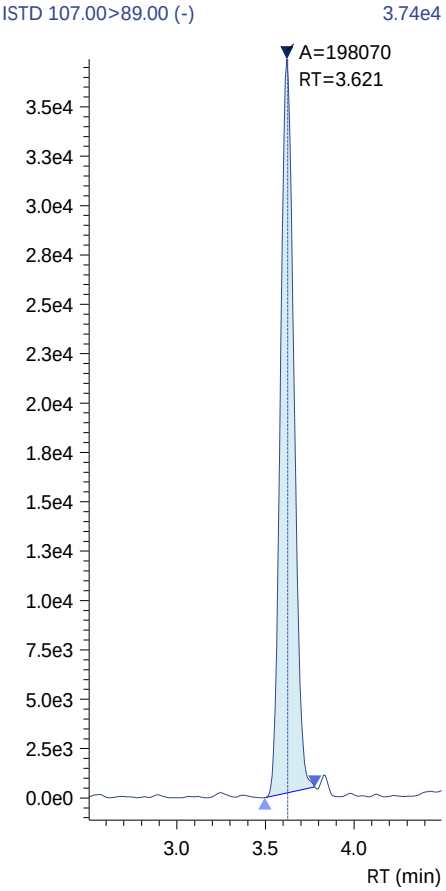
Perchlorate

Conc 2.8543
R#1 29.77 (32.76)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

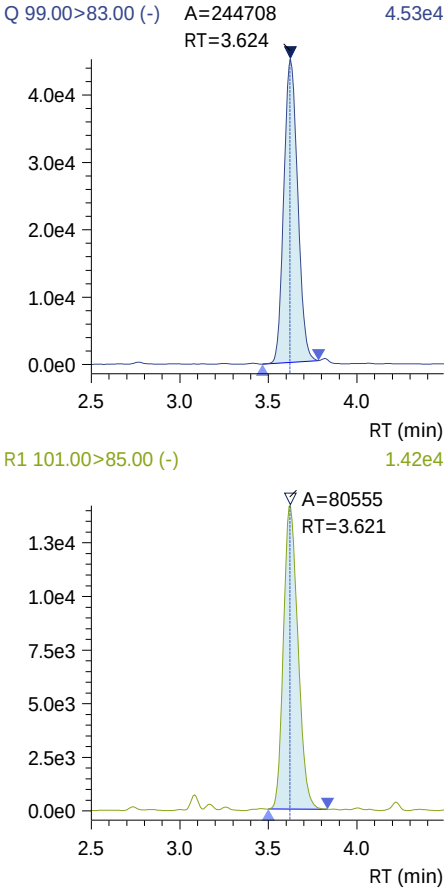
CCV

Sample ID: CCV
Date Acquired: 6/26/2023 3:03:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230626\20230626-058.lcd
Vial: 7 | 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	Auto	3.624	244708	157388	9.8466	ng/mL	101.00 >85.00	32.92	22.93-42.59
Sodium Perchlorate-18O4_IS	Auto	3.620	157388	157388	1.0000	ng/mL	----	----	

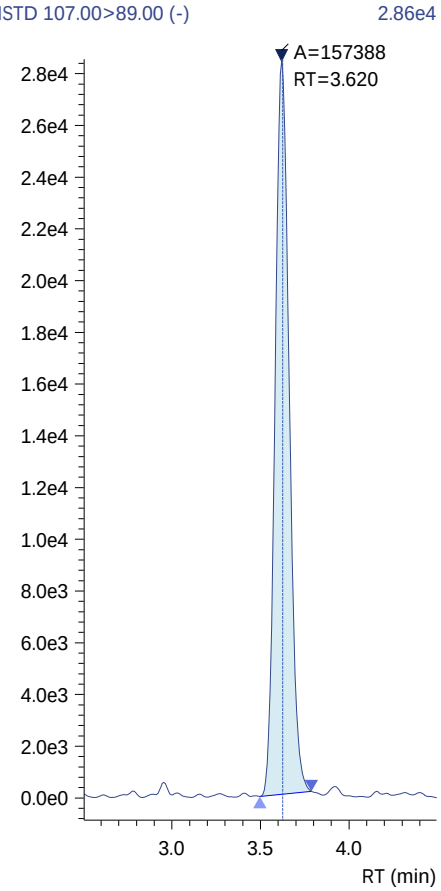
Perchlorate

Conc 9.8466
R#1 32.92 (32.76)



Sodium Perchlorate-18O4_IS

Conc 1.0000



HS23061557 LHAAP Site1824 Cover Page

ALS WO# HS23061557

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alsglobal.com

WorkOrder: HS23061557

LHAAP Site18/24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

05-Jul-2023

HS23061557 LHAAP Site1824 Final

ALS WO# HS23061557

10450 Stancliff Rd. Suite 210
Houston, TX 77099
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July 09, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23061557**

Laboratory Results for: **LHAAP Site18/24**

Dear Marcia Olive,

ALS Environmental received 9 sample(s) on Jun 22, 2023 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
James Guin

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Work Order: HS23061557

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23061557-01	18WW22_062123	Water		21-Jun-2023 07:00	22-Jun-2023 09:25	☐
HS23061557-02	CO4_062023	Water		21-Jun-2023 07:45	22-Jun-2023 09:25	☐
HS23061557-03	18CPTMW14_062123	Water		21-Jun-2023 08:40	22-Jun-2023 09:25	☐
HS23061557-04	18CPTMW24_062123	Water		21-Jun-2023 09:35	22-Jun-2023 09:25	☐
HS23061557-05	18CPTMW07_062123	Water		21-Jun-2023 10:20	22-Jun-2023 09:25	☐
HS23061557-06	18WW25_062123	Water		21-Jun-2023 11:10	22-Jun-2023 09:25	☐
HS23061557-07	MW10_062123	Water		21-Jun-2023 11:55	22-Jun-2023 09:25	☐
HS23061557-08	MW20_062123	Water		21-Jun-2023 12:40	22-Jun-2023 09:25	☐
HS23061557-09	Trip Blank	Water		21-Jun-2023 00:00	22-Jun-2023 09:25	☐

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP Site18/24
Work Order: HS23061557

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS High Res Lab Houston, TX. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 196799

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R439801

Sample ID: HS23061372-03MS

• MS and MSD are for an unrelated sample

Batch ID: R439904

Sample ID: 18CPTMW24_062123 (HS23061557-04)

• Lowest practical dilution due to high concentration of non-target compound.

Sample ID: CCV

• Acetone exceeded %D recovery limits for CCV .Samples are ND for this compound.

Sample ID: CO4_062023 (HS23061557-02MS)

• MS/MSD failed QC limit for some compounds

Batch ID: R440137

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 197198

Sample ID: HS23061712-08MS

• MS and MSD are for an unrelated sample

Sample ID: HS23061712-08PDS

• PDS is for an unrelated sample

Metals by Method SW7470A

Batch ID: 197186

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW22_062123
Collection Date: 21-Jun-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Jun-2023 21:14
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	24-Jun-2023 21:14
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	24-Jun-2023 21:14
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Jun-2023 21:14
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	24-Jun-2023 21:14
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	24-Jun-2023 21:14
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	24-Jun-2023 21:14
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW22_062123
Collection Date: 21-Jun-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	24-Jun-2023 21:14
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	24-Jun-2023 21:14
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Jun-2023 21:14
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	24-Jun-2023 21:14
Surr: 1,2-Dichloroethane-d4	*109*			**0**	*81-118*	*%REC*	*1*	*24-Jun-2023 21:14*
Surr: 4-Bromofluorobenzene	*93.9*			**0**	*85-114*	*%REC*	*1*	*24-Jun-2023 21:14*
Surr: Dibromofluoromethane	*101*			**0**	*80-119*	*%REC*	*1*	*24-Jun-2023 21:14*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*24-Jun-2023 21:14*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**0.016**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	29-Jun-2023 12:20
Surr: 2-Fluorobiphenyl	*115*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 12:20*
Surr: 4-Terphenyl-d14	*115*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 12:20*
Surr: Nitrobenzene-d5	*113*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 12:20*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW22_062123
Collection Date: 21-Jun-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.104**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:21
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:21
Arsenic	**0.000839**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:21
Barium	**0.0737**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:21
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:21
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:21
Calcium	**25.5**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:21
Chromium	**0.0122**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:21
Cobalt	**0.000168**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:21
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	07-Jul-2023 17:21
Iron	**0.0466**	J	**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:21
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:21
Magnesium	**2.14**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:21
Manganese	**0.00110**	J	**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:21
Nickel	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:21
Potassium	**2.12**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:21
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:21
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:21
Sodium	**23.2**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:21
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:21
Vanadium	**0.00771**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:21
Zinc	0.00250	U	0.00200	0.00250	0.00500	mg/L	1	07-Jul-2023 17:21
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 06-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	06-Jul-2023 15:36
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	29-Jun-2023 13:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: CO4_062023
Collection Date: 21-Jun-2023 07:45

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:34
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 15:34
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 15:34
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:34
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 15:34
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 15:34
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 15:34
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: CO4_062023
Collection Date: 21-Jun-2023 07:45

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 15:34
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 15:34
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:34
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:34
Surr: 1,2-Dichloroethane-d4	*107*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 15:34*
Surr: 4-Bromofluorobenzene	*94.6*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 15:34*
Surr: Dibromofluoromethane	*98.9*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 15:34*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 15:34*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	29-Jun-2023 13:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW14_062123
Collection Date: 21-Jun-2023 08:40

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,1,1-Trichloroethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,1,2,2-Tetrachloroethane	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,1,2-Trichloroethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,1-Dichloroethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,1-Dichloroethene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,1-Dichloropropene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,2,3-Trichlorobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,2,3-Trichloropropane	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,2,4-Trichlorobenzene	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,2,4-Trimethylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,2-Dibromo-3-chloropropane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,2-Dibromoethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,2-Dichlorobenzene	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,2-Dichloroethane	**12**		**1.0**	**2.5**	**5.0**	**ug/L**	5	26-Jun-2023 20:25
1,2-Dichloropropane	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,3,5-Trimethylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,3-Dichlorobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,3-Dichloropropane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
1,4-Dichlorobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
2,2-Dichloropropane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
2-Butanone	2.5	U	2.5	2.5	10	ug/L	5	26-Jun-2023 20:25
2-Chlorotoluene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
2-Hexanone	2.5	U	5.0	2.5	10	ug/L	5	26-Jun-2023 20:25
4-Chlorotoluene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
4-Isopropyltoluene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
4-Methyl-2-pentanone	2.5	U	3.5	2.5	10	ug/L	5	26-Jun-2023 20:25
Acetone	2.5	U	2.0	2.5	10	ug/L	5	26-Jun-2023 20:25
Benzene	**3.1**	J	**1.0**	**2.5**	**5.0**	**ug/L**	5	26-Jun-2023 20:25
Bromobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Bromochloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Bromodichloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Bromoform	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Bromomethane	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Carbon disulfide	2.5	U	3.0	2.5	10	ug/L	5	26-Jun-2023 20:25
Carbon tetrachloride	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Chlorobenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Chloroethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Chloroform	**19**		**1.0**	**2.5**	**5.0**	**ug/L**	5	26-Jun-2023 20:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW14_062123
Collection Date: 21-Jun-2023 08:40

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
cis-1,2-Dichloroethene	**21**		**1.0**	**2.5**	**5.0**	**ug/L**	5	26-Jun-2023 20:25
cis-1,3-Dichloropropene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Dibromochloromethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Dibromomethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Dichlorodifluoromethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Ethylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Hexachlorobutadiene	2.5	U	5.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Isopropylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
m,p-Xylene	5.0	U	2.5	5.0	10	ug/L	5	26-Jun-2023 20:25
Methylene chloride	2.5	U	2.0	2.5	10	ug/L	5	26-Jun-2023 20:25
n-Butylbenzene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
n-Propylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Naphthalene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
o-Xylene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
sec-Butylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Styrene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
tert-Butylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Tetrachloroethene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Toluene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
trans-1,2-Dichloroethene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
trans-1,3-Dichloropropene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Trichloroethene	**1,700**		**10**	**25**	**50**	**ug/L**	50	28-Jun-2023 15:43
Trichlorofluoromethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Vinyl chloride	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:25
Surr: 1,2-Dichloroethane-d4	*109*			**0**	*81-118*	*%REC*	*5*	*26-Jun-2023 20:25*
Surr: 1,2-Dichloroethane-d4	*102*			**0**	*81-118*	*%REC*	*50*	*28-Jun-2023 15:43*
Surr: 4-Bromofluorobenzene	*95.7*			**0**	*85-114*	*%REC*	*5*	*26-Jun-2023 20:25*
Surr: 4-Bromofluorobenzene	*94.2*			**0**	*85-114*	*%REC*	*50*	*28-Jun-2023 15:43*
Surr: Dibromofluoromethane	*102*			**0**	*80-119*	*%REC*	*5*	*26-Jun-2023 20:25*
Surr: Dibromofluoromethane	*96.2*			**0**	*80-119*	*%REC*	*50*	*28-Jun-2023 15:43*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*5*	*26-Jun-2023 20:25*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*50*	*28-Jun-2023 15:43*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**0.17**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	29-Jun-2023 12:38
Surr: 2-Fluorobiphenyl	*118*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 12:38*
Surr: 4-Terphenyl-d14	*118*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 12:38*
Surr: Nitrobenzene-d5	*111*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 12:38*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW14_062123
Collection Date: 21-Jun-2023 08:40

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.0577**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:23
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:23
Arsenic	**0.00109**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:23
Barium	**3.27**		**0.0380**	**0.0500**	**0.100**	**mg/L**	20	07-Jul-2023 18:38
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:23
Cadmium	**0.000758**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	07-Jul-2023 17:23
Calcium	**337**		**0.680**	**1.00**	**10.0**	**mg/L**	20	07-Jul-2023 18:38
Chromium	**0.00717**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:23
Cobalt	**0.00527**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:23
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	07-Jul-2023 17:23
Iron	**0.356**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:23
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:23
Magnesium	**122**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:23
Manganese	**0.275**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:23
Nickel	**0.00516**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:23
Potassium	**6.19**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:23
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:23
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:23
Sodium	**495**		**0.280**	**1.00**	**4.00**	**mg/L**	20	07-Jul-2023 18:38
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:23
Vanadium	**0.00129**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:23
Zinc	**0.00490**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:23
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 06-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	06-Jul-2023 15:38
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	29-Jun-2023 13:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW24_062123
Collection Date: 21-Jun-2023 09:35

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,1,1-Trichloroethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,1,2,2-Tetrachloroethane	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,1,2-Trichloroethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,1-Dichloroethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,1-Dichloroethene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,1-Dichloropropene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,2,3-Trichlorobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,2,3-Trichloropropane	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,2,4-Trichlorobenzene	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,2,4-Trimethylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,2-Dibromo-3-chloropropane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,2-Dibromoethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,2-Dichlorobenzene	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,2-Dichloroethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,2-Dichloropropane	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,3,5-Trimethylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,3-Dichlorobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,3-Dichloropropane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
1,4-Dichlorobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
2,2-Dichloropropane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
2-Butanone	2.5	U	2.5	2.5	10	ug/L	5	26-Jun-2023 20:03
2-Chlorotoluene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
2-Hexanone	2.5	U	5.0	2.5	10	ug/L	5	26-Jun-2023 20:03
4-Chlorotoluene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
4-Isopropyltoluene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
4-Methyl-2-pentanone	2.5	U	3.5	2.5	10	ug/L	5	26-Jun-2023 20:03
Acetone	2.5	U	2.0	2.5	10	ug/L	5	26-Jun-2023 20:03
Benzene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Bromobenzene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Bromochloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Bromodichloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Bromoform	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Bromomethane	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Carbon disulfide	2.5	U	3.0	2.5	10	ug/L	5	26-Jun-2023 20:03
Carbon tetrachloride	2.5	U	2.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Chlorobenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Chloroethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Chloroform	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW24_062123
Collection Date: 21-Jun-2023 09:35

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
cis-1,2-Dichloroethene	**13**		**1.0**	**2.5**	**5.0**	**ug/L**	5	26-Jun-2023 20:03
cis-1,3-Dichloropropene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Dibromochloromethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Dibromomethane	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Dichlorodifluoromethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Ethylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Hexachlorobutadiene	2.5	U	5.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Isopropylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
m,p-Xylene	5.0	U	2.5	5.0	10	ug/L	5	26-Jun-2023 20:03
Methylene chloride	2.5	U	2.0	2.5	10	ug/L	5	26-Jun-2023 20:03
n-Butylbenzene	2.5	U	2.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
n-Propylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Naphthalene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
o-Xylene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
sec-Butylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Styrene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
tert-Butylbenzene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Tetrachloroethene	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Toluene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
trans-1,2-Dichloroethene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
trans-1,3-Dichloropropene	2.5	U	1.0	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Trichloroethene	**17**		**1.0**	**2.5**	**5.0**	**ug/L**	5	26-Jun-2023 20:03
Trichlorofluoromethane	2.5	U	1.5	2.5	5.0	ug/L	5	26-Jun-2023 20:03
Vinyl chloride	**59**		**1.0**	**2.5**	**5.0**	**ug/L**	5	26-Jun-2023 20:03
Surr: 1,2-Dichloroethane-d4	*110*			**0**	*81-118*	*%REC*	*5*	*26-Jun-2023 20:03*
Surr: 4-Bromofluorobenzene	*94.0*			**0**	*85-114*	*%REC*	*5*	*26-Jun-2023 20:03*
Surr: Dibromofluoromethane	*103*			**0**	*80-119*	*%REC*	*5*	*26-Jun-2023 20:03*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*5*	*26-Jun-2023 20:03*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**0.014**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	29-Jun-2023 12:56
Surr: 2-Fluorobiphenyl	*118*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 12:56*
Surr: 4-Terphenyl-d14	*117*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 12:56*
Surr: Nitrobenzene-d5	*113*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 12:56*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	29-Jun-2023 13:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW07_062123
Collection Date: 21-Jun-2023 10:20

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:33
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 18:33
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 18:33
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:33
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 18:33
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 18:33
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 18:33
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW07_062123
Collection Date: 21-Jun-2023 10:20

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 18:33
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 18:33
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:33
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Trichloroethene	**1.6**		**0.20**	**0.50**	**1.0**	**ug/L**	1	26-Jun-2023 18:33
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:33
Surr: 1,2-Dichloroethane-d4	*107*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 18:33*
Surr: 4-Bromofluorobenzene	*94.3*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 18:33*
Surr: Dibromofluoromethane	*98.7*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 18:33*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 18:33*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**0.051**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	29-Jun-2023 13:14
Surr: 2-Fluorobiphenyl	*116*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 13:14*
Surr: 4-Terphenyl-d14	*111*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 13:14*
Surr: Nitrobenzene-d5	*116*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 13:14*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	29-Jun-2023 13:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW25_062123
Collection Date: 21-Jun-2023 11:10

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:55
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 18:55
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 18:55
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:55
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 18:55
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 18:55
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 18:55
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW25_062123
Collection Date: 21-Jun-2023 11:10

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 18:55
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 18:55
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:55
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:55
Surr: 1,2-Dichloroethane-d4	*110*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 18:55*
Surr: 4-Bromofluorobenzene	*94.6*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 18:55*
Surr: Dibromofluoromethane	*101*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 18:55*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 18:55*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**0.012**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	29-Jun-2023 13:32
Surr: 2-Fluorobiphenyl	*111*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 13:32*
Surr: 4-Terphenyl-d14	*120*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 13:32*
Surr: Nitrobenzene-d5	*113*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 13:32*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW25_062123
Collection Date: 21-Jun-2023 11:10

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.376**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:25
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:25
Arsenic	**0.00486**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:25
Barium	**0.315**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:25
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:25
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:25
Calcium	**17.9**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:25
Chromium	**0.000911**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:25
Cobalt	**0.00133**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:25
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	07-Jul-2023 17:25
Iron	**40.5**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:25
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:25
Magnesium	**10.6**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:25
Manganese	**1.90**		**0.0140**	**0.0500**	**0.100**	**mg/L**	20	07-Jul-2023 18:40
Nickel	**0.00104**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:25
Potassium	**1.40**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:25
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:25
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:25
Sodium	**39.0**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:25
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:25
Vanadium	**0.000747**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:25
Zinc	**0.00467**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:25
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 06-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	06-Jul-2023 15:39
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	29-Jun-2023 13:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW10_062123
Collection Date: 21-Jun-2023 11:55

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:18
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 19:18
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 19:18
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:18
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 19:18
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 19:18
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 19:18
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW10_062123
Collection Date: 21-Jun-2023 11:55

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 19:18
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 19:18
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:18
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Trichloroethene	**1.3**		**0.20**	**0.50**	**1.0**	**ug/L**	1	26-Jun-2023 19:18
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:18
Surr: 1,2-Dichloroethane-d4	*107*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 19:18*
Surr: 4-Bromofluorobenzene	*92.7*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 19:18*
Surr: Dibromofluoromethane	*99.6*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 19:18*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 19:18*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 27-Jun-2023		Analyst: JL
1,4-Dioxane	**0.039**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	29-Jun-2023 13:50
Surr: 2-Fluorobiphenyl	*106*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 13:50*
Surr: 4-Terphenyl-d14	*119*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 13:50*
Surr: Nitrobenzene-d5	*112*			**0**	*40-140*	*%REC*	*1*	*29-Jun-2023 13:50*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	29-Jun-2023 13:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW20_062123
Collection Date: 21-Jun-2023 12:40

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:40
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 19:40
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 19:40
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:40
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 19:40
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 19:40
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 19:40
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW20_062123
Collection Date: 21-Jun-2023 12:40

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 19:40
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 19:40
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:40
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:40
Surr: 1,2-Dichloroethane-d4	*108*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 19:40*
Surr: 4-Bromofluorobenzene	*95.3*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 19:40*
Surr: Dibromofluoromethane	*99.9*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 19:40*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 19:40*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW20_062123
Collection Date: 21-Jun-2023 12:40

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.661**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:27
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:27
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:27
Barium	**0.437**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:27
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:27
Cadmium	**0.000211**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	07-Jul-2023 17:27
Calcium	**52.3**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:27
Chromium	**0.00848**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:27
Cobalt	**0.00625**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:27
Copper	**0.00345**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:27
Iron	**0.981**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:27
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:27
Magnesium	**12.8**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:27
Manganese	**0.121**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:27
Nickel	**0.363**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:27
Potassium	**0.522**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:27
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:27
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:27
Sodium	**39.8**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:27
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:27
Vanadium	**0.000683**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:27
Zinc	**0.00310**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:27
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 06-Jul-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	06-Jul-2023 15:47
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	29-Jun-2023 13:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: Trip Blank
Collection Date: 21-Jun-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:11
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 18:11
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 18:11
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:11
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 18:11
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 18:11
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 18:11
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: Trip Blank
Collection Date: 21-Jun-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23061557
Lab ID:HS23061557-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 18:11
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 18:11
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:11
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:11
Surr: 1,2-Dichloroethane-d4	*110*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 18:11*
Surr: 4-Bromofluorobenzene	*94.5*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 18:11*
Surr: Dibromofluoromethane	*102*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 18:11*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 18:11*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Batch ID: 196799 **Start Date:** 27 Jun 2023 14:47 **End Date:** 27 Jun 2023 14:47
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061557-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS23061557-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS23061557-04	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS23061557-05	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS23061557-06	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS23061557-07	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 197186 **Start Date:** 06 Jul 2023 09:00 **End Date:** 06 Jul 2023 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061557-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061557-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061557-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061557-08		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 197198 **Start Date:** 06 Jul 2023 14:00 **End Date:** 06 Jul 2023 14:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061557-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061557-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061557-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061557-08		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 196799 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS23061557-01	18WW22_062123	21 Jun 2023 07:00		27 Jun 2023 14:47	29 Jun 2023 12:20	1
HS23061557-03	18CPTMW14_062123	21 Jun 2023 08:40		27 Jun 2023 14:47	29 Jun 2023 12:38	1
HS23061557-04	18CPTMW24_062123	21 Jun 2023 09:35		27 Jun 2023 14:47	29 Jun 2023 12:56	1
HS23061557-05	18CPTMW07_062123	21 Jun 2023 10:20		27 Jun 2023 14:47	29 Jun 2023 13:14	1
HS23061557-06	18WW25_062123	21 Jun 2023 11:10		27 Jun 2023 14:47	29 Jun 2023 13:32	1
HS23061557-07	MW10_062123	21 Jun 2023 11:55		27 Jun 2023 14:47	29 Jun 2023 13:50	1
Batch ID: 197186 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS23061557-01	18WW22_062123	21 Jun 2023 07:00		06 Jul 2023 09:00	06 Jul 2023 15:36	1
HS23061557-03	18CPTMW14_062123	21 Jun 2023 08:40		06 Jul 2023 09:00	06 Jul 2023 15:38	1
HS23061557-06	18WW25_062123	21 Jun 2023 11:10		06 Jul 2023 09:00	06 Jul 2023 15:39	1
HS23061557-08	MW20_062123	21 Jun 2023 12:40		06 Jul 2023 09:00	06 Jul 2023 15:47	1
Batch ID: 197198 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS23061557-01	18WW22_062123	21 Jun 2023 07:00		06 Jul 2023 14:00	07 Jul 2023 17:21	1
HS23061557-03	18CPTMW14_062123	21 Jun 2023 08:40		06 Jul 2023 14:00	07 Jul 2023 18:38	20
HS23061557-03	18CPTMW14_062123	21 Jun 2023 08:40		06 Jul 2023 14:00	07 Jul 2023 17:23	1
HS23061557-06	18WW25_062123	21 Jun 2023 11:10		06 Jul 2023 14:00	07 Jul 2023 18:40	20
HS23061557-06	18WW25_062123	21 Jun 2023 11:10		06 Jul 2023 14:00	07 Jul 2023 17:25	1
HS23061557-08	MW20_062123	21 Jun 2023 12:40		06 Jul 2023 14:00	07 Jul 2023 17:27	1
Batch ID: R439801 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23061557-01	18WW22_062123	21 Jun 2023 07:00			24 Jun 2023 21:14	1
Batch ID: R439904 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23061557-02	CO4_062023	21 Jun 2023 07:45			26 Jun 2023 15:34	1
HS23061557-03	18CPTMW14_062123	21 Jun 2023 08:40			26 Jun 2023 20:25	5
HS23061557-04	18CPTMW24_062123	21 Jun 2023 09:35			26 Jun 2023 20:03	5
HS23061557-05	18CPTMW07_062123	21 Jun 2023 10:20			26 Jun 2023 18:33	1
HS23061557-06	18WW25_062123	21 Jun 2023 11:10			26 Jun 2023 18:55	1
HS23061557-07	MW10_062123	21 Jun 2023 11:55			26 Jun 2023 19:18	1
HS23061557-08	MW20_062123	21 Jun 2023 12:40			26 Jun 2023 19:40	1
HS23061557-09	Trip Blank	21 Jun 2023 00:00			26 Jun 2023 18:11	1
Batch ID: R440137 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23061557-03	18CPTMW14_062123	21 Jun 2023 08:40			28 Jun 2023 15:43	50

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R440200 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS23061557-01	18WW22_062123	21 Jun 2023 07:00			29 Jun 2023 13:22	1
HS23061557-02	CO4_062023	21 Jun 2023 07:45			29 Jun 2023 13:22	1
HS23061557-03	18CPTMW14_062123	21 Jun 2023 08:40			29 Jun 2023 13:22	1
HS23061557-04	18CPTMW24_062123	21 Jun 2023 09:35			29 Jun 2023 13:22	1
HS23061557-05	18CPTMW07_062123	21 Jun 2023 10:20			29 Jun 2023 13:22	1
HS23061557-06	18WW25_062123	21 Jun 2023 11:10			29 Jun 2023 13:22	1
HS23061557-07	MW10_062123	21 Jun 2023 11:55			29 Jun 2023 13:22	1
HS23061557-08	MW20_062123	21 Jun 2023 12:40			29 Jun 2023 13:22	1

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: 197186 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-197186** Units: **mg/L** Analysis Date: **06-Jul-2023 15:08**
Client ID: Run ID: **HG04_440667** SeqNo: **7404723** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000100	0.000200								U

LCS Sample ID: **LCS-197186** Units: **mg/L** Analysis Date: **06-Jul-2023 15:10**
Client ID: Run ID: **HG04_440667** SeqNo: **7404724** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00524	0.000200	0.005	0	105	82 - 119				

MS Sample ID: **HS23061459-01MS** Units: **mg/L** Analysis Date: **06-Jul-2023 15:16**
Client ID: Run ID: **HG04_440667** SeqNo: **7404726** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00475	0.000200	0.005	-0.000001000	95.0	82 - 119				

MSD Sample ID: **HS23061459-01MSD** Units: **mg/L** Analysis Date: **06-Jul-2023 15:24**
Client ID: Run ID: **HG04_440667** SeqNo: **7404729** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00528	0.000200	0.005	-0.000001000	106	82 - 119	0.004750	10.6	20	

The following samples were analyzed in this batch: HS23061557-01 HS23061557-03 HS23061557-06 HS23061557-08

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-197198** Units: **mg/L** Analysis Date: **07-Jul-2023 16:55**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407791** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00500	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00250	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.000737	0.00500								J
Nickel	0.00125	0.00500								U
Potassium	1.00	0.200								U
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.02611	0.200								J
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-197198** Units: **mg/L** Analysis Date: **07-Jul-2023 16:57**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407792** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1016	0.0100	0.1	0	102	84 - 117				
Antimony	0.04562	0.00500	0.05	0	91.2	85 - 117				
Arsenic	0.04475	0.00500	0.05	0	89.5	84 - 116				
Barium	0.04351	0.00500	0.05	0	87.0	86 - 114				
Beryllium	0.04595	0.00200	0.05	0	91.9	83 - 121				
Cadmium	0.04446	0.00200	0.05	0	88.9	87 - 115				
Calcium	4.857	0.500	5	0	97.1	87 - 118				
Chromium	0.04428	0.00500	0.05	0	88.6	85 - 116				
Cobalt	0.04416	0.00500	0.05	0	88.3	86 - 115				
Copper	0.04532	0.00500	0.05	0	90.6	85 - 118				
Iron	4.675	0.200	5	0	93.5	87 - 118				
Magnesium	4.84	0.200	5	0	96.8	83 - 118				
Manganese	0.04525	0.00500	0.05	0	90.5	87 - 115				
Nickel	0.04568	0.00500	0.05	0	91.4	85 - 117				
Potassium	4.797	0.200	5	0	95.9	87 - 115				
Selenium	0.04497	0.00500	0.05	0	89.9	80 - 120				
Silver	0.04457	0.00500	0.05	0	89.1	85 - 116				
Sodium	4.773	0.200	5	0	95.5	85 - 117				
Vanadium	0.04433	0.00500	0.05	0	88.7	86 - 115				
Zinc	0.04719	0.00500	0.05	0	94.4	83 - 119				

LCS Sample ID: **LCS-197198** Units: **mg/L** Analysis Date: **07-Jul-2023 18:28**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407895** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	0.0474	0.00500	0.05	0	94.8	88 - 115				
Thallium	0.04474	0.00200	0.05	0	89.5	82 - 116				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS23061712-08MS** Units: **mg/L** Analysis Date: **07-Jul-2023 17:03**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407795** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	0.09509	0.0100	0.1	0.005422	89.7	84 - 117			
Antimony	0.04505	0.00500	0.05	0.000106	89.9	85 - 117			
Arsenic	0.04542	0.00500	0.05	0.000167	90.5	84 - 116			
Barium	0.5178	0.00500	0.05	0.4937	48.1	86 - 114			SO
Beryllium	0.04778	0.00200	0.05	0.000003	95.6	83 - 121			
Cadmium	0.04469	0.00200	0.05	0.00012	89.1	87 - 115			
Calcium	28.51	0.500	5	24.2	86.1	87 - 118			SO
Chromium	0.06521	0.00500	0.05	0.02175	86.9	85 - 116			
Cobalt	0.06097	0.00500	0.05	0.01869	84.6	86 - 115			S
Copper	0.04422	0.00500	0.05	0.001373	85.7	85 - 118			
Iron	5.463	0.200	5	0.9238	90.8	87 - 118			
Magnesium	25.04	0.200	5	20.72	86.3	83 - 118			O
Manganese	0.6867	0.00500	0.05	0.6707	32.0	87 - 115			SO
Nickel	1.381	0.00500	0.05	1.357	49.1	85 - 117			SO
Potassium	6.671	0.200	5	2.144	90.5	87 - 115			
Selenium	0.04458	0.00500	0.05	-0.000058	89.3	80 - 120			
Silver	0.04385	0.00500	0.05	0.00001	87.7	85 - 116			
Sodium	195.6	0.200	5	194	31.6	85 - 117			SEO
Vanadium	0.04448	0.00500	0.05	0.00013	88.7	86 - 115			
Zinc	0.04651	0.00500	0.05	0.00189	89.2	83 - 119			

MS Sample ID: **HS23061712-08MS** Units: **mg/L** Analysis Date: **07-Jul-2023 18:09**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407889** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Lead	0.04924	0.00500	0.05	0	98.5	88 - 115			
Thallium	0.04939	0.00200	0.05	0.000636	97.5	82 - 116			

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS23061712-08MSD** Units: **mg/L** Analysis Date: **07-Jul-2023 17:05**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407796** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09607	0.0100	0.1	0.005422	90.7	84 - 117	0.09509	1.03	20	
Antimony	0.04592	0.00500	0.05	0.000106	91.6	85 - 117	0.04505	1.91	20	
Arsenic	0.04624	0.00500	0.05	0.000167	92.2	84 - 116	0.04542	1.79	20	
Barium	0.5331	0.00500	0.05	0.4937	78.8	86 - 114	0.5178	2.92	20	SO
Beryllium	0.04702	0.00200	0.05	0.000003	94.0	83 - 121	0.04778	1.61	20	
Cadmium	0.046	0.00200	0.05	0.00012	91.8	87 - 115	0.04469	2.9	20	
Calcium	29.1	0.500	5	24.2	97.9	87 - 118	28.51	2.05	20	O
Chromium	0.0658	0.00500	0.05	0.02175	88.1	85 - 116	0.06521	0.893	20	
Cobalt	0.06114	0.00500	0.05	0.01869	84.9	86 - 115	0.06097	0.28	20	S
Copper	0.04503	0.00500	0.05	0.001373	87.3	85 - 118	0.04422	1.82	20	
Iron	5.518	0.200	5	0.9238	91.9	87 - 118	5.463	1.02	20	
Lead	0.04484	0.00500	0.05	0.00001	89.6	88 - 115	0.0438	2.34	20	
Magnesium	25.17	0.200	5	20.72	88.9	83 - 118	25.04	0.508	20	O
Manganese	0.6945	0.00500	0.05	0.6707	47.6	87 - 115	0.6867	1.13	20	SO
Nickel	1.389	0.00500	0.05	1.357	64.4	85 - 117	1.381	0.552	20	SO
Potassium	6.734	0.200	5	2.144	91.8	87 - 115	6.671	0.936	20	
Selenium	0.0457	0.00500	0.05	-0.000058	91.5	80 - 120	0.04458	2.47	20	
Silver	0.04409	0.00500	0.05	0.00001	88.2	85 - 116	0.04385	0.539	20	
Sodium	197.3	0.200	5	194	67.0	85 - 117	195.6	0.902	20	SEO
Thallium	0.0424	0.00200	0.05	0.000636	83.5	82 - 116	0.04061	4.31	20	
Vanadium	0.04468	0.00500	0.05	0.00013	89.1	86 - 115	0.04448	0.437	20	
Zinc	0.04747	0.00500	0.05	0.00189	91.2	83 - 119	0.04651	2.04	20	

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS23061712-08PDS** Units: **mg/L** Analysis Date: **07-Jul-2023 17:07**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407797** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1012	0.0100	0.1	0.005422	95.8	80 - 120				
Antimony	0.09021	0.00500	0.1	0.000106	90.1	80 - 120				
Arsenic	0.09531	0.00500	0.1	0.000167	95.1	80 - 120				
Barium	0.5863	0.00500	0.1	0.4937	92.5	80 - 120				O
Beryllium	0.09768	0.00200	0.1	0.000003	97.7	80 - 120				
Cadmium	0.09695	0.00200	0.1	0.00012	96.8	80 - 120				
Calcium	33.27	0.500	10	24.2	90.6	80 - 120				
Chromium	0.1131	0.00500	0.1	0.02175	91.4	80 - 120				
Cobalt	0.1116	0.00500	0.1	0.01869	92.9	80 - 120				
Copper	0.09121	0.00500	0.1	0.001373	89.8	80 - 120				
Iron	10.48	0.200	10	0.9238	95.5	80 - 120				
Lead	0.09266	0.00500	0.1	0.00001	92.6	80 - 120				
Magnesium	30.57	0.200	10	20.72	98.5	80 - 120				
Manganese	0.7461	0.00500	0.1	0.6707	75.4	80 - 120				SO
Nickel	1.422	0.00500	0.1	1.357	65.3	80 - 120				SO
Potassium	11.87	0.200	10	2.144	97.3	80 - 120				
Selenium	0.09544	0.00500	0.1	-0.000058	95.5	80 - 120				
Silver	0.09628	0.00500	0.1	0.00001	96.3	80 - 120				
Thallium	0.1037	0.00200	0.1	0.000636	103	80 - 120				
Vanadium	0.09273	0.00500	0.1	0.00013	92.6	80 - 120				
Zinc	0.09599	0.00500	0.1	0.00189	94.1	80 - 120				

PDS Sample ID: **HS23061712-08PDS** Units: **mg/L** Analysis Date: **07-Jul-2023 18:36**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407899** PrepDate: **06-Jul-2023** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	377.8	4.00	200	190.4	93.7	80 - 120				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS23061712-08SD** Units: **mg/L** Analysis Date: **07-Jul-2023 17:01**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407794** PrepDate: **06-Jul-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.01117	0.0500					0.005422	0	10	J
Antimony	0.00625	0.0250					0.000106	0	10	U
Arsenic	0.00625	0.0250					0.000167	0	10	U
Barium	0.4803	0.0250					0.4937	2.72	10	
Beryllium	0.00250	0.0100					0.000003	0	10	U
Cadmium	0.00250	0.0100					0.00012	0	10	U
Calcium	23.48	2.50					24.2	2.97	10	
Chromium	0.0213	0.0250					0.02175	0	10	J
Cobalt	0.01822	0.0250					0.01869	0	10	J
Copper	0.0125	0.0250					0.001373	0	10	U
Iron	0.9238	1.00					0.9238	0	10	J
Lead	0.00625	0.0250					0.00001	0	10	U
Magnesium	20.14	1.00					20.72	2.81	10	
Manganese	0.667	0.0250					0.6707	0.548	10	
Nickel	1.355	0.0250					1.357	0.0906	10	
Potassium	2.095	1.00					2.144	2.3	10	
Selenium	0.0125	0.0250					-0.000058	0	10	U
Silver	0.00250	0.0250					0.00001	0	10	U
Thallium	0.00250	0.0100					0.000636	0	10	U
Vanadium	0.00625	0.0250					0.00013	0	10	U
Zinc	0.0125	0.0250					0.00189	0	10	U

SD Sample ID: **HS23061712-08SD** Units: **mg/L** Analysis Date: **07-Jul-2023 18:34**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407898** PrepDate: **06-Jul-2023** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Sodium	197.1	20.0					190.4	3.53	10	

The following samples were analyzed in this batch: HS23061557-01 HS23061557-03 HS23061557-06 HS23061557-08

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: 196799 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-196799** Units: **ug/L** Analysis Date: **29-Jun-2023 11:25**
Client ID: Run ID: **SV-6_440304** SeqNo: **7395327** PrepDate: **27-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0050	0.030								U
Surr: 2-Fluorobiphenyl	*0.09294*	*0*	*0.08*	*0*	*116*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09052*	*0*	*0.08*	*0*	*113*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.09184*	*0*	*0.08*	*0*	*115*	*40 - 140*				

LCS Sample ID: **LCS1-196799** Units: **ug/L** Analysis Date: **29-Jun-2023 11:43**
Client ID: Run ID: **SV-6_440304** SeqNo: **7395328** PrepDate: **27-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07214	0.030	0.08	0	90.2	40 - 140				
Surr: 2-Fluorobiphenyl	*0.0897*	*0*	*0.08*	*0*	*112*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09058*	*0*	*0.08*	*0*	*113*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.09084*	*0*	*0.08*	*0*	*114*	*40 - 140*				

LCSD Sample ID: **LCSD1-196799** Units: **ug/L** Analysis Date: **29-Jun-2023 12:01**
Client ID: Run ID: **SV-6_440304** SeqNo: **7395329** PrepDate: **27-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.08194	0.030	0.08	0	102	40 - 140	0.07214	12.7	20	
Surr: 2-Fluorobiphenyl	*0.09409*	*0*	*0.08*	*0*	*118*	*40 - 140*	*0.0897*	*4.78*	*20*	
Surr: 4-Terphenyl-d14	*0.0909*	*0*	*0.08*	*0*	*114*	*40 - 140*	*0.09058*	*0.359*	*20*	
Surr: Nitrobenzene-d5	*0.089*	*0*	*0.08*	*0*	*111*	*40 - 140*	*0.09084*	*2.05*	*20*	

The following samples were analyzed in this batch: HS23061557-01 HS23061557-03 HS23061557-04 HS23061557-05 HS23061557-06 HS23061557-07

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439801 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230624** Units: **ug/L** Analysis Date: **24-Jun-2023 13:46**
Client ID: Run ID: **VOA9_439801** SeqNo: **7383495** 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	0.50	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	0.50	1.0								U
1,2,3-Trichloropropane	0.50	1.0								U
1,2,4-Trichlorobenzene	0.50	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	0.50	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	0.50	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	0.50	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	0.50	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	0.50	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

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439801 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230624** Units: **ug/L** Analysis Date: **24-Jun-2023 13:46**
Client ID: Run ID: **VOA9_439801** SeqNo: **7383495** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	0.50	2.0								U
Carbon tetrachloride	0.50	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	0.50	1.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	0.50	2.0								U
Naphthalene	0.50	1.0								U
n-Butylbenzene	0.50	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	*53.06*	*1.0*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.9*	*1.0*	*50*	*0*	*95.8*	*85 - 114*				
Surr: Dibromofluoromethane	*50.07*	*1.0*	*50*	*0*	*100*	*80 - 119*				
Surr: Toluene-d8	*55.05*	*1.0*	*50*	*0*	*110*	*89 - 112*				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439801 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230624** Units: **ug/L** Analysis Date: **24-Jun-2023 13:01**
Client ID: Run ID: **VOA9_439801** SeqNo: **7383494** 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	23.62	1.0	20	0	118	78 - 124				
1,1,1-Trichloroethane	24.16	1.0	20	0	121	74 - 131				
1,1,2,2-Tetrachloroethane	19.93	1.0	20	0	99.6	71 - 121				
1,1,2-Trichloroethane	21.99	1.0	20	0	110	80 - 119				
1,1-Dichloroethane	21.83	1.0	20	0	109	77 - 125				
1,1-Dichloroethene	22.78	1.0	20	0	114	71 - 131				
1,1-Dichloropropene	23.17	1.0	20	0	116	78 - 125				
1,2,3-Trichlorobenzene	19.93	1.0	20	0	99.6	69 - 129				
1,2,3-Trichloropropane	21.74	1.0	20	0	109	73 - 122				
1,2,4-Trichlorobenzene	20.11	1.0	20	0	101	69 - 130				
1,2,4-Trimethylbenzene	23.83	1.0	20	0	119	76 - 124				
1,2-Dibromo-3-chloropropane	19.58	1.0	20	0	97.9	62 - 128				
1,2-Dibromoethane	22.28	1.0	20	0	111	77 - 121				
1,2-Dichlorobenzene	21.16	1.0	20	0	106	80 - 119				
1,2-Dichloroethane	24	1.0	20	0	120	73 - 128				
1,2-Dichloropropane	22.03	1.0	20	0	110	78 - 122				
1,3,5-Trimethylbenzene	23.81	1.0	20	0	119	75 - 124				
1,3-Dichlorobenzene	21.34	1.0	20	0	107	80 - 119				
1,3-Dichloropropane	22.14	1.0	20	0	111	80 - 119				
1,4-Dichlorobenzene	21.44	1.0	20	0	107	79 - 118				
2,2-Dichloropropane	26.14	1.0	20	0	131	60 - 139				
2-Butanone	41.58	2.0	40	0	104	56 - 143				
2-Chlorotoluene	22.66	1.0	20	0	113	79 - 122				
2-Hexanone	41.34	2.0	40	0	103	57 - 139				
4-Chlorotoluene	22.93	1.0	20	0	115	78 - 122				
4-Isopropyltoluene	23.5	1.0	20	0	117	77 - 127				
4-Methyl-2-pentanone	42.75	2.0	40	0	107	67 - 130				
Acetone	45.98	2.0	40	0	115	39 - 160				
Benzene	21.88	1.0	20	0	109	79 - 120				
Bromobenzene	21.62	1.0	20	0	108	80 - 120				
Bromochloromethane	21.15	1.0	20	0	106	78 - 123				
Bromodichloromethane	24.41	1.0	20	0	122	79 - 125				
Bromoform	23.19	1.0	20	0	116	66 - 130				
Bromomethane	27.7	1.0	20	0	139	53 - 141				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439801 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230624** Units: **ug/L** Analysis Date: **24-Jun-2023 13:01**
Client ID: Run ID: **VOA9_439801** SeqNo: **7383494** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	46.96	2.0	40	0	117	64 - 133				
Carbon tetrachloride	25.11	1.0	20	0	126	72 - 136				
Chlorobenzene	22.7	1.0	20	0	114	82 - 118				
Chloroethane	22.56	1.0	20	0	113	60 - 138				
Chloroform	22.27	1.0	20	0	111	79 - 124				
Chloromethane	17.92	1.0	20	0	89.6	50 - 139				
cis-1,2-Dichloroethene	22.27	1.0	20	0	111	78 - 123				
cis-1,3-Dichloropropene	22.02	1.0	20	0	110	75 - 124				
Dibromochloromethane	24.41	1.0	20	0	122	74 - 126				
Dibromomethane	22.77	1.0	20	0	114	79 - 123				
Dichlorodifluoromethane	19.73	1.0	20	0	98.7	32 - 152				
Ethylbenzene	23.21	1.0	20	0	116	79 - 121				
Hexachlorobutadiene	21.44	1.0	20	0	107	66 - 134				
Isopropylbenzene	23.74	1.0	20	0	119	72 - 131				
m,p-Xylene	47.29	2.0	40	0	118	80 - 121				
Methylene chloride	22.68	2.0	20	0	113	74 - 124				
Naphthalene	20.29	1.0	20	0	101	61 - 128				
n-Butylbenzene	22.71	1.0	20	0	114	75 - 128				
n-Propylbenzene	23.12	1.0	20	0	116	76 - 126				
o-Xylene	23.12	1.0	20	0	116	78 - 122				
sec-Butylbenzene	23.17	1.0	20	0	116	77 - 126				
Styrene	23.95	1.0	20	0	120	78 - 123				
tert-Butylbenzene	23.15	1.0	20	0	116	78 - 124				
Tetrachloroethene	23.59	1.0	20	0	118	74 - 129				
Toluene	23.14	1.0	20	0	116	80 - 121				
trans-1,2-Dichloroethene	22.88	1.0	20	0	114	75 - 124				
trans-1,3-Dichloropropene	22.2	1.0	20	0	111	73 - 127				
Trichloroethene	21.9	1.0	20	0	110	79 - 123				
Trichlorofluoromethane	24.95	1.0	20	0	125	65 - 141				
Vinyl chloride	21.09	1.0	20	0	105	58 - 137				
Surr: 1,2-Dichloroethane-d4	*53.79*	*1.0*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.48*	*1.0*	*50*	*0*	*105*	*85 - 114*				
Surr: Dibromofluoromethane	*51.38*	*1.0*	*50*	*0*	*103*	*80 - 119*				
Surr: Toluene-d8	*50.79*	*1.0*	*50*	*0*	*102*	*89 - 112*				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439801 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061372-03MS** Units: **ug/L** Analysis Date: **24-Jun-2023 14:31**
Client ID: Run ID: **VOA9_439801** SeqNo: **7383497** 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	22.9	1.0	20	0	115	78 - 124				
1,1,1-Trichloroethane	24	1.0	20	0	120	74 - 131				
1,1,2,2-Tetrachloroethane	19.97	1.0	20	0	99.8	71 - 121				
1,1,2-Trichloroethane	20.66	1.0	20	0	103	80 - 119				
1,1-Dichloroethane	20.56	1.0	20	0	103	77 - 125				
1,1-Dichloroethene	22.22	1.0	20	0	111	71 - 131				
1,1-Dichloropropene	24.59	1.0	20	0	123	78 - 125				
1,2,3-Trichlorobenzene	19.42	1.0	20	0	97.1	69 - 129				
1,2,3-Trichloropropane	20.35	1.0	20	0	102	73 - 122				
1,2,4-Trichlorobenzene	19.85	1.0	20	0	99.2	69 - 130				
1,2,4-Trimethylbenzene	23.85	1.0	20	0	119	76 - 124				
1,2-Dibromo-3-chloropropane	18.23	1.0	20	0	91.2	62 - 128				
1,2-Dibromoethane	21.47	1.0	20	0	107	77 - 121				
1,2-Dichlorobenzene	21.67	1.0	20	0	108	80 - 119				
1,2-Dichloroethane	23	1.0	20	0	115	73 - 128				
1,2-Dichloropropane	21.04	1.0	20	0	105	78 - 122				
1,3,5-Trimethylbenzene	24.58	1.0	20	0	123	75 - 124				
1,3-Dichlorobenzene	22.2	1.0	20	0	111	80 - 119				
1,3-Dichloropropane	21.17	1.0	20	0	106	80 - 119				
1,4-Dichlorobenzene	21.49	1.0	20	0	107	79 - 118				
2,2-Dichloropropane	25.96	1.0	20	0	130	60 - 139				
2-Butanone	35.97	2.0	40	0	89.9	56 - 143				
2-Chlorotoluene	23.09	1.0	20	0	115	79 - 122				
2-Hexanone	37.24	2.0	40	0	93.1	57 - 139				
4-Chlorotoluene	23.72	1.0	20	0	119	78 - 122				
4-Isopropyltoluene	24.81	1.0	20	0	124	77 - 127				
4-Methyl-2-pentanone	39.19	2.0	40	0	98.0	67 - 130				
Acetone	35.32	2.0	40	0	88.3	39 - 160				
Benzene	21.84	1.0	20	0	109	79 - 120				
Bromobenzene	21.71	1.0	20	0	109	80 - 120				
Bromochloromethane	19.62	1.0	20	0	98.1	78 - 123				
Bromodichloromethane	23.64	1.0	20	0	118	79 - 125				
Bromoform	21.69	1.0	20	0	108	66 - 130				
Bromomethane	25.9	1.0	20	0	129	53 - 141				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439801 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061372-03MS** Units: **ug/L** Analysis Date: **24-Jun-2023 14:31**
Client ID: Run ID: **VOA9_439801** SeqNo: **7383497** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	46.87	2.0	40	0	117	64 - 133				
Carbon tetrachloride	27.38	1.0	20	0	137	72 - 136				S
Chlorobenzene	22.67	1.0	20	0	113	82 - 118				
Chloroethane	21.06	1.0	20	0	105	60 - 138				
Chloroform	20.68	1.0	20	0	103	79 - 124				
Chloromethane	16.86	1.0	20	0	84.3	50 - 139				
cis-1,2-Dichloroethene	20.35	1.0	20	0	102	78 - 123				
cis-1,3-Dichloropropene	20.94	1.0	20	0	105	75 - 124				
Dibromochloromethane	22.92	1.0	20	0	115	74 - 126				
Dibromomethane	22.36	1.0	20	0	112	79 - 123				
Dichlorodifluoromethane	17.96	1.0	20	0	89.8	32 - 152				
Ethylbenzene	23.53	1.0	20	0	118	79 - 121				
Hexachlorobutadiene	24.22	1.0	20	0	121	66 - 134				
Isopropylbenzene	25.53	1.0	20	0	128	72 - 131				
m,p-Xylene	49.38	2.0	40	0	123	80 - 121				S
Methylene chloride	20.23	2.0	20	0	101	74 - 124				
Naphthalene	18.97	1.0	20	0	94.9	61 - 128				
n-Butylbenzene	24.13	1.0	20	0	121	75 - 128				
n-Propylbenzene	24.61	1.0	20	0	123	76 - 126				
o-Xylene	23.62	1.0	20	0	118	78 - 122				
sec-Butylbenzene	24.83	1.0	20	0	124	77 - 126				
Styrene	22.57	1.0	20	0	113	78 - 123				
tert-Butylbenzene	24.05	1.0	20	0	120	78 - 124				
Tetrachloroethene	25.37	1.0	20	0	127	74 - 129				
Toluene	23.03	1.0	20	0	115	80 - 121				
trans-1,2-Dichloroethene	21.73	1.0	20	0	109	75 - 124				
trans-1,3-Dichloropropene	21.33	1.0	20	0	107	73 - 127				
Trichloroethene	22.95	1.0	20	0	115	79 - 123				
Trichlorofluoromethane	25.41	1.0	20	0	127	65 - 141				
Vinyl chloride	19.88	1.0	20	0	99.4	58 - 137				
Surr: 1,2-Dichloroethane-d4	*53.52*	*1.0*	*50*	*0*	*107*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.52*	*1.0*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*50.5*	*1.0*	*50*	*0*	*101*	*80 - 119*				
Surr: Toluene-d8	*54.24*	*1.0*	*50*	*0*	*108*	*89 - 112*				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439801 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061372-03MSD** Units: **ug/L** Analysis Date: **24-Jun-2023 14:53**
Client ID: Run ID: **VOA9_439801** SeqNo: **7383498** 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	23.03	1.0	20	0	115	78 - 124	22.9	0.567	20	
1,1,1-Trichloroethane	23.53	1.0	20	0	118	74 - 131	24	1.96	20	
1,1,2,2-Tetrachloroethane	19.37	1.0	20	0	96.8	71 - 121	19.97	3.06	20	
1,1,2-Trichloroethane	20.92	1.0	20	0	105	80 - 119	20.66	1.29	20	
1,1-Dichloroethane	20.23	1.0	20	0	101	77 - 125	20.56	1.66	20	
1,1-Dichloroethene	22.15	1.0	20	0	111	71 - 131	22.22	0.347	20	
1,1-Dichloropropene	24.47	1.0	20	0	122	78 - 125	24.59	0.496	20	
1,2,3-Trichlorobenzene	19.81	1.0	20	0	99.1	69 - 129	19.42	2	20	
1,2,3-Trichloropropane	20.18	1.0	20	0	101	73 - 122	20.35	0.839	20	
1,2,4-Trichlorobenzene	20.94	1.0	20	0	105	69 - 130	19.85	5.36	20	
1,2,4-Trimethylbenzene	23.76	1.0	20	0	119	76 - 124	23.85	0.373	20	
1,2-Dibromo-3-chloropropane	18.39	1.0	20	0	91.9	62 - 128	18.23	0.846	20	
1,2-Dibromoethane	21.67	1.0	20	0	108	77 - 121	21.47	0.924	20	
1,2-Dichlorobenzene	21.22	1.0	20	0	106	80 - 119	21.67	2.1	20	
1,2-Dichloroethane	22.97	1.0	20	0	115	73 - 128	23	0.157	20	
1,2-Dichloropropane	21.41	1.0	20	0	107	78 - 122	21.04	1.75	20	
1,3,5-Trimethylbenzene	24.59	1.0	20	0	123	75 - 124	24.58	0.0311	20	
1,3-Dichlorobenzene	21.5	1.0	20	0	107	80 - 119	22.2	3.22	20	
1,3-Dichloropropane	21.57	1.0	20	0	108	80 - 119	21.17	1.83	20	
1,4-Dichlorobenzene	21.55	1.0	20	0	108	79 - 118	21.49	0.288	20	
2,2-Dichloropropane	25.82	1.0	20	0	129	60 - 139	25.96	0.547	20	
2-Butanone	35.49	2.0	40	0	88.7	56 - 143	35.97	1.36	20	
2-Chlorotoluene	22.89	1.0	20	0	114	79 - 122	23.09	0.843	20	
2-Hexanone	38.25	2.0	40	0	95.6	57 - 139	37.24	2.69	20	
4-Chlorotoluene	23.33	1.0	20	0	117	78 - 122	23.72	1.68	20	
4-Isopropyltoluene	24.9	1.0	20	0	125	77 - 127	24.81	0.369	20	
4-Methyl-2-pentanone	39.6	2.0	40	0	99.0	67 - 130	39.19	1.04	20	
Acetone	36.56	2.0	40	0	91.4	39 - 160	35.32	3.45	20	
Benzene	21.81	1.0	20	0	109	79 - 120	21.84	0.131	20	
Bromobenzene	21.4	1.0	20	0	107	80 - 120	21.71	1.45	20	
Bromochloromethane	19.22	1.0	20	0	96.1	78 - 123	19.62	2.09	20	
Bromodichloromethane	23.29	1.0	20	0	116	79 - 125	23.64	1.53	20	
Bromoform	21.59	1.0	20	0	108	66 - 130	21.69	0.475	20	
Bromomethane	23.95	1.0	20	0	120	53 - 141	25.9	7.8	20	

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439801 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061372-03MSD** Units: **ug/L** Analysis Date: **24-Jun-2023 14:53**
Client ID: Run ID: **VOA9_439801** SeqNo: **7383498** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	46.64	2.0	40	0	117	64 - 133	46.87	0.496	20	
Carbon tetrachloride	27.19	1.0	20	0	136	72 - 136	27.38	0.677	20	
Chlorobenzene	22.3	1.0	20	0	112	82 - 118	22.67	1.61	20	
Chloroethane	20.9	1.0	20	0	105	60 - 138	21.06	0.725	20	
Chloroform	20.67	1.0	20	0	103	79 - 124	20.68	0.0565	20	
Chloromethane	16.54	1.0	20	0	82.7	50 - 139	16.86	1.96	20	
cis-1,2-Dichloroethene	20.79	1.0	20	0	104	78 - 123	20.35	2.12	20	
cis-1,3-Dichloropropene	21.14	1.0	20	0	106	75 - 124	20.94	0.954	20	
Dibromochloromethane	23.49	1.0	20	0	117	74 - 126	22.92	2.45	20	
Dibromomethane	22.1	1.0	20	0	111	79 - 123	22.36	1.15	20	
Dichlorodifluoromethane	18.54	1.0	20	0	92.7	32 - 152	17.96	3.16	20	
Ethylbenzene	24.17	1.0	20	0	121	79 - 121	23.53	2.66	20	
Hexachlorobutadiene	23.89	1.0	20	0	119	66 - 134	24.22	1.38	20	
Isopropylbenzene	25.7	1.0	20	0	129	72 - 131	25.53	0.679	20	
m,p-Xylene	49.24	2.0	40	0	123	80 - 121	49.38	0.289	20	S
Methylene chloride	20.63	2.0	20	0	103	74 - 124	20.23	1.94	20	
Naphthalene	20.3	1.0	20	0	101	61 - 128	18.97	6.74	20	
n-Butylbenzene	24.81	1.0	20	0	124	75 - 128	24.13	2.78	20	
n-Propylbenzene	25.18	1.0	20	0	126	76 - 126	24.61	2.3	20	
o-Xylene	23.45	1.0	20	0	117	78 - 122	23.62	0.726	20	
sec-Butylbenzene	24.65	1.0	20	0	123	77 - 126	24.83	0.72	20	
Styrene	22.77	1.0	20	0	114	78 - 123	22.57	0.908	20	
tert-Butylbenzene	24.38	1.0	20	0	122	78 - 124	24.05	1.36	20	
Tetrachloroethene	26.18	1.0	20	0	131	74 - 129	25.37	3.13	20	S
Toluene	23.07	1.0	20	0	115	80 - 121	23.03	0.163	20	
trans-1,2-Dichloroethene	21.71	1.0	20	0	109	75 - 124	21.73	0.0883	20	
trans-1,3-Dichloropropene	21.36	1.0	20	0	107	73 - 127	21.33	0.142	20	
Trichloroethene	22.5	1.0	20	0	113	79 - 123	22.95	1.94	20	
Trichlorofluoromethane	25.25	1.0	20	0	126	65 - 141	25.41	0.608	20	
Vinyl chloride	20.06	1.0	20	0	100	58 - 137	19.88	0.875	20	
Surr: 1,2-Dichloroethane-d4	*53.01*	*1.0*	*50*	*0*	*106*	*81 - 118*	*53.52*	*0.952*	*20*	
Surr: 4-Bromofluorobenzene	*50.56*	*1.0*	*50*	*0*	*101*	*85 - 114*	*50.52*	*0.0774*	*20*	
Surr: Dibromofluoromethane	*49.96*	*1.0*	*50*	*0*	*99.9*	*80 - 119*	*50.5*	*1.08*	*20*	
Surr: Toluene-d8	*55.03*	*1.0*	*50*	*0*	*110*	*89 - 112*	*54.24*	*1.45*	*20*	

ALS Houston, US Date: 09-Jul-23

Client:	Bhate Environmental Associates, Inc.
Project:	LHAAP Site18/24
WorkOrder:	HS23061557

QC BATCH REPORT

Batch ID:	**R439801 (0)**	**Instrument:**	**VOA9**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS23061557-01

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439904 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 15:11**
Client ID: Run ID: **VOA9_439904** SeqNo: **7385681** 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	0.50	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	0.50	1.0								U
1,2,3-Trichloropropane	0.50	1.0								U
1,2,4-Trichlorobenzene	0.50	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	0.50	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	0.50	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	0.50	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	0.50	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	0.50	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

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439904 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 15:11**
Client ID: Run ID: **VOA9_439904** SeqNo: **7385681** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	0.50	2.0								U
Carbon tetrachloride	0.50	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	0.50	1.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	0.50	2.0								U
Naphthalene	0.50	1.0								U
n-Butylbenzene	0.50	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	*53.82*	*1.0*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.21*	*1.0*	*50*	*0*	*98.4*	*85 - 114*				
Surr: Dibromofluoromethane	*49.74*	*1.0*	*50*	*0*	*99.5*	*80 - 119*				
Surr: Toluene-d8	*54.44*	*1.0*	*50*	*0*	*109*	*89 - 112*				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439904 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 14:27**
Client ID: Run ID: **VOA9_439904** SeqNo: **7385680** 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	22.71	1.0	20	0	114	78 - 124				
1,1,1-Trichloroethane	22.44	1.0	20	0	112	74 - 131				
1,1,2,2-Tetrachloroethane	19.29	1.0	20	0	96.5	71 - 121				
1,1,2-Trichloroethane	20.33	1.0	20	0	102	80 - 119				
1,1-Dichloroethane	20.93	1.0	20	0	105	77 - 125				
1,1-Dichloroethene	21.03	1.0	20	0	105	71 - 131				
1,1-Dichloropropene	21.05	1.0	20	0	105	78 - 125				
1,2,3-Trichlorobenzene	18.74	1.0	20	0	93.7	69 - 129				
1,2,3-Trichloropropane	20.23	1.0	20	0	101	73 - 122				
1,2,4-Trichlorobenzene	18.84	1.0	20	0	94.2	69 - 130				
1,2,4-Trimethylbenzene	20.59	1.0	20	0	103	76 - 124				
1,2-Dibromo-3-chloropropane	18.31	1.0	20	0	91.6	62 - 128				
1,2-Dibromoethane	21.08	1.0	20	0	105	77 - 121				
1,2-Dichlorobenzene	19.95	1.0	20	0	99.8	80 - 119				
1,2-Dichloroethane	24.02	1.0	20	0	120	73 - 128				
1,2-Dichloropropane	21.31	1.0	20	0	107	78 - 122				
1,3,5-Trimethylbenzene	20.32	1.0	20	0	102	75 - 124				
1,3-Dichlorobenzene	19.74	1.0	20	0	98.7	80 - 119				
1,3-Dichloropropane	21.17	1.0	20	0	106	80 - 119				
1,4-Dichlorobenzene	19.76	1.0	20	0	98.8	79 - 118				
2,2-Dichloropropane	24.21	1.0	20	0	121	60 - 139				
2-Butanone	43.42	2.0	40	0	109	56 - 143				
2-Chlorotoluene	20.12	1.0	20	0	101	79 - 122				
2-Hexanone	41.35	2.0	40	0	103	57 - 139				
4-Chlorotoluene	21.19	1.0	20	0	106	78 - 122				
4-Isopropyltoluene	19.57	1.0	20	0	97.9	77 - 127				
4-Methyl-2-pentanone	40.8	2.0	40	0	102	67 - 130				
Acetone	59.91	2.0	40	0	150	39 - 160				
Benzene	20.84	1.0	20	0	104	79 - 120				
Bromobenzene	20.12	1.0	20	0	101	80 - 120				
Bromochloromethane	21.2	1.0	20	0	106	78 - 123				
Bromodichloromethane	23.06	1.0	20	0	115	79 - 125				
Bromoform	22.04	1.0	20	0	110	66 - 130				
Bromomethane	20.05	1.0	20	0	100	53 - 141				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439904 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 14:27**
Client ID: Run ID: **VOA9_439904** SeqNo: **7385680** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	48.26	2.0	40	0	121	64 - 133				
Carbon tetrachloride	22.03	1.0	20	0	110	72 - 136				
Chlorobenzene	21.3	1.0	20	0	106	82 - 118				
Chloroethane	20.24	1.0	20	0	101	60 - 138				
Chloroform	21.56	1.0	20	0	108	79 - 124				
Chloromethane	21.48	1.0	20	0	107	50 - 139				
cis-1,2-Dichloroethene	21.63	1.0	20	0	108	78 - 123				
cis-1,3-Dichloropropene	20.44	1.0	20	0	102	75 - 124				
Dibromochloromethane	22.81	1.0	20	0	114	74 - 126				
Dibromomethane	22.25	1.0	20	0	111	79 - 123				
Dichlorodifluoromethane	17.03	1.0	20	0	85.2	32 - 152				
Ethylbenzene	20.59	1.0	20	0	103	79 - 121				
Hexachlorobutadiene	18.05	1.0	20	0	90.3	66 - 134				
Isopropylbenzene	20.9	1.0	20	0	104	72 - 131				
m,p-Xylene	43.23	2.0	40	0	108	80 - 121				
Methylene chloride	21.76	2.0	20	0	109	74 - 124				
Naphthalene	18.93	1.0	20	0	94.6	61 - 128				
n-Butylbenzene	19.14	1.0	20	0	95.7	75 - 128				
n-Propylbenzene	20.16	1.0	20	0	101	76 - 126				
o-Xylene	21.32	1.0	20	0	107	78 - 122				
sec-Butylbenzene	19.33	1.0	20	0	96.7	77 - 126				
Styrene	22.88	1.0	20	0	114	78 - 123				
tert-Butylbenzene	19.72	1.0	20	0	98.6	78 - 124				
Tetrachloroethene	20.2	1.0	20	0	101	74 - 129				
Toluene	21.32	1.0	20	0	107	80 - 121				
trans-1,2-Dichloroethene	22.37	1.0	20	0	112	75 - 124				
trans-1,3-Dichloropropene	20.51	1.0	20	0	103	73 - 127				
Trichloroethene	20.57	1.0	20	0	103	79 - 123				
Trichlorofluoromethane	22.98	1.0	20	0	115	65 - 141				
Vinyl chloride	19	1.0	20	0	95.0	58 - 137				
Surr: 1,2-Dichloroethane-d4	*53.05*	*1.0*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.76*	*1.0*	*50*	*0*	*106*	*85 - 114*				
Surr: Dibromofluoromethane	*51.98*	*1.0*	*50*	*0*	*104*	*80 - 119*				
Surr: Toluene-d8	*49.92*	*1.0*	*50*	*0*	*99.8*	*89 - 112*				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439904 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061557-02MS** Units: **ug/L** Analysis Date: **26-Jun-2023 15:56**
Client ID: **CO4_062023** Run ID: **VOA9_439904** SeqNo: **7385683** 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	23.94	1.0	20	0	120	78 - 124				
1,1,1-Trichloroethane	23.61	1.0	20	0	118	74 - 131				
1,1,2,2-Tetrachloroethane	20.06	1.0	20	0	100	71 - 121				
1,1,2-Trichloroethane	21.38	1.0	20	0	107	80 - 119				
1,1-Dichloroethane	20.96	1.0	20	0	105	77 - 125				
1,1-Dichloroethene	22.46	1.0	20	0	112	71 - 131				
1,1-Dichloropropene	25.32	1.0	20	0	127	78 - 125				S
1,2,3-Trichlorobenzene	20.18	1.0	20	0	101	69 - 129				
1,2,3-Trichloropropane	20.39	1.0	20	0	102	73 - 122				
1,2,4-Trichlorobenzene	21	1.0	20	0	105	69 - 130				
1,2,4-Trimethylbenzene	23.27	1.0	20	0	116	76 - 124				
1,2-Dibromo-3-chloropropane	18.72	1.0	20	0	93.6	62 - 128				
1,2-Dibromoethane	21.59	1.0	20	0	108	77 - 121				
1,2-Dichlorobenzene	22.23	1.0	20	0	111	80 - 119				
1,2-Dichloroethane	24.56	1.0	20	0	123	73 - 128				
1,2-Dichloropropane	21.85	1.0	20	0	109	78 - 122				
1,3,5-Trimethylbenzene	24.33	1.0	20	0	122	75 - 124				
1,3-Dichlorobenzene	22.45	1.0	20	0	112	80 - 119				
1,3-Dichloropropane	21.26	1.0	20	0	106	80 - 119				
1,4-Dichlorobenzene	22.33	1.0	20	0	112	79 - 118				
2,2-Dichloropropane	25.47	1.0	20	0	127	60 - 139				
2-Butanone	34.98	2.0	40	0	87.4	56 - 143				
2-Chlorotoluene	23.36	1.0	20	0	117	79 - 122				
2-Hexanone	37.78	2.0	40	0	94.5	57 - 139				
4-Chlorotoluene	23.89	1.0	20	0	119	78 - 122				
4-Isopropyltoluene	24.95	1.0	20	0	125	77 - 127				
4-Methyl-2-pentanone	39.86	2.0	40	0	99.6	67 - 130				
Acetone	32.52	2.0	40	0	81.3	39 - 160				
Benzene	22.64	1.0	20	0	113	79 - 120				
Bromobenzene	21.91	1.0	20	0	110	80 - 120				
Bromochloromethane	19.65	1.0	20	0	98.2	78 - 123				
Bromodichloromethane	23.54	1.0	20	0	118	79 - 125				
Bromoform	22.61	1.0	20	0	113	66 - 130				
Bromomethane	19.9	1.0	20	0	99.5	53 - 141				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439904 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061557-02MS** Units: **ug/L** Analysis Date: **26-Jun-2023 15:56**
Client ID: **CO4_062023** Run ID: **VOA9_439904** SeqNo: **7385683** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	46	2.0	40	0	115	64 - 133				
Carbon tetrachloride	28.08	1.0	20	0	140	72 - 136				S
Chlorobenzene	22.86	1.0	20	0	114	82 - 118				
Chloroethane	20.89	1.0	20	0	104	60 - 138				
Chloroform	21.05	1.0	20	0	105	79 - 124				
Chloromethane	21.15	1.0	20	0	106	50 - 139				
cis-1,2-Dichloroethene	21.36	1.0	20	0	107	78 - 123				
cis-1,3-Dichloropropene	21.04	1.0	20	0	105	75 - 124				
Dibromochloromethane	23.57	1.0	20	0	118	74 - 126				
Dibromomethane	21.62	1.0	20	0	108	79 - 123				
Dichlorodifluoromethane	17.79	1.0	20	0	89.0	32 - 152				
Ethylbenzene	24.14	1.0	20	0	121	79 - 121				
Hexachlorobutadiene	24.78	1.0	20	0	124	66 - 134				
Isopropylbenzene	26.49	1.0	20	0	132	72 - 131				S
m,p-Xylene	50.91	2.0	40	0	127	80 - 121				S
Methylene chloride	21.12	2.0	20	0	106	74 - 124				
Naphthalene	19.2	1.0	20	0	96.0	61 - 128				
n-Butylbenzene	24.76	1.0	20	0	124	75 - 128				
n-Propylbenzene	25.31	1.0	20	0	127	76 - 126				S
o-Xylene	24.57	1.0	20	0	123	78 - 122				S
sec-Butylbenzene	25.38	1.0	20	0	127	77 - 126				S
Styrene	24.13	1.0	20	0	121	78 - 123				
tert-Butylbenzene	24.92	1.0	20	0	125	78 - 124				S
Tetrachloroethene	25.55	1.0	20	0	128	74 - 129				
Toluene	23.71	1.0	20	0	119	80 - 121				
trans-1,2-Dichloroethene	22.83	1.0	20	0	114	75 - 124				
trans-1,3-Dichloropropene	21.24	1.0	20	0	106	73 - 127				
Trichloroethene	23.2	1.0	20	0	116	79 - 123				
Trichlorofluoromethane	25.92	1.0	20	0	130	65 - 141				
Vinyl chloride	19.93	1.0	20	0	99.7	58 - 137				
Surr: 1,2-Dichloroethane-d4	*52.03*	*1.0*	*50*	*0*	*104*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.87*	*1.0*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*50.31*	*1.0*	*50*	*0*	*101*	*80 - 119*				
Surr: Toluene-d8	*54.26*	*1.0*	*50*	*0*	*109*	*89 - 112*				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439904 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061557-02MSD** Units: **ug/L** Analysis Date: **26-Jun-2023 16:19**
Client ID: **CO4_062023** Run ID: **VOA9_439904** SeqNo: **7385684** 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	23.22	1.0	20	0	116	78 - 124	23.94	3.08	20	
1,1,1-Trichloroethane	22.63	1.0	20	0	113	74 - 131	23.61	4.26	20	
1,1,2,2-Tetrachloroethane	19.74	1.0	20	0	98.7	71 - 121	20.06	1.63	20	
1,1,2-Trichloroethane	20.75	1.0	20	0	104	80 - 119	21.38	3.01	20	
1,1-Dichloroethane	19.63	1.0	20	0	98.2	77 - 125	20.96	6.52	20	
1,1-Dichloroethene	21.59	1.0	20	0	108	71 - 131	22.46	3.95	20	
1,1-Dichloropropene	24.45	1.0	20	0	122	78 - 125	25.32	3.48	20	
1,2,3-Trichlorobenzene	20.61	1.0	20	0	103	69 - 129	20.18	2.13	20	
1,2,3-Trichloropropane	20.42	1.0	20	0	102	73 - 122	20.39	0.135	20	
1,2,4-Trichlorobenzene	21.08	1.0	20	0	105	69 - 130	21	0.384	20	
1,2,4-Trimethylbenzene	23.36	1.0	20	0	117	76 - 124	23.27	0.376	20	
1,2-Dibromo-3-chloropropane	19.45	1.0	20	0	97.2	62 - 128	18.72	3.8	20	
1,2-Dibromoethane	21.51	1.0	20	0	108	77 - 121	21.59	0.375	20	
1,2-Dichlorobenzene	21.52	1.0	20	0	108	80 - 119	22.23	3.27	20	
1,2-Dichloroethane	23.24	1.0	20	0	116	73 - 128	24.56	5.51	20	
1,2-Dichloropropane	21.24	1.0	20	0	106	78 - 122	21.85	2.81	20	
1,3,5-Trimethylbenzene	24.34	1.0	20	0	122	75 - 124	24.33	0.0199	20	
1,3-Dichlorobenzene	21.98	1.0	20	0	110	80 - 119	22.45	2.13	20	
1,3-Dichloropropane	21.47	1.0	20	0	107	80 - 119	21.26	0.981	20	
1,4-Dichlorobenzene	21.75	1.0	20	0	109	79 - 118	22.33	2.62	20	
2,2-Dichloropropane	24.88	1.0	20	0	124	60 - 139	25.47	2.34	20	
2-Butanone	34.76	2.0	40	0	86.9	56 - 143	34.98	0.623	20	
2-Chlorotoluene	23	1.0	20	0	115	79 - 122	23.36	1.55	20	
2-Hexanone	37.22	2.0	40	0	93.1	57 - 139	37.78	1.5	20	
4-Chlorotoluene	23.64	1.0	20	0	118	78 - 122	23.89	1.04	20	
4-Isopropyltoluene	24.79	1.0	20	0	124	77 - 127	24.95	0.618	20	
4-Methyl-2-pentanone	39.53	2.0	40	0	98.8	67 - 130	39.86	0.817	20	
Acetone	34.05	2.0	40	0	85.1	39 - 160	32.52	4.61	20	
Benzene	21.84	1.0	20	0	109	79 - 120	22.64	3.6	20	
Bromobenzene	21.43	1.0	20	0	107	80 - 120	21.91	2.2	20	
Bromochloromethane	18.96	1.0	20	0	94.8	78 - 123	19.65	3.58	20	
Bromodichloromethane	22.68	1.0	20	0	113	79 - 125	23.54	3.69	20	
Bromoform	21.92	1.0	20	0	110	66 - 130	22.61	3.13	20	
Bromomethane	19.2	1.0	20	0	96.0	53 - 141	19.9	3.59	20	

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439904 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061557-02MSD** Units: **ug/L** Analysis Date: **26-Jun-2023 16:19**
Client ID: **CO4_062023** Run ID: **VOA9_439904** SeqNo: **7385684** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	45.27	2.0	40	0	113	64 - 133	46	1.6	20	
Carbon tetrachloride	26.54	1.0	20	0	133	72 - 136	28.08	5.65	20	
Chlorobenzene	22.61	1.0	20	0	113	82 - 118	22.86	1.1	20	
Chloroethane	20.49	1.0	20	0	102	60 - 138	20.89	1.94	20	
Chloroform	20.18	1.0	20	0	101	79 - 124	21.05	4.22	20	
Chloromethane	20.83	1.0	20	0	104	50 - 139	21.15	1.54	20	
cis-1,2-Dichloroethene	20.05	1.0	20	0	100	78 - 123	21.36	6.32	20	
cis-1,3-Dichloropropene	20.86	1.0	20	0	104	75 - 124	21.04	0.822	20	
Dibromochloromethane	22.83	1.0	20	0	114	74 - 126	23.57	3.16	20	
Dibromomethane	21.72	1.0	20	0	109	79 - 123	21.62	0.477	20	
Dichlorodifluoromethane	17.14	1.0	20	0	85.7	32 - 152	17.79	3.74	20	
Ethylbenzene	23.45	1.0	20	0	117	79 - 121	24.14	2.93	20	
Hexachlorobutadiene	24.28	1.0	20	0	121	66 - 134	24.78	2.01	20	
Isopropylbenzene	25.49	1.0	20	0	127	72 - 131	26.49	3.82	20	
m,p-Xylene	48.58	2.0	40	0	121	80 - 121	50.91	4.67	20	S
Methylene chloride	20.01	2.0	20	0	100	74 - 124	21.12	5.37	20	
Naphthalene	20.59	1.0	20	0	103	61 - 128	19.2	6.99	20	
n-Butylbenzene	25.07	1.0	20	0	125	75 - 128	24.76	1.25	20	
n-Propylbenzene	25.15	1.0	20	0	126	76 - 126	25.31	0.627	20	
o-Xylene	23.71	1.0	20	0	119	78 - 122	24.57	3.57	20	
sec-Butylbenzene	25.13	1.0	20	0	126	77 - 126	25.38	1.02	20	
Styrene	23.91	1.0	20	0	120	78 - 123	24.13	0.901	20	
tert-Butylbenzene	24.86	1.0	20	0	124	78 - 124	24.92	0.244	20	S
Tetrachloroethene	25.11	1.0	20	0	126	74 - 129	25.55	1.74	20	
Toluene	23.41	1.0	20	0	117	80 - 121	23.71	1.28	20	
trans-1,2-Dichloroethene	21.68	1.0	20	0	108	75 - 124	22.83	5.2	20	
trans-1,3-Dichloropropene	20.84	1.0	20	0	104	73 - 127	21.24	1.9	20	
Trichloroethene	22.24	1.0	20	0	111	79 - 123	23.2	4.25	20	
Trichlorofluoromethane	24.9	1.0	20	0	124	65 - 141	25.92	4.01	20	
Vinyl chloride	20.25	1.0	20	0	101	58 - 137	19.93	1.56	20	
Surr: 1,2-Dichloroethane-d4	*51.2*	*1.0*	*50*	*0*	*102*	*81 - 118*	*52.03*	*1.61*	*20*	
Surr: 4-Bromofluorobenzene	*50.9*	*1.0*	*50*	*0*	*102*	*85 - 114*	*51.87*	*1.89*	*20*	
Surr: Dibromofluoromethane	*49.57*	*1.0*	*50*	*0*	*99.1*	*80 - 119*	*50.31*	*1.48*	*20*	
Surr: Toluene-d8	*54.66*	*1.0*	*50*	*0*	*109*	*89 - 112*	*54.26*	*0.742*	*20*	

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R439904 (0)	Instrument: VOA9	Method: VOLATILES ORGANICS BY METHOD 8260C

The following samples were analyzed in this batch:

HS23061557-02	HS23061557-03	HS23061557-04	HS23061557-05
HS23061557-06	HS23061557-07	HS23061557-08	HS23061557-09

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R440137 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-230628** Units: **ug/L** Analysis Date: **28-Jun-2023 13:28**
Client ID: Run ID: **VOA9_440137** SeqNo: **7391394** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*53.18*	*1.0*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*46.93*	*1.0*	*50*	*0*	*93.9*	*85 - 114*				
Surr: Dibromofluoromethane	*49.81*	*1.0*	*50*	*0*	*99.6*	*80 - 119*				
Surr: Toluene-d8	*53.83*	*1.0*	*50*	*0*	*108*	*89 - 112*				

LCS Sample ID: **VLCSW-230628** Units: **ug/L** Analysis Date: **28-Jun-2023 12:44**
Client ID: Run ID: **VOA9_440137** SeqNo: **7391393** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	22.1	1.0	20	0	111	79 - 123				
Surr: 1,2-Dichloroethane-d4	*51.67*	*1.0*	*50*	*0*	*103*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.69*	*1.0*	*50*	*0*	*105*	*85 - 114*				
Surr: Dibromofluoromethane	*50.09*	*1.0*	*50*	*0*	*100*	*80 - 119*				
Surr: Toluene-d8	*50.69*	*1.0*	*50*	*0*	*101*	*89 - 112*				

MS Sample ID: **HS23061825-05MS** Units: **ug/L** Analysis Date: **28-Jun-2023 14:58**
Client ID: Run ID: **VOA9_440137** SeqNo: **7391398** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	23.9	1.0	20	0	120	79 - 123				
Surr: 1,2-Dichloroethane-d4	*52.06*	*1.0*	*50*	*0*	*104*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.85*	*1.0*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*50.57*	*1.0*	*50*	*0*	*101*	*80 - 119*				
Surr: Toluene-d8	*54.6*	*1.0*	*50*	*0*	*109*	*89 - 112*				

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

QC BATCH REPORT

Batch ID: R440137 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061825-05MSD** Units: **ug/L** Analysis Date: **28-Jun-2023 15:20**
Client ID: Run ID: **VOA9_440137** SeqNo: **7391399** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	22.16	1.0	20	0	111	79 - 123	23.9	7.56	20	
Surr: 1,2-Dichloroethane-d4	*51.81*	*1.0*	*50*	*0*	*104*	*81 - 118*	*52.06*	*0.47*	*20*	
Surr: 4-Bromofluorobenzene	*51.63*	*1.0*	*50*	*0*	*103*	*85 - 114*	*50.85*	*1.52*	*20*	
Surr: Dibromofluoromethane	*49.91*	*1.0*	*50*	*0*	*99.8*	*80 - 119*	*50.57*	*1.3*	*20*	
Surr: Toluene-d8	*53.97*	*1.0*	*50*	*0*	*108*	*89 - 112*	*54.6*	*1.15*	*20*	

The following samples were analyzed in this batch: HS23061557-03

ALS Houston, US Date: 09-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: **HS23061557**

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 09-Jul-23

Sample Receipt Checklist

Work Order ID: HS23061557 **Date/Time Received:** 22-Jun-2023 09:25

Client Name: Bhate Environmental **Received by:** Corey Grandits

Completed By: /S/ Corey Grandits (eSignature) 22-Jun-2023 18:46 (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):	1.8UC/1.7C	IR31
Cooler(s)/Kit(s):	49124	
Date/Time sample(s) sent to storage:	6/22/23	

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:

bhate

Page: ____ of ____

Project/Phase No: JVPCIBH.0001

COC Number(1): ____

UMS Number: ____

1508 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Sample Analysis Requested (5) | Quality Assurance Samples (6)

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1, 4 - DIOXANE	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
18MW22_062123	21-Jun-2023	0700	-	N		WG	6	X	X	X	X				
CO4_062123	21-Jun-2023	0745	-	N		WG	4	X	X						
CO4_062123_MS	21-Jun-2023	0745	-	MS		WG	4	X	X						
CO4_062123_MSD	21-Jun-2023	0745		SD		WG	4	X	X						
18CPTMW14_062123	21-Jun-2023	0840		N		WG	6	X	X	X	X				
18CPTMW24_062123	21-Jun-2023	0935	-	N		WG	5	X	X		X				
18CPTMW07_062123	21-Jun-2023	1020	-	N		WG	5	X	X		X				
18MW25_062123	21-Jun-2023	1110	-	N		WG	6	X	X	X	X				
MW10_062123	21-Jun-2023	1155	-	N		WG	5	X	X		X				
MW20_062123	21-Jun-2023	1240	-	N		WG	5	X	X	X					
TRIP BLANK	21-Jun-2023		-	TB		W	2	X							

HS23061557

Bhate Environmental Associates, Inc.
LHAAP Site18/24

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Scott Beesinger	6/21/23	1330	[illegible]	6.22.23	09.25
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped ____ No.:

Method of Shipment: ____

Fed Ex ____ Airbill Number: ____

Analytical Lab: ALS 10450 Stanchiff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dana Wagasey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

4 9/24

Ulc 1.8

10A71 c/c -2.1

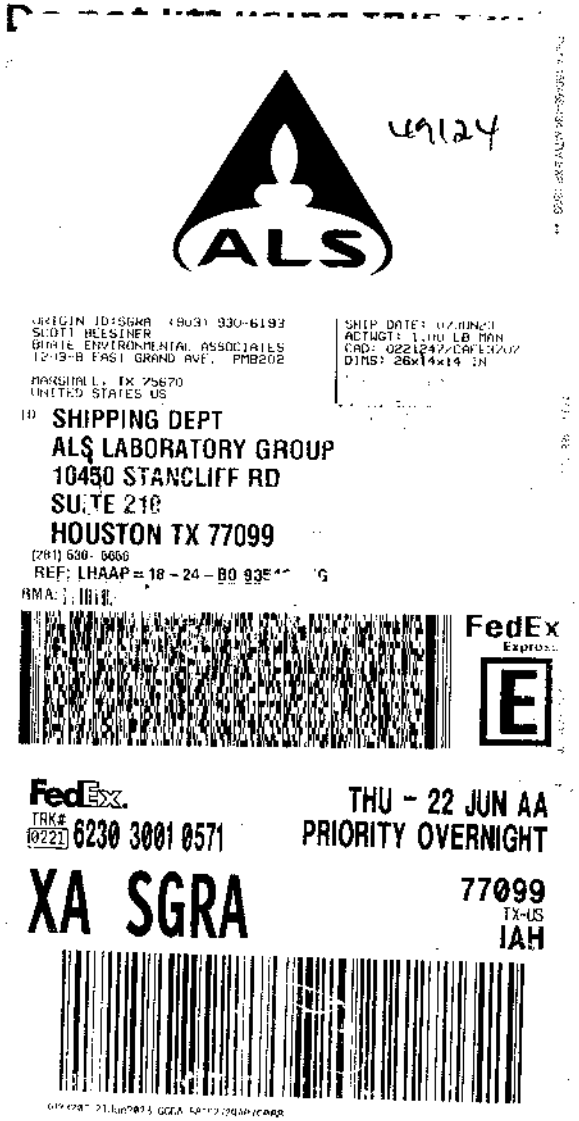
ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

49124

CUSTODY SEAL
Date: 6/21/23 Time: 1930
Name: Scott Bee
Company: B Harris

Seal Broken By: Guy
Date: 06/22/23

49124 JUN 2 2 2023



June 28, 2023 Service Request No:E2300588

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

Laboratory Results for: HS23061557

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory June 22, 2023
For your reference, these analyses have been assigned our service request number **E2300588.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300588
Project:	HS23061557	**Date Received:**	06/22/23
Sample Matrix:	Ground 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 II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 06/22/23.

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:

EQ2300306: 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 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:**E2300588
Project: HS23061557

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300588-001	18WW22_062123	6/21/2023	0700
E2300588-002	CO4_062023	6/21/2023	0745
E2300588-003	18CPTMW14_062123	6/21/2023	0840
E2300588-004	18CPTMW24_062123	6/21/2023	0935
E2300588-005	18CPTMW07_062123	6/21/2023	1020
E2300588-006	18WW25_062123	6/21/2023	1110
E2300588-007	MW10_062123	6/21/2023	1155
E2300588-008	MW20_062123	6/21/2023	1240

Service Request Summary

Folder #: **E2300588**
Client Name: ALS Environmental - US
Project Name: HS23061557
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/22/23
Internal Due Date: 7/7/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061557
EDD: No EDD Specified

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300588-001	18WW22_062123	Ground Water	06/21/23 0700	**IV**
E2300588-002	CO4_062023	Ground Water	06/21/23 0745	**IV**
E2300588-003	18CPTMW14_062123	Ground Water	06/21/23 0840	**IV**
E2300588-004	18CPTMW24_062123	Ground Water	06/21/23 0935	**IV**
E2300588-005	18CPTMW07_062123	Ground Water	06/21/23 1020	**IV**
E2300588-006	18WW25_062123	Ground Water	06/21/23 1110	**IV**
E2300588-007	MW10_062123	Ground Water	06/21/23 1155	**IV**
E2300588-008	MW20_062123	Ground Water	06/21/23 1240	**IV**

Service Request Summary

Folder #: **E2300588**
Client Name: ALS Environmental - US
Project Name: HS23061557
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/22/23
Internal Due Date: 7/7/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061557
EDD: No EDD Specified

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	1	ms/msd

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

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

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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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 22134

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@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:	HS23061557
TSR:	Holly Tignac

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23061557-01**	**18WW22_062123**	**Water**	**21 Jun 2023 07:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
2.	**HS23061557-02**	**CO4_062023**	**Water**	**21 Jun 2023 07:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
3.	**HS23061557-03**	**18CPTMW14_062123**	**Water**	**21 Jun 2023 08:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
4.	**HS23061557-04**	**18CPTMW24_062123**	**Water**	**21 Jun 2023 09:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
5.	**HS23061557-05**	**18CPTMW07_062123**	**Water**	**21 Jun 2023 10:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
6.	**HS23061557-06**	**18WW25_062123**	**Water**	**21 Jun 2023 11:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
7.	**HS23061557-07**	**MW10_062123**	**Water**	**21 Jun 2023 11:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
8.	**HS23061557-08**	**MW20_062123**	**Water**	**21 Jun 2023 12:40**

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 22134

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD		07 Jul 2023

Comments: CO4_062023 ms/msd

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: NIR Date/Time:

Received By: Date/Time: 6.22.23 1800

Cooler ID(s): Temperature(s):

Cooler Receipt Form

ALS Environmental

Project Chemist JG

Client/Project ALS Thermometer ID IR31

Date/Time Received: 6.22.23 Initials: CJ Date/Time Logged in: 6.22.23 Initials IC

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☒ Courier (ALS) ○ Client

2. Samples received in: ☒ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☒ No If yes, how many and where?
Were they intact? ○ Yes ○ No ☒ N/A
Were they signed and dated? ○ Yes ○ No ☒ N/A

4. Packing Material: ○ Inserts ☒ Baggies ○ Bubble Wrap ○ Gel Packs ☒ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		6.22.23	1300	IM	0.8	☒
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☒ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☒ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☒ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ☒ Yes ○ No
10. Did sample labels and tags agree with custody documents? ☒ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

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Houston, TX 77099
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F: +1 281 530 5887
www.alsglobal.com

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#: 422007 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/26/23 08:27

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300577-001	18CPTMW16_061923	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300577-002	18WW14_061923	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2300577-003	CO1_061923	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2300577-004	CO1_061923_a_	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300577-005	123_061923	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2300588-001	18WW22_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300588-002	CO4_062023	.02	6850/ClO4 DOD			Ground Water	10mL	
8	E2300588-003	18CPTMW14_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2300588-004	18CPTMW24_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2300588-005	18CPTMW07_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2300588-006	18WW25_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2300588-007	MW10_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2300588-008	MW20_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2300606-002	AAR3334	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2300606-003	AAR3335	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2300606-004	AAR3336	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2300606-005	AAR3339	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2300606-006	AAR3343	.01	6850/ClO4 DOD			Ground Water	10mL	
19	E2300606-007	AAR3344	.01	6850/ClO4 DOD			Ground Water	10mL	
20	E2300606-009	AAR3350	.01	6850/ClO4 DOD			Ground Water	10mL	
21	EQ2300306-01	MB		6850/ClO4			Liquid	10mL	
22	EQ2300306-02	LCS		6850/ClO4			Liquid	10mL	
23	EQ2300306-03	DLCS		6850/ClO4			Liquid	10mL	
24	EQ2300306-04	CO4_062023 MS	.02	6850/ClO4 DOD			Liquid	10mL	
25	EQ2300306-05	CO4_062023 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
26	EQ2300306-06	18WW14_061923 MS	.02	6850/ClO4 DOD			Liquid	10mL	
27	EQ2300306-07	18WW14_061923 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300306-02 1.00µL EQ2300306-02 1.00µL EQ2300306-03 1.00µL EQ2300306-03 1.00µL EQ2300306-04 1.00µL EQ2300306-05 1.00µL
EQ2300306-06 1.00µL EQ2300306-07 1.00µL

Preparation Information Benchsheet

Prep Run#: 422007 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/26/23 08:27

Name:	Perchlorate Internal Standard 1ug/mL	Inventory ID	227244	Logbook Ref:	Perchlorate Internal Standard	Expires On:	07/31/2023

E2300577-001	100.00µL	E2300577-002	100.00µL	E2300577-003	100.00µL	E2300577-004	100.00µL	E2300577-005	100.00µL	E2300588-001	100.00µL
E2300588-002	100.00µL	E2300588-003	100.00µL	E2300588-004	100.00µL	E2300588-005	100.00µL	E2300588-006	100.00µL	E2300588-007	100.00µL
E2300588-008	100.00µL	EQ2300306-01	100.00µL	EQ2300306-01	100.00µL	EQ2300306-02	100.00µL	EQ2300306-02	100.00µL	EQ2300306-03	100.00µL
EQ2300306-03	100.00µL	EQ2300306-04	100.00µL	EQ2300306-05	100.00µL	EQ2300306-06	100.00µL	EQ2300306-07	100.00µL		

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229314)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 0.45um syringe (229005)
6850 Luer-Lok Syringes	luer-lock syringes (228116)				

Preparation Steps

Step: Preparation
Started: 6/26/23 08:27
Finished: 6/26/23 09:30
By: XMI
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0700
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18WW22_062123	**Units:**	µg/L
Lab Code:	E2300588-001	**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	**0.421**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 11:35	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0745
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	CO4_062023	**Units:**	µg/L
Lab Code:	E2300588-002	**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	**0.233**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 11:41	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0840
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18CPTMW14_062123	**Units:**	µg/L
Lab Code:	E2300588-003	**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	**4710**		50.0	25.0	12.5	500	6/26/23	6/27/23 11:57	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0935
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18CPTMW24_062123	**Units:**	µg/L
Lab Code:	E2300588-004	**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	**85.9**		0.500	0.250	0.125	5	6/26/23	6/27/23 12:53	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 1020
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18CPTMW07_062123	**Units:**	µg/L
Lab Code:	E2300588-005	**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	**1.37**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 12:14	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 1110
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18WW25_062123	**Units:**	µg/L
Lab Code:	E2300588-006	**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	6/26/23	6/27/23 12:20	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 1155
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	MW10_062123	**Units:**	µg/L
Lab Code:	E2300588-007	**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	6/26/23	6/27/23 12:25	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 1240
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	MW20_062123	**Units:**	µg/L
Lab Code:	E2300588-008	**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	**0.0494**	J	0.100	0.0500	0.0250	1	6/26/23	6/27/23 12:31	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300306-01	**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	6/26/23	6/27/23 09:14	422007	808869	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061557
Sample Matrix: Ground Water

Service Request: E2300588
Date Analyzed: 6/27/23

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: 422007

	Lab Control Sample EQ2300306-02			Duplicate Lab Control Sample EQ2300306-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0943	0.100	94	0.107	0.100	107	84 - 119	12	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:**	E2300588
Project:	HS23061557	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300306-02	**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	**0.0943**	J	0.100	0.0500	0.0250	1	6/26/23	6/27/23 09:19	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300306-03	**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	**0.107**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 09:37	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
		Date Analyzed:	6/27/23

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

Sample Name:	CO4_062023	**Units:**	µg/L
Lab Code:	E2300588-002	**Basis:**	NA

Analytical Method: 6850
Prep Method: Method

		CO4_062023MS				CO4_062023DMS					
		Matrix Spike				**Duplicate Matrix Spike**					
		EQ2300306-04				EQ2300306-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.233	0.330	0.100	97	0.335	0.100	102	84 - 119	2	15

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

Results flagged with a pound (#) indicate the control criteria is not applicable.

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:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0745
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	CO4_062023	**Units:**	µg/L
Lab Code:	EQ2300306-04	**Basis:**	NA
Run Type:	Matrix Spike		

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	**0.330**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 11:46	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0745
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	CO4_062023	**Units:**	µg/L
Lab Code:	EQ2300306-05	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

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	**0.335**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 11:52	422007	808869	

HS23061557-MSVOA-SW8260

ALS WO# HS23061557

01199386

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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 LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-01 | **18WW22_062123** | Collected: 06/21/23 07:00 | Received: 06/22/23 09:25 | Matrix: Water | Basis: 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	06/24/23 21:14	VOA9_439801	U062427.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/24/23 21:14	VOA9_439801	U062427.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/24/23 21:14	VOA9_439801	U062427.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-01 | **Collected** | **Received** | **Matrix** | **Basis**

18WW22_062123 | 06/21/23 07:00 | 06/22/23 09:25 | 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	06/24/23 21:14	VOA9_439801	U062427.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 21:14	VOA9_439801	U062427.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-02

CO4_062023

Collected	Received	Matrix	Basis
06/21/23 07:45	06/22/23 09:25	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	06/26/23 15:34	VOA9_439904	U062608.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 15:34	VOA9_439904	U062608.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 15:34	VOA9_439904	U062608.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-02

CO4_062023

Collected	Received	Matrix	Basis
06/21/23 07:45	06/22/23 09:25	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	06/26/23 15:34	VOA9_439904	U062608.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:34	VOA9_439904	U062608.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-03

18CPTMW14_062123

Collected	Received	Matrix	Basis
06/21/23 08:40	06/22/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,1,1-Trichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,1,2,2-Tetrachloroethane	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,1,2-Trichloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,1-Dichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,1-Dichloroethene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,1-Dichloropropene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,2,3-Trichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,2,3-Trichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,2,4-Trichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,2,4-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,2-Dibromo-3-chloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,2-Dibromoethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,2-Dichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,2-Dichloroethane	ug/L	12		1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,2-Dichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,3,5-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,3-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,3-Dichloropropane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
1,4-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
2,2-Dichloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
2-Butanone	ug/L	10	U	2.5	10	10	5	06/26/23 20:25	VOA9_439904	U062621.D
2-Chlorotoluene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
2-Hexanone	ug/L	10	U	5.0	10	10	5	06/26/23 20:25	VOA9_439904	U062621.D
4-Chlorotoluene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
4-Isopropyltoluene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
4-Methyl-2-pentanone	ug/L	10	U	3.5	10	10	5	06/26/23 20:25	VOA9_439904	U062621.D
Acetone	ug/L	10	U	2.0	10	10	5	06/26/23 20:25	VOA9_439904	U062621.D
Benzene	ug/L	3.1	J	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Bromobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Bromochloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Bromodichloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Bromoform	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-03	Collected	Received	Matrix	Basis
18CPTMW14_062123	06/21/23 08:40	06/22/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Carbon disulfide	ug/L	10	U	3.0	10	10	5	06/26/23 20:25	VOA9_439904	U062621.D
Carbon tetrachloride	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Chlorobenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Chloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Chloroform	ug/L	19		1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Chloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
cis-1,2-Dichloroethene	ug/L	21		1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
cis-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Dibromochloromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Dibromomethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Dichlorodifluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Ethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Hexachlorobutadiene	ug/L	5.0	U	5.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Isopropylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
m,p-Xylene	ug/L	10	U	2.5	10	10	5	06/26/23 20:25	VOA9_439904	U062621.D
Methylene chloride	ug/L	10	U	2.0	10	10	5	06/26/23 20:25	VOA9_439904	U062621.D
Naphthalene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
n-Butylbenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
n-Propylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
o-Xylene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
sec-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Styrene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
tert-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Tetrachloroethene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Toluene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
trans-1,2-Dichloroethene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
trans-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Trichloroethene	ug/L	1,700		10	50	50	50	06/28/23 15:43	VOA9_440137	U062813.D
Trichlorofluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D
Vinyl chloride	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:25	VOA9_439904	U062621.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-04

18CPTMW24_062123

Collected	Received	Matrix	Basis
06/21/23 09:35	06/22/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,1,1-Trichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,1,2,2-Tetrachloroethane	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,1,2-Trichloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,1-Dichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,1-Dichloroethene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,1-Dichloropropene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,2,3-Trichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,2,3-Trichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,2,4-Trichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,2,4-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,2-Dibromo-3-chloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,2-Dibromoethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,2-Dichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,2-Dichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,2-Dichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,3,5-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,3-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,3-Dichloropropane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
1,4-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
2,2-Dichloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
2-Butanone	ug/L	10	U	2.5	10	10	5	06/26/23 20:03	VOA9_439904	U062620.D
2-Chlorotoluene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
2-Hexanone	ug/L	10	U	5.0	10	10	5	06/26/23 20:03	VOA9_439904	U062620.D
4-Chlorotoluene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
4-Isopropyltoluene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
4-Methyl-2-pentanone	ug/L	10	U	3.5	10	10	5	06/26/23 20:03	VOA9_439904	U062620.D
Acetone	ug/L	10	U	2.0	10	10	5	06/26/23 20:03	VOA9_439904	U062620.D
Benzene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Bromobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Bromochloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Bromodichloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Bromoform	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-04	Collected	Received	Matrix	Basis
18CPTMW24_062123	06/21/23 09:35	06/22/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Carbon disulfide	ug/L	10	U	3.0	10	10	5	06/26/23 20:03	VOA9_439904	U062620.D
Carbon tetrachloride	ug/L	5.0	U	2.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Chlorobenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Chloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Chloroform	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Chloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
cis-1,2-Dichloroethene	ug/L	13		1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
cis-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Dibromochloromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Dibromomethane	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Dichlorodifluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Ethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Hexachlorobutadiene	ug/L	5.0	U	5.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Isopropylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
m,p-Xylene	ug/L	10	U	2.5	10	10	5	06/26/23 20:03	VOA9_439904	U062620.D
Methylene chloride	ug/L	10	U	2.0	10	10	5	06/26/23 20:03	VOA9_439904	U062620.D
Naphthalene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
n-Butylbenzene	ug/L	5.0	U	2.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
n-Propylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
o-Xylene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
sec-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Styrene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
tert-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Tetrachloroethene	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Toluene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
trans-1,2-Dichloroethene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
trans-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Trichloroethene	ug/L	17		1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Trichlorofluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D
Vinyl chloride	ug/L	59		1.0	5.0	5.0	5	06/26/23 20:03	VOA9_439904	U062620.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-05

18CPTMW07_062123

Collected	Received	Matrix	Basis
06/21/23 10:20	06/22/23 09:25	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	06/26/23 18:33	VOA9_439904	U062616.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:33	VOA9_439904	U062616.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 18:33	VOA9_439904	U062616.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-05			Collected	Received	Matrix	Basis
18CPTMW07_062123			06/21/23 10:20	06/22/23 09:25	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	06/26/23 18:33	VOA9_439904	U062616.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Trichloroethene	ug/L	1.6		0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:33	VOA9_439904	U062616.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-06

18WW25_062123

Collected	Received	Matrix	Basis
06/21/23 11:10	06/22/23 09:25	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	06/26/23 18:55	VOA9_439904	U062617.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:55	VOA9_439904	U062617.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 18:55	VOA9_439904	U062617.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-06

18WW25_062123

Collected	Received	Matrix	Basis
06/21/23 11:10	06/22/23 09:25	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	06/26/23 18:55	VOA9_439904	U062617.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:55	VOA9_439904	U062617.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-07 | **MW10_062123**

Collected	Received	Matrix	Basis
06/21/23 11:55	06/22/23 09:25	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	06/26/23 19:18	VOA9_439904	U062618.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 19:18	VOA9_439904	U062618.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 19:18	VOA9_439904	U062618.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-07	Collected	Received	Matrix	Basis
MW10_062123	06/21/23 11:55	06/22/23 09:25	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	06/26/23 19:18	VOA9_439904	U062618.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Trichloroethene	ug/L	1.3		0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:18	VOA9_439904	U062618.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-08

MW20_062123

Collected	Received	Matrix	Basis
06/21/23 12:40	06/22/23 09:25	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	06/26/23 19:40	VOA9_439904	U062619.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 19:40	VOA9_439904	U062619.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 19:40	VOA9_439904	U062619.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-08	Collected	Received	Matrix	Basis
MW20_062123	06/21/23 12:40	06/22/23 09:25	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	06/26/23 19:40	VOA9_439904	U062619.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:40	VOA9_439904	U062619.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-09

Trip Blank

Collected	Received	Matrix	Basis
06/21/23 00:00	06/22/23 09:25	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	06/26/23 18:11	VOA9_439904	U062615.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:11	VOA9_439904	U062615.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 18:11	VOA9_439904	U062615.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

HS23061557-09

Trip Blank

Collected	Received	Matrix	Basis
06/21/23 00:00	06/22/23 09:25	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	06/26/23 18:11	VOA9_439904	U062615.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:11	VOA9_439904	U062615.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

VBLKW-230624	Collected	Received	Matrix	Basis
VBLKW-230624	NA	NA	Aqueous	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	06/24/23 13:46	VOA9_439801	U062407.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/24/23 13:46	VOA9_439801	U062407.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/24/23 13:46	VOA9_439801	U062407.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

VBLKW-230624	Collected	Received	Matrix	Basis
VBLKW-230624	NA	NA	Aqueous	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	06/24/23 13:46	VOA9_439801	U062407.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/24/23 13:46	VOA9_439801	U062407.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

VBLKW-230626	Collected	Received	Matrix	Basis
VBLKW-230626	NA	NA	Aqueous	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	06/26/23 15:11	VOA9_439904	U062607.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 15:11	VOA9_439904	U062607.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 15:11	VOA9_439904	U062607.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

VBLKW-230626	Collected	Received	Matrix	Basis
VBLKW-230626	NA	NA	Aqueous	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	06/26/23 15:11	VOA9_439904	U062607.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:11	VOA9_439904	U062607.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

Volatiles by EPA 8260

VBLKW-230628	Collected	Received	Matrix	Basis
VBLKW-230628	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/28/23 13:28	VOA9_440137	U062807.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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 LHAAP Site18/24

Workorder HS23061557

RunID VOA9-439801

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	06/24/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.75	50	104		80-120
4-Bromofluorobenzene	47.85	50	95.7		80-120
Dibromofluoromethane	48.87	50	97.7		80-120
Toluene-d8	54.88	50	110		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	06/24/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.64	50	107		80-120
4-Bromofluorobenzene	55.22	50	110		80-120
Dibromofluoromethane	52.42	50	105		80-120
Toluene-d8	50.43	50	101		80-120

HS23061372-03MS	Analyzed	Conc Units	Dilution
BatchQC	06/24/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.52	50	107		81-118
4-Bromofluorobenzene	50.52	50	101		85-114
Dibromofluoromethane	50.5	50	101		80-119
Toluene-d8	54.24	50	108		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061557

RunID: VOA9-439801

Volatiles by EPA 8260

HS23061372-03MSD	Analyzed	Conc Units	Dilution
BatchQC	06/24/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.01	50	106		81-118
4-Bromofluorobenzene	50.56	50	101		85-114
Dibromofluoromethane	49.96	50	99.9		80-119
Toluene-d8	55.03	50	110		89-112

HS23061557-01	Analyzed	Conc Units	Dilution
18WW22_062123	06/24/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	55	50	109		81-118
4-Bromofluorobenzene	47	50	93.9		85-114
Dibromofluoromethane	50	50	101		80-119
Toluene-d8	55	50	110		89-112

VBLKW-230624	Analyzed	Conc Units	Dilution
VBLKW-230624	06/24/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.06	50	106		81-118
4-Bromofluorobenzene	47.9	50	95.8		85-114
Dibromofluoromethane	50.07	50	100		80-119
Toluene-d8	55.05	50	110		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061557**	

RunID

Volatiles by EPA 8260

VOA9-439801

VLCSW-230624	Analyzed	Conc Units	Dilution
VLCSW-230624	06/24/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.79	50	108		81-118
4-Bromofluorobenzene	52.48	50	105		85-114
Dibromofluoromethane	51.38	50	103		80-119
Toluene-d8	50.79	50	102		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9-439904

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.59	50	103		80-120
4-Bromofluorobenzene	47.8	50	95.6		80-120
Dibromofluoromethane	48.9	50	97.8		80-120
Toluene-d8	54.23	50	108		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.35	50	107		80-120
4-Bromofluorobenzene	52.19	50	104		80-120
Dibromofluoromethane	51.87	50	104		80-120
Toluene-d8	48.67	50	97.3		80-120

HS23061557-02	Analyzed	Conc Units	Dilution
CO4_062023	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53	50	107		81-118
4-Bromofluorobenzene	47	50	94.6		85-114
Dibromofluoromethane	49	50	98.9		80-119
Toluene-d8	53	50	107		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9-439904

Volatiles by EPA 8260

HS23061557-02MS	Analyzed	Conc Units	Dilution
CO4_062023	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52.03	50	104		81-118
4-Bromofluorobenzene	51.87	50	104		85-114
Dibromofluoromethane	50.31	50	101		80-119
Toluene-d8	54.26	50	109		89-112

HS23061557-02MSD	Analyzed	Conc Units	Dilution
CO4_062023	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.2	50	102		81-118
4-Bromofluorobenzene	50.9	50	102		85-114
Dibromofluoromethane	49.57	50	99.1		80-119
Toluene-d8	54.66	50	109		89-112

HS23061557-03	Analyzed	Conc Units	Dilution
18CPTMW14_062123	06/26/23	%REC	5

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	270	250	109		81-118
4-Bromofluorobenzene	240	250	95.7		85-114
Dibromofluoromethane	260	250	102		80-119
Toluene-d8	270	250	107		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9-439904

Volatiles by EPA 8260

HS23061557-04	Analyzed	Conc Units	Dilution
18CPTMW24_062123	06/26/23	%REC	5

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	270	250	110		81-118
4-Bromofluorobenzene	240	250	94.0		85-114
Dibromofluoromethane	260	250	103		80-119
Toluene-d8	270	250	108		89-112

HS23061557-05	Analyzed	Conc Units	Dilution
18CPTMW07_062123	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	54	50	107		81-118
4-Bromofluorobenzene	47	50	94.3		85-114
Dibromofluoromethane	49	50	98.7		80-119
Toluene-d8	55	50	110		89-112

HS23061557-06	Analyzed	Conc Units	Dilution
18WW25_062123	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	55	50	110		81-118
4-Bromofluorobenzene	47	50	94.6		85-114
Dibromofluoromethane	50	50	101		80-119
Toluene-d8	53	50	106		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9-439904

Volatiles by EPA 8260

HS23061557-07	Analyzed	Conc Units	Dilution
MW10_062123	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	54	50	107		81-118
4-Bromofluorobenzene	46	50	92.7		85-114
Dibromofluoromethane	50	50	99.6		80-119
Toluene-d8	55	50	110		89-112

HS23061557-08	Analyzed	Conc Units	Dilution
MW20_062123	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	54	50	108		81-118
4-Bromofluorobenzene	48	50	95.3		85-114
Dibromofluoromethane	50	50	99.9		80-119
Toluene-d8	54	50	108		89-112

HS23061557-09	Analyzed	Conc Units	Dilution
Trip Blank	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	55	50	110		81-118
4-Bromofluorobenzene	47	50	94.5		85-114
Dibromofluoromethane	51	50	102		80-119
Toluene-d8	54	50	108		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061557**	

RunID

Volatiles by EPA 8260

VOA9-439904

VBLKW-230626	Analyzed	Conc Units	Dilution
VBLKW-230626	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.82	50	108		81-118
4-Bromofluorobenzene	49.21	50	98.4		85-114
Dibromofluoromethane	49.74	50	99.5		80-119
Toluene-d8	54.44	50	109		89-112

VLCSW-230626	Analyzed	Conc Units	Dilution
VLCSW-230626	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.05	50	106		81-118
4-Bromofluorobenzene	52.76	50	106		85-114
Dibromofluoromethane	51.98	50	104		80-119
Toluene-d8	49.92	50	99.8		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061557

RunID: VOA9-440137

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.63	50	101		80-120
4-Bromofluorobenzene	48.37	50	96.7		80-120
Dibromofluoromethane	48.54	50	97.1		80-120
Toluene-d8	54.77	50	110		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.71	50	101		80-120
4-Bromofluorobenzene	53.7	50	107		80-120
Dibromofluoromethane	51.33	50	103		80-120
Toluene-d8	50.26	50	101		80-120

HS23061557-03	Analyzed	Conc Units	Dilution
18CPTMW14_062123	06/28/23	%REC	50

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2500	2500	102		81-118
4-Bromofluorobenzene	2400	2500	94.2		85-114
Dibromofluoromethane	2400	2500	96.2		80-119
Toluene-d8	2700	2500	109		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9-440137

Volatiles by EPA 8260

HS23061825-05MS	Analyzed	Conc Units	Dilution
BatchQC	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52.06	50	104		81-118
4-Bromofluorobenzene	50.85	50	102		85-114
Dibromofluoromethane	50.57	50	101		80-119
Toluene-d8	54.6	50	109		89-112

HS23061825-05MSD	Analyzed	Conc Units	Dilution
BatchQC	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.81	50	104		81-118
4-Bromofluorobenzene	51.63	50	103		85-114
Dibromofluoromethane	49.91	50	99.8		80-119
Toluene-d8	53.97	50	108		89-112

VBLKW-230628	Analyzed	Conc Units	Dilution
VBLKW-230628	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	53.18	50	106		81-118
4-Bromofluorobenzene	46.93	50	93.9		85-114
Dibromofluoromethane	49.81	50	99.6		80-119
Toluene-d8	53.83	50	108		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061557**	

RunID

Volatiles by EPA 8260

VOA9-440137

VLCSW-230628	Analyzed	Conc Units	Dilution
VLCSW-230628	06/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51.67	50	103		81-118
4-Bromofluorobenzene	52.69	50	105		85-114
Dibromofluoromethane	50.09	50	100		80-119
Toluene-d8	50.69	50	101		89-112

01199422

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

RunID VOA9-439801

Volatiles by EPA 8260

BatchQC (HS23061372-03)				HS23061372-03MS				HS23061372-03MSD						
Sample Matrix: Aqueous			Run Date	06/24/23				06/24/23						
Result Units: ug/L			Run Time	14:31				14:53						
			Data File	U062409.D				U062410.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	22.9	20	115		23.03	20	115		20	0.567	
1,1,1-Trichloroethane	74-131	1	0	24	20	120		23.53	20	118		20	1.96	
1,1,2,2-Tetrachloroethane	71-121	1	0	19.97	20	100		19.37	20	97		20	3.06	
1,1,2-Trichloroethane	80-119	1	0	20.66	20	103		20.92	20	105		20	1.29	
1,1-Dichloroethane	77-125	1	0	20.56	20	103		20.23	20	101		20	1.66	
1,1-Dichloroethene	71-131	1	0	22.22	20	111		22.15	20	111		20	0.347	
1,1-Dichloropropene	78-125	1	0	24.59	20	123		24.47	20	122		20	0.496	
1,2,3-Trichlorobenzene	69-129	1	0	19.42	20	97		19.81	20	99		20	2	
1,2,3-Trichloropropane	73-122	1	0	20.35	20	102		20.18	20	101		20	0.839	
1,2,4-Trichlorobenzene	69-130	1	0	19.85	20	99		20.94	20	105		20	5.36	
1,2,4-Trimethylbenzene	76-124	1	0	23.85	20	119		23.76	20	119		20	0.373	
1,2-Dibromo-3-chloropropane	62-128	1	0	18.23	20	91		18.39	20	92		20	0.846	
1,2-Dibromoethane	77-121	1	0	21.47	20	107		21.67	20	108		20	0.924	
1,2-Dichlorobenzene	80-119	1	0	21.67	20	108		21.22	20	106		20	2.1	
1,2-Dichloroethane	73-128	1	0	23	20	115		22.97	20	115		20	0.157	
1,2-Dichloropropane	78-122	1	0	21.04	20	105		21.41	20	107		20	1.75	
1,3,5-Trimethylbenzene	75-124	1	0	24.58	20	123		24.59	20	123		20	0.0311	
1,3-Dichlorobenzene	80-119	1	0	22.2	20	111		21.5	20	107		20	3.22	
1,3-Dichloropropane	80-119	1	0	21.17	20	106		21.57	20	108		20	1.83	
1,4-Dichlorobenzene	79-118	1	0	21.49	20	107		21.55	20	108		20	0.288	
2,2-Dichloropropane	60-139	1	0	25.96	20	130		25.82	20	129		20	0.547	
2-Butanone	56-143	1	0	35.97	40	90		35.49	40	89		20	1.36	
2-Chlorotoluene	79-122	1	0	23.09	20	115		22.89	20	114		20	0.843	
2-Hexanone	57-139	1	0	37.24	40	93		38.25	40	96		20	2.69	
4-Chlorotoluene	78-122	1	0	23.72	20	119		23.33	20	117		20	1.68	
4-Isopropyltoluene	77-127	1	0	24.81	20	124		24.9	20	125		20	0.369	
4-Methyl-2-pentanone	67-130	1	0	39.19	40	98		39.6	40	99		20	1.04	
Acetone	39-160	1	0	35.32	40	88		36.56	40	91		20	3.45	
Benzene	79-120	1	0	21.84	20	109		21.81	20	109		20	0.131	
Bromobenzene	80-120	1	0	21.71	20	109		21.4	20	107		20	1.45	
Bromochloromethane	78-123	1	0	19.62	20	98		19.22	20	96		20	2.09	
Bromodichloromethane	79-125	1	0	23.64	20	118		23.29	20	116		20	1.53	
Bromoform	66-130	1	0	21.69	20	108		21.59	20	108		20	0.475	
Bromomethane	53-141	1	0	25.9	20	129		23.95	20	120		20	7.8	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

RunID VOA9-439801

Volatiles by EPA 8260

BatchQC (HS23061372-03)				HS23061372-03MS				HS23061372-03MSD						
Sample Matrix: Aqueous			Run Date	06/24/23				06/24/23						
Result Units: ug/L			Run Time	14:31				14:53						
			Data File	U062409.D				U062410.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	46.87	40	117		46.64	40	117		20	0.496	
Carbon tetrachloride	72-136	1	0	27.38	20	137		27.19	20	136		20	0.677	
Chlorobenzene	82-118	1	0	22.67	20	113		22.3	20	112		20	1.61	
Chloroethane	60-138	1	0	21.06	20	105		20.9	20	105		20	0.725	
Chloroform	79-124	1	0	20.68	20	103		20.67	20	103		20	0.0565	
Chloromethane	50-139	1	0	16.86	20	84		16.54	20	83		20	1.96	
cis-1,2-Dichloroethene	78-123	1	0	20.35	20	102		20.79	20	104		20	2.12	
cis-1,3-Dichloropropene	75-124	1	0	20.94	20	105		21.14	20	106		20	0.954	
Dibromochloromethane	74-126	1	0	22.92	20	115		23.49	20	117		20	2.45	
Dibromomethane	79-123	1	0	22.36	20	112		22.1	20	111		20	1.15	
Dichlorodifluoromethane	32-152	1	0	17.96	20	90		18.54	20	93		20	3.16	
Ethylbenzene	79-121	1	0	23.53	20	118		24.17	20	121		20	2.66	
Hexachlorobutadiene	66-134	1	0	24.22	20	121		23.89	20	119		20	1.38	
Isopropylbenzene	72-131	1	0	25.53	20	128		25.7	20	129		20	0.679	
m,p-Xylene	80-121	1	0	49.38	40	123		49.24	40	123		20	0.289	
Methylene chloride	74-124	1	0	20.23	20	101		20.63	20	103		20	1.94	
Naphthalene	61-128	1	0	18.97	20	95		20.3	20	101		20	6.74	
n-Butylbenzene	75-128	1	0	24.13	20	121		24.81	20	124		20	2.78	
n-Propylbenzene	76-126	1	0	24.61	20	123		25.18	20	126		20	2.3	
o-Xylene	78-122	1	0	23.62	20	118		23.45	20	117		20	0.726	
sec-Butylbenzene	77-126	1	0	24.83	20	124		24.65	20	123		20	0.72	
Styrene	78-123	1	0	22.57	20	113		22.77	20	114		20	0.908	
tert-Butylbenzene	78-124	1	0	24.05	20	120		24.38	20	122		20	1.36	
Tetrachloroethene	74-129	1	0	25.37	20	127		26.18	20	131		20	3.13	
Toluene	80-121	1	0	23.03	20	115		23.07	20	115		20	0.163	
trans-1,2-Dichloroethene	75-124	1	0	21.73	20	109		21.71	20	109		20	0.0883	
trans-1,3-Dichloropropene	73-127	1	0	21.33	20	107		21.36	20	107		20	0.142	
Trichloroethene	79-123	1	0	22.95	20	115		22.5	20	113		20	1.94	
Trichlorofluoromethane	65-141	1	0	25.41	20	127		25.25	20	126		20	0.608	
Vinyl chloride	58-137	1	0	19.88	20	99		20.06	20	100		20	0.875	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

RunID VOA9-439904

Volatiles by EPA 8260

CO4_062023 (HS23061557-02)				HS23061557-02MS				HS23061557-02MSD						
Sample Matrix: Aqueous			Run Date	06/26/23				06/26/23						
Result Units: ug/L			Run Time	15:56				16:19						
			Data File	U062609.D				U062610.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	23.94	20	120		23.22	20	116		20	3.08	
1,1,1-Trichloroethane	74-131	1	0	23.61	20	118		22.63	20	113		20	4.26	
1,1,2,2-Tetrachloroethane	71-121	1	0	20.06	20	100		19.74	20	99		20	1.63	
1,1,2-Trichloroethane	80-119	1	0	21.38	20	107		20.75	20	104		20	3.01	
1,1-Dichloroethane	77-125	1	0	20.96	20	105		19.63	20	98		20	6.52	
1,1-Dichloroethene	71-131	1	0	22.46	20	112		21.59	20	108		20	3.95	
1,1-Dichloropropene	78-125	1	0	25.32	20	127		24.45	20	122		20	3.48	
1,2,3-Trichlorobenzene	69-129	1	0	20.18	20	101		20.61	20	103		20	2.13	
1,2,3-Trichloropropane	73-122	1	0	20.39	20	102		20.42	20	102		20	0.135	
1,2,4-Trichlorobenzene	69-130	1	0	21	20	105		21.08	20	105		20	0.384	
1,2,4-Trimethylbenzene	76-124	1	0	23.27	20	116		23.36	20	117		20	0.376	
1,2-Dibromo-3-chloropropane	62-128	1	0	18.72	20	94		19.45	20	97		20	3.8	
1,2-Dibromoethane	77-121	1	0	21.59	20	108		21.51	20	108		20	0.375	
1,2-Dichlorobenzene	80-119	1	0	22.23	20	111		21.52	20	108		20	3.27	
1,2-Dichloroethane	73-128	1	0	24.56	20	123		23.24	20	116		20	5.51	
1,2-Dichloropropane	78-122	1	0	21.85	20	109		21.24	20	106		20	2.81	
1,3,5-Trimethylbenzene	75-124	1	0	24.33	20	122		24.34	20	122		20	0.0199	
1,3-Dichlorobenzene	80-119	1	0	22.45	20	112		21.98	20	110		20	2.13	
1,3-Dichloropropane	80-119	1	0	21.26	20	106		21.47	20	107		20	0.981	
1,4-Dichlorobenzene	79-118	1	0	22.33	20	112		21.75	20	109		20	2.62	
2,2-Dichloropropane	60-139	1	0	25.47	20	127		24.88	20	124		20	2.34	
2-Butanone	56-143	1	0	34.98	40	87		34.76	40	87		20	0.623	
2-Chlorotoluene	79-122	1	0	23.36	20	117		23	20	115		20	1.55	
2-Hexanone	57-139	1	0	37.78	40	94		37.22	40	93		20	1.5	
4-Chlorotoluene	78-122	1	0	23.89	20	119		23.64	20	118		20	1.04	
4-Isopropyltoluene	77-127	1	0	24.95	20	125		24.79	20	124		20	0.618	
4-Methyl-2-pentanone	67-130	1	0	39.86	40	100		39.53	40	99		20	0.817	
Acetone	39-160	1	0	32.52	40	81		34.05	40	85		20	4.61	
Benzene	79-120	1	0	22.64	20	113		21.84	20	109		20	3.6	
Bromobenzene	80-120	1	0	21.91	20	110		21.43	20	107		20	2.2	
Bromochloromethane	78-123	1	0	19.65	20	98		18.96	20	95		20	3.58	
Bromodichloromethane	79-125	1	0	23.54	20	118		22.68	20	113		20	3.69	
Bromoform	66-130	1	0	22.61	20	113		21.92	20	110		20	3.13	
Bromomethane	53-141	1	0	19.9	20	100		19.2	20	96		20	3.59	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

RunID VOA9-439904

Volatiles by EPA 8260

CO4_062023 (HS23061557-02)				HS23061557-02MS				HS23061557-02MSD						
Sample Matrix: Aqueous			Run Date	06/26/23				06/26/23						
Result Units: ug/L			Run Time	15:56				16:19						
			Data File	U062609.D				U062610.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	46	40	115		45.27	40	113		20	1.6	
Carbon tetrachloride	72-136	1	0	28.08	20	140		26.54	20	133		20	5.65	
Chlorobenzene	82-118	1	0	22.86	20	114		22.61	20	113		20	1.1	
Chloroethane	60-138	1	0	20.89	20	104		20.49	20	102		20	1.94	
Chloroform	79-124	1	0	21.05	20	105		20.18	20	101		20	4.22	
Chloromethane	50-139	1	0	21.15	20	106		20.83	20	104		20	1.54	
cis-1,2-Dichloroethene	78-123	1	0	21.36	20	107		20.05	20	100		20	6.32	
cis-1,3-Dichloropropene	75-124	1	0	21.04	20	105		20.86	20	104		20	0.822	
Dibromochloromethane	74-126	1	0	23.57	20	118		22.83	20	114		20	3.16	
Dibromomethane	79-123	1	0	21.62	20	108		21.72	20	109		20	0.477	
Dichlorodifluoromethane	32-152	1	0	17.79	20	89		17.14	20	86		20	3.74	
Ethylbenzene	79-121	1	0	24.14	20	121		23.45	20	117		20	2.93	
Hexachlorobutadiene	66-134	1	0	24.78	20	124		24.28	20	121		20	2.01	
Isopropylbenzene	72-131	1	0	26.49	20	132		25.49	20	127		20	3.82	
m,p-Xylene	80-121	1	0	50.91	40	127		48.58	40	121		20	4.67	
Methylene chloride	74-124	1	0	21.12	20	106		20.01	20	100		20	5.37	
Naphthalene	61-128	1	0	19.2	20	96		20.59	20	103		20	6.99	
n-Butylbenzene	75-128	1	0	24.76	20	124		25.07	20	125		20	1.25	
n-Propylbenzene	76-126	1	0	25.31	20	127		25.15	20	126		20	0.627	
o-Xylene	78-122	1	0	24.57	20	123		23.71	20	119		20	3.57	
sec-Butylbenzene	77-126	1	0	25.38	20	127		25.13	20	126		20	1.02	
Styrene	78-123	1	0	24.13	20	121		23.91	20	120		20	0.901	
tert-Butylbenzene	78-124	1	0	24.92	20	125		24.86	20	124		20	0.244	
Tetrachloroethene	74-129	1	0	25.55	20	128		25.11	20	126		20	1.74	
Toluene	80-121	1	0	23.71	20	119		23.41	20	117		20	1.28	
trans-1,2-Dichloroethene	75-124	1	0	22.83	20	114		21.68	20	108		20	5.2	
trans-1,3-Dichloropropene	73-127	1	0	21.24	20	106		20.84	20	104		20	1.9	
Trichloroethene	79-123	1	0	23.2	20	116		22.24	20	111		20	4.25	
Trichlorofluoromethane	65-141	1	0	25.92	20	130		24.9	20	124		20	4.01	
Vinyl chloride	58-137	1	0	19.93	20	100		20.25	20	101		20	1.56	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

RunID VOA9-440137

Volatiles by EPA 8260

BatchQC (HS23061825-05)				HS23061825-05MS				HS23061825-05MSD						
Sample Matrix: Aqueous			Run Date	06/28/23				06/28/23						
Result Units: ug/L			Run Time	14:58				15:20						
			Data File	U062811.D				U062812.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Trichloroethene	79-123	1	0	23.9	20	120		22.16	20	111		20	7.56	

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 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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 LHAAP Site18/24

Workorder
HS23061557

SAMPLENUM
VLCSW-230624

Volatiles by EPA 8260

VOA9_439801		VLCSW-230624
Spike Matrix Aqueous	**Run Date**	06/24/23
Result Units ug/L	**Run Time**	13:01
	Data File	U062405.D

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	23.62	118	
1,1,1-Trichloroethane	74-131	20	24.16	121	
1,1,2,2-Tetrachloroethane	71-121	20	19.93	100	
1,1,2-Trichloroethane	80-119	20	21.99	110	
1,1-Dichloroethane	77-125	20	21.83	109	
1,1-Dichloroethene	71-131	20	22.78	114	
1,1-Dichloropropene	78-125	20	23.17	116	
1,2,3-Trichlorobenzene	69-129	20	19.93	100	
1,2,3-Trichloropropane	73-122	20	21.74	109	
1,2,4-Trichlorobenzene	69-130	20	20.11	101	
1,2,4-Trimethylbenzene	76-124	20	23.83	119	
1,2-Dibromo-3-chloropropane	62-128	20	19.58	98	
1,2-Dibromoethane	77-121	20	22.28	111	
1,2-Dichlorobenzene	80-119	20	21.16	106	
1,2-Dichloroethane	73-128	20	24	120	
1,2-Dichloropropane	78-122	20	22.03	110	
1,3,5-Trimethylbenzene	75-124	20	23.81	119	
1,3-Dichlorobenzene	80-119	20	21.34	107	
1,3-Dichloropropane	80-119	20	22.14	111	
1,4-Dichlorobenzene	79-118	20	21.44	107	
2,2-Dichloropropane	60-139	20	26.14	131	
2-Butanone	56-143	40	41.58	104	
2-Chlorotoluene	79-122	20	22.66	113	
2-Hexanone	57-139	40	41.34	103	
4-Chlorotoluene	78-122	20	22.93	115	
4-Isopropyltoluene	77-127	20	23.5	117	
4-Methyl-2-pentanone	67-130	40	42.75	107	
Acetone	39-160	40	45.98	115	
Benzene	79-120	20	21.88	109	
Bromobenzene	80-120	20	21.62	108	
Bromochloromethane	78-123	20	21.15	106	
Bromodichloromethane	79-125	20	24.41	122	
Bromoform	66-130	20	23.19	116	
Bromomethane	53-141	20	27.7	139	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

SAMPLENUM
VLCSW-230624

Volatiles by EPA 8260

VOA9_439801			VLCSW-230624			
Spike Matrix	Aqueous	**Run Date**	06/24/23			
Result Units	ug/L	**Run Time**	13:01			
		Data File	U062405.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Carbon disulfide	64-133	40	46.96	117		
Carbon tetrachloride	72-136	20	25.11	126		
Chlorobenzene	82-118	20	22.7	114		
Chloroethane	60-138	20	22.56	113		
Chloroform	79-124	20	22.27	111		
Chloromethane	50-139	20	17.92	90		
cis-1,2-Dichloroethene	78-123	20	22.27	111		
cis-1,3-Dichloropropene	75-124	20	22.02	110		
Dibromochloromethane	74-126	20	24.41	122		
Dibromomethane	79-123	20	22.77	114		
Dichlorodifluoromethane	32-152	20	19.73	99		
Ethylbenzene	79-121	20	23.21	116		
Hexachlorobutadiene	66-134	20	21.44	107		
Isopropylbenzene	72-131	20	23.74	119		
m,p-Xylene	80-121	40	47.29	118		
Methylene chloride	74-124	20	22.68	113		
Naphthalene	61-128	20	20.29	101		
n-Butylbenzene	75-128	20	22.71	114		
n-Propylbenzene	76-126	20	23.12	116		
o-Xylene	78-122	20	23.12	116		
sec-Butylbenzene	77-126	20	23.17	116		
Styrene	78-123	20	23.95	120		
tert-Butylbenzene	78-124	20	23.15	116		
Tetrachloroethene	74-129	20	23.59	118		
Toluene	80-121	20	23.14	116		
trans-1,2-Dichloroethene	75-124	20	22.88	114		
trans-1,3-Dichloropropene	73-127	20	22.2	111		
Trichloroethene	79-123	20	21.9	110		
Trichlorofluoromethane	65-141	20	24.95	125		
Vinyl chloride	58-137	20	21.09	105		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

SAMPLENUM
VLCSW-230626

Volatiles by EPA 8260

VOA9_439904			VLCSW-230626			
Spike Matrix	Aqueous		**Run Date**	06/26/23		
Result Units	ug/L		**Run Time**	14:27		
			Data File	U062605.D		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
1,1,1,2-Tetrachloroethane	78-124	20	22.71	114		
1,1,1-Trichloroethane	74-131	20	22.44	112		
1,1,2,2-Tetrachloroethane	71-121	20	19.29	96		
1,1,2-Trichloroethane	80-119	20	20.33	102		
1,1-Dichloroethane	77-125	20	20.93	105		
1,1-Dichloroethene	71-131	20	21.03	105		
1,1-Dichloropropene	78-125	20	21.05	105		
1,2,3-Trichlorobenzene	69-129	20	18.74	94		
1,2,3-Trichloropropane	73-122	20	20.23	101		
1,2,4-Trichlorobenzene	69-130	20	18.84	94		
1,2,4-Trimethylbenzene	76-124	20	20.59	103		
1,2-Dibromo-3-chloropropane	62-128	20	18.31	92		
1,2-Dibromoethane	77-121	20	21.08	105		
1,2-Dichlorobenzene	80-119	20	19.95	100		
1,2-Dichloroethane	73-128	20	24.02	120		
1,2-Dichloropropane	78-122	20	21.31	107		
1,3,5-Trimethylbenzene	75-124	20	20.32	102		
1,3-Dichlorobenzene	80-119	20	19.74	99		
1,3-Dichloropropane	80-119	20	21.17	106		
1,4-Dichlorobenzene	79-118	20	19.76	99		
2,2-Dichloropropane	60-139	20	24.21	121		
2-Butanone	56-143	40	43.42	109		
2-Chlorotoluene	79-122	20	20.12	101		
2-Hexanone	57-139	40	41.35	103		
4-Chlorotoluene	78-122	20	21.19	106		
4-Isopropyltoluene	77-127	20	19.57	98		
4-Methyl-2-pentanone	67-130	40	40.8	102		
Acetone	39-160	40	59.91	150		
Benzene	79-120	20	20.84	104		
Bromobenzene	80-120	20	20.12	101		
Bromochloromethane	78-123	20	21.2	106		
Bromodichloromethane	79-125	20	23.06	115		
Bromoform	66-130	20	22.04	110		
Bromomethane	53-141	20	20.05	100		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

SAMPLENUM
VLCSW-230626

Volatiles by EPA 8260

VOA9_439904			VLCSW-230626			
Spike Matrix	Aqueous		**Run Date**	06/26/23		
Result Units	ug/L		**Run Time**	14:27		
			Data File	U062605.D		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Carbon disulfide	64-133	40	48.26	121		
Carbon tetrachloride	72-136	20	22.03	110		
Chlorobenzene	82-118	20	21.3	106		
Chloroethane	60-138	20	20.24	101		
Chloroform	79-124	20	21.56	108		
Chloromethane	50-139	20	21.48	107		
cis-1,2-Dichloroethene	78-123	20	21.63	108		
cis-1,3-Dichloropropene	75-124	20	20.44	102		
Dibromochloromethane	74-126	20	22.81	114		
Dibromomethane	79-123	20	22.25	111		
Dichlorodifluoromethane	32-152	20	17.03	85		
Ethylbenzene	79-121	20	20.59	103		
Hexachlorobutadiene	66-134	20	18.05	90		
Isopropylbenzene	72-131	20	20.9	104		
m,p-Xylene	80-121	40	43.23	108		
Methylene chloride	74-124	20	21.76	109		
Naphthalene	61-128	20	18.93	95		
n-Butylbenzene	75-128	20	19.14	96		
n-Propylbenzene	76-126	20	20.16	101		
o-Xylene	78-122	20	21.32	107		
sec-Butylbenzene	77-126	20	19.33	97		
Styrene	78-123	20	22.88	114		
tert-Butylbenzene	78-124	20	19.72	99		
Tetrachloroethene	74-129	20	20.2	101		
Toluene	80-121	20	21.32	107		
trans-1,2-Dichloroethene	75-124	20	22.37	112		
trans-1,3-Dichloropropene	73-127	20	20.51	103		
Trichloroethene	79-123	20	20.57	103		
Trichlorofluoromethane	65-141	20	22.98	115		
Vinyl chloride	58-137	20	19	95		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

SAMPLENUM
VLCSW-230628

Volatiles by EPA 8260

VOA9_440137			VLCSW-230628		
Spike Matrix Aqueous		**Run Date**	06/28/23		
Result Units ug/L		**Run Time**	12:44		
		Data File	U062805.D		
Analyte	**%Recovery Limits**	**Spike Added**	**LCS Result**	**%R**	**Q**
Trichloroethene	79-123	20	22.1	111	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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.

Project LHAAP Site18/24

Workorder
HS23061557

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230624	U062407.D	06/24/23 13:46	VOA9_439801
VLCSW-230624	LCS	VLCSW-230624	U062405.D	06/24/23 13:01	VOA9_439801
BatchQC	MS	HS23061372-03MS	U062409.D	06/24/23 14:31	VOA9_439801
BatchQC	MSD	HS23061372-03MSD	U062410.D	06/24/23 14:53	VOA9_439801
18WW22_062123	SAMP	HS23061557-01	U062427.D	06/24/23 21:14	VOA9_439801

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230626	U062607.D	06/26/23 15:11	VOA9_439904
VLCSW-230626	LCS	VLCSW-230626	U062605.D	06/26/23 14:27	VOA9_439904
CO4_062023	SAMP	HS23061557-02	U062608.D	06/26/23 15:34	VOA9_439904
CO4_062023	MS	HS23061557-02MS	U062609.D	06/26/23 15:56	VOA9_439904
CO4_062023	MSD	HS23061557-02MSD	U062610.D	06/26/23 16:19	VOA9_439904
Trip Blank	SAMP	HS23061557-09	U062615.D	06/26/23 18:11	VOA9_439904
18CPTMW07_062123	SAMP	HS23061557-05	U062616.D	06/26/23 18:33	VOA9_439904
18WW25_062123	SAMP	HS23061557-06	U062617.D	06/26/23 18:55	VOA9_439904
MW10_062123	SAMP	HS23061557-07	U062618.D	06/26/23 19:18	VOA9_439904
MW20_062123	SAMP	HS23061557-08	U062619.D	06/26/23 19:40	VOA9_439904
18CPTMW24_062123	SAMP	HS23061557-04	U062620.D	06/26/23 20:03	VOA9_439904
18CPTMW14_062123	SAMP	HS23061557-03	U062621.D	06/26/23 20:25	VOA9_439904

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230628	U062807.D	06/28/23 13:28	VOA9_440137
VLCSW-230628	LCS	VLCSW-230628	U062805.D	06/28/23 12:44	VOA9_440137
BatchQC	MS	HS23061825-05MS	U062811.D	06/28/23 14:58	VOA9_440137
BatchQC	MSD	HS23061825-05MSD	U062812.D	06/28/23 15:20	VOA9_440137
18CPTMW14_062123	SAMP	HS23061557-03	U062813.D	06/28/23 15:43	VOA9_440137

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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
VOA9-437296

Volatiles by EPA 8260

Tune File U060601.D 06/06/23 6/6/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19 (19)
75	30.0 - 60.0% of mass 95	46.7 (46.7)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.86)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	92.1 (92.1)
175	4.0 - 9.0% of mass 174	8 (8.69) 1
176	93.0 - 101.0% of mass 174	89.4 (97) 1
177	5.0 - 9.0% of mass 176	6.1 (6.87) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD000.25	ICAL1	6/6/2023	U060602	VSTD000.25
2	VSTD000.5	ICAL2	6/6/2023	U060603	VSTD000.5
3	VSTD005	ICAL5	6/6/2023	U060606	VSTD005
4	VSTD001	ICAL3	6/6/2023	U060607	VSTD001
5	VSTD002	ICAL4	6/6/2023	U060608	VSTD002
6	VSTD020	ICAL6	6/6/2023	U060609	VSTD020
7	VSTD050	ICAL7	6/6/2023	U060610	VSTD050
8	VSTD100	ICAL8	6/6/2023	U060611	VSTD100
9	VSTD150	ICAL9	6/6/2023	U060612	VSTD150
10	VSTD200	ICAL	6/6/2023	U060613	VSTD200
11	CCV	ICV	6/6/2023	U060616	CCV

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061557**	

RunID

Volatiles by EPA 8260

VOA9-437296

Tune File	U060601.D	06/06/23 6/6/2023	**This check applies to the following analyses**

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
VOA9-439801

Volatiles by EPA 8260

Tune File U062401.D 06/24/23 6/24/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	20.8 (20.8)
75	30.0 - 60.0% of mass 95	51.1 (51.1)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.88)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	95.2 (95.2)
175	4.0 - 9.0% of mass 174	7.9 (8.27) 1
176	93.0 - 101.0% of mass 174	91.5 (96.2) 1
177	5.0 - 9.0% of mass 176	6.5 (7.09) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	6/24/2023	U062403	CCV
2	CCB	CCB	6/24/2023	U062404	CCB
3	VLCSW-	LCS	6/24/2023	U062405	VLCSW-230624
4	VBLKW-	MBLK	6/24/2023	U062407	VBLKW-230624
5	HS23061372-	MS	6/24/2023	U062409	ZZZZZZMS
6	HS23061372-	MSD	6/24/2023	U062410	ZZZZZZMSD
7	HS23061557-	SAMP	6/24/2023	U062427	18WW22_062123
8	CCV-END	CCV_EN	6/24/2023	U062431	CCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061557**	

RunID

Volatiles by EPA 8260

VOA9-439801

Tune File	U062401.D	06/24/23 6/24/2023	**This check applies to the following analyses**

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
VOA9-439904

Volatiles by EPA 8260

Tune File U062601.D 06/26/23 6/26/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.2 (19.2)
75	30.0 - 60.0% of mass 95	50 (50)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.6 (6.6)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	98.2 (98.2)
175	4.0 - 9.0% of mass 174	7.9 (8.07) 1
176	93.0 - 101.0% of mass 174	93.5 (95.2) 1
177	5.0 - 9.0% of mass 176	6.5 (6.93) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	6/26/2023	U062603	CCV
2	CCB	CCB	6/26/2023	U062604	CCB
3	VLCSW-	LCS	6/26/2023	U062605	VLCSW-230626
4	VBLKW-	MBLK	6/26/2023	U062607	VBLKW-230626
5	HS23061557-	SAMP	6/26/2023	U062608	CO4_062023
6	HS23061557-	MS	6/26/2023	U062609	HS23061557-02MS
7	HS23061557-	MSD	6/26/2023	U062610	HS23061557-02MSD
8	HS23061557-	SAMP	6/26/2023	U062615	Trip Blank
9	HS23061557-	SAMP	6/26/2023	U062616	18CPTMW07_062123
10	HS23061557-	SAMP	6/26/2023	U062617	18WW25_062123
11	HS23061557-	SAMP	6/26/2023	U062618	MW10_062123
12	HS23061557-	SAMP	6/26/2023	U062619	MW20_062123
13	HS23061557-	SAMP	6/26/2023	U062620	18CPTMW24_062123
14	HS23061557-	SAMP	6/26/2023	U062621	18CPTMW14_062123
15	CCV-END	CCV_EN	6/26/2023	U062622	CCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061557**	

Volatiles by EPA 8260

RunID: VOA9-439904

Tune File	U062601.D	06/26/23 6/26/2023	**This check applies to the following analyses**

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
VOA9-440137

Volatiles by EPA 8260

Tune File U062801.D 06/28/23 6/28/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.5 (18.5)
75	30.0 - 60.0% of mass 95	49.3 (49.3)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.4 (7.42)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	90 (90)
175	4.0 - 9.0% of mass 174	7.2 (8) 1
176	93.0 - 101.0% of mass 174	89.1 (98.9) 1
177	5.0 - 9.0% of mass 176	6.4 (7.16) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	6/28/2023	U062803	CCV
2	CCB	CCB	6/28/2023	U062804	CCB
3	VLCSW-	LCS	6/28/2023	U062805	VLCSW-230628
4	VBLKW-	MBLK	6/28/2023	U062807	VBLKW-230628
5	HS23061825-	MS	6/28/2023	U062811	ZZZZZZMS
6	HS23061825-	MSD	6/28/2023	U062812	ZZZZZZMSD
7	HS23061557-	SAMP	6/28/2023	U062813	18CPTMW14_062123
8	CCV-END	CCV_EN	6/28/2023	U062830	CCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061557**	

Volatiles by EPA 8260

RunID: VOA9-440137

Tune File	U062801.D	06/28/23 6/28/2023	**This check applies to the following analyses**

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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

Calibration Files

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

Level 1 ..target\chem\voa9.i\u230606.b\u060602.d
Level 2 ..target\chem\voa9.i\u230606.b\u060603a.d
Level 3 ..target\chem\voa9.i\u230606.b\u060607.d
Level 4 ..target\chem\voa9.i\u230606.b\u060608.d
Level 5 ..target\chem\voa9.i\u230606.b\u060606.d
Level 6 ..target\chem\voa9.i\u230606.b\u060609.d
Level 7 ..target\chem\voa9.i\u230606.b\u060610.d
Level 8 ..target\chem\voa9.i\u230606.b\u060611.d
Level 9 ..target\chem\voa9.i\u230606.b\u060612.d
Level 10 target\chem\voa9.i\u230606.b\u060613.d

Compound	0.250 Level 1	0.500 Level 2	1.00 Level 3	2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
	50.00 Level 7	100.00 Level 8	150.00 Level 9	200.00 Level 10								
Dichlorodifluoromethane	NE	3237	5058	8519	31172	134998						
	301782	630744	960667	1327832			LINR	0.00160	0.46271		0.99983	
Chloromethane	NE	6740	13219	24280	62455	243997						
	533277	979734	NE	NE			LINR	-0.02699	0.73429		0.99792	
Propionitrile	NE	0.08304	0.07790	0.06567	0.07543	0.07008						
	0.06910	0.07191	0.06959	0.06755			AVRG		0.07225		7.66936	
Vinyl Chloride	NE	0.53164	0.43717	0.48902	0.55204	0.55364						
	0.54961	0.55242	0.54597	0.54834			AVRG		0.52887		7.56687	
Bromomethane	NE	2378	5133	9237	23995	85360						
	189385	362834	572508	739966			LINR	-0.03678	0.26230		0.99829	
Chloroethane	NE	0.38400	0.39288	0.33413	0.35705	0.36318						
	0.34874	0.34887	0.34148	0.33605			AVRG		0.35626		5.77503	
Trichlorofluoromethane	NE	0.65250	0.50831	0.50964	0.63485	0.66665						
	0.60336	0.63856	0.62802	0.62488			AVRG		0.60742		9.63343	
Acrolein	NE	0.03356	0.02950	0.02511	0.02566	0.02421						
	0.02565	0.02534	0.02449	0.02533			AVRG		0.02654		11.47974	
Acetone	NE	8112	12344	18337	31915	105410						
	245967	467276	669020	NE			LINR	-0.11414	0.16245		0.99760	
1,1-Dichloroethene	NE	0.43475	0.34844	0.33936	0.38705	0.38169						
	0.37538	0.38325	0.38119	0.38464			AVRG		0.37953		7.06417	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Start Date 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Isobutyl Alcohol	NE 0.06592	0.06000 0.06937	0.06647 0.06652	0.06001 0.06907	0.06288	0.06445	AVRG		0.06496		5.32316	
Acetonitrile	NE 0.05262	0.06019 0.05598	0.05501 0.05486	0.05232 0.05223	0.05374	0.05025	AVRG		0.05413		5.29738	
Allyl Chloride	NE 1.23994	1.54447 1.31147	1.31408 1.28770	1.21739 1.22743	1.32627	1.21434	AVRG		1.29812		7.89105	
Iodomethane	NE 311144	1872 901104	3593 1654094	5244 2389174	10875	69713	QUAD	0.19719	3.17029	-0.25959	0.99395	*
Acrylonitrile	NE 0.17643	0.19222 0.19265	0.17779 0.18699	0.18194 0.18155	0.19969	0.17956	AVRG		0.18542		4.28504	
Methylene Chloride	NE 313459	6638 614571	9867 934598	14226 1286266	34262	133454	LINR	-0.02055	0.44680		0.99989	
Methyl tert-butyl ether	NE 1.11011	1.34489 1.18230	1.22763 1.16687	1.06262 1.13583	1.16892	1.07548	AVRG		1.16385		7.37549	
Carbon Disulfide	NE 1.05257	0.97637 1.06234	0.93978 1.05033	0.91298 1.04865	1.04258	1.04592	AVRG		1.01461		5.54329	
trans-1,2-Dichloroethene	NE 0.42568	0.43966 0.42424	0.36838 0.41068	0.38985 0.41906	0.41680	0.42038	AVRG		0.41275		5.16490	
Vinyl Acetate	NE 1.24787	1.16903 1.32894	1.28605 1.32075	1.14428 1.28290	1.31826	1.22557	AVRG		1.25818		5.33224	
1,1-Dichloroethane	NE 0.75452	0.91579 0.74633	0.85153 0.73811	0.77473 0.73300	0.79838	0.74713	AVRG		0.78439		7.88122	
Chloroprene	NE 0.15370	0.18753 0.16003	0.14913 0.16411	0.13564 0.16977	0.14899	0.16635	AVRG		0.15947		9.35578	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Start Date 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
2-Butanone	NE 0.21032	0.26865 0.21900	0.27005 0.21311	0.22221 0.20708	0.22579	0.21550	AVRG		0.22797		10.59636	
Methacrylonitrile	NE 0.29063	0.32297 0.31155	0.29216 0.31218	0.25772 0.29964	0.27607	0.29576	AVRG		0.29541		6.71428	
2,2-Dichloropropane	NE 344673	3685 699035	6247 1080274	12294 1505657	33762	139835	LINR	0.00797	0.52278		0.99995	
cis-1,2-Dichloroethene	NE 0.48847	0.54176 0.48782	0.49058 0.48487	0.46721 0.48248	0.51503	0.48586	AVRG		0.49378		4.41592	
Chloroform	NE 0.81885	0.87650 0.81161	0.79076 0.79868	0.79799 0.79042	0.85300	0.80968	AVRG		0.81639		3.62615	
Bromochloromethane	NE 0.26708	0.31315 0.26410	0.30614 0.26302	0.26452 0.25295	0.28615	0.26876	AVRG		0.27621		7.56831	
1,1,1-Trichloroethane	NE 0.63238	0.65994 0.65446	0.57497 0.64619	0.52644 0.65564	0.61086	0.63915	AVRG		0.62223		7.20510	
1,1-Dichloropropene	NE 0.37173	0.32259 0.39025	0.38290 0.38140	0.31292 0.38981	0.36218	0.38416	AVRG		0.36644		7.93028	
1,2-Dichloroethane	NE 0.42081	0.46850 0.42485	0.42052 0.41425	0.45938 0.40606	0.45322	0.42725	AVRG		0.43276		5.06646	
Carbon Tetrachloride	NE 0.34607	0.35476 0.37126	0.28321 0.36664	0.26732 0.37542	0.31231	0.35238	AVRG		0.33660		11.75294	
Benzene	NE 1.23100	1.18679 1.22379	1.09401 1.20222	1.22033 1.18837	1.26301	1.23391	AVRG		1.20483		3.98055	
Trichloroethene	NE 0.34006	0.37553 0.34777	0.35201 0.34410	0.32048 0.34873	0.36729	0.34693	AVRG		0.34921		4.49432	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Start Date 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541

Compound	0.250 Level 1	0.500 Level 2	1.00 Level 3	2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	NE	0.38289	0.33360	0.32980	0.37143	0.36599						
	0.38236	0.40428	0.40608	0.40603			AVRG		0.37583		7.72711	
Methyl Methacrylate	NE	0.45886	0.38280	0.37522	0.40434	0.41660						
	0.43942	0.46989	0.46614	0.45591			AVRG		0.42991		8.44989	
2-Chloroethylvinyl ether	NE	0.00852	0.00946	0.00945	0.00895	0.00842						
	0.00884	0.00999	NE	NE			AVRG		0.00909		6.25191	
1,2-Dichloropropane	NE	NE	0.32786	0.31466	0.32797	0.32063						
	0.32122	0.32222	0.32000	0.31897			AVRG		0.32169		1.38453	*
2-Nitropropane	NE	0.20680	50.26056	40.89437	0.11155	0.10087						
	0.11432	0.13484	0.13886	0.13916			AVRG		10.23348		197	*
Dibromomethane	NE	0.21005	0.21181	0.20209	0.21295	0.20004						
	0.19996	0.20667	0.20373	0.20258			AVRG		0.20554		2.43958	
4-Methyl-2-Pentanone	NE	0.31052	0.34114	0.41679	0.37151	0.37510						
	0.35703	0.36713	0.37263	0.36509			AVRG		0.36411		7.81829	
cis-1,3-Dichloropropene	NE	4533	6985	12842	37734	176588						
	477156	1015887	1649908	2272308			LINR	0.03823	0.52354		0.99932	
Ethyl Methacrylate	NE	0.46860	0.39717	0.34291	0.45495	0.41708						
	0.43593	0.47447	0.47560	0.47794			AVRG		0.43830		10.42832	
Toluene	NE	1.46131	1.30389	1.24034	1.38024	1.44328						
	1.37452	1.35611	1.33752	1.30792			AVRG		1.35612		5.10785	
trans-1,3-Dichloropropene	NE	4073	5962	12660	31811	143978						
	395477	857257	1382903	1913130			LINR	0.04043	0.44043		0.99920	
2-Hexanone	NE	0.21896	0.27173	0.31735	0.24794	0.24808						
	0.23737	0.24894	0.24680	0.24494			AVRG		0.25357		10.85593	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Start Date 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,1,2-Trichloroethane	NE 0.26145	0.27781 0.26759	0.33823 0.26884	0.29394 0.26174	0.29026	0.27967	AVRG		0.28217		8.50628	
1,3-Dichloropropane	NE 0.56388	0.60411 0.56350	0.57145 0.56462	0.58138 0.54844	0.60045	0.59066	AVRG		0.57650		3.26997	
Dibromochloromethane	NE 0.35269	0.33281 0.37245	0.26753 0.38159	0.28317 0.37861	0.30864	0.33570	AVRG		0.33480		12.37215	
Tetrachloroethene	NE 0.31218	0.33596 0.32329	0.35937 0.32063	0.31268 0.32848	0.33355	0.34752	AVRG		0.33041		4.74735	
1,2-Dibromoethane	NE 0.32995	0.39291 0.33734	0.36483 0.33751	0.35335 0.32947	0.34243	0.34494	AVRG		0.34808		5.80098	
1-Chlorohexane	NE 0.23045	0.28084 0.25935	0.24384 0.26305	0.24810 0.27442	0.24355	0.26710	AVRG		0.25674		6.39033	
Chlorobenzene	NE 0.93816	0.96090 0.94626	1.02474 0.94168	0.99652 0.92552	1.00286	0.97411	AVRG		0.96786		3.50306	
1,1,1,2-Tetrachloroethane	NE 0.33475	0.33813 0.34379	0.30312 0.35090	0.32230 0.35020	0.31656	0.33414	AVRG		0.33265		4.80000	
Ethylbenzene	NE 0.45349	0.44932 0.47695	0.42798 0.48030	0.38496 0.47946	0.43441	0.46740	AVRG		0.45047		6.92422	
m,p-Xylenes	NE 0.56107	0.49705 0.59332	0.47095 0.59550	0.46613 0.59257	0.47186	0.54822	AVRG		0.53296		10.58600	
o-Xylene	NE 0.54530	0.51375 0.57414	0.46105 0.58153	0.45548 0.57622	0.49419	0.53695	AVRG		0.52651		9.19888	
Styrene	NE 0.89449	0.81868 0.95766	0.66693 0.96825	0.74091 0.94500	0.69822	0.82991	AVRG		0.83556		13.68101	

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Initial Calibration Data

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Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Start Date 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541

Compound	0.250 Level 1	0.500 Level 2	1.00 Level 3	2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromoform	NE	0.19493	0.19245	0.20896	0.19978	0.21157						
	0.23260	0.26095	0.26822	0.26444			AVRG		0.22599		13.81919	
Isopropylbenzene	NE	1.14173	1.13317	1.09443	1.19733	1.34411						
	1.29966	1.39540	1.38723	1.38856			AVRG		1.26463		9.72168	
1,1,2,2-Tetrachloroethane	NE	0.94934	1.02444	1.13699	0.96171	0.90982						
	0.86517	0.88446	0.87983	0.85285			AVRG		0.94051		9.75227	
1,2,3-Trichloropropane	NE	0.89588	0.76851	0.91659	0.81959	0.76888						
	0.78271	0.82369	0.84037	0.83039			AVRG		0.82740		6.30706	
trans-1,4-Dichloro-2-butene	NE	0.05261	0.05796	0.05335	0.05527	0.04837						
	0.05433	0.06324	0.06690	0.06611			AVRG		0.05757		11.24480	*
n-Propylbenzene	NE	2.34893	2.29516	2.26496	2.35462	2.68484						
	2.66761	2.93371	2.98954	3.06453			AVRG		2.62266		12.16608	
Bromobenzene	NE	0.83256	0.87296	0.91857	0.83236	0.84108						
	0.80219	0.82248	0.83564	0.83486			AVRG		0.84363		3.98394	
1,3,5-Trimethylbenzene	NE	1.71333	1.73215	1.69625	1.68766	1.72132						
	1.72613	1.88842	1.96460	2.06354			AVRG		1.79927		7.64842	
2-Chlorotoluene	NE	1.65439	1.84359	1.86405	1.83620	1.93464						
	1.83116	1.87957	1.87542	1.87375			AVRG		1.84364		4.19843	
4-Chlorotoluene	NE	1.80601	1.92642	2.12066	2.01548	2.11322						
	2.03659	2.10132	2.11273	2.13399			AVRG		2.04071		5.42387	
tert-Butylbenzene	NE	1.66206	1.63607	1.58431	1.70142	1.87604						
	1.72651	1.87463	1.89391	1.94965			AVRG		1.76718		7.49680	
1,2,4-Trimethylbenzene	NE	1.87283	1.98426	2.00872	1.83192	1.77568						
	1.70257	1.83519	1.91537	2.01697			AVRG		1.88261		5.76159	

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Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Start Date 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
sec-Butylbenzene	NE	2.00057	2.11593	1.90597	2.05445	2.32792						
	2.18438	2.46235	2.51457	2.60373			AVRG		2.24110		11.00553	
p-Isopropyltoluene	NE	1.74598	1.77727	1.70832	1.70523	1.77034						
	1.76859	2.03397	2.13513	2.25284			AVRG		1.87752		10.99191	
1,3-Dichlorobenzene	NE	1.44494	1.46902	1.55334	1.44971	1.42715						
	1.34174	1.39069	1.40351	1.41569			AVRG		1.43286		4.09348	
1,4-Dichlorobenzene	NE	1.54178	1.71276	1.69155	1.56931	1.48576						
	1.40239	1.43640	1.45286	1.45678			AVRG		1.52773		7.29827	
Benzyl Chloride	NE	1867	5481	11203	22092	85763						
	234906	573982	988530	1346925			LINR	0.06934	0.32121		0.99572	
n-Butylbenzene	NE	1.58034	1.52199	1.45737	1.51798	1.62397						
	1.46534	1.66824	1.76126	1.86929			AVRG		1.60731		8.65865	
1,2-Dichlorobenzene	NE	1.37505	1.58056	1.62196	1.41014	1.43132						
	1.34667	1.37717	1.39037	1.39656			AVRG		1.43664		6.73798	
1,2-Dibromo-3-Chloropropane	NE	0.12905	0.13125	0.15055	0.12496	0.12235						
	0.13055	0.14193	0.15019	0.15436			AVRG		0.13724		8.84952	
1,2,4-Trichlorobenzene	NE	0.99711	1.02603	1.05277	0.91403	0.94731						
	0.92607	0.97797	1.01256	1.03962			AVRG		0.98816		5.06669	
Hexachlorobutadiene	NE	0.41409	0.47350	0.36363	0.36197	0.40436						
	0.34400	0.38848	0.41057	0.43096			AVRG		0.39906		9.99191	
Naphthalene	NE	2.00604	2.45479	2.35836	2.05295	2.26528						
	2.32218	2.38330	2.41879	2.39671			AVRG		2.29538		7.00317	
1,2,3-Trichlorobenzene	NE	0.89610	1.01723	1.09261	0.91438	0.94752						
	0.91575	0.95078	0.97037	0.98955			AVRG		0.96603		6.32619	

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Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Start Date 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541

Compound	0.250 Level 1	0.500 Level 2	1.00 Level 3	2.00 Level 4	5.00 Level 5	20.00 Level 6	50.00 Level 7	100.00 Level 8	150.00 Level 9	200.00 Level 10	Curve	b	m1	m2	%RSD or R2	Q
Ethyl Acetate	NE	0.56275	0.47646	0.45270	0.44438	0.42507										
	0.40659	0.43291	0.42120	0.40047							AVRG		0.44695		11.03167	
Methyl Acrylate	NE	0.64029	0.52884	0.45224	0.49568	0.50330										
	0.51803	0.55501	0.53794	0.52785							AVRG		0.52880		9.67195	
n-Butanol	NE	0.01415	2.08859	4.21587	0.01247	0.01208										
	0.01307	0.01509	0.01514	0.01494							AVRG		0.71127		208	*
Cyclohexanone	NE	0.03990	0.03613	0.02961	0.03016	0.02808										
	0.02875	0.02946	0.02809	0.02880							AVRG		0.03100		13.36896	
1,4-Dioxane	0.02235	0.01166	0.01127	0.01101	0.00960	0.00693										
	0.00659	0.00691	0.00671	0.00625							AVRG		0.00993		49.04531	*
n-Hexane	NE	2983	4787	7179	28289	131033										
	256401	595793	933406	1358253							QUAD	0.00210	2.46538	-0.18460	0.99921	
Freon TF	NE	0.35587	0.27604	0.26719	0.34986	0.36574										
	0.32170	0.35856	0.35800	0.36926							AVRG		0.33580		11.58349	
Methyl Acetate	NE	0.50232	0.47241	0.46924	0.40980	0.39186										
	0.37668	0.40100	0.38762	0.37810							AVRG		0.42100		11.22802	
Methylcyclohexane	NE	0.71717	0.66486	0.57666	0.69680	0.64861										
	0.63877	0.77007	0.77041	0.75903							AVRG		0.69360		9.68871	
Isopropyl alcohol	NE	0.03524	0.03413	0.04209	0.03152	0.02969										
	0.02926	0.03162	0.03087	0.02976							AVRG		0.03269		12.43532	
Amyl alcohol	NE	0.01197	1.92102	3.42130	0.00863	0.00951										
	0.00986	0.01105	0.01113	0.01101							AVRG		0.60172		205	*
Allyl alcohol	NE	2691	4787	7179	27611	131033										
	256401	595793	933406	1358253							QUAD	0.05728	49.27793	-3.68010	0.99921	

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Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Start Date 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541

Compound	0.250 Level 1	0.500 Level 2	1.00 Level 3	2.00 Level 4	5.00 Level 5	20.00 Level 6	50.00 Level 7	100.00 Level 8	150.00 Level 9	200.00 Level 10	Curve	b	m1	m2	%RSD or R2	Q
4-Methyl-2-pentanol	NE	0.10161	0.07347	0.06147	0.06954	0.07154										
	0.06687	0.07627	0.07449	0.07390							AVRG		0.07435		15.04325	
Tert-butyl alcohol	NE	6757	16016	34487	66425	255911										
	592187	1263261	1948328	2615413							LINR	-0.09917	0.04597		0.99942	
Diethyl ether	NE	0.41853	0.29113	0.31214	0.34912	0.31512										
	0.32639	0.34643	0.34449	0.33721							AVRG		0.33784		10.59316	
1,3-Butadiene	NE	0.44026	0.41436	0.42154	0.49134	0.51162										
	0.48722	0.50601	0.49354	0.49579							AVRG		0.47352		7.90782	
Cyclohexane	NE	4345	7781	8877	37840	190495										
	384146	872566	1346053	1948136							QUAD	0.00384	1.66261	-0.06851	0.99933	
Tetrahydrofuran	NE	1846	3378	4068	13490	48081										
	124830	246154	364883	488623							LINR	-0.04721	0.08627		0.99868	
alpha-Methylstyrene	NE	3201	6428	14955	33946	141914										
	398013	939505	1521945	2162870							LINR	0.07068	1.00922		0.99634	
Diisopropyl ether	NE	1.62723	1.35167	1.35708	1.43176	1.29604										
	1.33854	1.40873	1.38423	1.35239							AVRG		1.39419		6.88405	
Dichlorofluoromethane	NE	1.14419	154	259	0.74302	0.65918										
	0.68369	0.72055	0.71841	0.70435							AVRG		46.48926		203	*
Butyl acrylate	NE	0.65141	0.57943	0.50180	0.56456	0.55884										
	0.56545	0.62687	0.64178	0.63283							AVRG		0.59144		8.39860	
Dicyclopentadiene	NE	2.29788	3.10552	2.30282	2.47288	2.19129										
	2.17722	2.45924	2.50496	2.43925							AVRG		2.43901		11.40017	
1,2,3-Trimethylbenzene	NE	2.16993	2.16879	1.86768	2.05701	1.71103										
	1.72212	1.82789	1.86297	1.91009							AVRG		1.92195		9.02117	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Start Date 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethanol	NE 83818	929 175232	2663 261491	4910 342926	9968	33180	LINR	-0.45661	0.00610		0.99807	
tert-Butyl formate	NE 0.35469	NE 0.39711	70.88590 0.40728	111 0.40312	0.37084	0.36100	AVRG		23.05896		188	*
3,3-Dimethyl-1-butanol	NE 0.03321	0.12053 0.03570	15.41396 0.03539	18.45449 0.03515	0.03977	0.03772	AVRG		3.80066		197	*
tert-Amyl methyl ether	NE 1.27072	2.14082 1.66952	303 1.69353	515 1.68414	1.51794	1.20622	AVRG		92.03003		203	*
tert-Butyl ethyl ether	NE 1.16135	1.66370 1.24096	249 1.23931	427 1.22143	1.20218	1.12101	AVRG		76.03857		204	*
tert-Amyl alcohol	NE 0.03547	0.04913 0.03971	7.08859 0.04073	11.12917 0.04031	0.03708	0.03610	AVRG		2.05514		201	*
Epichlorohydrin	NE 17348	NE 42530	230 78090	854 120896	2028	5384	QUAD	0.19276	210	-620	0.99786	*
Isoprene	NE 0.12271	0.17622 0.12050	24.46517 0.11801	42.70055 0.13763	0.11208	0.12455	AVRG		7.56416		204	*
n-Amyl acetate	NE 0.55364	NE 0.58593	NE 0.59354	211 0.58358	0.63545	0.57662	AVRG		30.68893		260	*
Isopropyl acetate	NE 0.98722	1.34246 1.04945	418 1.03674	509 1.02205	1.01129	0.99086	AVRG		104		198	*
n-Butyl acetate	NE 0.55036	0.55703 0.58437	0.53651 0.60799	0.60175 0.59915	0.53866	0.54802	AVRG		0.56932		5.06190	
Acetaldehyde	NE 0.06756	NE 0.07481	NE 0.07268	NE 0.07068	0.05587	0.07216	AVRG		0.06896		9.93199	*

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

ICAL Start Date 06-JUN-2023 1115 **ICAL End Date** 06-JUN-2023 1541

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Methyl Amyl Ketone	NE 0.66113	1.57193 0.70193	232 0.68889	332 0.68782	0.72364	0.69666	AVRG		63.26693		200	*
Dimethyl Disulfide	NE 275143	1341 843448	2841 1542342	4598 2303909	15263	75368	QUAD	0.09069	2.54687	-0.35667	0.99436	
2-Ethylhexyl Acrylate	NE 214955	2309 534360	4963 905239	8201 1300346	19373	70007	QUAD	0.03475	2.11188	-0.20750	0.99843	
94 1,2-Dichloroethylene (total)	NE 0.45707	0.49071 0.45603	0.42948 0.44777	0.42853 0.45077	0.46591	0.45312	AVRG		0.45327		4.12637	
95 Xylenes (total)	NE 0.53378	0.46723 0.57391	0.43600 0.57061	0.43592 0.57101	0.45257	0.49964	AVRG		0.50452		11.72066	
30 Dibromofluoromethane	NE 271537	3644 587291	5853 869167	10602 1189943	30229	119153	LINR	-0.00632	0.41704		0.99929	
35 1,2-Dichloroethane-d4	NE 303470	3795 630129	6027 944002	11855 1273587	34153	129564	LINR	-0.01366	0.44800		0.99930	
48 Toluene-d8	NE 1.07251	1.56295 1.11768	1.00002 1.06933	1.01159 1.04518	1.14526	1.16028	AVRG		1.13164		15.10726	
69 4-Bromofluorobenzene	NE 425877	5007 923899	8608 1355424	16728 1832443	49215	178335	LINR	-0.01813	0.43793		0.99886	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.00	49.07	98.15	80-120	
1,1,1-Trichloroethane	50.00	44.11	88.23	80-120	
1,1,2,2-Tetrachloroethane	50.00	44.15	88.32	80-120	
Freon TF	50.00	42.50	85.01	80-120	
Methyl Acetate	50.00	40.70	81.42	80-120	
Cyclohexane	50.00	42.07	84.15	80-120	
Methylcyclohexane	50.00	46.30	92.61	80-120	
Carbon Disulfide	100.00	93.13	93.14	80-120	
2-Hexanone	100.00	92.61	92.61	80-120	
1,1,2-Trichloroethane	50.00	45.65	91.32	80-120	
1,1-Dichloroethane	50.00	41.14	82.28	80-120	
1,1-Dichloroethene	50.00	43.45	86.92	80-120	
1,1-Dichloropropene	50.00	45.66	91.33	80-120	
1,2,3-Trichlorobenzene	50.00	47.31	94.63	80-120	
1,2,3-Trichloropropane	50.00	45.92	91.85	80-120	
1,2,4-Trichlorobenzene	50.00	47.57	95.14	80-120	
1,2,4-Trimethylbenzene	50.00	47.79	95.60	80-120	
1,2-Dibromo-3-Chloropropane	50.00	47.57	95.14	80-120	
1,2-Dibromoethane	50.00	45.60	91.22	80-120	
Acrolein	100.00	87.41	87.42	80-120	
Acrylonitrile	100.00	91.25	91.25	80-120	
1,2-Dichlorobenzene	50.00	45.26	90.54	80-120	
1,2-Dichloroethane	50.00	44.18	88.38	80-120	
1,2-Dichloropropane	50.00	45.23	90.47	80-120	
1,3,5-Trimethylbenzene	50.00	48.21	96.43	80-120	
1,3-Dichlorobenzene	50.00	46.22	92.45	80-120	
1,3-Dichloropropane	50.00	47.41	94.82	80-120	
1,4-Dichlorobenzene	50.00	44.52	89.05	80-120	
1-Chlorohexane	50.00	40.85	81.71	80-120	
2,2-Dichloropropane	50.00	45.93	91.87	80-120	
2-Butanone	100.00	87.11	87.11	80-120	
2-Chloroethylvinyl ether	100.00	82.24	82.24	80-120	
2-Chlorotoluene	50.00	46.75	93.51	80-120	
4-Chlorotoluene	50.00	48.40	96.80	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	48.52	97.04	80-120	
4-Methyl-2-Pentanone	100.00	97.72	97.73	80-120	
Acetone	100.00	95.43	95.43	80-120	
Acetonitrile	500.00	437.35	87.47	80-120	
Allyl Chloride	50.00	43.46	86.94	80-120	
Benzene	50.00	46.31	92.63	80-120	
Bromobenzene	50.00	45.71	91.42	80-120	
Bromochloromethane	50.00	44.93	89.87	80-120	
Bromodichloromethane	50.00	47.72	95.44	80-120	
Bromoform	50.00	51.02	102.05	80-120	
Bromomethane	50.00	55.03	110.08	80-120	
Carbon Tetrachloride	50.00	44.38	88.77	80-120	
Chlorobenzene	50.00	45.99	91.98	80-120	
Chloroethane	50.00	43.12	86.25	80-120	
Chloroform	50.00	43.97	87.95	80-120	
Chloromethane	50.00	40.39	80.80	80-120	
Chloroprene	50.00	42.86	85.72	80-120	
cis-1,2-Dichloroethene	50.00	44.27	88.55	80-120	
cis-1,3-Dichloropropene	50.00	44.95	89.92	80-120	
Dibromochloromethane	50.00	51.79	103.58	80-120	
Dibromomethane	50.00	45.22	90.46	80-120	
Dichlorodifluoromethane	50.00	43.44	86.88	80-120	
Ethylbenzene	50.00	48.34	96.69	80-120	
Ethyl Methacrylate	50.00	48.75	97.51	80-120	
Iodomethane	100.00	85.89	85.90	80-120	
Isobutyl Alcohol	1000.00	1063.31	106.33	70-130	
Propionitrile	500.00	447.35	89.47	70-130	
Hexachlorobutadiene	50.00	42.50	85.02	80-120	
Isopropylbenzene	50.00	48.91	97.84	80-120	
m,p-Xylenes	100.00	101.18	101.18	80-120	
Methyl tert-butyl ether	50.00	45.15	90.31	80-120	
Methylene Chloride	50.00	45.61	91.23	80-120	
Methacrylonitrile	50.00	47.68	95.38	80-120	
Methyl Methacrylate	50.00	47.58	95.17	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_437296

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	45.82	91.65	80-120	
n-Propylbenzene	50.00	49.51	99.02	80-120	
Naphthalene	50.00	51.00	102.01	80-120	
o-Xylene	50.00	50.13	100.28	80-120	
sec-Butylbenzene	50.00	46.73	93.47	80-120	
Styrene	50.00	52.92	105.84	80-120	
tert-Butylbenzene	50.00	46.65	93.31	80-120	
Tetrachloroethene	50.00	45.52	91.06	80-120	
Toluene	50.00	48.10	96.21	80-120	
trans-1,2-Dichloroethene	50.00	45.42	90.85	80-120	
trans-1,3-Dichloropropene	50.00	44.23	88.46	80-120	
trans-1,4-Dichloro-2-butene	50.00	54.24	108.49	80-120	
Trichloroethene	50.00	44.64	89.28	80-120	
Trichlorofluoromethane	50.00	43.95	87.91	80-120	
Vinyl Acetate	100.00	93.22	93.22	80-120	
Vinyl Chloride	50.00	44.59	89.20	80-120	
1,2-Dichloroethylene (total)	100.00	89.70	89.70	80-120	
Xylenes (total)	150.00	151.32	100.88	80-120	
1,4-Dioxane	1000.00	611.64	61.16	80-120	*
Dibromofluoromethane	50.00	48.55	97.12	71-125	
1,2-Dichloroethane-d4	50.00	47.70	95.40	70-125	
Toluene-d8	50.00	51.59	103.20	75-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439801

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062403.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 24-JUN-2023 12:17
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	42.51940	0.39275	0.100	14.96119	20.0	Linear	
Chloromethane	50.0	41.16754	0.62439	0.100	17.66492	20.0	Linear	
Vinyl Chloride	0.52887	0.48505	0.48505	0.100	8.28652	20.0	Averaged	
Bromomethane	50.0	59.74819	0.32308	0.100	-19.49637	20.0	Linear	
Chloroethane	0.35626	0.35361	0.35361	0.100	0.74507	20.0	Averaged	
Trichlorofluoromethane	0.60742	0.65365	0.65365	0.100	-7.61146	20.0	Averaged	
Acrolein	0.02654	0.02722	0.02722	0.010	-2.56296	20.0	Averaged	
Acetone	100	111	0.18907	0.100	-10.68169	20.0	Linear	
1,1-Dichloroethene	0.37953	0.38184	0.38184	0.100	-0.60917	20.0	Averaged	
Iodomethane	100	112	0.34275	0.100	-12.42348	20.0	Quadratic	
Acrylonitrile	0.18542	0.19892	0.19892	0.050	-7.27737	20.0	Averaged	
Methylene Chloride	50.0	52.85072	0.48145	0.100	-5.70144	20.0	Linear	
Methyl tert-butyl ether	1.16385	1.27204	1.27204	0.100	-9.29576	20.0	Averaged	
Carbon Disulfide	1.01461	1.06570	1.06570	0.100	-5.03534	20.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.43197	0.43197	0.100	-4.65682	20.0	Averaged	
Vinyl Acetate	1.25818	1.39555	1.39555	0.010	-10.91791	20.0	Averaged	
1,1-Dichloroethane	0.78439	0.78913	0.78913	0.200	-0.60426	20.0	Averaged	
2-Butanone	0.22797	0.23121	0.23121	0.100	-1.42209	20.0	Averaged	
2,2-Dichloropropane	50.0	59.86657	0.62177	0.100	-19.73314	20.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.49940	0.49940	0.100	-1.13651	20.0	Averaged	
Chloroform	0.81639	0.84357	0.84357	0.200	-3.32959	20.0	Averaged	
Bromochloromethane	0.27621	0.28019	0.28019	0.100	-1.43977	20.0	Averaged	
30 Dibromofluoromethane	50.0	52.42196	0.43988	0.100	-4.84393	20.0	Linear	
1,1,1-Trichloroethane	0.62223	0.66914	0.66914	0.100	-7.54008	20.0	Averaged	
1,1-Dichloropropene	0.36644	0.38628	0.38628	0.100	-5.41568	20.0	Averaged	
1,2-Dichloroethane	0.43276	0.49124	0.49124	0.100	-13.51267	20.0	Averaged	
Carbon Tetrachloride	0.33660	0.37445	0.37445	0.100	-11.24520	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	53.64420	0.48677	0.100	-7.28840	20.0	Linear	
Benzene	1.20483	1.23688	1.23688	0.500	-2.66019	20.0	Averaged	
Trichloroethene	0.34921	0.35491	0.35491	0.200	-1.63128	20.0	Averaged	
Bromodichloromethane	0.37583	0.45096	0.45096	0.200	-19.99121	20.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.01062	0.01062	0.001	-16.78187	20.0	Averaged	
1,2-Dichloropropane	0.32169	0.33864	0.33864	0.100	-5.26844	20.0	Averaged	
Dibromomethane	0.20554	0.22797	0.22797	0.100	-10.91135	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439801

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062403.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 24-JUN-2023 12:17
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.38615	0.38615	0.100	-6.05519	20.0	Averaged	
cis-1,3-Dichloropropene	50.0	53.07699	0.53574	0.200	-6.15398	20.0	Linear	
48 Toluene-d8	1.13164	1.14136	1.14136	0.100	-0.85834	20.0	Averaged	
Toluene	1.35612	1.40574	1.40574	0.400	-3.65834	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	54.78394	0.46477	0.100	-9.56788	20.0	Linear	
2-Hexanone	0.25357	0.25890	0.25890	0.100	-2.10362	20.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.28316	0.28316	0.100	-0.35108	20.0	Averaged	
1,3-Dichloropropane	0.57650	0.60978	0.60978	0.100	-5.77352	20.0	Averaged	
Dibromochloromethane	0.33480	0.40016	0.40016	0.100	-19.52370	20.0	Averaged	
Tetrachloroethene	0.33041	0.34314	0.34314	0.200	-3.85438	20.0	Averaged	
1,2-Dibromoethane	0.34808	0.37545	0.37545	0.100	-7.86274	20.0	Averaged	
1-Chlorohexane	0.25674	0.25916	0.25916	0.100	-0.93989	20.0	Averaged	
Chlorobenzene	0.96786	0.99128	0.99128	0.500	-2.41959	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.36544	0.36544	0.100	-9.85474	20.0	Averaged	
Ethylbenzene	0.45047	0.47028	0.47028	0.100	-4.39578	20.0	Averaged	
m,p-Xylenes	0.53296	0.58682	0.58682	0.100	-10.10623	20.0	Averaged	
o-Xylene	0.52651	0.58010	0.58010	0.300	-10.17696	20.0	Averaged	
Styrene	0.83556	0.98062	0.98062	0.300	-17.36065	20.0	Averaged	
Bromoform	0.22599	0.27096	0.27096	0.100	-19.89901	20.0	Averaged	
Isopropylbenzene	1.26463	1.35716	1.35716	0.100	-7.31750	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.91070	0.91070	0.300	3.16976	20.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.86292	0.86292	0.100	-4.29277	20.0	Averaged	
n-Propylbenzene	2.62266	2.77958	2.77958	0.100	-5.98330	20.0	Averaged	
Bromobenzene	0.84363	0.83958	0.83958	0.100	0.48046	20.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.92142	1.92142	0.100	-6.78932	20.0	Averaged	
2-Chlorotoluene	1.84364	1.85792	1.85792	0.100	-0.77473	20.0	Averaged	
4-Chlorotoluene	2.04071	2.10640	2.10640	0.100	-3.21902	20.0	Averaged	
tert-Butylbenzene	1.76718	1.75399	1.75399	0.100	0.74626	20.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.99072	1.99072	0.100	-5.74238	20.0	Averaged	
sec-Butylbenzene	2.24110	2.28445	2.28445	0.100	-1.93440	20.0	Averaged	
p-Isopropyltoluene	1.87752	1.98057	1.98057	0.100	-5.48865	20.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.39799	1.39799	0.600	2.43386	20.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.46318	1.46318	0.400	4.22542	20.0	Averaged	
n-Butylbenzene	1.60731	1.65616	1.65616	0.500	-3.03963	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439801

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062403.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 24-JUN-2023 12:17
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.39299	1.39299	0.400	3.03869	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.13846	0.13846	0.050	-0.88511	20.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.93051	0.93051	0.200	5.83465	20.0	Averaged	
Hexachlorobutadiene	0.39906	0.38416	0.38416	0.100	3.73541	20.0	Averaged	
Naphthalene	2.29538	2.36027	2.36027	0.200	-2.82707	20.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.91030	0.91030	0.100	5.76964	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.46568	0.46568	0.200	-2.73932	20.0	Averaged	
95 Xylenes (total)	0.50452	0.57566	0.57566	0.100	-14.10041	20.0	Averaged	
1,4-Dioxane	0.00993	0.00683	0.00683	0.001	31.21453	20.0	Averaged	*
Cyclohexane	50.0	45.31228	0.55548	0.100	9.37544	20.0	Quadratic	
Freon TF	0.33580	0.35534	0.35534	0.100	-5.81843	20.0	Averaged	
1,3-Butadiene	0.47352	0.43528	0.43528	0.100	8.07491	20.0	Averaged	
Methylcyclohexane	0.69360	0.77966	0.77966	0.100	-12.40841	20.0	Averaged	
Methyl Acetate	0.42100	0.44518	0.44518	0.100	-5.74132	20.0	Averaged	
Tert-butyl alcohol	1000	1148	0.05301	0.005	-14.82171	20.0	Linear	
Isopropyl alcohol	0.03269	0.03490	0.03490	0.005	-6.78092	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.07687	0.07687	0.050	-33.52321	20.0	Averaged	*
Isobutyl Alcohol	0.06496	0.08249	0.08249	0.005	-26.97430	20.0	Averaged	*
Acetonitrile	0.05413	0.05987	0.05987	0.005	-10.60267	20.0	Averaged	
Allyl Chloride	1.29812	1.34531	1.34531	0.100	-3.63549	20.0	Averaged	
Methacrylonitrile	0.29541	0.29744	0.29744	0.100	-0.68644	20.0	Averaged	
Methyl Methacrylate	0.42991	0.45228	0.45228	0.100	-5.20385	20.0	Averaged	
Propionitrile	0.07225	0.07316	0.07316	0.010	-1.25928	20.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	2.07159	2.07159	0.100	-7.78613	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439801

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062431.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 24-JUN-2023 22:44
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	40.38844	0.37303	0.100	19.22311	50.0	Linear	
Chloromethane	50.0	41.02470	0.62229	0.100	17.95060	50.0	Linear	
Vinyl Chloride	0.52887	0.46914	0.46914	0.100	11.29383	50.0	Averaged	
Bromomethane	50.0	57.02442	0.30879	0.100	-14.04884	50.0	Linear	
Chloroethane	0.35626	0.32780	0.32780	0.100	7.98935	50.0	Averaged	
Trichlorofluoromethane	0.60742	0.62788	0.62788	0.100	-3.36913	50.0	Averaged	
Acrolein	0.02654	0.02397	0.02397	0.010	9.69388	50.0	Averaged	
Acetone	100	96.65002	0.16628	0.100	3.34998	50.0	Linear	
1,1-Dichloroethene	0.37953	0.35921	0.35921	0.100	5.35507	50.0	Averaged	
Iodomethane	100	86.44145	0.25196	0.100	13.55855	50.0	Quadratic	
Acrylonitrile	0.18542	0.20564	0.20564	0.050	-10.90099	50.0	Averaged	
Methylene Chloride	50.0	50.65089	0.46179	0.100	-1.30177	50.0	Linear	
Methyl tert-butyl ether	1.16385	1.37082	1.37082	0.100	-17.78373	50.0	Averaged	
Carbon Disulfide	1.01461	0.99394	0.99394	0.100	2.03732	50.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.40511	0.40511	0.100	1.85113	50.0	Averaged	
Vinyl Acetate	1.25818	1.32625	1.32625	0.010	-5.41035	50.0	Averaged	
1,1-Dichloroethane	0.78439	0.74343	0.74343	0.200	5.22147	50.0	Averaged	
2-Butanone	0.22797	0.20380	0.20380	0.100	10.59885	50.0	Averaged	
2,2-Dichloropropane	50.0	46.90109	0.48621	0.100	6.19781	50.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.48060	0.48060	0.100	2.67110	50.0	Averaged	
Chloroform	0.81639	0.80544	0.80544	0.200	1.34130	50.0	Averaged	
Bromochloromethane	0.27621	0.25778	0.25778	0.100	6.67018	50.0	Averaged	
30 Dibromofluoromethane	50.0	54.92356	0.46075	0.100	-9.84713	50.0	Linear	
1,1,1-Trichloroethane	0.62223	0.64004	0.64004	0.100	-2.86280	50.0	Averaged	
1,1-Dichloropropene	0.36644	0.34152	0.34152	0.100	6.79952	50.0	Averaged	
1,2-Dichloroethane	0.43276	0.43735	0.43735	0.100	-1.06127	50.0	Averaged	
Carbon Tetrachloride	0.33660	0.35040	0.35040	0.100	-4.10074	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	56.63445	0.51356	0.100	-13.26889	50.0	Linear	
Benzene	1.20483	1.11654	1.11654	0.500	7.32762	50.0	Averaged	
Trichloroethene	0.34921	0.32223	0.32223	0.200	7.72474	50.0	Averaged	
Bromodichloromethane	0.37583	0.39820	0.39820	0.200	-5.95326	50.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00534	0.00534	0.001	41.23775	50.0	Averaged	
1,2-Dichloropropane	0.32169	0.29603	0.29603	0.100	7.97609	50.0	Averaged	
Dibromomethane	0.20554	0.20445	0.20445	0.100	0.52991	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439801

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062431.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 24-JUN-2023 22:44
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.32561	0.32561	0.100	10.57190	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	44.49174	0.44585	0.200	11.01652	50.0	Linear	
48 Toluene-d8	1.13164	1.13844	1.13844	0.100	-0.60023	50.0	Averaged	
Toluene	1.35612	1.25636	1.25636	0.400	7.35673	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	45.45309	0.38257	0.100	9.09383	50.0	Linear	
2-Hexanone	0.25357	0.21561	0.21561	0.100	14.96773	50.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.25509	0.25509	0.100	9.59736	50.0	Averaged	
1,3-Dichloropropane	0.57650	0.53307	0.53307	0.100	7.53260	50.0	Averaged	
Dibromochloromethane	0.33480	0.34767	0.34767	0.100	-3.84525	50.0	Averaged	
Tetrachloroethene	0.33041	0.30125	0.30125	0.200	8.82379	50.0	Averaged	
1,2-Dibromoethane	0.34808	0.32333	0.32333	0.100	7.11084	50.0	Averaged	
1-Chlorohexane	0.25674	0.23683	0.23683	0.100	7.75755	50.0	Averaged	
Chlorobenzene	0.96786	0.89467	0.89467	0.500	7.56254	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.32921	0.32921	0.100	1.03483	50.0	Averaged	
Ethylbenzene	0.45047	0.42433	0.42433	0.100	5.80317	50.0	Averaged	
m,p-Xylenes	0.53296	0.52554	0.52554	0.100	1.39337	50.0	Averaged	
o-Xylene	0.52651	0.52171	0.52171	0.300	0.91135	50.0	Averaged	
Styrene	0.83556	0.84139	0.84139	0.300	-0.69816	50.0	Averaged	
Bromoform	0.22599	0.23781	0.23781	0.100	-5.22892	50.0	Averaged	
Isopropylbenzene	1.26463	1.22440	1.22440	0.100	3.18060	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.79738	0.79738	0.300	15.21877	50.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.75918	0.75918	0.100	8.24516	50.0	Averaged	
n-Propylbenzene	2.62266	2.45317	2.45317	0.100	6.46221	50.0	Averaged	
Bromobenzene	0.84363	0.75997	0.75997	0.100	9.91721	50.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.70144	1.70144	0.100	5.43719	50.0	Averaged	
2-Chlorotoluene	1.84364	1.71170	1.71170	0.100	7.15650	50.0	Averaged	
4-Chlorotoluene	2.04071	1.91565	1.91565	0.100	6.12853	50.0	Averaged	
tert-Butylbenzene	1.76718	1.65987	1.65987	0.100	6.07211	50.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.69368	1.69368	0.100	10.03588	50.0	Averaged	
sec-Butylbenzene	2.24110	2.05629	2.05629	0.100	8.24613	50.0	Averaged	
p-Isopropyltoluene	1.87752	1.70483	1.70483	0.100	9.19790	50.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.27560	1.27560	0.600	10.97535	50.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.33576	1.33576	0.400	12.56577	50.0	Averaged	
n-Butylbenzene	1.60731	1.40104	1.40104	0.500	12.83301	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439801

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062431.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 24-JUN-2023 22:44
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.27798	1.27798	0.400	11.04424	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.11690	0.11690	0.050	14.82368	50.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.81730	0.81730	0.200	17.29132	50.0	Averaged	
Hexachlorobutadiene	0.39906	0.32146	0.32146	0.100	19.44680	50.0	Averaged	
Naphthalene	2.29538	1.92106	1.92106	0.200	16.30761	50.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.79591	0.79591	0.100	17.61095	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.44285	0.44285	0.200	2.29776	50.0	Averaged	
95 Xylenes (total)	0.50452	0.52291	0.52291	0.100	-3.64480	50.0	Averaged	
1,4-Dioxane	0.00993	0.00589	0.00589	0.001	40.68173	50.0	Averaged	
Cyclohexane	50.0	43.25950	0.52963	0.100	13.48100	50.0	Quadratic	
Freon TF	0.33580	0.36771	0.36771	0.100	-9.50221	50.0	Averaged	
1,3-Butadiene	0.47352	0.40236	0.40236	0.100	15.02680	50.0	Averaged	
Methylcyclohexane	0.69360	0.74652	0.74652	0.100	-7.63043	50.0	Averaged	
Methyl Acetate	0.42100	0.39921	0.39921	0.100	5.17700	50.0	Averaged	
Tert-butyl alcohol	1000	1013	0.04679	0.005	-1.28240	50.0	Linear	
Isopropyl alcohol	0.03269	0.02996	0.02996	0.005	8.33838	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.06220	0.06220	0.050	-8.04437	50.0	Averaged	
Isobutyl Alcohol	0.06496	0.07715	0.07715	0.005	-18.76149	50.0	Averaged	
Acetonitrile	0.05413	0.06204	0.06204	0.005	-14.60571	50.0	Averaged	
Allyl Chloride	1.29812	1.37651	1.37651	0.100	-6.03883	50.0	Averaged	
Methacrylonitrile	0.29541	0.31575	0.31575	0.100	-6.88380	50.0	Averaged	
Methyl Methacrylate	0.42991	0.47252	0.47252	0.100	-9.91066	50.0	Averaged	
Propionitrile	0.07225	0.07743	0.07743	0.010	-7.16095	50.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	2.03872	2.03872	0.100	-6.07564	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439904

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062603.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 26-JUN-2023 13:42
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	42.90173	0.39628	0.100	14.19655	20.0	Linear	
Chloromethane	50.0	53.70938	0.80858	0.100	-7.41875	20.0	Linear	
Vinyl Chloride	0.52887	0.48507	0.48507	0.100	8.28211	20.0	Averaged	
Bromomethane	50.0	50.86196	0.27647	0.100	-1.72391	20.0	Linear	
Chloroethane	0.35626	0.35021	0.35021	0.100	1.69847	20.0	Averaged	
Trichlorofluoromethane	0.60742	0.69771	0.69771	0.100	-14.86521	20.0	Averaged	
Acrolein	0.02654	0.02311	0.02311	0.010	12.91894	20.0	Averaged	
Acetone	100	133	0.22501	0.100	-32.80564	20.0	Linear	*
1,1-Dichloroethene	0.37953	0.39136	0.39136	0.100	-3.11751	20.0	Averaged	
Iodomethane	100	82.32487	0.23784	0.100	17.67513	20.0	Quadratic	
Acrylonitrile	0.18542	0.19555	0.19555	0.050	-5.46165	20.0	Averaged	
Methylene Chloride	50.0	56.16589	0.51108	0.100	-12.33179	20.0	Linear	
Methyl tert-butyl ether	1.16385	1.32492	1.32492	0.100	-13.83927	20.0	Averaged	
Carbon Disulfide	1.01461	1.21213	1.21213	0.100	-19.46692	20.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.45407	0.45407	0.100	-10.01217	20.0	Averaged	
Vinyl Acetate	1.25818	1.46018	1.46018	0.010	-16.05459	20.0	Averaged	
1,1-Dichloroethane	0.78439	0.81793	0.81793	0.200	-4.27510	20.0	Averaged	
2-Butanone	0.22797	0.23568	0.23568	0.100	-3.38472	20.0	Averaged	
2,2-Dichloropropane	50.0	59.99358	0.62310	0.100	-19.98716	20.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.53769	0.53769	0.100	-8.89058	20.0	Averaged	
Chloroform	0.81639	0.86711	0.86711	0.200	-6.21323	20.0	Averaged	
Bromochloromethane	0.27621	0.28680	0.28680	0.100	-3.83459	20.0	Averaged	
30 Dibromofluoromethane	50.0	51.86745	0.43526	0.100	-3.73490	20.0	Linear	
1,1,1-Trichloroethane	0.62223	0.67631	0.67631	0.100	-8.69260	20.0	Averaged	
1,1-Dichloropropene	0.36644	0.40031	0.40031	0.100	-9.24404	20.0	Averaged	
1,2-Dichloroethane	0.43276	0.51148	0.51148	0.100	-18.18906	20.0	Averaged	
Carbon Tetrachloride	0.33660	0.38176	0.38176	0.100	-13.41815	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	53.34936	0.48413	0.100	-6.69872	20.0	Linear	
Benzene	1.20483	1.27643	1.27643	0.500	-5.94325	20.0	Averaged	
Trichloroethene	0.34921	0.36280	0.36280	0.200	-3.89180	20.0	Averaged	
Bromodichloromethane	0.37583	0.44655	0.44655	0.200	-18.81666	20.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00604	0.00604	0.001	33.59168	20.0	Averaged	*
1,2-Dichloropropane	0.32169	0.34493	0.34493	0.100	-7.22357	20.0	Averaged	
Dibromomethane	0.20554	0.22786	0.22786	0.100	-10.85902	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439904

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062603.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 26-JUN-2023 13:42
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.36976	0.36976	0.100	-1.55216	20.0	Averaged	
cis-1,3-Dichloropropene	50.0	53.36359	0.53874	0.200	-6.72717	20.0	Linear	
48 Toluene-d8	1.13164	1.10166	1.10166	0.100	2.65002	20.0	Averaged	
Toluene	1.35612	1.40448	1.40448	0.400	-3.56576	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	54.92801	0.46604	0.100	-9.85601	20.0	Linear	
2-Hexanone	0.25357	0.25133	0.25133	0.100	0.88406	20.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.29029	0.29029	0.100	-2.87843	20.0	Averaged	
1,3-Dichloropropane	0.57650	0.60588	0.60588	0.100	-5.09540	20.0	Averaged	
Dibromochloromethane	0.33480	0.39590	0.39590	0.100	-18.25053	20.0	Averaged	
Tetrachloroethene	0.33041	0.31271	0.31271	0.200	5.35466	20.0	Averaged	
1,2-Dibromoethane	0.34808	0.36847	0.36847	0.100	-5.85830	20.0	Averaged	
1-Chlorohexane	0.25674	0.26893	0.26893	0.100	-4.74598	20.0	Averaged	
Chlorobenzene	0.96786	0.99471	0.99471	0.500	-2.77406	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.37061	0.37061	0.100	-11.40903	20.0	Averaged	
Ethylbenzene	0.45047	0.45699	0.45699	0.100	-1.44720	20.0	Averaged	
m,p-Xylenes	0.53296	0.57445	0.57445	0.100	-7.78482	20.0	Averaged	
o-Xylene	0.52651	0.56349	0.56349	0.300	-7.02214	20.0	Averaged	
Styrene	0.83556	0.97317	0.97317	0.300	-16.46961	20.0	Averaged	
Bromoform	0.22599	0.25886	0.25886	0.100	-14.54499	20.0	Averaged	
Isopropylbenzene	1.26463	1.31089	1.31089	0.100	-3.65836	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.89612	0.89612	0.300	4.71994	20.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.87709	0.87709	0.100	-6.00540	20.0	Averaged	
n-Propylbenzene	2.62266	2.70810	2.70810	0.100	-3.25796	20.0	Averaged	
Bromobenzene	0.84363	0.84199	0.84199	0.100	0.19433	20.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.84129	1.84129	0.100	-2.33578	20.0	Averaged	
2-Chlorotoluene	1.84364	1.82508	1.82508	0.100	1.00674	20.0	Averaged	
4-Chlorotoluene	2.04071	2.11258	2.11258	0.100	-3.52165	20.0	Averaged	
tert-Butylbenzene	1.76718	1.70706	1.70706	0.100	3.40209	20.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.84976	1.84976	0.100	1.74525	20.0	Averaged	
sec-Butylbenzene	2.24110	2.20502	2.20502	0.100	1.60980	20.0	Averaged	
p-Isopropyltoluene	1.87752	1.86776	1.86776	0.100	0.51965	20.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.40598	1.40598	0.600	1.87607	20.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.49026	1.49026	0.400	2.45262	20.0	Averaged	
n-Butylbenzene	1.60731	1.58458	1.58458	0.500	1.41436	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439904

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062603.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 26-JUN-2023 13:42
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.41272	1.41272	0.400	1.66496	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.13583	0.13583	0.050	1.02931	20.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.94712	0.94712	0.200	4.15331	20.0	Averaged	
Hexachlorobutadiene	0.39906	0.38541	0.38541	0.100	3.42141	20.0	Averaged	
Naphthalene	2.29538	2.26448	2.26448	0.200	1.34607	20.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.91900	0.91900	0.100	4.86875	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.49588	0.49588	0.200	-9.40124	20.0	Averaged	
95 Xylenes (total)	0.50452	0.56343	0.56343	0.100	-11.67627	20.0	Averaged	
1,4-Dioxane	0.00993	0.00596	0.00596	0.001	40.01068	20.0	Averaged	*
Cyclohexane	50.0	45.03358	0.55197	0.100	9.93284	20.0	Quadratic	
Freon TF	0.33580	0.37111	0.37111	0.100	-10.51501	20.0	Averaged	
1,3-Butadiene	0.47352	0.43916	0.43916	0.100	7.25666	20.0	Averaged	
Methylcyclohexane	0.69360	0.72883	0.72883	0.100	-5.07891	20.0	Averaged	
Methyl Acetate	0.42100	0.41650	0.41650	0.100	1.07089	20.0	Averaged	
Tert-butyl alcohol	1000	1113	0.05140	0.005	-11.31190	20.0	Linear	
Isopropyl alcohol	0.03269	0.03240	0.03240	0.005	0.86275	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.08433	0.08433	0.050	-46.47332	20.0	Averaged	*
Isobutyl Alcohol	0.06496	0.07238	0.07238	0.005	-11.41569	20.0	Averaged	
Acetonitrile	0.05413	0.05752	0.05752	0.005	-6.26586	20.0	Averaged	
Allyl Chloride	1.29812	1.27746	1.27746	0.100	1.59179	20.0	Averaged	
Methacrylonitrile	0.29541	0.51304	0.51304	0.100	-73.67171	20.0	Averaged	*
Methyl Methacrylate	0.42991	0.44990	0.44990	0.100	-4.65092	20.0	Averaged	
Propionitrile	0.07225	0.07157	0.07157	0.010	0.93676	20.0	Averaged	
Methyl Acrylate	0.52880	0.56598	0.56598	0.100	-7.03098	20.0	Averaged	
Ethyl Methacrylate	0.43830	0.48133	0.48133	0.100	-9.81875	20.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	1.86690	1.86690	0.100	2.86411	20.0	Averaged	
Diisopropyl ether	1.39419	1.52976	1.52976	0.100	-9.72455	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439904

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062622.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 26-JUN-2023 20:47
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	43.68416	0.40352	0.100	12.63168	50.0	Linear	
Chloromethane	50.0	52.91214	0.79687	0.100	-5.82428	50.0	Linear	
Vinyl Chloride	0.52887	0.51491	0.51491	0.100	2.64021	50.0	Averaged	
Bromomethane	50.0	51.32044	0.27887	0.100	-2.64088	50.0	Linear	
Chloroethane	0.35626	0.35796	0.35796	0.100	-0.47583	50.0	Averaged	
Trichlorofluoromethane	0.60742	0.72931	0.72931	0.100	-20.06679	50.0	Averaged	
Acrolein	0.02654	0.02967	0.02967	0.010	-11.78026	50.0	Averaged	
Acetone	100	110	0.18728	0.100	-9.57813	50.0	Linear	
1,1-Dichloroethene	0.37953	0.40491	0.40491	0.100	-6.68607	50.0	Averaged	
Iodomethane	100	72.10398	0.20309	0.100	27.89602	50.0	Quadratic	
Acrylonitrile	0.18542	0.20029	0.20029	0.050	-8.01613	50.0	Averaged	
Methylene Chloride	50.0	56.56476	0.51464	0.100	-13.12952	50.0	Linear	
Methyl tert-butyl ether	1.16385	1.29498	1.29498	0.100	-11.26675	50.0	Averaged	
Carbon Disulfide	1.01461	1.11917	1.11917	0.100	-10.30510	50.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.45179	0.45179	0.100	-9.45891	50.0	Averaged	
Vinyl Acetate	1.25818	1.30323	1.30323	0.010	-3.58055	50.0	Averaged	
1,1-Dichloroethane	0.78439	0.82687	0.82687	0.200	-5.41545	50.0	Averaged	
2-Butanone	0.22797	0.22699	0.22699	0.100	0.42781	50.0	Averaged	
2,2-Dichloropropane	50.0	56.43440	0.58589	0.100	-12.86881	50.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.53252	0.53252	0.100	-7.84503	50.0	Averaged	
Chloroform	0.81639	0.90018	0.90018	0.200	-10.26430	50.0	Averaged	
Bromochloromethane	0.27621	0.28924	0.28924	0.100	-4.71916	50.0	Averaged	
30 Dibromofluoromethane	50.0	54.16557	0.45443	0.100	-8.33113	50.0	Linear	
1,1,1-Trichloroethane	0.62223	0.72327	0.72327	0.100	-16.23975	50.0	Averaged	
1,1-Dichloropropene	0.36644	0.40188	0.40188	0.100	-9.67192	50.0	Averaged	
1,2-Dichloroethane	0.43276	0.49174	0.49174	0.100	-13.62836	50.0	Averaged	
Carbon Tetrachloride	0.33660	0.41192	0.41192	0.100	-22.37918	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	55.90696	0.50705	0.100	-11.81392	50.0	Linear	
Benzene	1.20483	1.25086	1.25086	0.500	-3.82047	50.0	Averaged	
Trichloroethene	0.34921	0.37054	0.37054	0.200	-6.10862	50.0	Averaged	
Bromodichloromethane	0.37583	0.43970	0.43970	0.200	-16.99534	50.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00420	0.00420	0.001	53.84838	50.0	Averaged	*
1,2-Dichloropropane	0.32169	0.34009	0.34009	0.100	-5.71912	50.0	Averaged	
Dibromomethane	0.20554	0.22926	0.22926	0.100	-11.53904	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439904

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062622.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 26-JUN-2023 20:47
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.35247	0.35247	0.100	3.19441	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	49.68298	0.50020	0.200	0.63403	50.0	Linear	
48 Toluene-d8	1.13164	1.12953	1.12953	0.100	0.18718	50.0	Averaged	
Toluene	1.35612	1.41775	1.41775	0.400	-4.54428	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	51.24695	0.43361	0.100	-2.49390	50.0	Linear	
2-Hexanone	0.25357	0.23613	0.23613	0.100	6.87835	50.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.28120	0.28120	0.100	0.34505	50.0	Averaged	
1,3-Dichloropropane	0.57650	0.58347	0.58347	0.100	-1.20845	50.0	Averaged	
Dibromochloromethane	0.33480	0.38989	0.38989	0.100	-16.45466	50.0	Averaged	
Tetrachloroethene	0.33041	0.33601	0.33601	0.200	-1.69459	50.0	Averaged	
1,2-Dibromoethane	0.34808	0.35798	0.35798	0.100	-2.84283	50.0	Averaged	
1-Chlorohexane	0.25674	0.27684	0.27684	0.100	-7.82528	50.0	Averaged	
Chlorobenzene	0.96786	1.00756	1.00756	0.500	-4.10161	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.37322	0.37322	0.100	-12.19404	50.0	Averaged	
Ethylbenzene	0.45047	0.48800	0.48800	0.100	-8.33144	50.0	Averaged	
m,p-Xylenes	0.53296	0.60302	0.60302	0.100	-13.14414	50.0	Averaged	
o-Xylene	0.52651	0.59326	0.59326	0.300	-12.67696	50.0	Averaged	
Styrene	0.83556	0.97086	0.97086	0.300	-16.19241	50.0	Averaged	
Bromoform	0.22599	0.26370	0.26370	0.100	-16.68948	50.0	Averaged	
Isopropylbenzene	1.26463	1.44080	1.44080	0.100	-13.93082	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.86533	0.86533	0.300	7.99411	50.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.82973	0.82973	0.100	-0.28087	50.0	Averaged	
n-Propylbenzene	2.62266	2.85385	2.85385	0.100	-8.81532	50.0	Averaged	
Bromobenzene	0.84363	0.85013	0.85013	0.100	-0.76943	50.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.91671	1.91671	0.100	-6.52711	50.0	Averaged	
2-Chlorotoluene	1.84364	1.88665	1.88665	0.100	-2.33269	50.0	Averaged	
4-Chlorotoluene	2.04071	2.14873	2.14873	0.100	-5.29297	50.0	Averaged	
tert-Butylbenzene	1.76718	1.88029	1.88029	0.100	-6.40064	50.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.88180	1.88180	0.100	0.04302	50.0	Averaged	
sec-Butylbenzene	2.24110	2.40847	2.40847	0.100	-7.46832	50.0	Averaged	
p-Isopropyltoluene	1.87752	1.95367	1.95367	0.100	-4.05611	50.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.42285	1.42285	0.600	0.69885	50.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.48237	1.48237	0.400	2.96916	50.0	Averaged	
n-Butylbenzene	1.60731	1.64198	1.64198	0.500	-2.15690	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_439904

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062622.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 26-JUN-2023 20:47
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.42364	1.42364	0.400	0.90514	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.12745	0.12745	0.050	7.13437	50.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.90836	0.90836	0.200	8.07602	50.0	Averaged	
Hexachlorobutadiene	0.39906	0.38364	0.38364	0.100	3.86533	50.0	Averaged	
Naphthalene	2.29538	2.11850	2.11850	0.200	7.70570	50.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.88438	0.88438	0.100	8.45272	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.49216	0.49216	0.200	-8.57983	50.0	Averaged	
95 Xylenes (total)	0.50452	0.60021	0.60021	0.100	-18.96710	50.0	Averaged	
1,4-Dioxane	0.00993	0.00662	0.00662	0.001	33.30494	50.0	Averaged	
Cyclohexane	50.0	52.23836	0.64313	0.100	-4.47673	50.0	Quadratic	
Freon TF	0.33580	0.40143	0.40143	0.100	-19.54303	50.0	Averaged	
1,3-Butadiene	0.47352	0.45264	0.45264	0.100	4.40881	50.0	Averaged	
Methylcyclohexane	0.69360	0.72537	0.72537	0.100	-4.58025	50.0	Averaged	
Methyl Acetate	0.42100	0.44067	0.44067	0.100	-4.67214	50.0	Averaged	
Tert-butyl alcohol	1000	1103	0.05094	0.005	-10.30900	50.0	Linear	
Isopropyl alcohol	0.03269	0.03277	0.03277	0.005	-0.24513	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.07482	0.07482	0.050	-29.96518	50.0	Averaged	
Isobutyl Alcohol	0.06496	0.07367	0.07367	0.005	-13.40785	50.0	Averaged	
Acetonitrile	0.05413	0.05971	0.05971	0.005	-10.30340	50.0	Averaged	
Allyl Chloride	1.29812	1.32013	1.32013	0.100	-1.69504	50.0	Averaged	
Methacrylonitrile	0.29541	0.31128	0.31128	0.100	-5.37284	50.0	Averaged	
Methyl Methacrylate	0.42991	0.45475	0.45475	0.100	-5.77877	50.0	Averaged	
Propionitrile	0.07225	0.07560	0.07560	0.010	-4.63326	50.0	Averaged	
Methyl Acrylate	0.52880	0.57980	0.57980	0.100	-9.64548	50.0	Averaged	
Ethyl Methacrylate	0.43830	0.47011	0.47011	0.100	-7.25917	50.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	1.90866	1.90866	0.100	0.69121	50.0	Averaged	
Diisopropyl ether	1.39419	1.48792	1.48792	0.100	-6.72311	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_440137

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 28-JUN-2023 11:19
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	50.17778	0.46362	0.100	-0.35556	20.0	Linear	
Chloromethane	50.0	43.04438	0.65195	0.100	13.91123	20.0	Linear	
Vinyl Chloride	0.52887	0.53044	0.53044	0.100	-0.29653	20.0	Averaged	
Bromomethane	50.0	54.98723	0.29811	0.100	-9.97447	20.0	Linear	
Chloroethane	0.35626	0.35161	0.35161	0.100	1.30706	20.0	Averaged	
Trichlorofluoromethane	0.60742	0.68560	0.68560	0.100	-12.87159	20.0	Averaged	
Acrolein	0.02654	0.02322	0.02322	0.010	12.52501	20.0	Averaged	
Acetone	100	105	0.17939	0.100	-4.71828	20.0	Linear	
1,1-Dichloroethene	0.37953	0.39166	0.39166	0.100	-3.19743	20.0	Averaged	
Iodomethane	100	135	0.42360	0.100	-34.83768	20.0	Quadratic	*
Acrylonitrile	0.18542	0.18478	0.18478	0.050	0.34634	20.0	Averaged	
Methylene Chloride	50.0	52.78025	0.48082	0.100	-5.56050	20.0	Linear	
Methyl tert-butyl ether	1.16385	1.23583	1.23583	0.100	-6.18462	20.0	Averaged	
Carbon Disulfide	1.01461	1.20773	1.20773	0.100	-19.03340	20.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.42878	0.42878	0.100	-3.88364	20.0	Averaged	
Vinyl Acetate	1.25818	1.34395	1.34395	0.010	-6.81647	20.0	Averaged	
1,1-Dichloroethane	0.78439	0.77393	0.77393	0.200	1.33403	20.0	Averaged	
2-Butanone	0.22797	0.21031	0.21031	0.100	7.74506	20.0	Averaged	
2,2-Dichloropropane	50.0	58.34841	0.60590	0.100	-16.69682	20.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.50962	0.50962	0.100	-3.20606	20.0	Averaged	
Chloroform	0.81639	0.82290	0.82290	0.200	-0.79804	20.0	Averaged	
Bromochloromethane	0.27621	0.27773	0.27773	0.100	-0.55245	20.0	Averaged	
30 Dibromofluoromethane	50.0	51.32672	0.43075	0.100	-2.65344	20.0	Linear	
1,1,1-Trichloroethane	0.62223	0.67527	0.67527	0.100	-8.52442	20.0	Averaged	
1,1-Dichloropropene	0.36644	0.40009	0.40009	0.100	-9.18313	20.0	Averaged	
1,2-Dichloroethane	0.43276	0.46588	0.46588	0.100	-7.65389	20.0	Averaged	
Carbon Tetrachloride	0.33660	0.38982	0.38982	0.100	-15.81248	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	50.70662	0.46045	0.100	-1.41324	20.0	Linear	
Benzene	1.20483	1.25937	1.25937	0.500	-4.52737	20.0	Averaged	
Trichloroethene	0.34921	0.35950	0.35950	0.200	-2.94582	20.0	Averaged	
Bromodichloromethane	0.37583	0.42383	0.42383	0.200	-12.77136	20.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00388	0.00388	0.001	57.28902	20.0	Averaged	*
1,2-Dichloropropane	0.32169	0.33365	0.33365	0.100	-3.71759	20.0	Averaged	
Dibromomethane	0.20554	0.21938	0.21938	0.100	-6.73156	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_440137

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 28-JUN-2023 11:19
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.35707	0.35707	0.100	1.93264	20.0	Averaged	
cis-1,3-Dichloropropene	50.0	51.07880	0.51482	0.200	-2.15759	20.0	Linear	
48 Toluene-d8	1.13164	1.13763	1.13763	0.100	-0.52918	20.0	Averaged	
Toluene	1.35612	1.43082	1.43082	0.400	-5.50797	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	51.30895	0.43416	0.100	-2.61789	20.0	Linear	
2-Hexanone	0.25357	0.23470	0.23470	0.100	7.43990	20.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.27987	0.27987	0.100	0.81637	20.0	Averaged	
1,3-Dichloropropane	0.57650	0.58672	0.58672	0.100	-1.77327	20.0	Averaged	
Dibromochloromethane	0.33480	0.38143	0.38143	0.100	-13.92872	20.0	Averaged	
Tetrachloroethene	0.33041	0.34854	0.34854	0.200	-5.48794	20.0	Averaged	
1,2-Dibromoethane	0.34808	0.35646	0.35646	0.100	-2.40888	20.0	Averaged	
1-Chlorohexane	0.25674	0.28536	0.28536	0.100	-11.14708	20.0	Averaged	
Chlorobenzene	0.96786	1.00461	1.00461	0.500	-3.79747	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.37368	0.37368	0.100	-12.33464	20.0	Averaged	
Ethylbenzene	0.45047	0.49185	0.49185	0.100	-9.18597	20.0	Averaged	
m,p-Xylenes	0.53296	0.61649	0.61649	0.100	-15.67277	20.0	Averaged	
o-Xylene	0.52651	0.59992	0.59992	0.300	-13.94147	20.0	Averaged	
Styrene	0.83556	0.98783	0.98783	0.300	-18.22316	20.0	Averaged	
Bromoform	0.22599	0.26452	0.26452	0.100	-17.05023	20.0	Averaged	
Isopropylbenzene	1.26463	1.46434	1.46434	0.100	-15.79271	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.88385	0.88385	0.300	6.02431	20.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.82407	0.82407	0.100	0.40225	20.0	Averaged	
n-Propylbenzene	2.62266	2.91390	2.91390	0.100	-11.10495	20.0	Averaged	
Bromobenzene	0.84363	0.85452	0.85452	0.100	-1.29016	20.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	2.01630	2.01630	0.100	-12.06246	20.0	Averaged	
2-Chlorotoluene	1.84364	1.94284	1.94284	0.100	-5.38048	20.0	Averaged	
4-Chlorotoluene	2.04071	2.19729	2.19729	0.100	-7.67282	20.0	Averaged	
tert-Butylbenzene	1.76718	1.95193	1.95193	0.100	-10.45437	20.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	2.05259	2.05259	0.100	-9.02871	20.0	Averaged	
sec-Butylbenzene	2.24110	2.53496	2.53496	0.100	-13.11248	20.0	Averaged	
p-Isopropyltoluene	1.87752	2.16677	2.16677	0.100	-15.40596	20.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.45453	1.45453	0.600	-1.51227	20.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.51618	1.51618	0.400	0.75604	20.0	Averaged	
n-Butylbenzene	1.60731	1.82489	1.82489	0.500	-13.53692	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_440137

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062803.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 28-JUN-2023 11:19
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.44349	1.44349	0.400	-0.47629	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.13119	0.13119	0.050	4.41032	20.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	1.01056	1.01056	0.200	-2.26627	20.0	Averaged	
Hexachlorobutadiene	0.39906	0.44689	0.44689	0.100	-11.98372	20.0	Averaged	
Naphthalene	2.29538	2.39771	2.39771	0.200	-4.45788	20.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.96075	0.96075	0.100	0.54687	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.46920	0.46920	0.200	-3.51456	20.0	Averaged	
95 Xylenes (total)	0.50452	0.59542	0.59542	0.100	-18.01666	20.0	Averaged	
1,4-Dioxane	0.00993	0.00639	0.00639	0.001	35.61000	20.0	Averaged	*
Cyclohexane	50.0	49.70430	0.61098	0.100	0.59140	20.0	Quadratic	
Freon TF	0.33580	0.37347	0.37347	0.100	-11.21750	20.0	Averaged	
1,3-Butadiene	0.47352	0.47357	0.47357	0.100	-0.01081	20.0	Averaged	
Methylcyclohexane	0.69360	0.73055	0.73055	0.100	-5.32805	20.0	Averaged	
Methyl Acetate	0.42100	0.38889	0.38889	0.100	7.62895	20.0	Averaged	
Tert-butyl alcohol	1000	1053	0.04863	0.005	-5.28181	20.0	Linear	
Isopropyl alcohol	0.03269	0.03153	0.03153	0.005	3.53026	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.07366	0.07366	0.050	-27.94332	20.0	Averaged	*
Isobutyl Alcohol	0.06496	0.07662	0.07662	0.005	-17.93951	20.0	Averaged	
Acetonitrile	0.05413	0.05598	0.05598	0.005	-3.40645	20.0	Averaged	
Allyl Chloride	1.29812	1.25359	1.25359	0.100	3.43050	20.0	Averaged	
Methacrylonitrile	0.29541	0.30540	0.30540	0.100	-3.38312	20.0	Averaged	
Methyl Methacrylate	0.42991	0.44763	0.44763	0.100	-4.12172	20.0	Averaged	
Propionitrile	0.07225	0.06738	0.06738	0.010	6.74769	20.0	Averaged	
Butyl acrylate	0.59144	0.58519	0.58519	0.100	1.05745	20.0	Averaged	
2-Ethylhexyl Acrylate	50.0	52.61389	0.50707	0.100	-5.22777	20.0	Quadratic	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_440137

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062830.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 28-JUN-2023 22:03
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	39.01619	0.36033	0.100	21.96762	50.0	Linear	
Chloromethane	50.0	42.41964	0.64278	0.100	15.16072	50.0	Linear	
Vinyl Chloride	0.52887	0.48560	0.48560	0.100	8.18167	50.0	Averaged	
Bromomethane	50.0	55.49503	0.30077	0.100	-10.99006	50.0	Linear	
Chloroethane	0.35626	0.34350	0.34350	0.100	3.58328	50.0	Averaged	
Trichlorofluoromethane	0.60742	0.67349	0.67349	0.100	-10.87679	50.0	Averaged	
Acrolein	0.02654	0.02684	0.02684	0.010	-1.13253	50.0	Averaged	
Acetone	100	103	0.17681	0.100	-3.13161	50.0	Linear	
1,1-Dichloroethene	0.37953	0.38142	0.38142	0.100	-0.49803	50.0	Averaged	
Iodomethane	100	102	0.30571	0.100	-1.92758	50.0	Quadratic	
Acrylonitrile	0.18542	0.19415	0.19415	0.050	-4.70472	50.0	Averaged	
Methylene Chloride	50.0	53.18059	0.48440	0.100	-6.36118	50.0	Linear	
Methyl tert-butyl ether	1.16385	1.25190	1.25190	0.100	-7.56524	50.0	Averaged	
Carbon Disulfide	1.01461	1.14742	1.14742	0.100	-13.08972	50.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.42544	0.42544	0.100	-3.07414	50.0	Averaged	
Vinyl Acetate	1.25818	1.28779	1.28779	0.010	-2.35331	50.0	Averaged	
1,1-Dichloroethane	0.78439	0.76729	0.76729	0.200	2.18060	50.0	Averaged	
2-Butanone	0.22797	0.20690	0.20690	0.100	9.24068	50.0	Averaged	
2,2-Dichloropropane	50.0	47.86532	0.49629	0.100	4.26937	50.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.51192	0.51192	0.100	-3.67336	50.0	Averaged	
Chloroform	0.81639	0.83714	0.83714	0.200	-2.54186	50.0	Averaged	
Bromochloromethane	0.27621	0.27544	0.27544	0.100	0.27702	50.0	Averaged	
30 Dibromofluoromethane	50.0	52.73019	0.44245	0.100	-5.46038	50.0	Linear	
1,1,1-Trichloroethane	0.62223	0.67248	0.67248	0.100	-8.07703	50.0	Averaged	
1,1-Dichloropropene	0.36644	0.37168	0.37168	0.100	-1.43049	50.0	Averaged	
1,2-Dichloroethane	0.43276	0.45352	0.45352	0.100	-4.79707	50.0	Averaged	
Carbon Tetrachloride	0.33660	0.38172	0.38172	0.100	-13.40694	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	53.63203	0.48666	0.100	-7.26405	50.0	Linear	
Benzene	1.20483	1.18896	1.18896	0.500	1.31675	50.0	Averaged	
Trichloroethene	0.34921	0.35673	0.35673	0.200	-2.15296	50.0	Averaged	
Bromodichloromethane	0.37583	0.40962	0.40962	0.200	-8.99176	50.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00338	0.00338	0.001	62.80460	50.0	Averaged	*
1,2-Dichloropropane	0.32169	0.31611	0.31611	0.100	1.73388	50.0	Averaged	
Dibromomethane	0.20554	0.21808	0.21808	0.100	-6.10188	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_440137

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062830.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 28-JUN-2023 22:03
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.33262	0.33262	0.100	8.64748	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	45.97041	0.46133	0.200	8.05918	50.0	Linear	
48 Toluene-d8	1.13164	1.10277	1.10277	0.100	2.55187	50.0	Averaged	
Toluene	1.35612	1.34169	1.34169	0.400	1.06417	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	46.83873	0.39478	0.100	6.32254	50.0	Linear	
2-Hexanone	0.25357	0.21749	0.21749	0.100	14.22704	50.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.26613	0.26613	0.100	5.68317	50.0	Averaged	
1,3-Dichloropropane	0.57650	0.55456	0.55456	0.100	3.80651	50.0	Averaged	
Dibromochloromethane	0.33480	0.36404	0.36404	0.100	-8.73439	50.0	Averaged	
Tetrachloroethene	0.33041	0.30973	0.30973	0.200	6.25808	50.0	Averaged	
1,2-Dibromoethane	0.34808	0.34393	0.34393	0.100	1.19232	50.0	Averaged	
1-Chlorohexane	0.25674	0.25200	0.25200	0.100	1.84783	50.0	Averaged	
Chlorobenzene	0.96786	0.94588	0.94588	0.500	2.27138	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.34424	0.34424	0.100	-3.48166	50.0	Averaged	
Ethylbenzene	0.45047	0.44265	0.44265	0.100	1.73727	50.0	Averaged	
m,p-Xylenes	0.53296	0.55451	0.55451	0.100	-4.04297	50.0	Averaged	
o-Xylene	0.52651	0.54578	0.54578	0.300	-3.65976	50.0	Averaged	
Styrene	0.83556	0.89407	0.89407	0.300	-7.00188	50.0	Averaged	
Bromoform	0.22599	0.25117	0.25117	0.100	-11.14085	50.0	Averaged	
Isopropylbenzene	1.26463	1.28850	1.28850	0.100	-1.88756	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.85105	0.85105	0.300	9.51258	50.0	Averaged	
1,2,3-Trichloropropane	0.82740	0.78676	0.78676	0.100	4.91215	50.0	Averaged	
n-Propylbenzene	2.62266	2.60897	2.60897	0.100	0.52175	50.0	Averaged	
Bromobenzene	0.84363	0.80703	0.80703	0.100	4.33858	50.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.75571	1.75571	0.100	2.42099	50.0	Averaged	
2-Chlorotoluene	1.84364	1.75929	1.75929	0.100	4.57541	50.0	Averaged	
4-Chlorotoluene	2.04071	2.00492	2.00492	0.100	1.75409	50.0	Averaged	
tert-Butylbenzene	1.76718	1.72015	1.72015	0.100	2.66115	50.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.75952	1.75952	0.100	6.53865	50.0	Averaged	
sec-Butylbenzene	2.24110	2.14753	2.14753	0.100	4.17477	50.0	Averaged	
p-Isopropyltoluene	1.87752	1.79470	1.79470	0.100	4.41110	50.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.34240	1.34240	0.600	6.31369	50.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.39768	1.39768	0.400	8.51267	50.0	Averaged	
n-Butylbenzene	1.60731	1.46862	1.46862	0.500	8.62864	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID VOA9_440137

Volatiles by EPA 8260

Instrument ID VOA9.I
Lab File ID U062830.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date 28-JUN-2023 22:03
ICAL Date(s) 06-JUN-2023 06-JUN-2023
ICAL Times 11:15 15:41
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2-Dichlorobenzene	1.43664	1.34326	1.34326	0.400	6.50027	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.12171	0.12171	0.050	11.32007	50.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.86264	0.86264	0.200	12.70236	50.0	Averaged	
Hexachlorobutadiene	0.39906	0.35577	0.35577	0.100	10.85006	50.0	Averaged	
Naphthalene	2.29538	2.01371	2.01371	0.200	12.27119	50.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.84697	0.84697	0.100	12.32458	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.45327	0.46868	0.46868	0.200	-3.40053	50.0	Averaged	
95 Xylenes (total)	0.50452	0.54673	0.54673	0.100	-8.36681	50.0	Averaged	
1,4-Dioxane	0.00993	0.00653	0.00653	0.001	34.18787	50.0	Averaged	
Cyclohexane	50.0	45.06268	0.55233	0.100	9.87464	50.0	Quadratic	
Freon TF	0.33580	0.35731	0.35731	0.100	-6.40574	50.0	Averaged	
1,3-Butadiene	0.47352	0.43133	0.43133	0.100	8.91071	50.0	Averaged	
Methylcyclohexane	0.69360	0.66950	0.66950	0.100	3.47415	50.0	Averaged	
Methyl Acetate	0.42100	0.41294	0.41294	0.100	1.91475	50.0	Averaged	
Tert-butyl alcohol	1000	1047	0.04837	0.005	-4.72494	50.0	Linear	
Isopropyl alcohol	0.03269	0.03156	0.03156	0.005	3.43845	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.06417	0.06417	0.050	-11.46718	50.0	Averaged	
Isobutyl Alcohol	0.06496	0.07609	0.07609	0.005	-17.12614	50.0	Averaged	
Acetonitrile	0.05413	0.05489	0.05489	0.005	-1.40295	50.0	Averaged	
Allyl Chloride	1.29812	1.24881	1.24881	0.100	3.79899	50.0	Averaged	
Methacrylonitrile	0.29541	0.28451	0.28451	0.100	3.69114	50.0	Averaged	
Methyl Methacrylate	0.42991	0.43874	0.43874	0.100	-2.05453	50.0	Averaged	
Propionitrile	0.07225	0.07157	0.07157	0.010	0.94865	50.0	Averaged	
Butyl acrylate	0.59144	0.53106	0.53106	0.100	10.20979	50.0	Averaged	
2-Ethylhexyl Acrylate	50.0	46.86593	0.44701	0.100	6.26815	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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 LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

VOA9_439801		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U062403.D	557949	#	4.82	#	796215	#	5.55	#	784062	#	8.19	#	421010	#	10.17	#
HS23061557-01	U062427.D	592824		4.82		811319		5.55		736005		8.19		362459		10.17	
VBLKW-230624	U062407.D	629908		4.81		863599		5.55		783334		8.19		383787		10.17	
VLCSW-230624	U062405.D	567046		4.82		821835		5.55		789043		8.19		413117		10.17	
MS-ZZZZZZMS	U062409.D	632681		4.82		861031		5.55		821838		8.19		434616		10.17	
ZZZZZZMSD	U062410.D	641337		4.82		874021		5.55		825852		8.19		442012		10.17	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

VOA9_439904		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U062603.D	532462	#	4.82	#	764238	#	5.55	#	754373	#	8.19	#	400677	#	10.17	#
HS23061557-02	U062608.D	613000		4.82		830999		5.55		764108		8.19		380153		10.17	
HS23061557-02MS	U062609.D	606413		4.82		817199		5.55		779405		8.19		420779		10.17	
HS23061557-02MSD	U062610.D	644622		4.82		868378		5.55		820167		8.19		432477		10.17	
HS23061557-03	U062621.D	571693		4.81		782221		5.55		723275		8.19		364483		10.17	
HS23061557-04	U062620.D	576294		4.82		787134		5.56		727253		8.19		363100		10.17	
HS23061557-05	U062616.D	612935		4.81		836576		5.55		751709		8.19		369721		10.17	
HS23061557-06	U062617.D	597197		4.82		813808		5.55		761752		8.19		385509		10.17	
HS23061557-07	U062618.D	609719		4.81		819507		5.55		745824		8.19		369646		10.17	
HS23061557-08	U062619.D	614840		4.81		832747		5.55		762644		8.19		383573		10.17	
HS23061557-09	U062615.D	607551		4.82		831718		5.55		770642		8.19		388008		10.17	
VBLKW-230626	U062607.D	602330		4.82		814185		5.56		745377		8.19		382401		10.17	
VLCSW-230626	U062605.D	529977		4.82		776892		5.55		751063		8.19		406714		10.17	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Volatiles by EPA 8260

VOA9_440137		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U062803.D	564266	#	4.82	#	811834	#	5.55	#	791172	#	8.19	#	423188	#	10.17	#
HS23061557-03	U062813.D	645705		4.82		857635		5.55		785258		8.19		393090		10.17	
VBLKW-230628	U062807.D	618517		4.82		832888		5.55		769689		8.19		382144		10.17	
VLCSW-230628	U062805.D	554737		4.82		803116		5.56		763175		8.19		405016		10.17	
MS-ZZZZZZMS	U062811.D	624968		4.82		847987		5.55		793841		8.19		427798		10.17	
ZZZZZZMSD	U062812.D	639964		4.82		868987		5.55		817148		8.19		445848		10.17	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H 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 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

ALS Environmental–Houston Laboratory

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Phone (281) 530-5656 Fax (281) 530-5887

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
VOA9-437296

Volatiles by EPA 8260

Run ID VOA9_437296 **Start Date** 06/06/23 **EndDate** 06/06/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:53	BFB	TUNE	BFB	U060601.D	06/06/23	1
11:15	VSTD000.25	ICAL1	VSTD000.25	U060602.D	06/06/23	1
11:37	VSTD000.5	ICAL2	VSTD000.5	U060603.D	06/06/23	1
13:06	VSTD005	ICAL5	VSTD005	U060606.D	06/06/23	1
13:28	VSTD001	ICAL3	VSTD001	U060607.D	06/06/23	1
13:50	VSTD002	ICAL4	VSTD002	U060608.D	06/06/23	1
14:13	VSTD020	ICAL6	VSTD020	U060609.D	06/06/23	1
14:35	VSTD050	ICAL7	VSTD050	U060610.D	06/06/23	1
14:57	VSTD100	ICAL8	VSTD100	U060611.D	06/06/23	1
15:19	VSTD150	ICAL9	VSTD150	U060612.D	06/06/23	1
15:41	VSTD200	ICAL	VSTD200	U060613.D	06/06/23	1
16:48	CCV	ICV	CCV	U060616.D	06/06/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
VOA9-439801

Volatiles by EPA 8260

Run ID VOA9_439801 **Start Date** 06/24/23 **EndDate** 06/24/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:32	BFB	TUNE	BFB	U062401.D	06/24/23	1
12:17	CCV	CCV	CCV	U062403.D	06/24/23	1
12:39	CCB	CCB	CCB	U062404.D	06/24/23	1
13:01	VLCSW-230624	LCS	VLCSW-230624	U062405.D	06/24/23	1
13:46	VBLKW-230624	MBLK	VBLKW-230624	U062407.D	06/24/23	1
14:08	HS23061372-03	SAMP	ZZZZZZZZZZ	U062408.D	06/24/23	1
14:31	HS23061372-03MS	MS	ZZZZZZMS	U062409.D	06/24/23	1
14:53	HS23061372-03MSD	MSD	ZZZZZZMSD	U062410.D	06/24/23	1
15:38	HS23061372-10	SAMP	ZZZZZZZZZZ	U062412.D	06/24/23	1
16:00	HS23061459-11	SAMP	ZZZZZZZZZZ	U062413.D	06/24/23	1
16:23	HS23061372-04	SAMP	ZZZZZZZZZZ	U062414.D	06/24/23	1
16:45	HS23061372-06	SAMP	ZZZZZZZZZZ	U062415.D	06/24/23	1
17:08	HS23061372-07	SAMP	ZZZZZZZZZZ	U062416.D	06/24/23	1
17:30	HS23061372-08	SAMP	ZZZZZZZZZZ	U062417.D	06/24/23	1
17:53	HS23061459-01	SAMP	ZZZZZZZZZZ	U062418.D	06/24/23	1
18:15	HS23061459-02	SAMP	ZZZZZZZZZZ	U062419.D	06/24/23	1
18:37	HS23061459-03	SAMP	ZZZZZZZZZZ	U062420.D	06/24/23	1
19:00	HS23061459-04	SAMP	ZZZZZZZZZZ	U062421.D	06/24/23	1
19:22	HS23061459-06	SAMP	ZZZZZZZZZZ	U062422.D	06/24/23	1
19:45	HS23061459-07	SAMP	ZZZZZZZZZZ	U062423.D	06/24/23	1
20:07	HS23061459-08	SAMP	ZZZZZZZZZZ	U062424.D	06/24/23	1
20:29	HS23061459-09	SAMP	ZZZZZZZZZZ	U062425.D	06/24/23	1
20:52	HS23061459-10	SAMP	ZZZZZZZZZZ	U062426.D	06/24/23	1
21:14	HS23061557-01	SAMP	18WW22_062123	U062427.D	06/24/23	1
21:37	HS23061459-05	SAMP	ZZZZZZZZZZ	U062428.D	06/24/23	1
21:59	HS23061372-05	SAMP	ZZZZZZZZZZ	U062429.D	06/24/23	1
22:21	HS23061372-09	SAMP	ZZZZZZZZZZ	U062430.D	06/24/23	1
22:44	CCV-END	CCV_END	CCV-END	U062431.D	06/24/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
VOA9-439904

Volatiles by EPA 8260

Run ID VOA9_439904 **Start Date** 06/26/23 **EndDate** 06/26/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
12:37	BFB	TUNE	BFB	U062601.D	06/26/23	1
13:42	CCV	CCV	CCV	U062603.D	06/26/23	1
14:04	CCB	CCB	CCB	U062604.D	06/26/23	1
14:27	VLCSW-230626	LCS	VLCSW-230626	U062605.D	06/26/23	1
15:11	VBLKW-230626	MBLK	VBLKW-230626	U062607.D	06/26/23	1
15:34	HS23061557-02	SAMP	CO4_062023	U062608.D	06/26/23	1
15:56	HS23061557-02MS	MS	HS23061557-02MS	U062609.D	06/26/23	1
16:19	HS23061557-02MSD	MSD	HS23061557-02MSD	U062610.D	06/26/23	1
16:41	HS23061372-09	SAMP	ZZZZZZZZZZ	U062611.D	06/26/23	5
17:03	HS23061459-05	SAMP	ZZZZZZZZZZ	U062612.D	06/26/23	5
18:11	HS23061557-09	SAMP	Trip Blank	U062615.D	06/26/23	1
18:33	HS23061557-05	SAMP	18CPTMW07_062123	U062616.D	06/26/23	1
18:55	HS23061557-06	SAMP	18WW25_062123	U062617.D	06/26/23	1
19:18	HS23061557-07	SAMP	MW10_062123	U062618.D	06/26/23	1
19:40	HS23061557-08	SAMP	MW20_062123	U062619.D	06/26/23	1
20:03	HS23061557-04	SAMP	18CPTMW24_062123	U062620.D	06/26/23	5
20:25	HS23061557-03	SAMP	18CPTMW14_062123	U062621.D	06/26/23	5
20:47	CCV-END	CCV_END	CCV-END	U062622.D	06/26/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
VOA9-440137

Volatiles by EPA 8260

Run ID VOA9_440137 **Start Date** 06/28/23 **EndDate** 06/28/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:34	BFB	TUNE	BFB	U062801.D	06/28/23	1
11:19	CCV	CCV	CCV	U062803.D	06/28/23	1
12:21	CCB	CCB	CCB	U062804.D	06/28/23	1
12:44	VLCSW-230628	LCS	VLCSW-230628	U062805.D	06/28/23	1
13:28	VBLKW-230628	MBLK	VBLKW-230628	U062807.D	06/28/23	1
13:51	HS23061825-05	SAMP	ZZZZZZZZZZ	U062808.D	06/28/23	1
14:13	HS23061825-09	SAMP	ZZZZZZZZZZ	U062809.D	06/28/23	1
14:35	HS23061825-04	SAMP	ZZZZZZZZZZ	U062810.D	06/28/23	1
14:58	HS23061825-05MS	MS	ZZZZZZMS	U062811.D	06/28/23	1
15:20	HS23061825-05MSD	MSD	ZZZZZZMSD	U062812.D	06/28/23	1
15:43	HS23061557-03	SAMP	18CPTMW14_062123	U062813.D	06/28/23	50
16:05	HS23061825-10	SAMP	ZZZZZZZZZZ	U062814.D	06/28/23	1
16:27	HS23061825-07	SAMP	ZZZZZZZZZZ	U062815.D	06/28/23	1
16:50	HS23061825-06	SAMP	ZZZZZZZZZZ	U062816.D	06/28/23	1
17:12	HS23061825-01	SAMP	ZZZZZZZZZZ	U062817.D	06/28/23	5
17:35	HS23061825-02	SAMP	ZZZZZZZZZZ	U062818.D	06/28/23	5
17:57	HS23061925-24	SAMP	ZZZZZZZZZZ	U062819.D	06/28/23	1
18:19	HS23061925-04	SAMP	ZZZZZZZZZZ	U062820.D	06/28/23	1
18:42	HS23061925-16	SAMP	ZZZZZZZZZZ	U062821.D	06/28/23	1
19:04	HS23061925-17	SAMP	ZZZZZZZZZZ	U062822.D	06/28/23	1
19:27	HS23061925-18	SAMP	ZZZZZZZZZZ	U062823.D	06/28/23	1
19:49	HS23061925-19	SAMP	ZZZZZZZZZZ	U062824.D	06/28/23	1
20:11	HS23061925-01	SAMP	ZZZZZZZZZZ	U062825.D	06/28/23	1
20:34	HS23061925-20	SAMP	ZZZZZZZZZZ	U062826.D	06/28/23	1
20:56	HS23061925-06	SAMP	ZZZZZZZZZZ	U062827.D	06/28/23	20
21:19	HS23061925-02	SAMP	ZZZZZZZZZZ	U062828.D	06/28/23	10
21:41	HS23061925-03	SAMP	ZZZZZZZZZZ	U062829.D	06/28/23	10
22:03	CCV-END	CCV_END	CCV-END	U062830.D	06/28/23	1

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Raw Data VOA9 437296

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060601.D Page 1
Report Date: 06-Jun-2023 11:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 06-JUN-2023 10:53
Operator : PC Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.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: NAHSTW7051

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	
9.197	9.180	(0.000)	95	136448			0.00- 100.00	100.00
9.197	9.180	(0.000)	50	25960			15.00- 40.00	19.03
9.197	9.180	(0.000)	75	63728			30.00- 60.00	46.70
9.197	9.180	(0.000)	96	9360			5.00- 9.00	6.86
9.197	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.197	9.180	(0.000)	174	125696			50.00- 0.00	92.12
9.197	9.180	(0.000)	175	10925			5.00- 9.00	8.69
9.197	9.180	(0.000)	176	121928			95.00- 101.00	97.00
9.197	9.180	(0.000)	177	8371			5.00- 9.00	6.87

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.03
75	30.00 - 60.00% of mass 95	46.70
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	92.12
175	5.00 - 9.00% of mass 174	8.01 (8.69)
176	95.00 - 101.00% of mass 174	89.36 (97.00)
177	5.00 - 9.00% of mass 176	6.13 (6.87)

Data File: U060601.D
Spectrum: Scan 2294 (9.19)
Location of Maximum: 95.00
Number of points: 183

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1606	78.90	3626	126.90	173	180.50	63
37.00	7004	79.90	1138	127.90	637	189.70	63
38.00	6056	80.90	3614	128.80	349	190.10	90
39.10	2292	81.90	1010	129.90	611	190.90	76
39.90	605	83.70	86	131.00	267	191.70	102
40.60	238	84.40	139	131.90	136	193.30	85
41.50	249	85.10	99	133.00	93	193.80	111
42.40	145	86.00	358	134.00	60	194.90	61
43.10	257	86.90	5506	134.90	188	195.70	59
43.90	1550	87.90	5724	135.50	114	199.00	61
45.00	1049	89.70	70	136.10	156	201.00	76
46.20	308	90.90	483	137.00	446	204.10	65
47.00	2170	92.00	3718	138.70	149	206.80	96
47.80	1172	93.00	5572	139.60	225	214.00	57
49.00	5597	94.00	17248	140.80	1519	215.30	57
50.00	25960	95.00	136448	141.80	216	217.30	81
51.00	8122	96.00	9360	142.90	1809	219.80	80
52.10	549	97.00	242	143.90	185	221.90	82
53.20	314	98.10	120	144.90	427	226.10	60
53.90	188	99.50	83	145.90	283	227.70	56
54.20	214	100.10	128	146.90	135	233.00	105
54.80	516	101.30	73	147.90	335	241.30	67
56.00	2033	102.80	171	148.90	169	243.30	72
57.00	3459	103.90	720	149.80	365	244.40	79
57.90	375	104.80	244	151.80	188	246.00	69
59.00	221	105.80	554	152.60	215	247.20	66
60.00	1229	107.10	182	153.80	221	253.10	56
61.00	6314	107.60	97	154.80	409	258.80	62
62.00	6603	108.20	76	155.90	107	264.10	94
63.00	5015	109.70	198	157.00	385	264.50	57
64.00	798	111.00	182	158.70	185	265.40	67
64.90	849	111.60	225	160.20	116	278.00	50
65.80	161	112.70	159	161.10	194	283.30	85
66.80	415	113.00	170	161.60	65	284.10	92
68.00	14015	114.80	234	166.70	55	286.60	57
69.00	13768	115.90	673	168.00	87	287.60	52
70.00	1246	116.90	876	169.10	89	295.90	52
70.80	262	117.80	546	169.60	59	300.90	71
71.30	260	118.80	825	170.30	103	302.50	52
72.10	826	119.90	99	171.00	262	320.40	86
73.00	6098	120.40	70	172.00	1169	328.50	66
74.00	20912	121.70	115	173.90	125696	330.30	64
75.00	63728	122.50	79	175.00	10925	339.30	78
76.00	6105	123.50	138	175.90	121928	346.10	69
76.90	843	124.80	115	176.90	8371	349.50	59

77.90	770	125.60	102	177.90	233		

Data File: \\nahstws005\target\chem\voa9.i\u230606.b\u060601.d Page 1

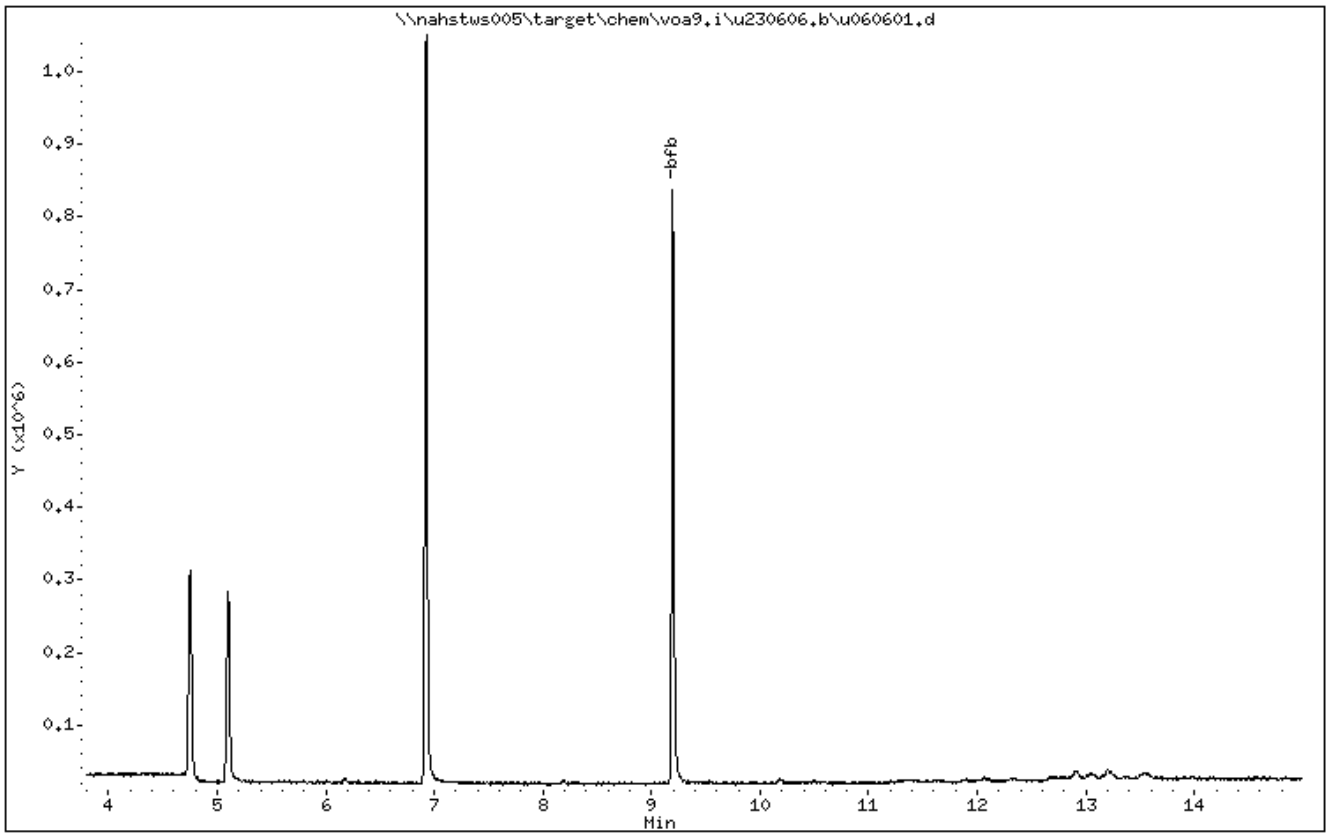
Date : 06-JUN-2023 10:53

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060601.d
Inj Date : 06-JUN-2023 10:53
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D Page 1
Report Date: 13-Jun-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 06-JUN-2023 11:15
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 13-Jun-2023 13:00 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

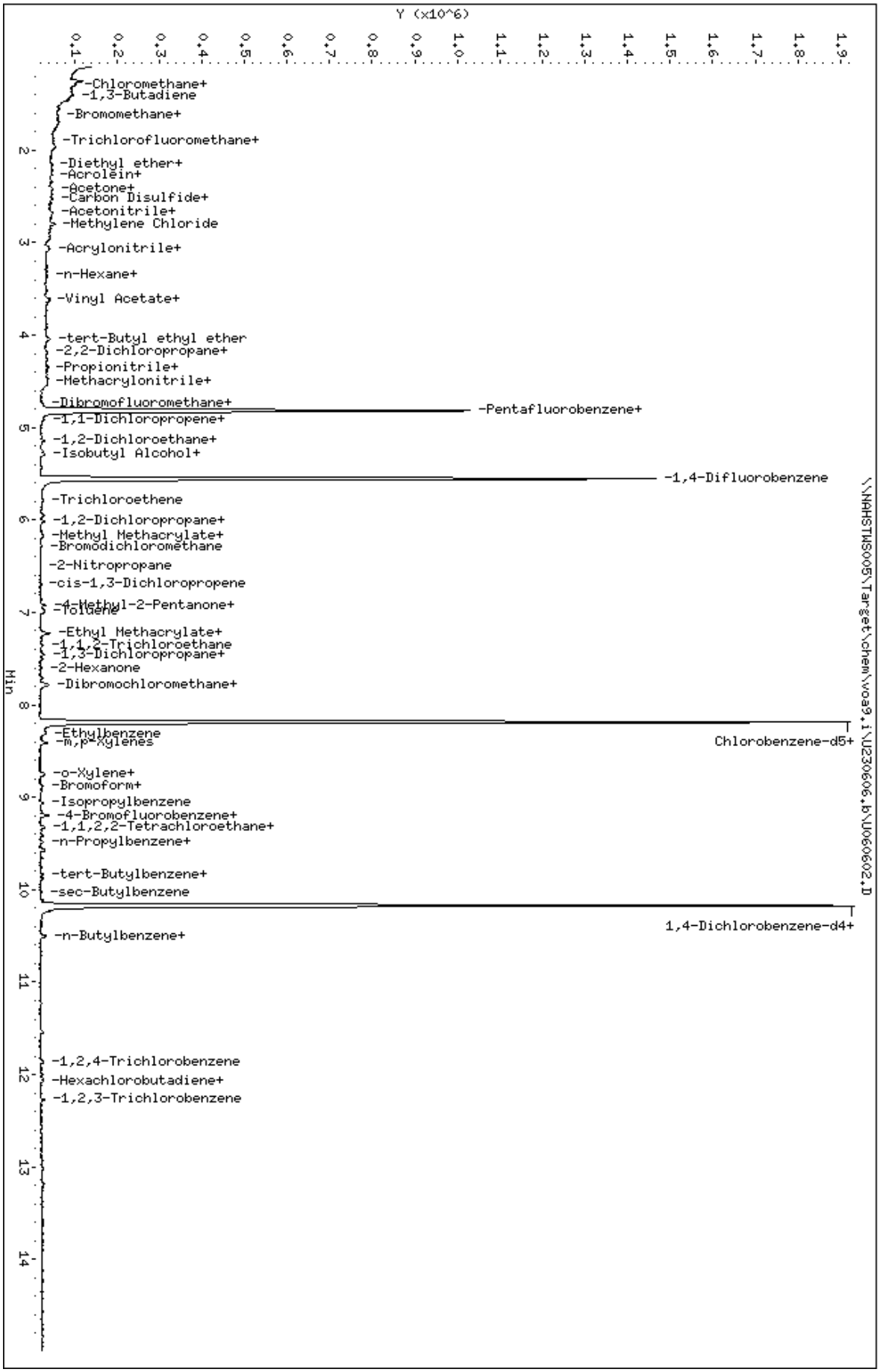
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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)	758075	50.0000	
	15 Iodomethane	142	2.476	2.476	(0.514)	1709	0.50000	10.21(T)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	2648	0.25000	0.73(a)
$	30 Dibromofluoromethane	113	4.751	4.751	(0.987)	2358	0.25000	0.05(a)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	2464	0.25000	(a)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	1141877	50.0000	
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	2552	0.25000	2.12(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	1042568	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	9480	0.25000	0.40(a)
	51 trans-1,3-Dichloropropene	75	7.207	7.207	(1.298)	1508	0.25000	2.17(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	10231	0.25000	1.74(a)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	6043	0.25000	(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	519246	50.0000	
M	94 1,2-Dichloroethylene (total)	96				4023	0.50000	(a)
	141 Cyclohexane	56	4.815	4.815	(1.000)	12882	0.25000	1.60(a)
	140 1,3-Butadiene	54	1.404	1.404	(0.292)	1956	0.25000	0.27(a)
	145 alpha-Methylstyrene	118	9.760	9.760	(0.959)	2265	0.25000	3.75(a)
	162 Butyl acrylate	55	8.736	8.736	(1.067)	4785	0.25000	0.38(a)
	203 2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	2128	0.25000	2.17(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Date : 06-JUN-2023 11:15
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

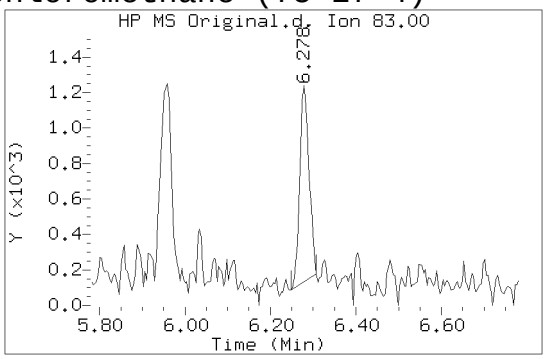
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Inj Date : 06-JUN-2023 11:15
InstruID : VOA9.i
LabSampID : VSTD000.25

Bromodichloromethane (75-27-4)

Reason Code:

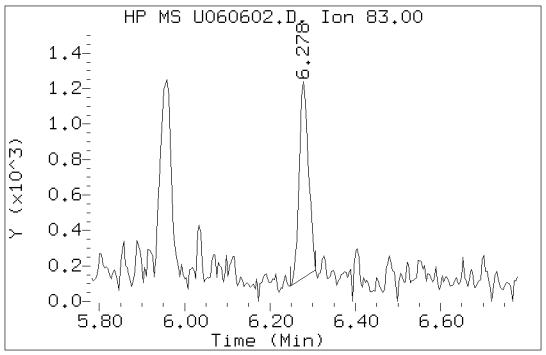
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HEIGHT
1106
08-Jun-2023
14:56
linh
pham



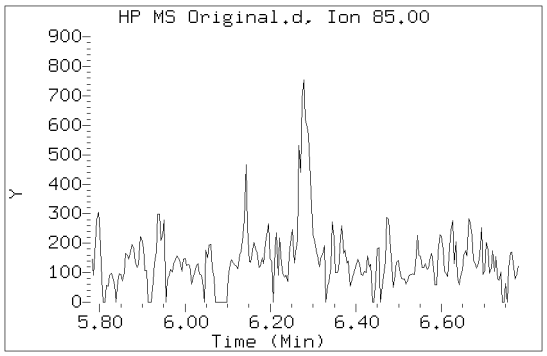
AFTER

MASS
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AREA
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13-Jun-2023
13:00
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pham



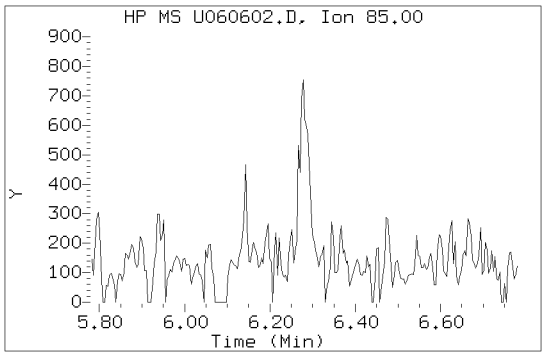
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pham



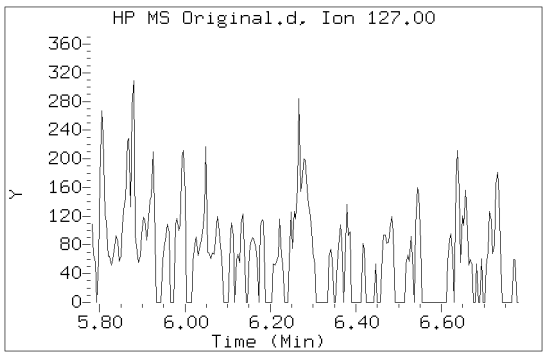
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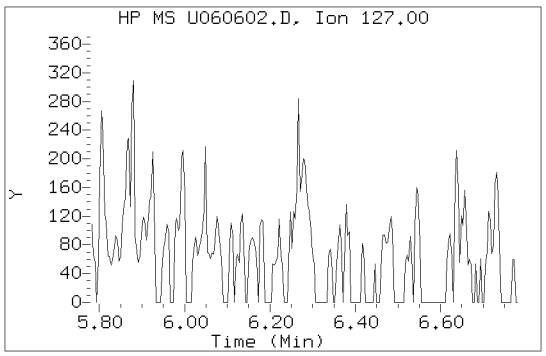
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08-Jun-2023
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AFTER

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HEIGHT
0
13-Jun-2023
13:00
linh
pham

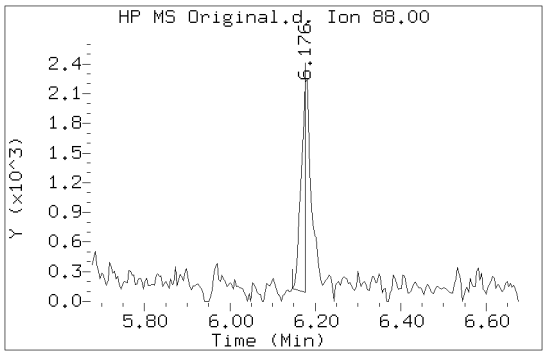


1,4-Dioxane ()

Reason Code:

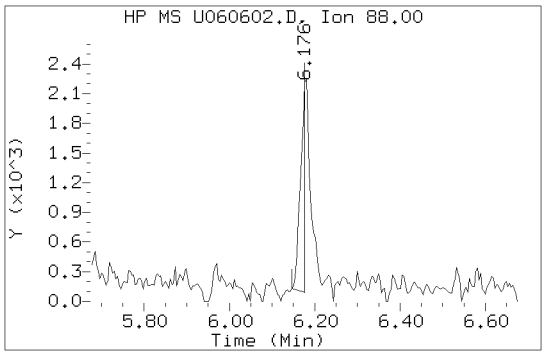
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08-Jun-2023
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AFTER

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13-Jun-2023
13:00
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pham



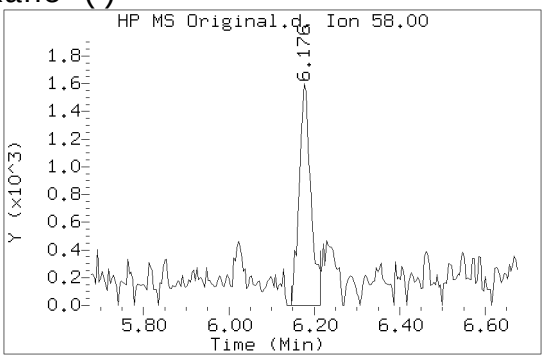
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Inj Date : 06-JUN-2023 11:15
InstruID : VOA9.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

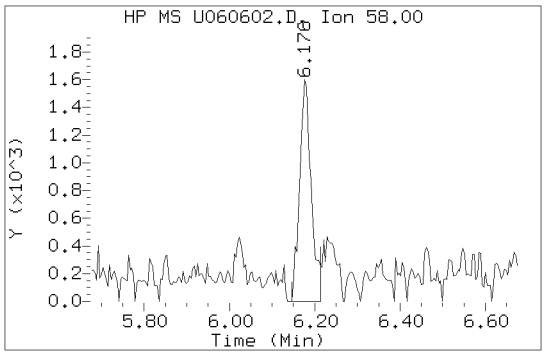
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08-Jun-2023
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AFTER

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HEIGHT
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13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D Page 1
Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 06-JUN-2023 11:37
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 11:37 Cal File: U060603.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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

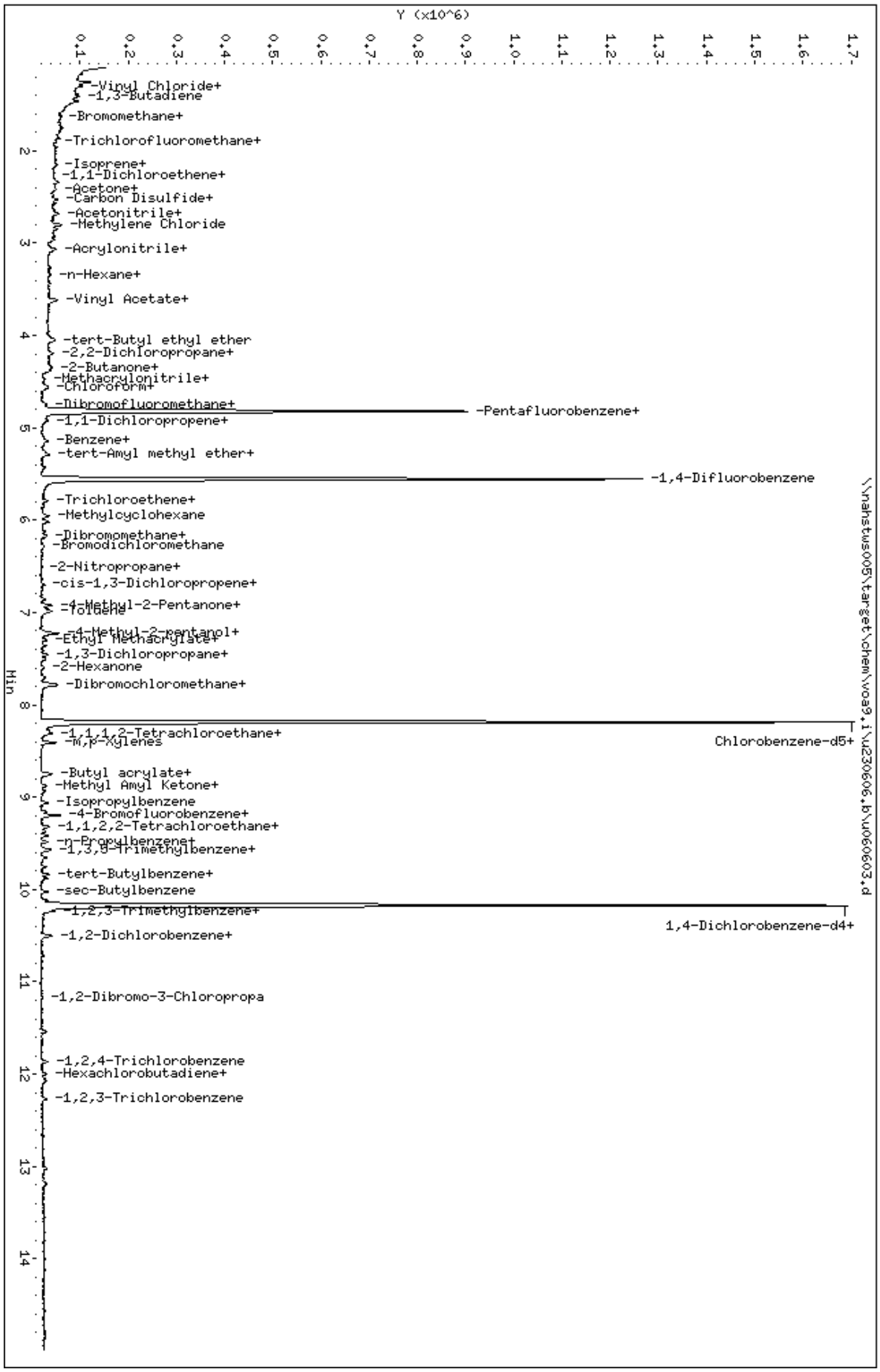
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.819	4.819	(1.000)	671879	50.0000	
	2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	3237	0.50000	0.60(a)
	5 Vinyl Chloride	62	1.381	1.381	(0.287)	3572	0.50000	0.50(a)
	7 Chloroethane	64	1.704	1.704	(0.354)	2580	0.50000	0.53(aM)
	15 Iodomethane	142	2.480	2.480	(0.515)	1872	1.00000	10.30(T)
	19 Carbon Disulfide	76	2.525	2.525	(0.524)	13120	1.00000	0.96(a)
	20 trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	2954	0.50000	0.53(a)
	22 1,1-Dichloroethane	63	3.518	3.518	(0.730)	6153	0.50000	0.58(a)
	24 2-Butanone	43	4.272	4.272	(0.886)	3610	1.00000	1.17(aM)
	26 2,2-Dichloropropane	77	4.193	4.193	(0.870)	3685	0.50000	0.92(a)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	2104	0.50000	0.56(a)
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	3644	0.50000	0.33(aM)
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	4434	0.50000	0.53(aM)
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	3795	0.50000	(aM)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	991670	50.0000	
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	4533	0.50000	2.34(aM)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	921846	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	14408	0.50000	0.69(aM)
	50 Toluene	91	6.986	6.986	(0.853)	13471	0.50000	0.53(aM)
	51 trans-1,3-Dichloropropene	75	7.203	7.203	(1.297)	4073	0.50000	2.48(aM)
	54 1,3-Dichloropropane	76	7.503	7.503	(0.917)	5569	0.50000	0.52(a)

57 1,2-Dibromoethane	107	7.792	7.792 (0.952)	3622	0.50000	0.56(aM)
58 1-Chlorohexane	55	8.200	8.200 (1.477)	2785	0.50000	0.54(aM)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	8858	0.50000	0.49(a)
	60	1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	3117	0.50000	0.50(a)
	62	m,p-Xylenes	106	8.410	8.410	(1.027)	9164	1.00000	0.93(aM)
	68	1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	4333	0.50000	0.50(aM)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	5007	0.50000	(aM)
*	70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	456421	50.0000	
	83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	6595	0.50000	0.50(a)
	93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	4090	0.50000	0.46(aM)
M	94	1,2-Dichloroethylene (total)	96				6594	1.00000	1.08(a)
	141	Cyclohexane	56	4.796	4.796	(0.995)	4345	0.50000	0.72(aM)
	138	Freon TF	101	2.341	2.341	(0.486)	2391	0.50000	0.52(aM)
	140	1,3-Butadiene	54	1.408	1.408	(0.292)	2958	0.50000	0.46(a)
	13	Acetonitrile	39	2.678	2.678	(0.556)	4044	5.00000	5.55(a)
	40	Methyl Methacrylate	41	6.165	6.165	(1.279)	3083	0.50000	0.53(aM)
	4	Propionitrile	54	4.347	4.347	(0.902)	5579	5.00000	5.74(aM)
	136	n-Hexane	57	3.353	3.353	(0.696)	2983	0.50000	0.65(a)
	200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	1341	0.50000	4.71(aM)
	166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	9904	0.50000	0.56(a)
	145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	3201	0.50000	3.88(a)
	156	Diisopropyl ether	45	3.627	3.627	(0.753)	10933	0.50000	0.58(a)
	151	4-Methyl-2-pentanol	45	7.226	7.226	(1.301)	20153	10.0000	13.66
	150	Allyl alcohol	57	3.353	3.353	(0.696)	2691	10.0000	12.72(M)
	86	Benzyl Chloride	91	10.315	10.315	(1.260)	1867	0.50000	3.78(aM)
	162	Butyl acrylate	55	8.740	8.740	(1.068)	6005	0.50000	0.55(a)
	139	Diethyl ether	59	2.150	2.150	(0.446)	2812	0.50000	0.61(aM)
	203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	2309	0.50000	2.27(a)
	130	Ethyl Acetate	43	4.272	4.272	(0.886)	3781	0.50000	0.62(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\u230606,b\u060603,d
Date : 06-JUN-2023 11:37
Client ID: VSTD000.5
Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
Column phase: DB624

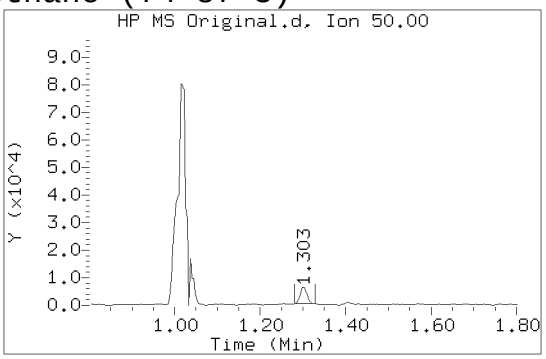
Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Chloromethane (74-87-3)

BEFORE

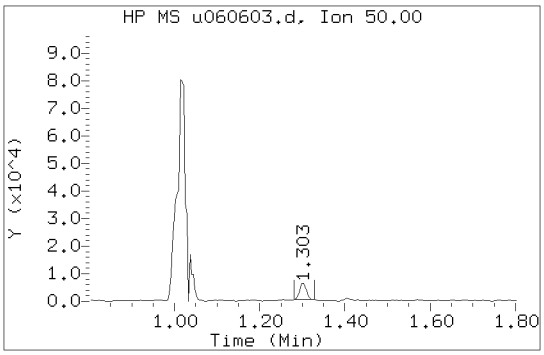
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HEIGHT
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08-Jun-2023
14:56
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pham



AFTER

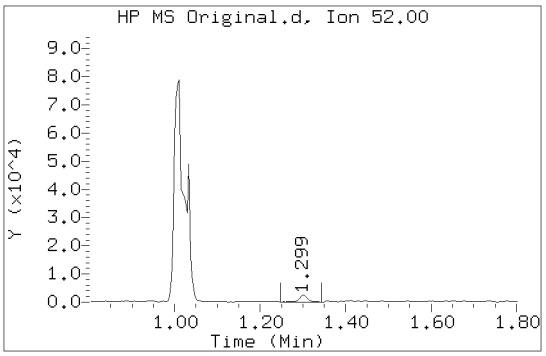
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pha

Reason Code:



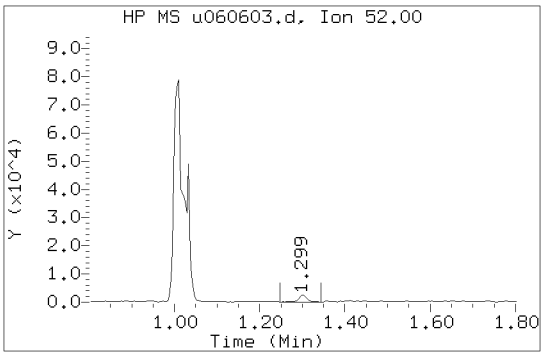
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AFTER

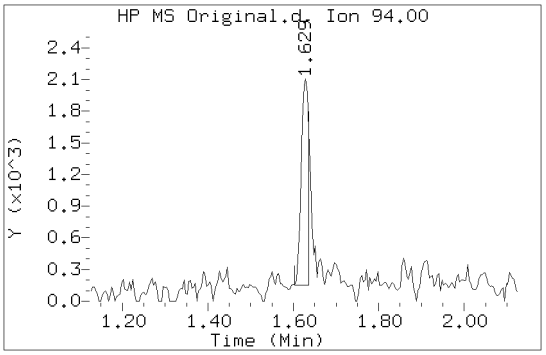
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HEIGHT
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21-Jun-2023
13:47
linh
pha



Bromomethane (74-83-9)

BEFORE

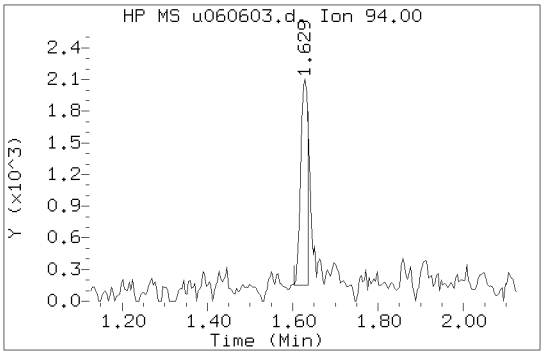
MASS
94
AREA
2378
HEIGHT
1953
08-Jun-2023
14:56
linh
pham



AFTER

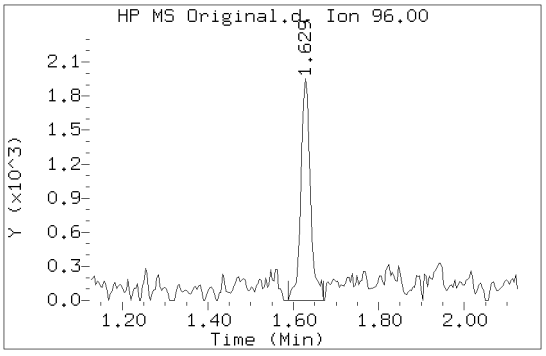
MASS
94
AREA
2378
HEIGHT
1953
21-Jun-2023
13:47
linh
pha

Reason Code:



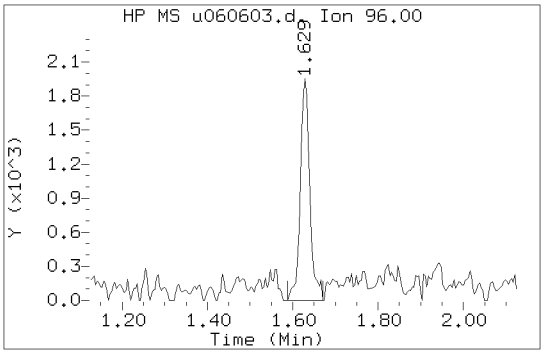
BEFORE

MASS
96
AREA
3081
HEIGHT
1953
08-Jun-2023
14:56
linh
pham



AFTER

MASS
96
AREA
3081
HEIGHT
1953
21-Jun-2023
13:47
linh
pha

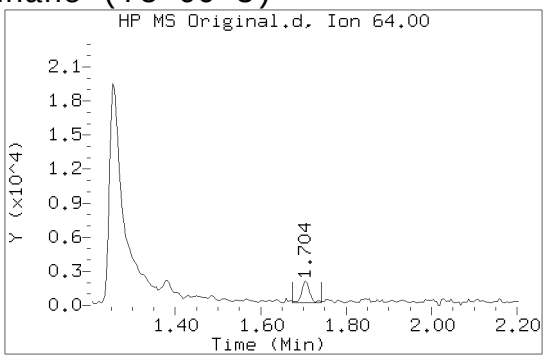


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InstruID : VOA9.i
LabSampID : VSTD000.5

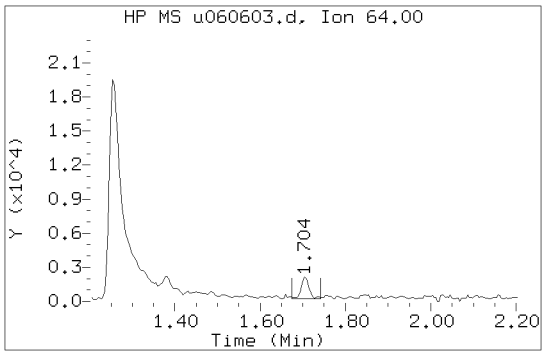
Chloroethane (75-00-3)

Reason Code:

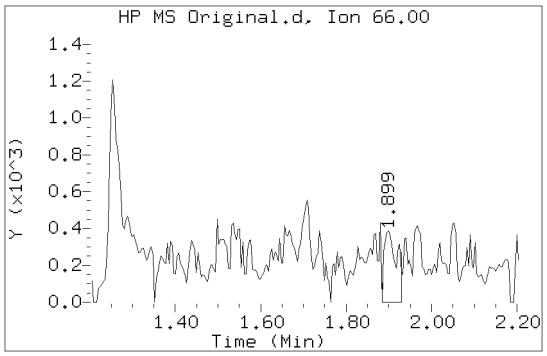
BEFORE
MASS
64
AREA
2580
HEIGHT
1940
08-Jun-2023
14:56
linh
pham



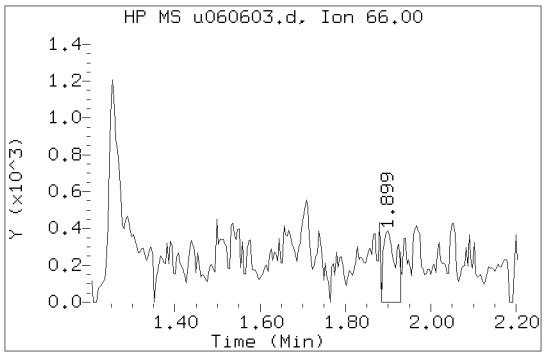
AFTER
MASS
64
AREA
2580
HEIGHT
1940
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
66
AREA
783
HEIGHT
389
08-Jun-2023
14:56
linh
pham



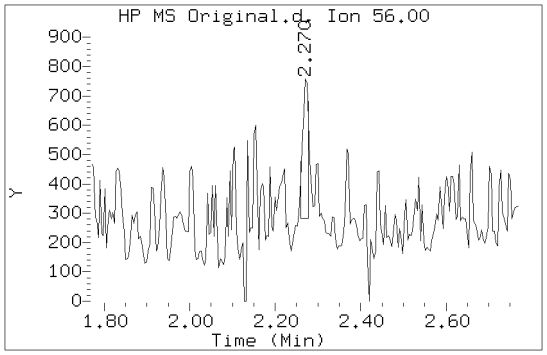
AFTER
MASS
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AREA
783
HEIGHT
389
21-Jun-2023
13:47
linh
pha



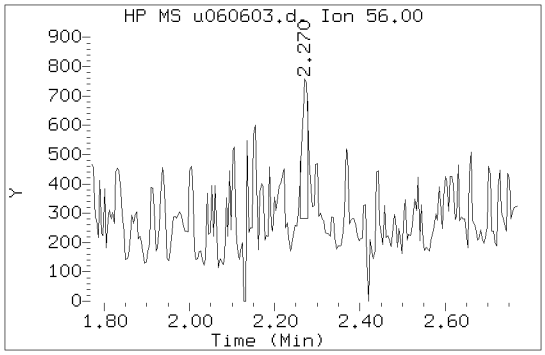
Acrolein (107-02-8)

Reason Code:

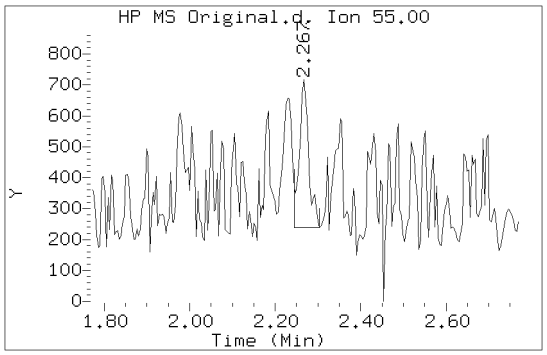
BEFORE
MASS
56
AREA
451
HEIGHT
476
08-Jun-2023
14:56
linh
pham



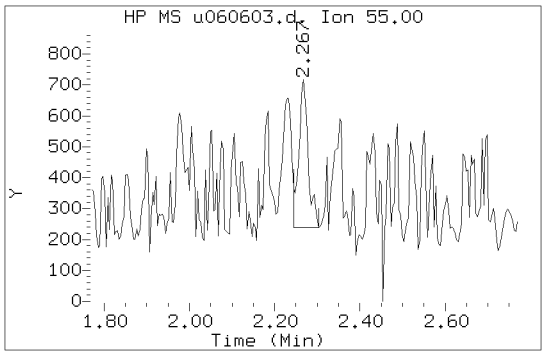
AFTER
MASS
56
AREA
451
HEIGHT
476
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
55
AREA
750
HEIGHT
478
08-Jun-2023
14:56
linh
pham



AFTER
MASS
55
AREA
750
HEIGHT
478
21-Jun-2023
13:47
linh
pha

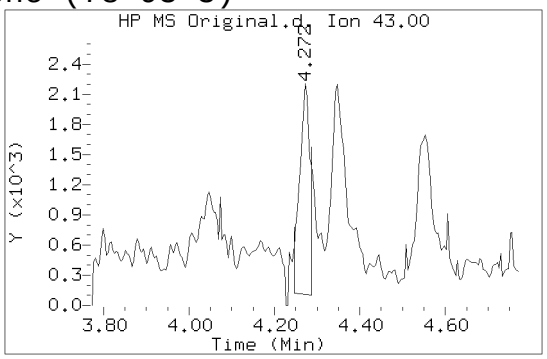


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

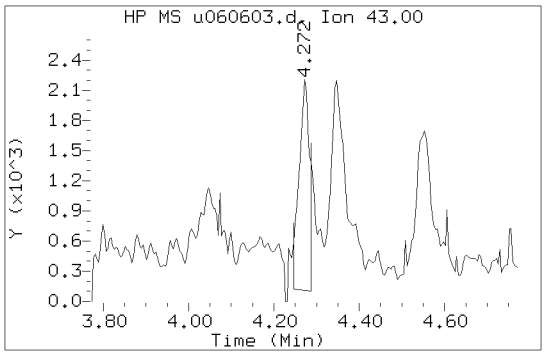
2-Butanone (78-93-3)

Reason Code:

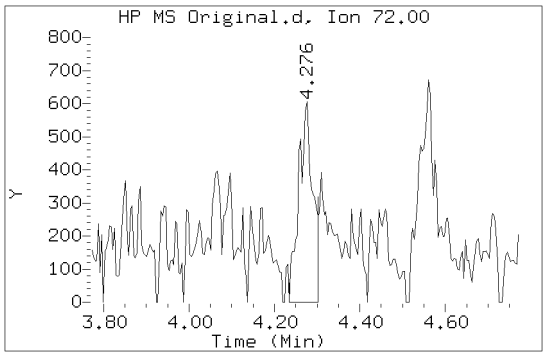
BEFORE
MASS
43
AREA
3610
HEIGHT
2093
08-Jun-2023
14:56
linh
pham



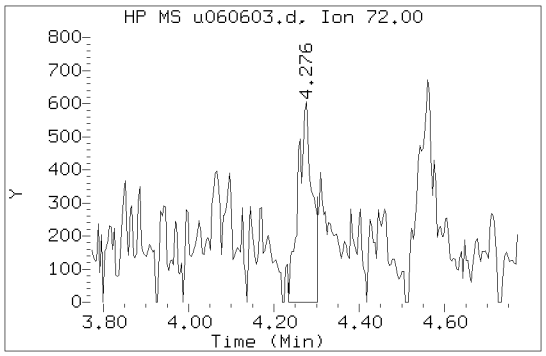
AFTER
MASS
43
AREA
3610
HEIGHT
2093
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
72
AREA
1400
HEIGHT
606
08-Jun-2023
14:56
linh
pham



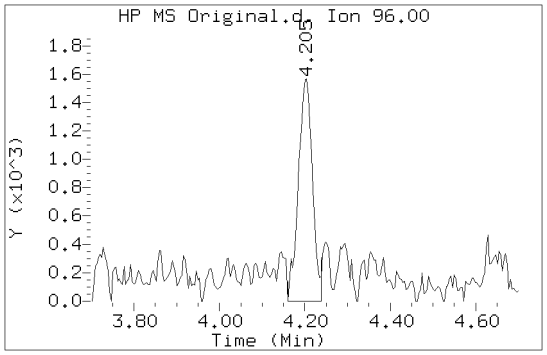
AFTER
MASS
72
AREA
1400
HEIGHT
606
21-Jun-2023
13:47
linh
pha



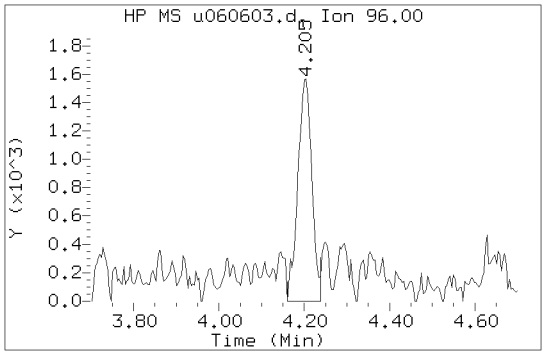
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

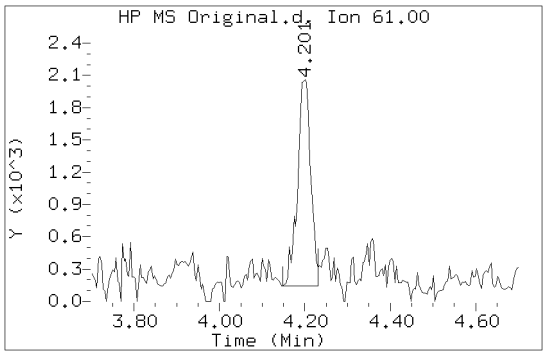
BEFORE
MASS
96
AREA
3640
HEIGHT
1571
08-Jun-2023
14:56
linh
pham



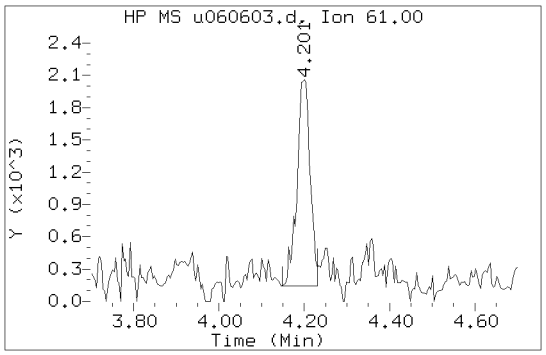
AFTER
MASS
96
AREA
3640
HEIGHT
1571
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
61
AREA
4196
HEIGHT
1915
08-Jun-2023
14:56
linh
pham



AFTER
MASS
61
AREA
4196
HEIGHT
1915
21-Jun-2023
13:47
linh
pha



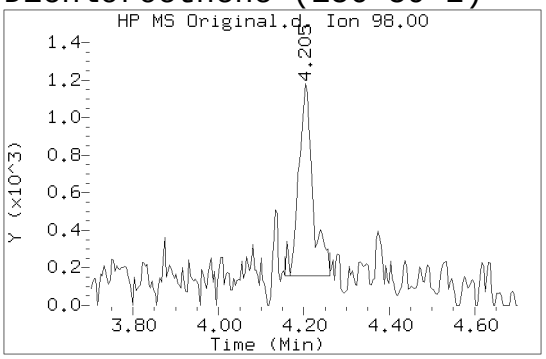
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

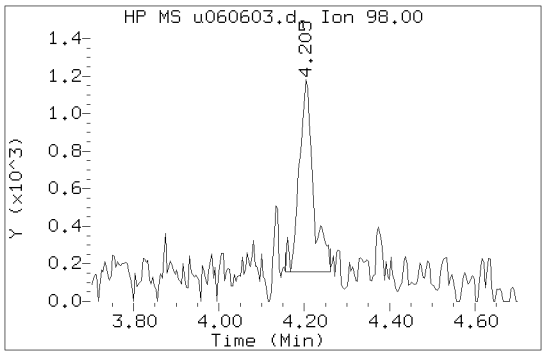
BEFORE

MASS
98
AREA
2375
HEIGHT
1023
08-Jun-2023
14:56
linh
pham



AFTER

MASS
98
AREA
2375
HEIGHT
1023
21-Jun-2023
13:47
linh
pha

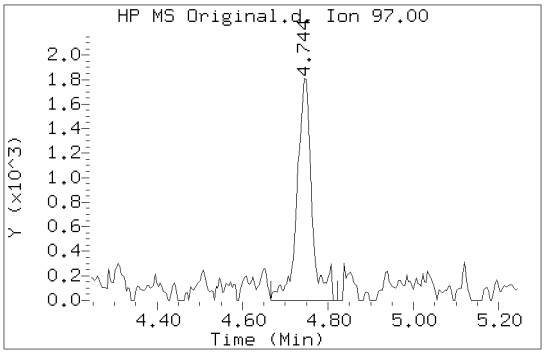


1,1,1-Trichloroethane (71-55-6)

Reason Code:

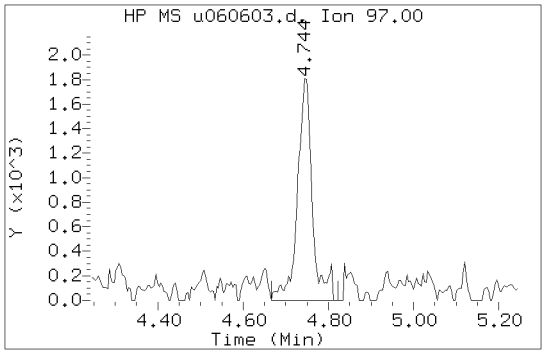
BEFORE

MASS
97
AREA
4434
HEIGHT
1807
08-Jun-2023
14:56
linh
pham



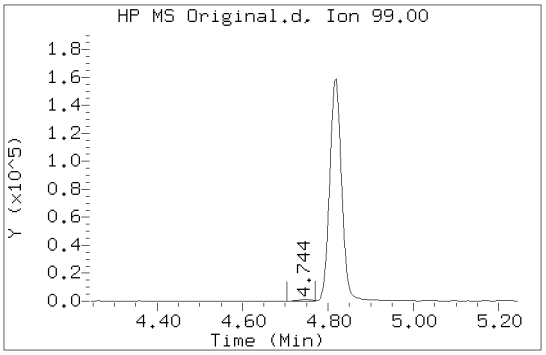
AFTER

MASS
97
AREA
4434
HEIGHT
1807
21-Jun-2023
13:47
linh
pha



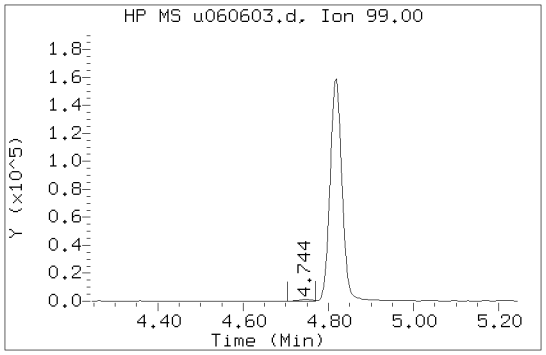
BEFORE

MASS
99
AREA
2413
HEIGHT
1165
08-Jun-2023
14:56
linh
pham



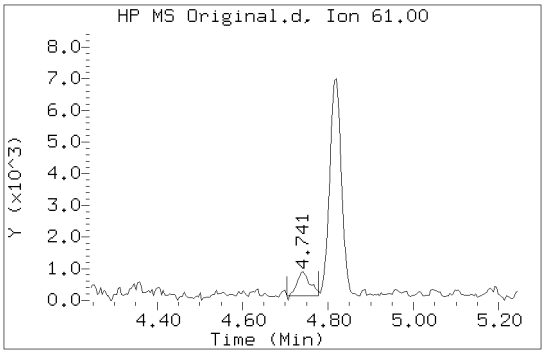
AFTER

MASS
99
AREA
2413
HEIGHT
1165
21-Jun-2023
13:47
linh
pha



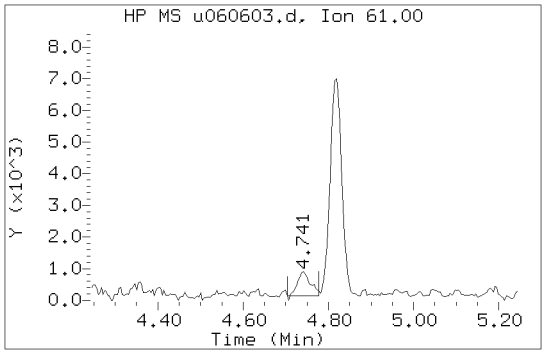
BEFORE

MASS
61
AREA
1649
HEIGHT
774
08-Jun-2023
14:56
linh
pham



AFTER

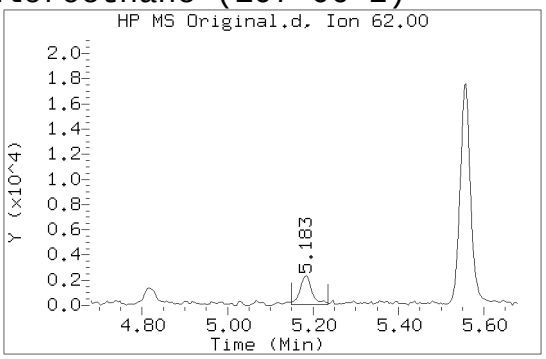
MASS
61
AREA
1649
HEIGHT
774
21-Jun-2023
13:47
linh
pha



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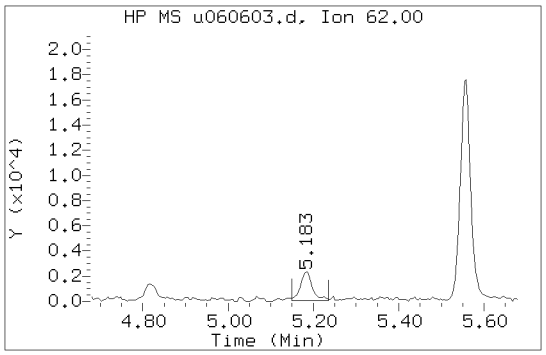
1,2-Dichloroethane (107-06-2)

BEFORE
MASS
62
AREA
4646
HEIGHT
2294
08-Jun-2023
14:56
linh
pham

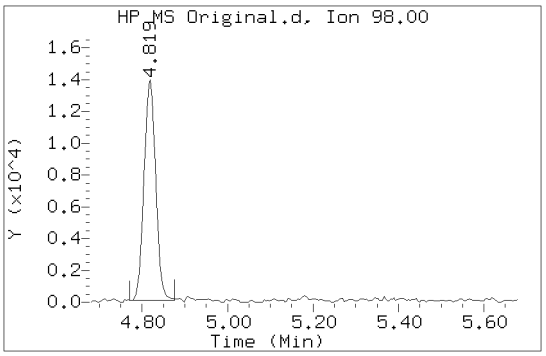


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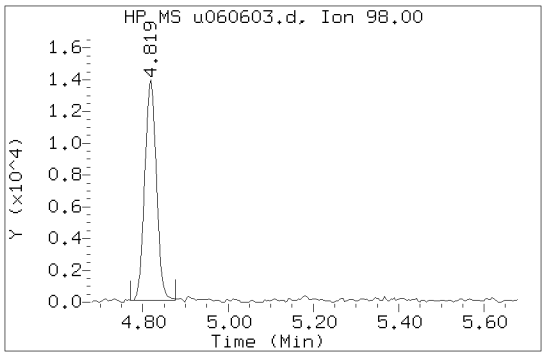
AFTER
MASS
62
AREA
4646
HEIGHT
2294
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
98
AREA
26343
HEIGHT
13869
08-Jun-2023
14:56
linh
pham

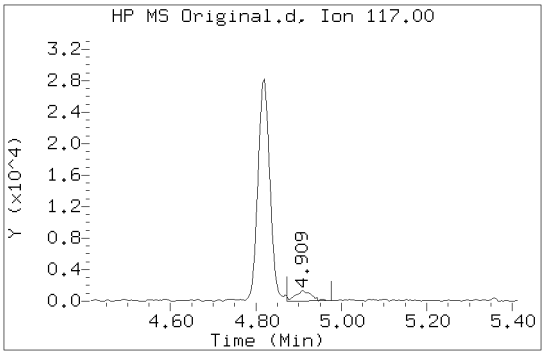


AFTER
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98
AREA
26343
HEIGHT
13869
21-Jun-2023
13:47
linh
pha



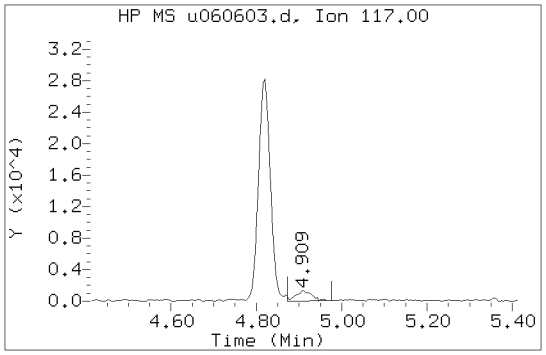
Carbon Tetrachloride (56-23-5)

BEFORE
MASS
117
AREA
3518
HEIGHT
1311
08-Jun-2023
14:56
linh
pham

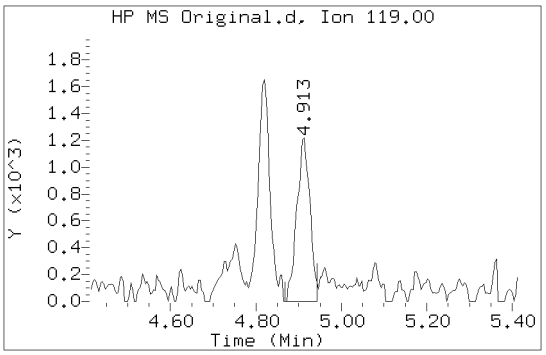


Reason Code:

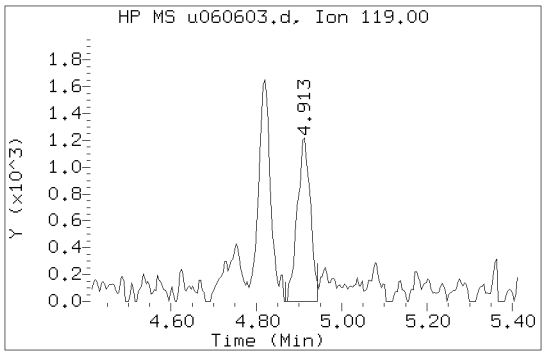
AFTER
MASS
117
AREA
3518
HEIGHT
1311
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
119
AREA
2642
HEIGHT
1217
08-Jun-2023
14:56
linh
pham



AFTER
MASS
119
AREA
2642
HEIGHT
1217
21-Jun-2023
13:47
linh
pha

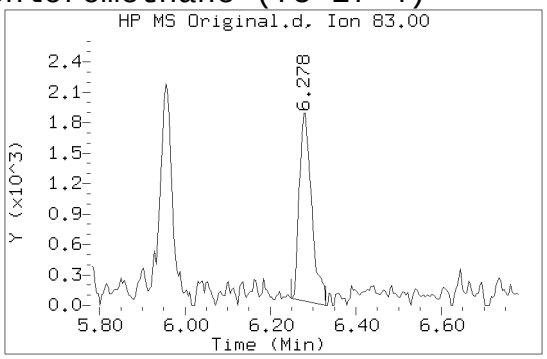


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LabSampID : VSTD000.5

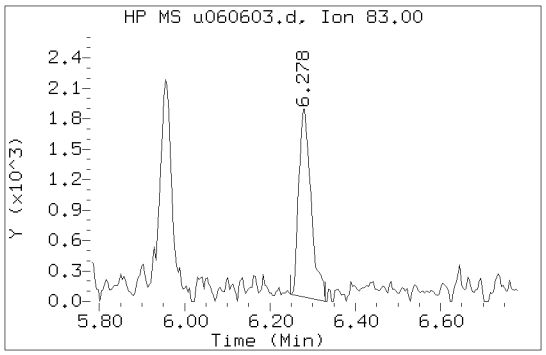
Bromodichloromethane (75-27-4)

Reason Code:

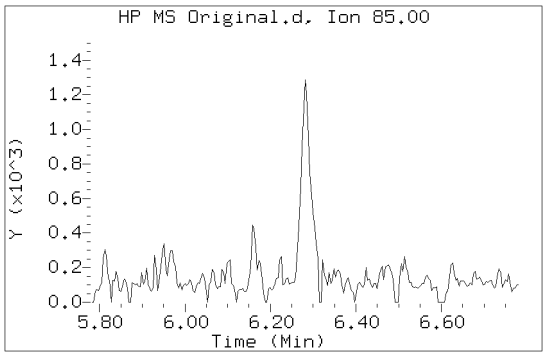
BEFORE
MASS
83
AREA
3797
HEIGHT
1853
08-Jun-2023
14:56
linh
pham



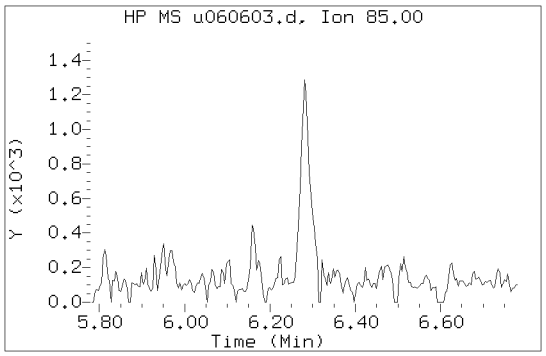
AFTER
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83
AREA
3797
HEIGHT
1853
21-Jun-2023
13:47
linh
pha



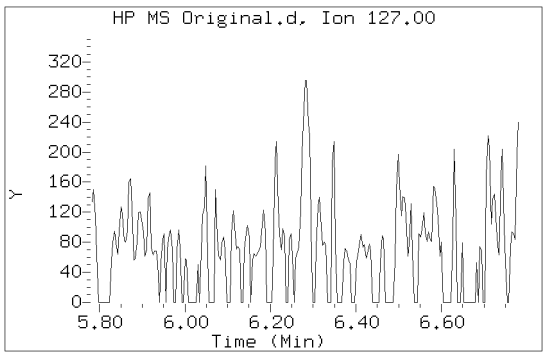
BEFORE
MASS
85
AREA
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HEIGHT
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08-Jun-2023
14:56
linh
pham



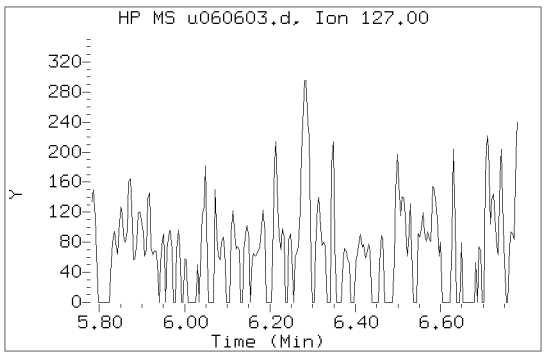
AFTER
MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
127
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



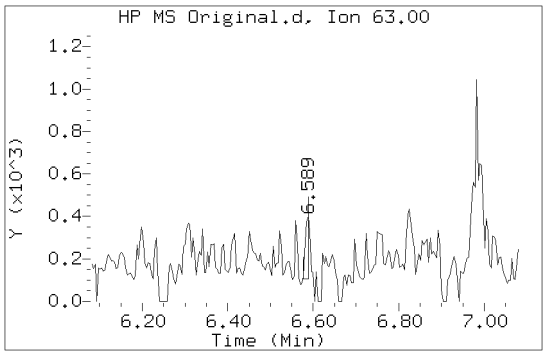
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127
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21-Jun-2023
13:47
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pha



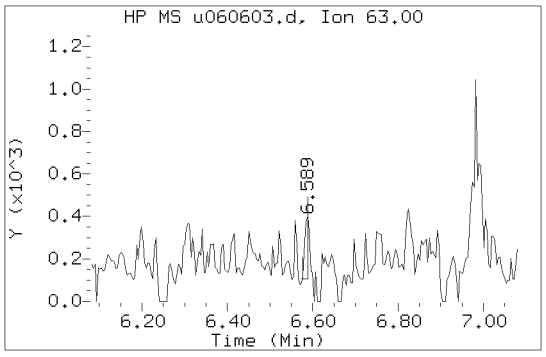
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
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63
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169
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296
08-Jun-2023
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pham



AFTER
MASS
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AREA
169
HEIGHT
296
21-Jun-2023
13:47
linh
pha

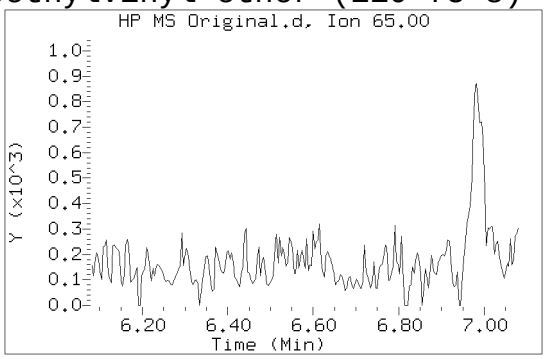


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

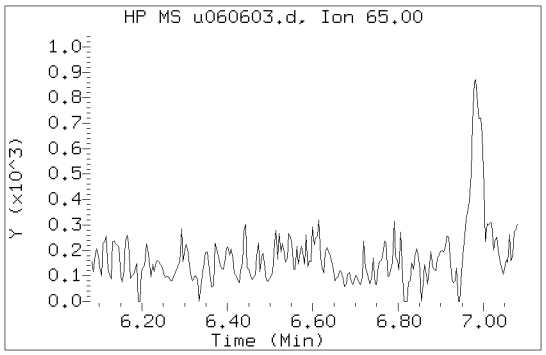
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

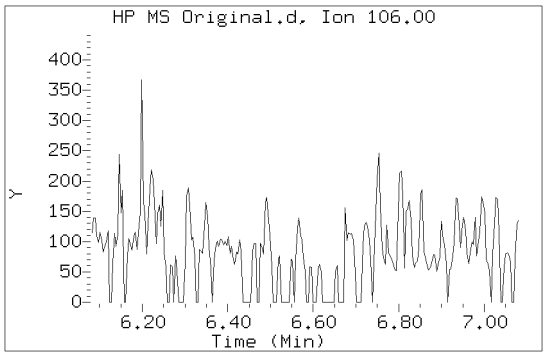
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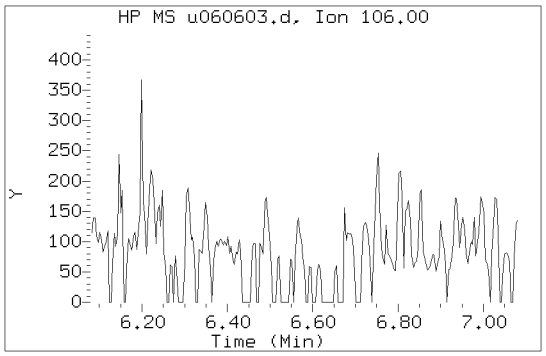
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HEIGHT
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21-Jun-2023
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pha



BEFORE
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HEIGHT
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08-Jun-2023
14:56
linh
pham



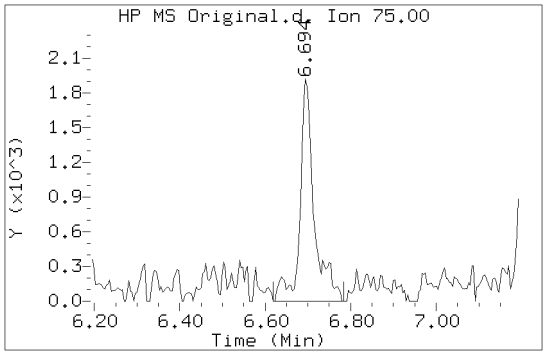
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21-Jun-2023
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pha



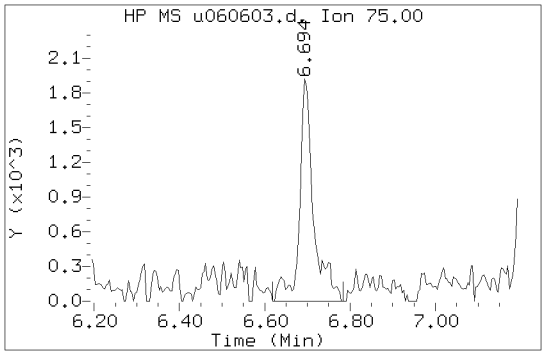
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

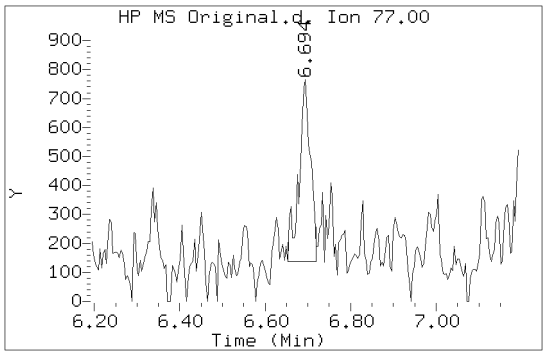
BEFORE
MASS
75
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4533
HEIGHT
1923
08-Jun-2023
14:56
linh
pham



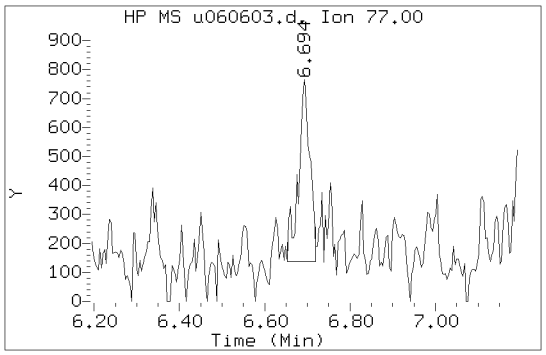
AFTER
MASS
75
AREA
4533
HEIGHT
1923
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
77
AREA
1180
HEIGHT
628
08-Jun-2023
14:56
linh
pham



AFTER
MASS
77
AREA
1180
HEIGHT
628
21-Jun-2023
13:47
linh
pha



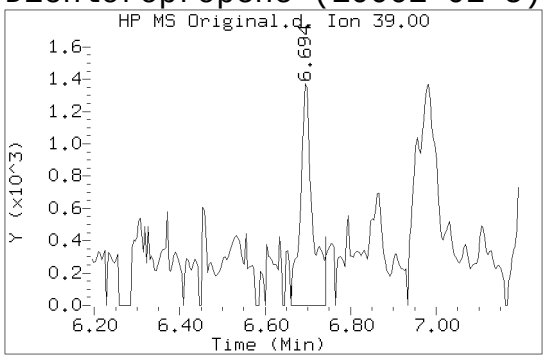
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

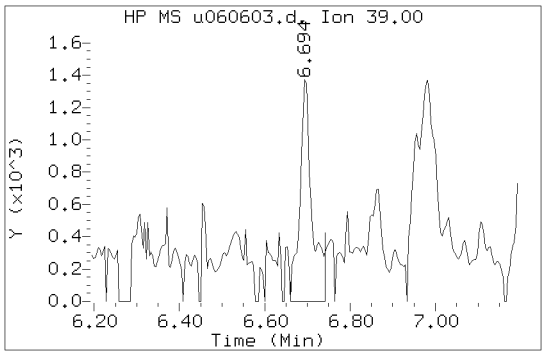
BEFORE

MASS
39
AREA
2809
HEIGHT
1372
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
2809
HEIGHT
1372
21-Jun-2023
13:47
linh
pha

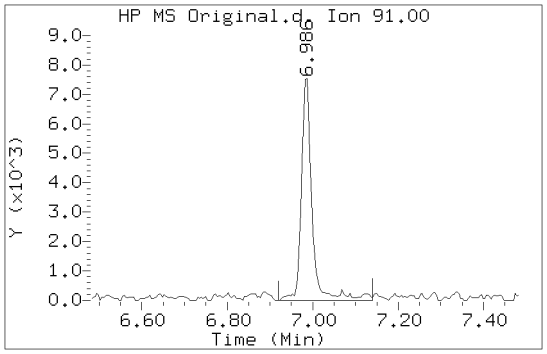


Toluene (108-88-3)

Reason Code:

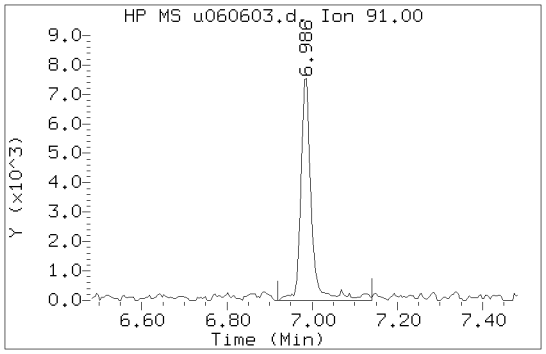
BEFORE

MASS
91
AREA
13471
HEIGHT
7534
08-Jun-2023
14:56
linh
pham



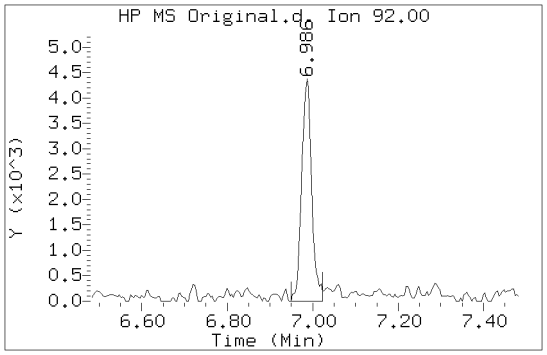
AFTER

MASS
91
AREA
13471
HEIGHT
7534
21-Jun-2023
13:47
linh
pha



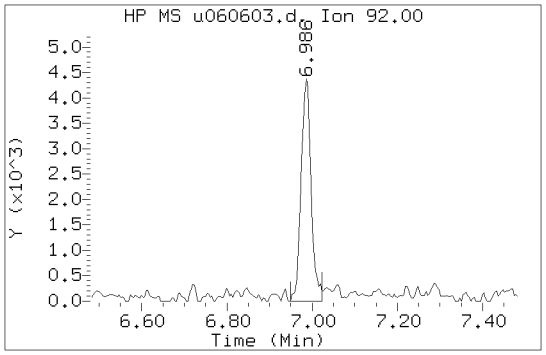
BEFORE

MASS
92
AREA
7328
HEIGHT
4373
08-Jun-2023
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AFTER

MASS
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7328
HEIGHT
4373
21-Jun-2023
13:47
linh
pha

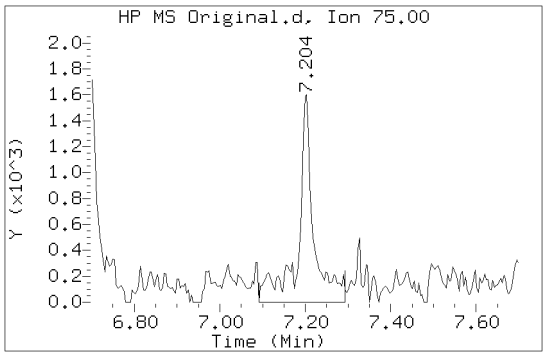


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

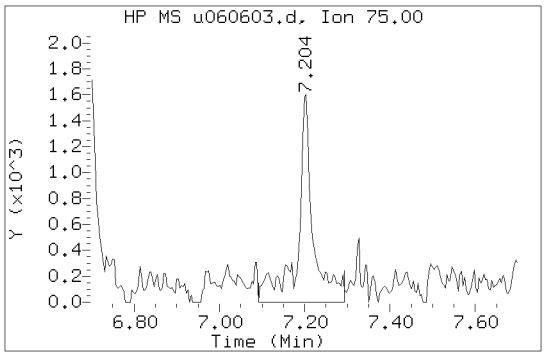
BEFORE

MASS
75
AREA
4073
HEIGHT
1603
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
4073
HEIGHT
1603
21-Jun-2023
13:47
linh
pha

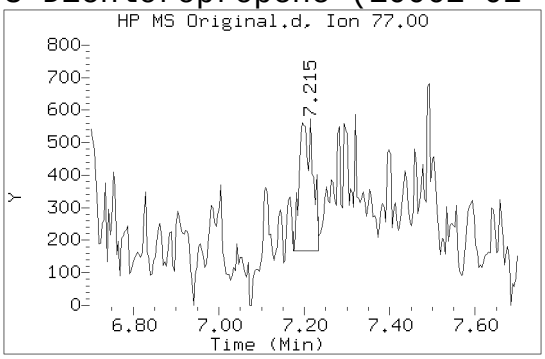


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

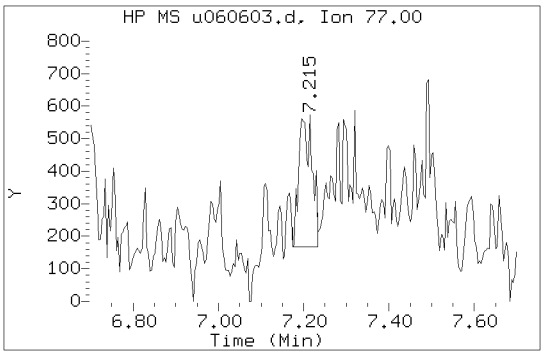
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

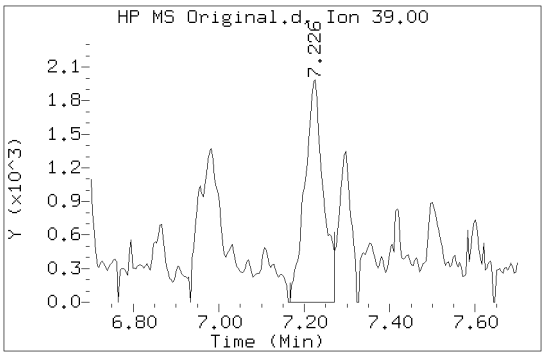
BEFORE
MASS
77
AREA
877
HEIGHT
407
08-Jun-2023
14:56
linh
pham



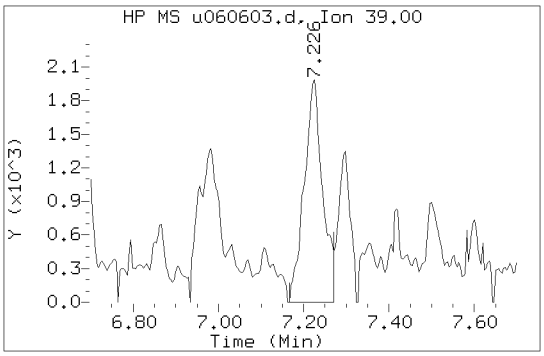
AFTER
MASS
77
AREA
877
HEIGHT
407
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
39
AREA
6017
HEIGHT
1985
08-Jun-2023
14:56
linh
pham



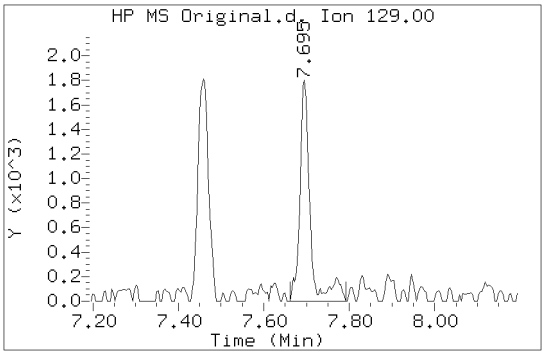
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linh
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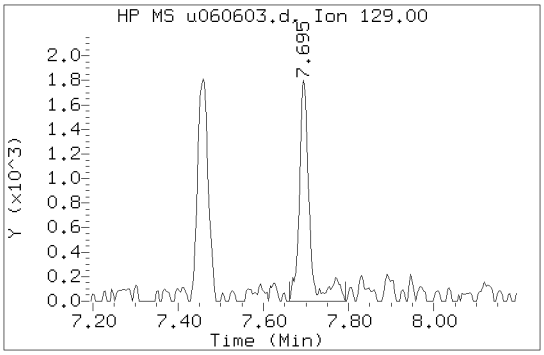
Dibromochloromethane (124-48-1)

Reason Code:

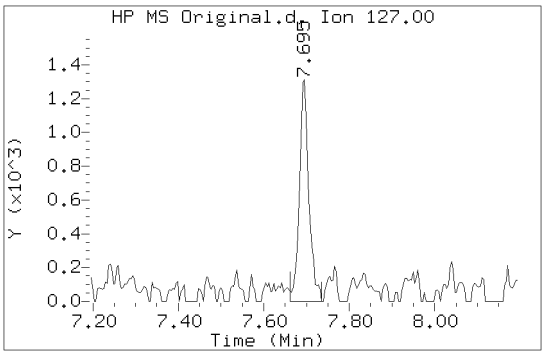
BEFORE
MASS
129
AREA
3068
HEIGHT
1800
08-Jun-2023
14:56
linh
pham



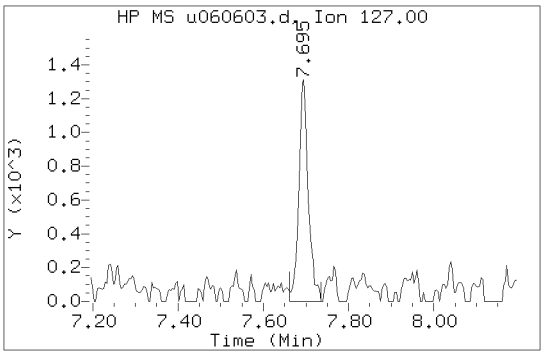
AFTER
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21-Jun-2023
13:47
linh
pha



BEFORE
MASS
127
AREA
2055
HEIGHT
1312
08-Jun-2023
14:56
linh
pham



AFTER
MASS
127
AREA
2055
HEIGHT
1312
21-Jun-2023
13:47
linh
pha

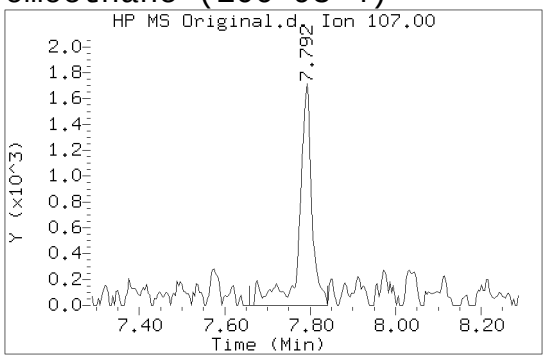


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InstruID : VOA9.i
LabSampID : VSTD000.5

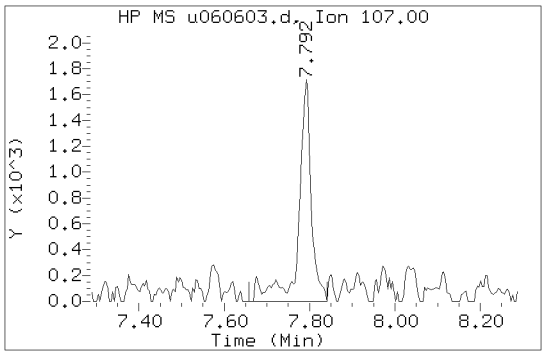
1,2-Dibromoethane (106-93-4)

Reason Code:

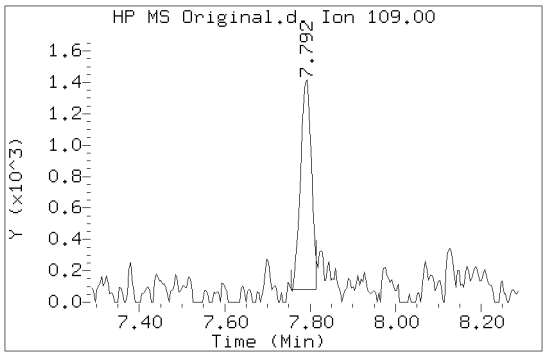
BEFORE
MASS
107
AREA
3622
HEIGHT
1715
08-Jun-2023
14:56
linh
pham



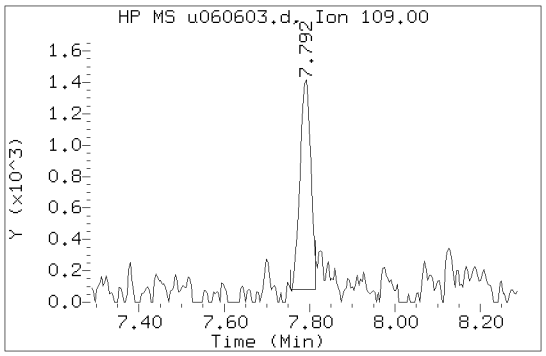
AFTER
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107
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3622
HEIGHT
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21-Jun-2023
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BEFORE
MASS
109
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1334
08-Jun-2023
14:56
linh
pham



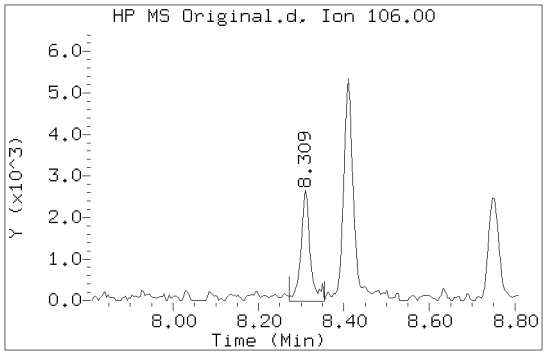
AFTER
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2422
HEIGHT
1334
21-Jun-2023
13:47
linh
pha



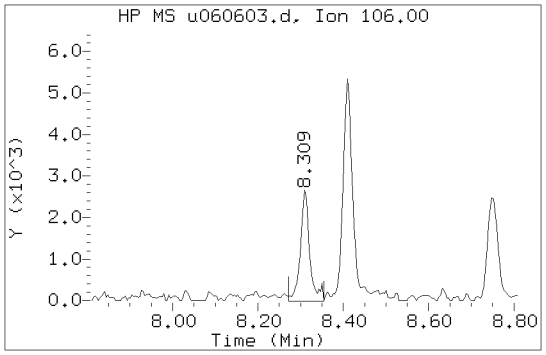
Ethylbenzene (100-41-4)

Reason Code:

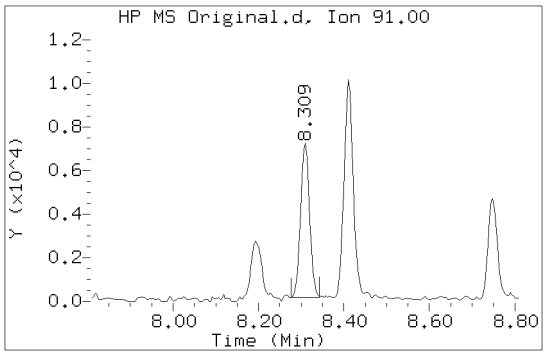
BEFORE
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4142
HEIGHT
2674
08-Jun-2023
14:56
linh
pham



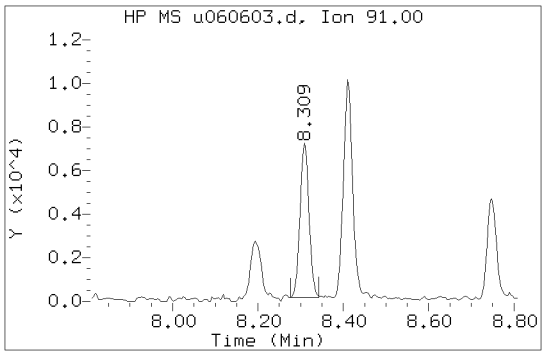
AFTER
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linh
pha



BEFORE
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91
AREA
10611
HEIGHT
7101
08-Jun-2023
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AFTER
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10611
HEIGHT
7101
21-Jun-2023
13:47
linh
pha



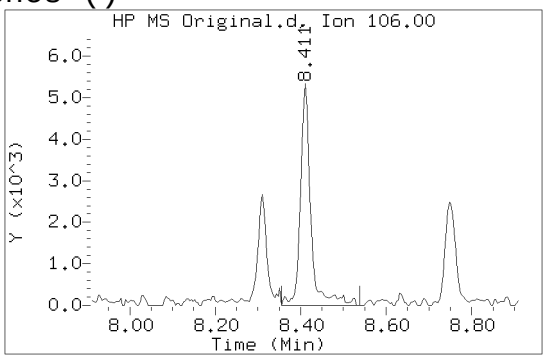
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InstruID : VOA9.i
LabSampID : VSTD000.5

m,p-Xylenes ()

Reason Code:

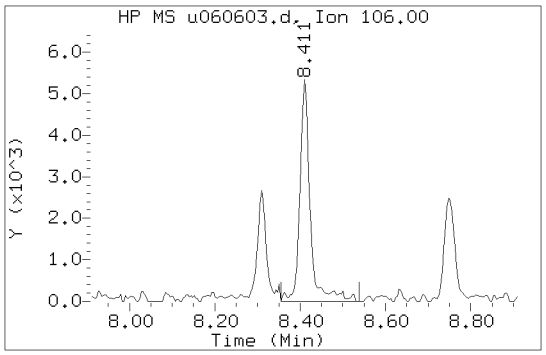
BEFORE

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AREA
9164
HEIGHT
5338
08-Jun-2023
14:56
linh
pham



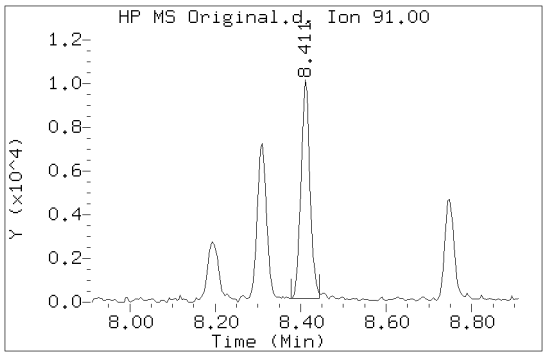
AFTER

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9164
HEIGHT
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21-Jun-2023
13:47
linh
pha



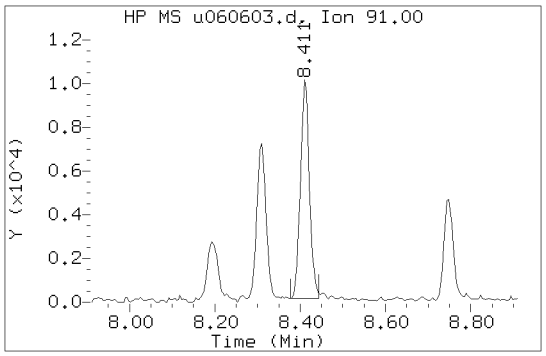
BEFORE

MASS
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AREA
14815
HEIGHT
9979
08-Jun-2023
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linh
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AFTER

MASS
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14815
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9979
21-Jun-2023
13:47
linh
pha

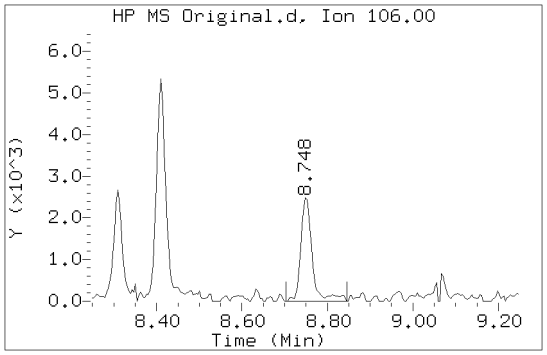


o-Xylene (95-47-6)

Reason Code:

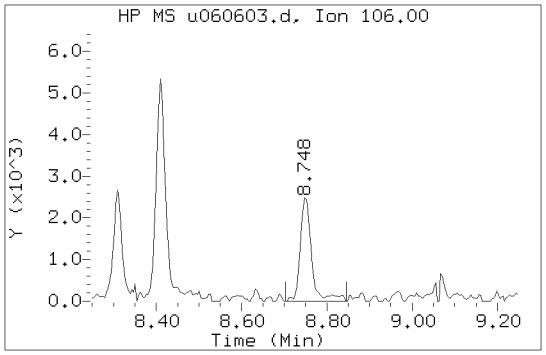
BEFORE

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AREA
4736
HEIGHT
2481
08-Jun-2023
14:56
linh
pham



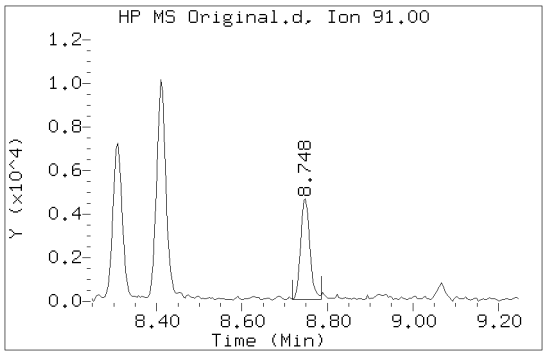
AFTER

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4736
HEIGHT
2481
21-Jun-2023
13:47
linh
pha



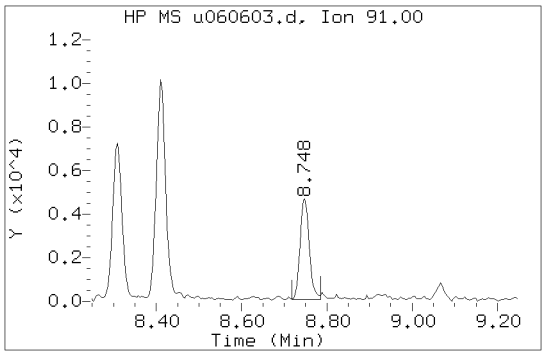
BEFORE

MASS
91
AREA
7145
HEIGHT
4614
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
7145
HEIGHT
4614
21-Jun-2023
13:47
linh
pha

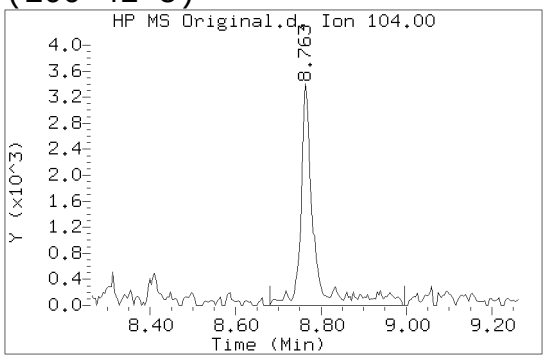


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

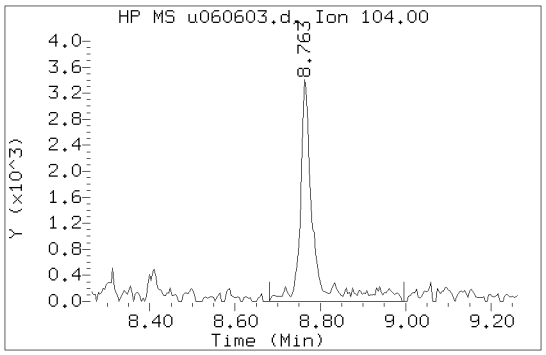
Styrene (100-42-5)

Reason Code:

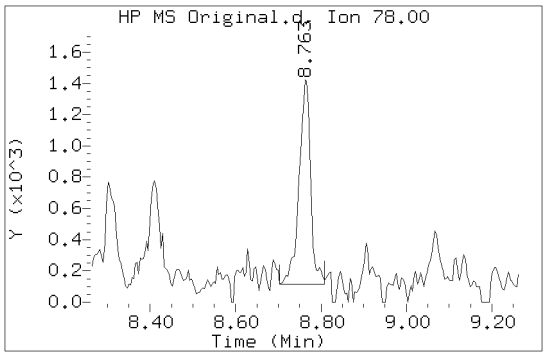
BEFORE
MASS
104
AREA
7547
HEIGHT
3407
08-Jun-2023
14:56
linh
pham



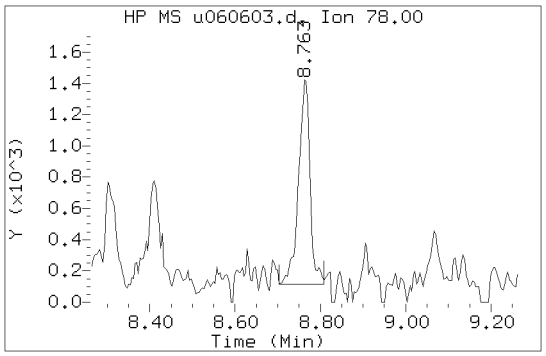
AFTER
MASS
104
AREA
7547
HEIGHT
3407
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
78
AREA
2506
HEIGHT
1307
08-Jun-2023
14:56
linh
pham



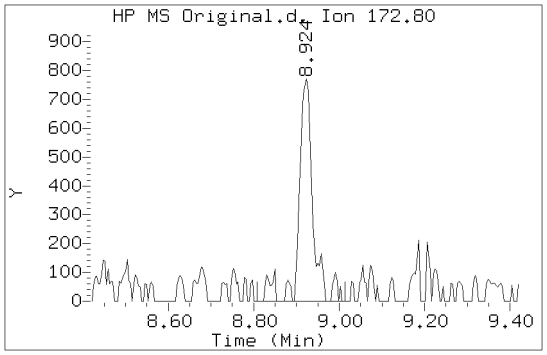
AFTER
MASS
78
AREA
2506
HEIGHT
1307
21-Jun-2023
13:47
linh
pha



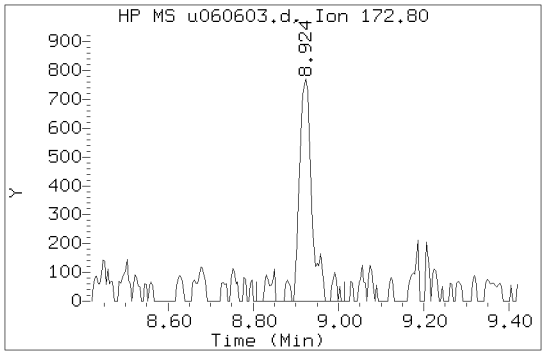
Bromoform (75-25-2)

Reason Code:

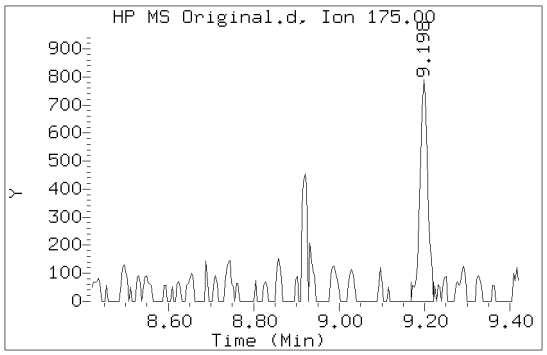
BEFORE
MASS
172.8
AREA
1797
HEIGHT
771
08-Jun-2023
14:56
linh
pham



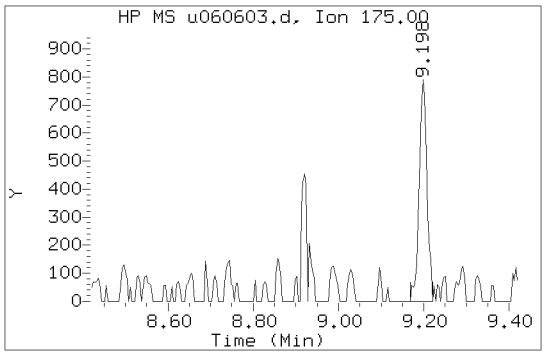
AFTER
MASS
172.8
AREA
1797
HEIGHT
771
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
175
AREA
1005
HEIGHT
790
08-Jun-2023
14:56
linh
pham



AFTER
MASS
175
AREA
1005
HEIGHT
790
21-Jun-2023
13:47
linh
pha



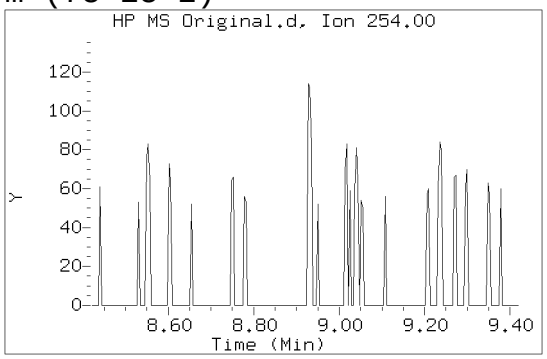
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Bromoform (75-25-2)

Reason Code:

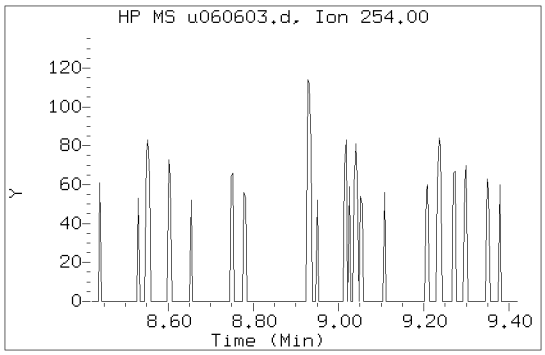
BEFORE

MASS
254
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

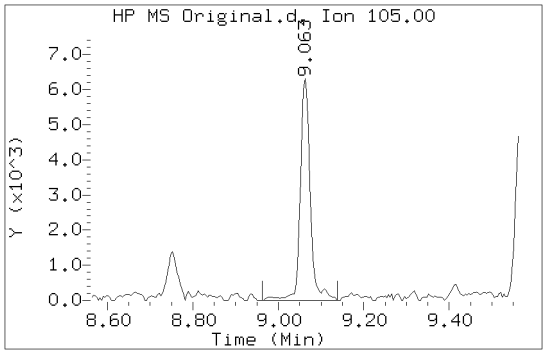


Isopropylbenzene (98-82-8)

Reason Code:

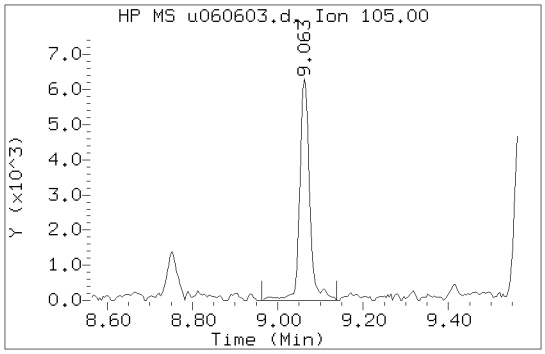
BEFORE

MASS
105
AREA
10525
HEIGHT
6310
08-Jun-2023
14:56
linh
pham



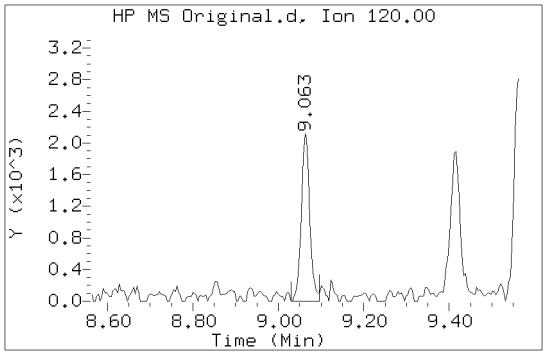
AFTER

MASS
105
AREA
10525
HEIGHT
6310
21-Jun-2023
13:47
linh
pha



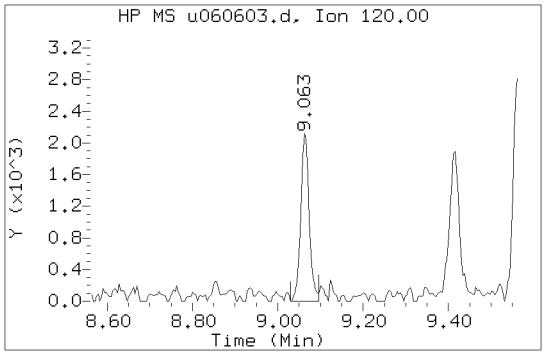
BEFORE

MASS
120
AREA
2979
HEIGHT
2122
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
2979
HEIGHT
2122
21-Jun-2023
13:47
linh
pha

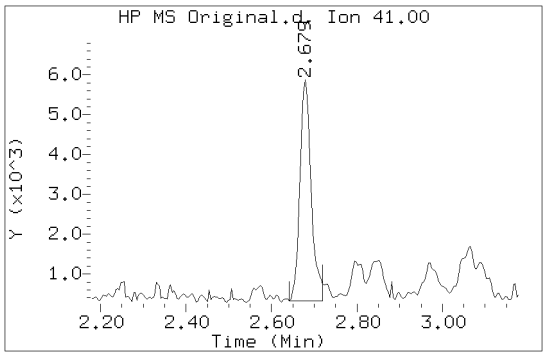


Allyl Chloride (107-05-1)

Reason Code:

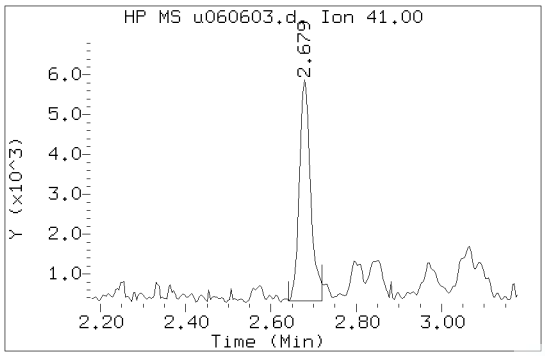
BEFORE

MASS
41
AREA
10377
HEIGHT
5545
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
10377
HEIGHT
5545
21-Jun-2023
13:47
linh
pha



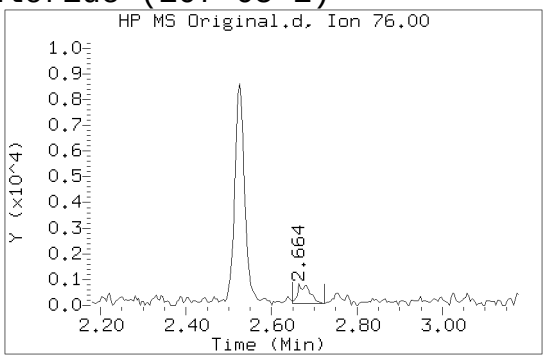
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Allyl Chloride (107-05-1)

Reason Code:

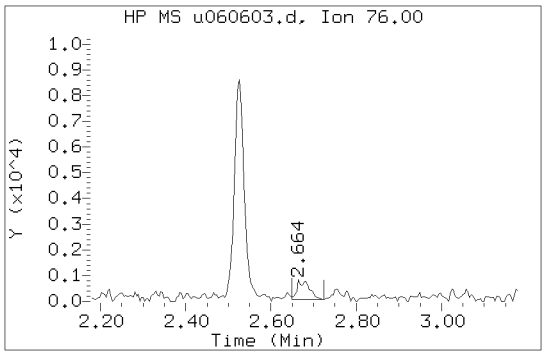
BEFORE

MASS
76
AREA
1452
HEIGHT
753
08-Jun-2023
14:56
linh
pham



AFTER

MASS
76
AREA
1452
HEIGHT
753
21-Jun-2023
13:47
linh
pha

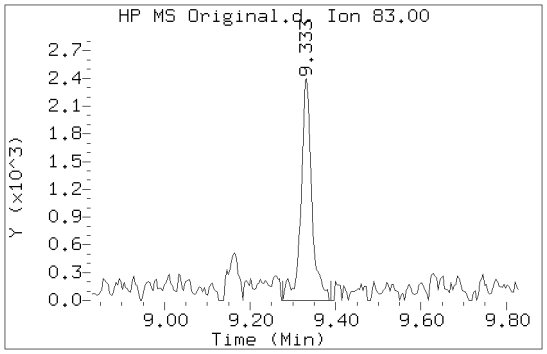


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

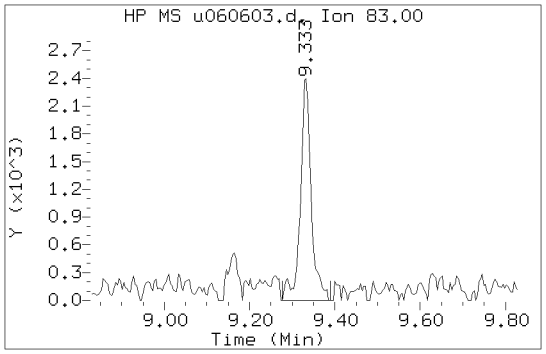
BEFORE

MASS
83
AREA
4333
HEIGHT
2397
08-Jun-2023
14:56
linh
pham



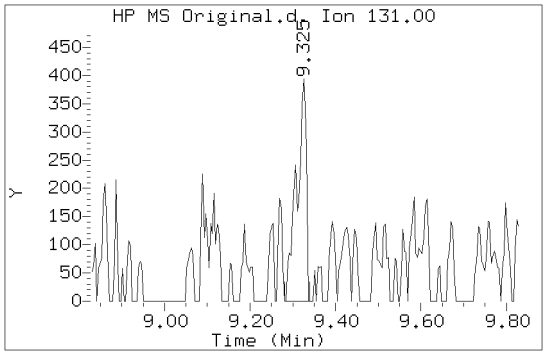
AFTER

MASS
83
AREA
4333
HEIGHT
2397
21-Jun-2023
13:47
linh
pha



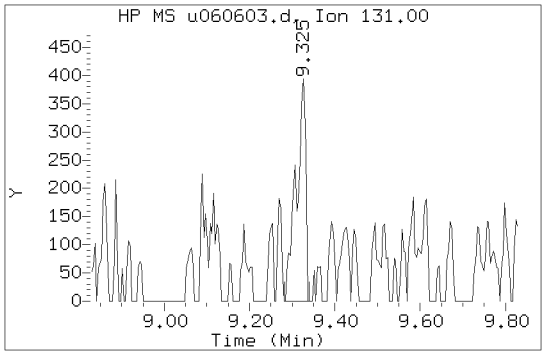
BEFORE

MASS
131
AREA
624
HEIGHT
394
08-Jun-2023
14:56
linh
pham



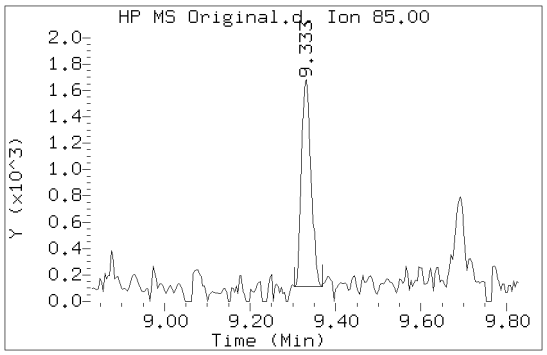
AFTER

MASS
131
AREA
624
HEIGHT
394
21-Jun-2023
13:47
linh
pha



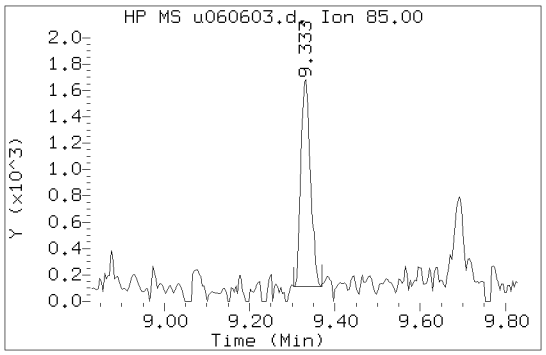
BEFORE

MASS
85
AREA
2508
HEIGHT
1568
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
2508
HEIGHT
1568
21-Jun-2023
13:47
linh
pha



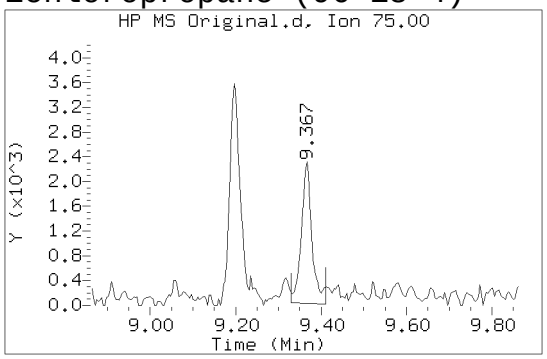
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,3-Trichloropropane (96-18-4)

Reason Code:

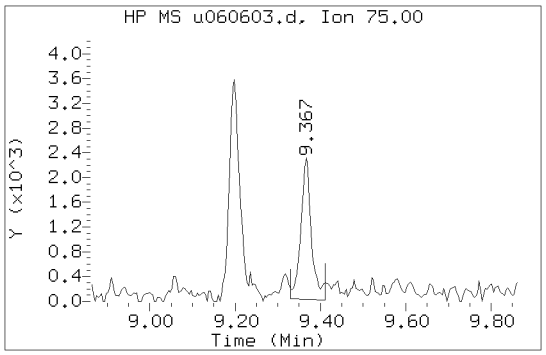
BEFORE

MASS
75
AREA
4089
HEIGHT
2289
08-Jun-2023
14:56
linh
pham



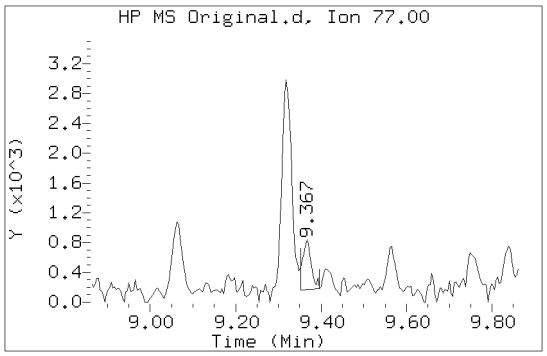
AFTER

MASS
75
AREA
4089
HEIGHT
2289
21-Jun-2023
13:47
linh
pha



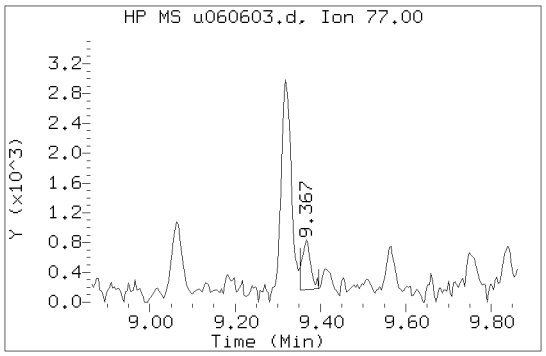
BEFORE

MASS
77
AREA
963
HEIGHT
669
08-Jun-2023
14:56
linh
pham



AFTER

MASS
77
AREA
963
HEIGHT
669
21-Jun-2023
13:47
linh
pha

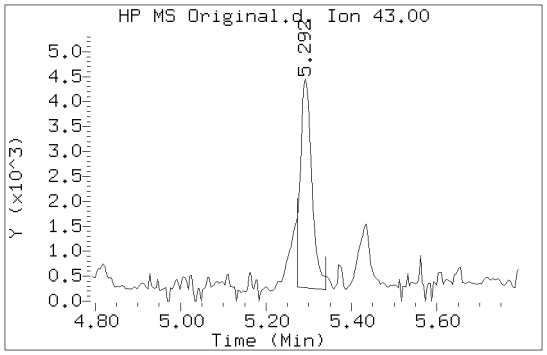


Isobutyl Alcohol (78-83-1)

Reason Code:

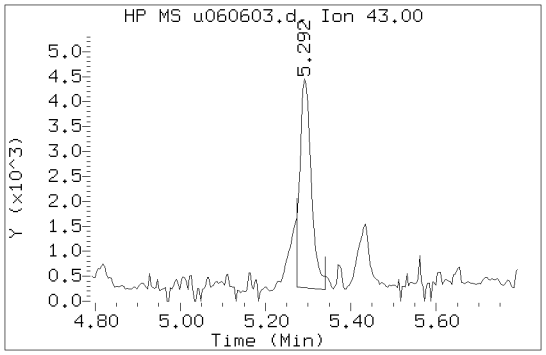
BEFORE

MASS
43
AREA
8062
HEIGHT
4185
08-Jun-2023
14:56
linh
pham



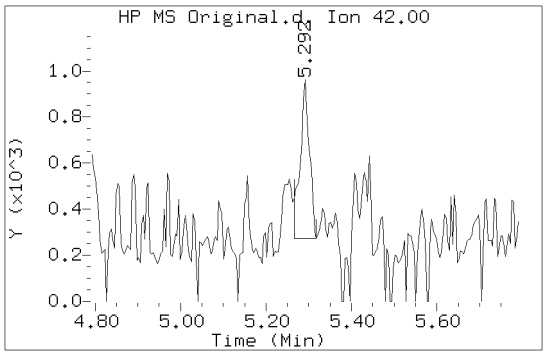
AFTER

MASS
43
AREA
8062
HEIGHT
4185
21-Jun-2023
13:47
linh
pha



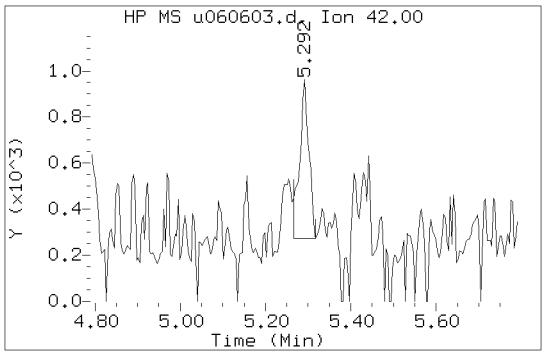
BEFORE

MASS
42
AREA
1073
HEIGHT
689
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
1073
HEIGHT
689
21-Jun-2023
13:47
linh
pha



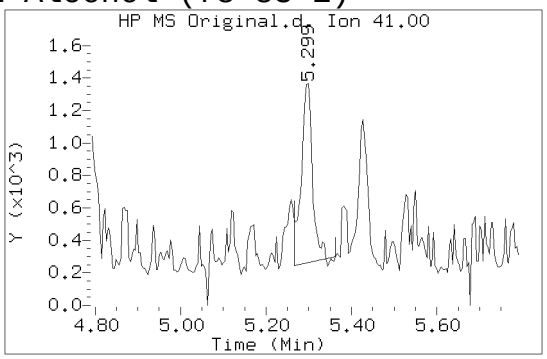
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Isobutyl Alcohol (78-83-1)

Reason Code:

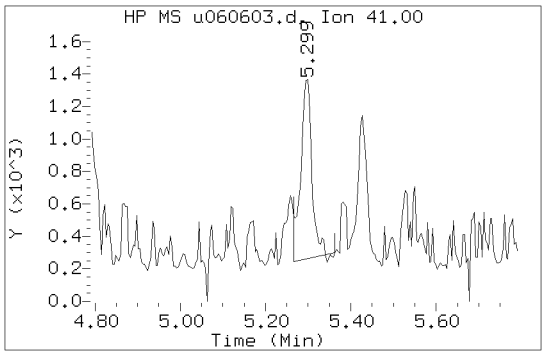
BEFORE

MASS
41
AREA
2043
HEIGHT
1100
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
2043
HEIGHT
1100
21-Jun-2023
13:47
linh
pha

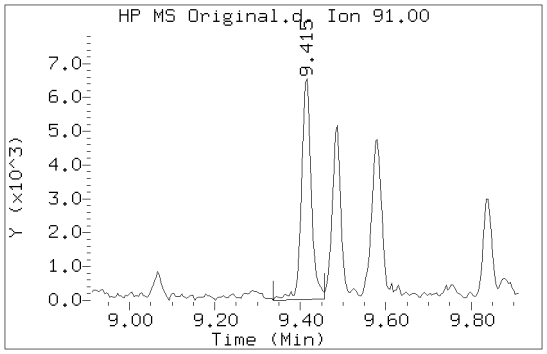


n-Propylbenzene (106-65-1)

Reason Code:

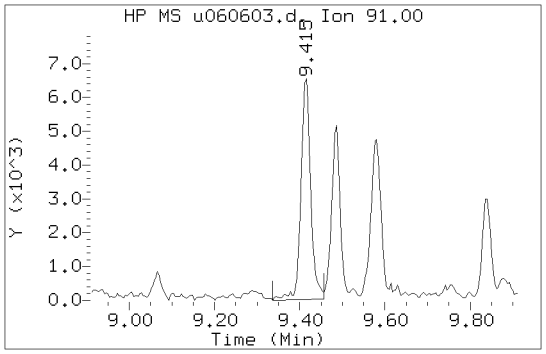
BEFORE

MASS
91
AREA
10721
HEIGHT
6532
08-Jun-2023
14:56
linh
pham



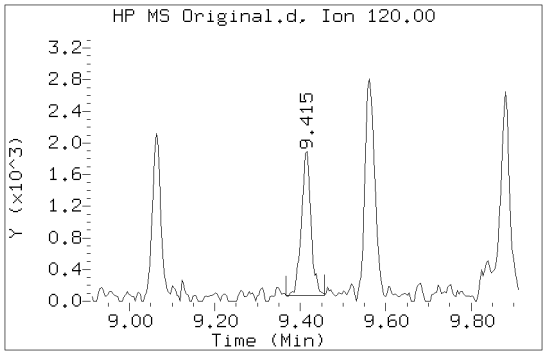
AFTER

MASS
91
AREA
10721
HEIGHT
6532
21-Jun-2023
13:47
linh
pha



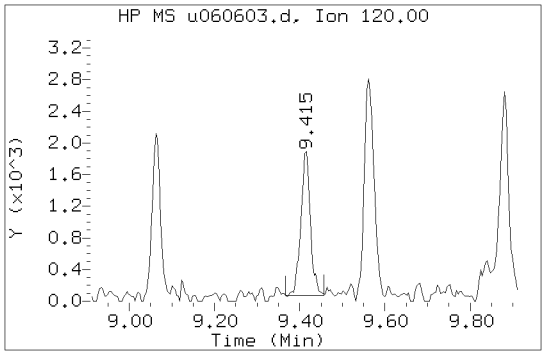
BEFORE

MASS
120
AREA
2911
HEIGHT
1823
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
2911
HEIGHT
1823
21-Jun-2023
13:47
linh
pha

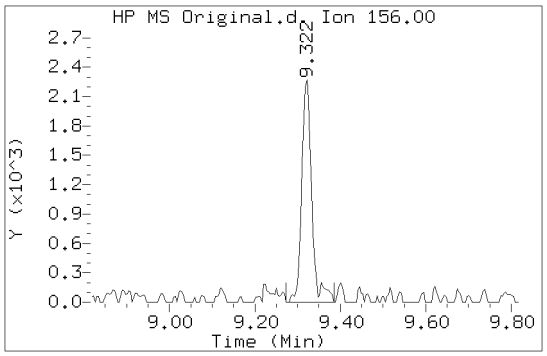


Bromobenzene (108-86-1)

Reason Code:

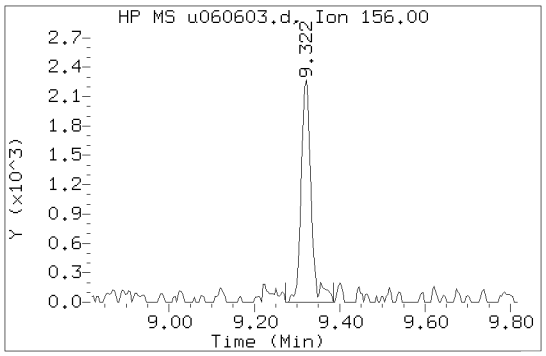
BEFORE

MASS
156
AREA
3800
HEIGHT
2270
08-Jun-2023
14:56
linh
pham



AFTER

MASS
156
AREA
3800
HEIGHT
2270
21-Jun-2023
13:47
linh
pha

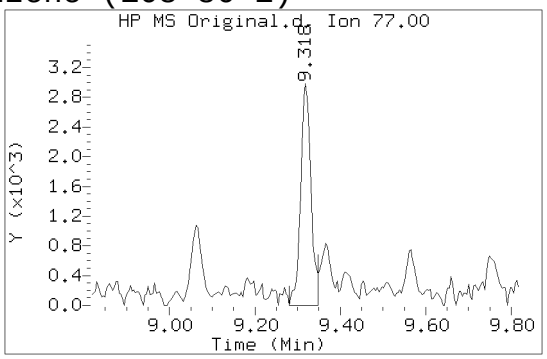


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InstruID : VOA9.i
LabSampID : VSTD000.5

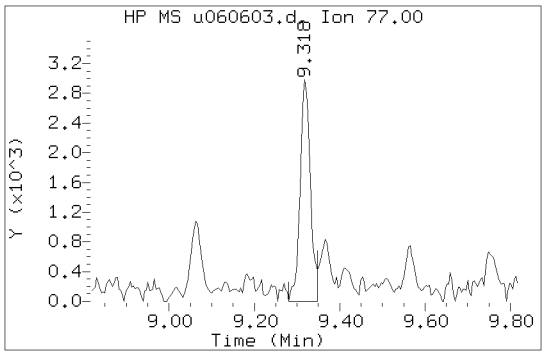
Bromobenzene (108-86-1)

Reason Code:

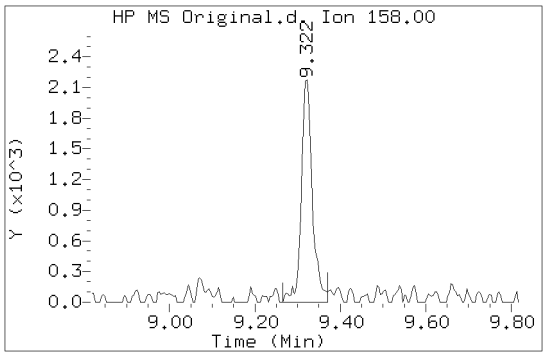
BEFORE
MASS
77
AREA
5137
HEIGHT
2983
08-Jun-2023
14:56
linh
pham



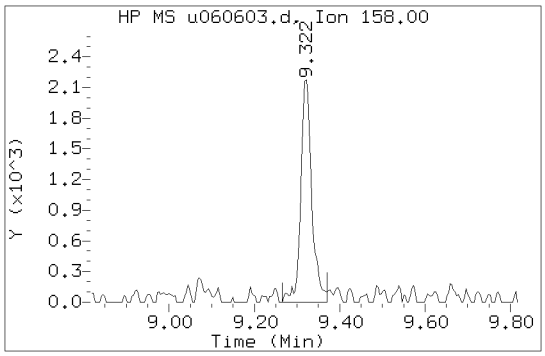
AFTER
MASS
77
AREA
5137
HEIGHT
2983
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
158
AREA
4021
HEIGHT
2175
08-Jun-2023
14:56
linh
pham



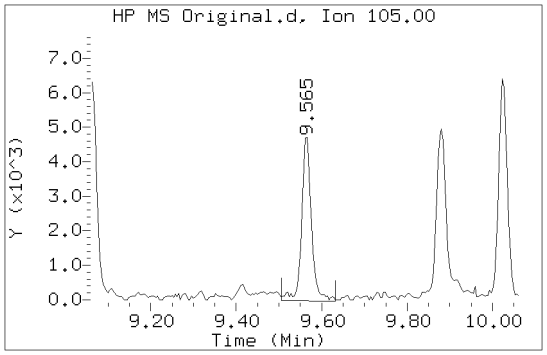
AFTER
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158
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4021
HEIGHT
2175
21-Jun-2023
13:47
linh
pha



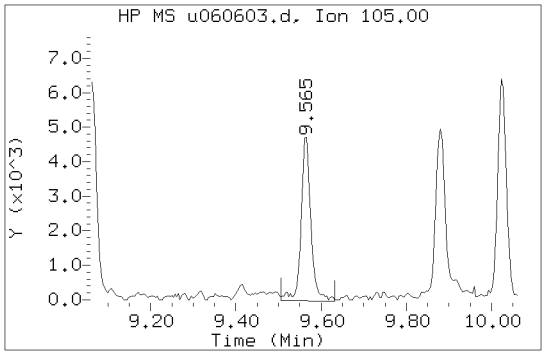
1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

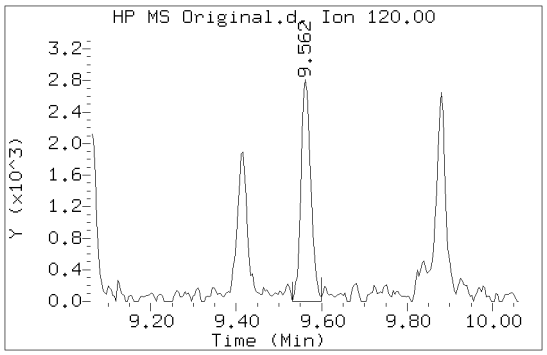
BEFORE
MASS
105
AREA
7820
HEIGHT
4732
08-Jun-2023
14:56
linh
pham



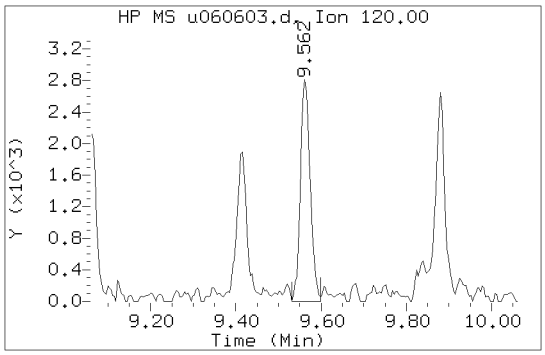
AFTER
MASS
105
AREA
7820
HEIGHT
4732
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
120
AREA
4592
HEIGHT
2810
08-Jun-2023
14:56
linh
pham



AFTER
MASS
120
AREA
4592
HEIGHT
2810
21-Jun-2023
13:47
linh
pha

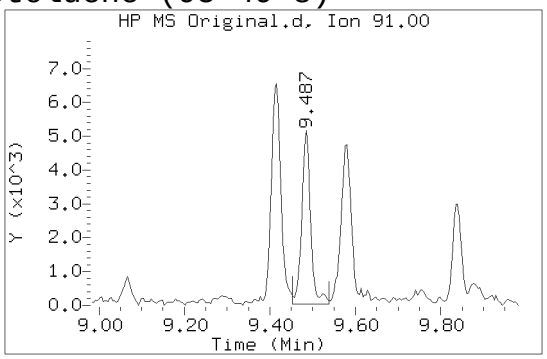


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

2-Chlorotoluene (95-49-8)

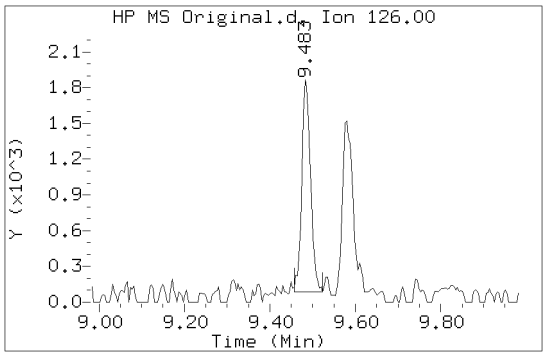
BEFORE

MASS
91
AREA
7551
HEIGHT
5138
08-Jun-2023
14:56
linh
pham



BEFORE

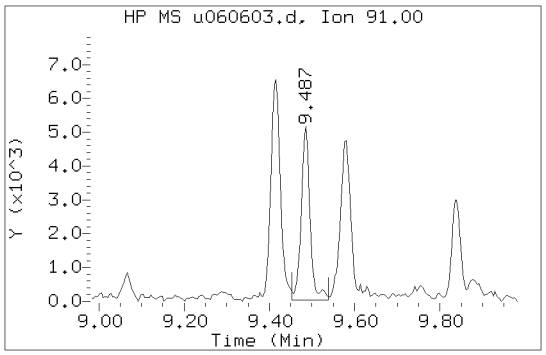
MASS
126
AREA
2589
HEIGHT
1779
08-Jun-2023
14:56
linh
pham



Reason Code:

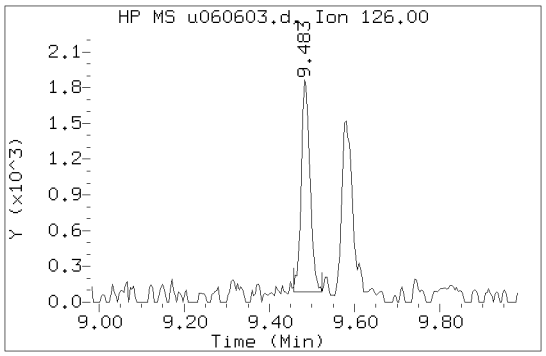
AFTER

MASS
91
AREA
7551
HEIGHT
5138
21-Jun-2023
13:47
linh
pha



AFTER

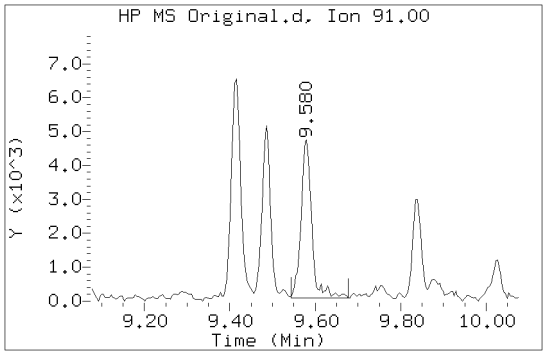
MASS
126
AREA
2589
HEIGHT
1779
21-Jun-2023
13:47
linh
pha



4-Chlorotoluene (106-43-4)

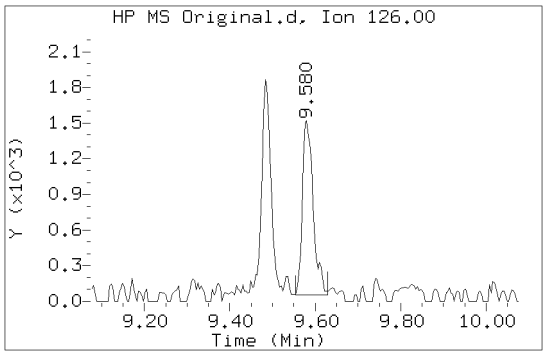
BEFORE

MASS
91
AREA
8243
HEIGHT
4662
08-Jun-2023
14:56
linh
pham



BEFORE

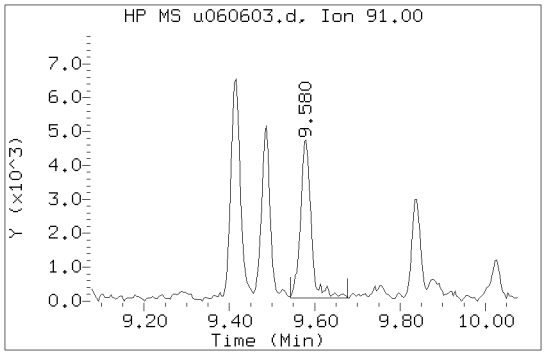
MASS
126
AREA
2606
HEIGHT
1467
08-Jun-2023
14:56
linh
pham



Reason Code:

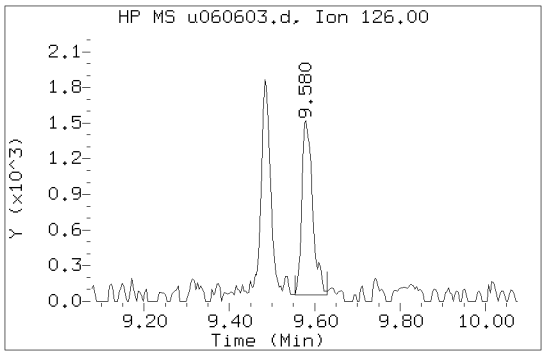
AFTER

MASS
91
AREA
8243
HEIGHT
4662
21-Jun-2023
13:47
linh
pha



AFTER

MASS
126
AREA
2606
HEIGHT
1467
21-Jun-2023
13:47
linh
pha



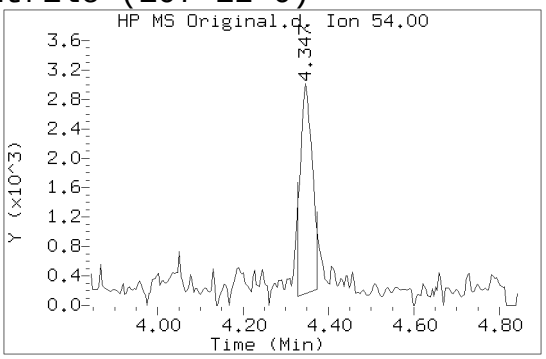
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

Reason Code:

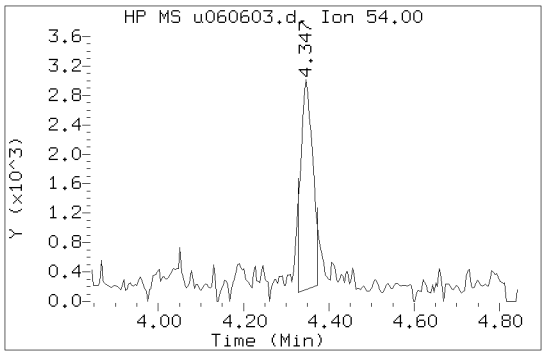
BEFORE

MASS
54
AREA
5579
HEIGHT
2848
08-Jun-2023
14:56
linh
pham



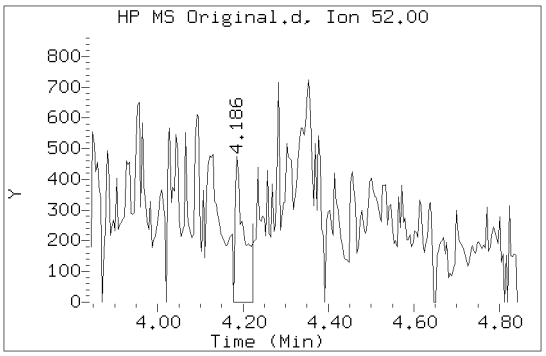
AFTER

MASS
54
AREA
5579
HEIGHT
2848
21-Jun-2023
13:47
linh
pha



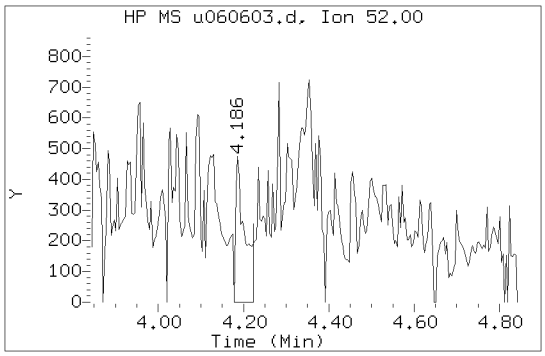
BEFORE

MASS
52
AREA
706
HEIGHT
475
08-Jun-2023
14:56
linh
pham



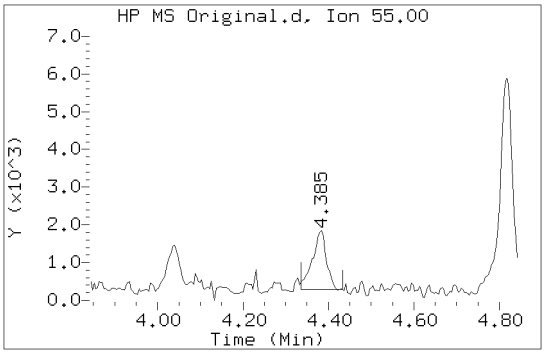
AFTER

MASS
52
AREA
706
HEIGHT
475
21-Jun-2023
13:47
linh
pha



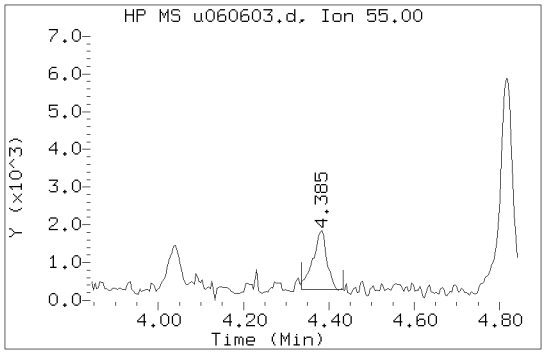
BEFORE

MASS
55
AREA
3548
HEIGHT
1559
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
3548
HEIGHT
1559
21-Jun-2023
13:47
linh
pha

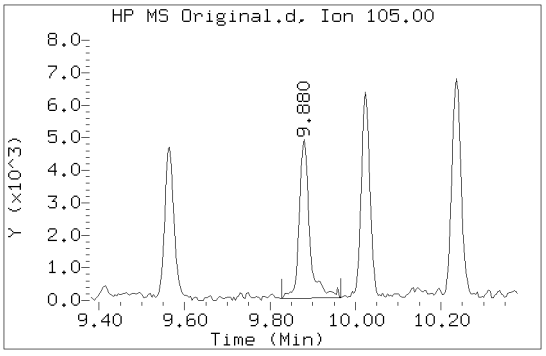


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

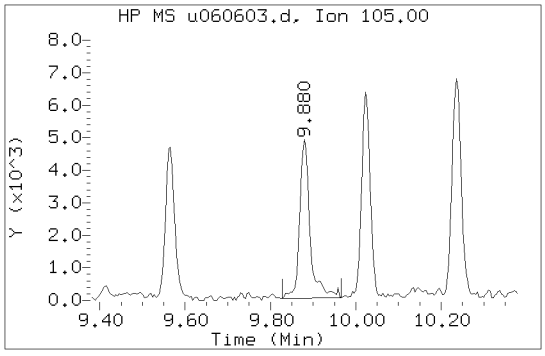
BEFORE

MASS
105
AREA
8548
HEIGHT
4875
08-Jun-2023
14:56
linh
pham



AFTER

MASS
105
AREA
8548
HEIGHT
4875
21-Jun-2023
13:47
linh
pha



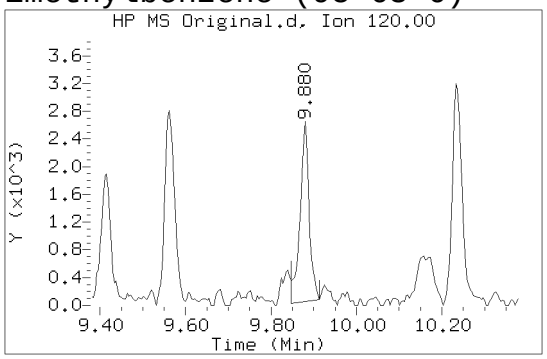
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InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

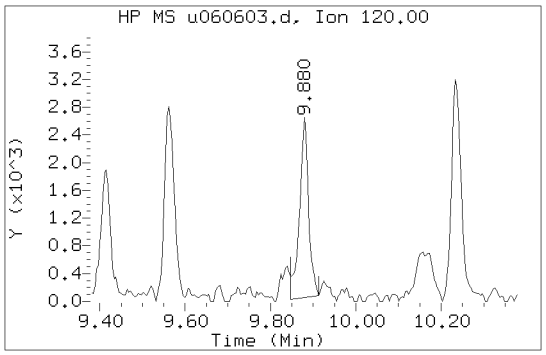
BEFORE

MASS
120
AREA
3975
HEIGHT
2592
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
3975
HEIGHT
2592
21-Jun-2023
13:47
linh
pha

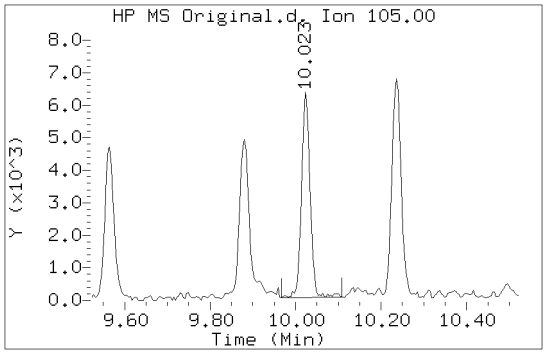


sec-Butylbenzene (135-98-8)

Reason Code:

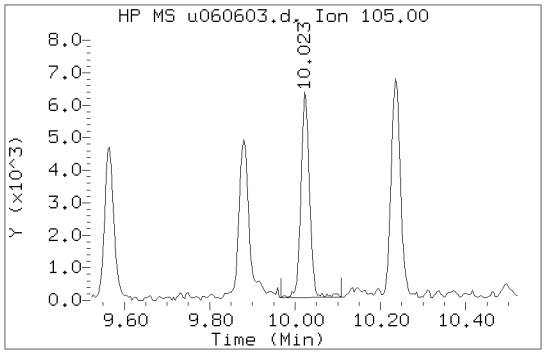
BEFORE

MASS
105
AREA
9131
HEIGHT
6310
08-Jun-2023
14:56
linh
pham



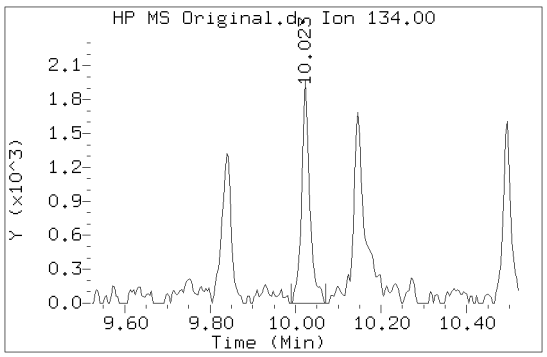
AFTER

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AREA
9131
HEIGHT
6310
21-Jun-2023
13:47
linh
pha



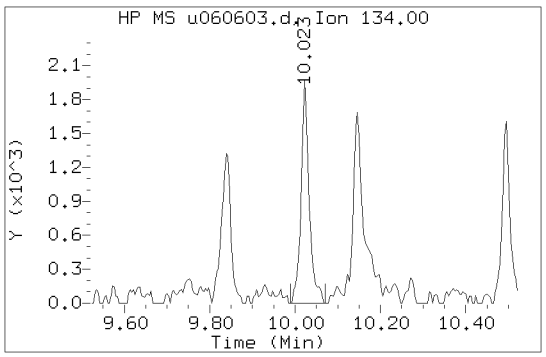
BEFORE

MASS
134
AREA
2687
HEIGHT
1965
08-Jun-2023
14:56
linh
pham



AFTER

MASS
134
AREA
2687
HEIGHT
1965
21-Jun-2023
13:47
linh
pha

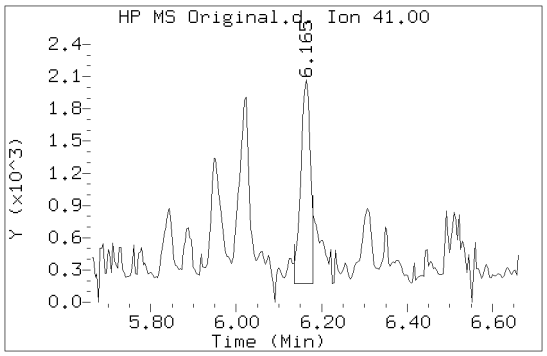


Methyl Methacrylate (80-62-6)

Reason Code:

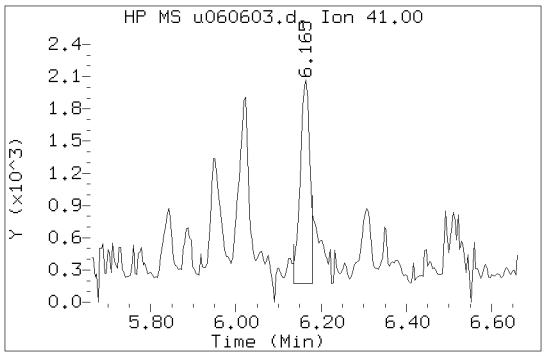
BEFORE

MASS
41
AREA
3083
HEIGHT
1894
08-Jun-2023
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linh
pham



AFTER

MASS
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3083
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1894
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13:47
linh
pha

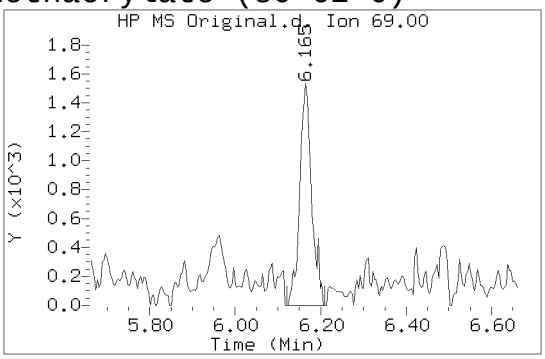


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InstruID : VOA9.i
LabSampID : VSTD000.5

Methyl Methacrylate (80-62-6)

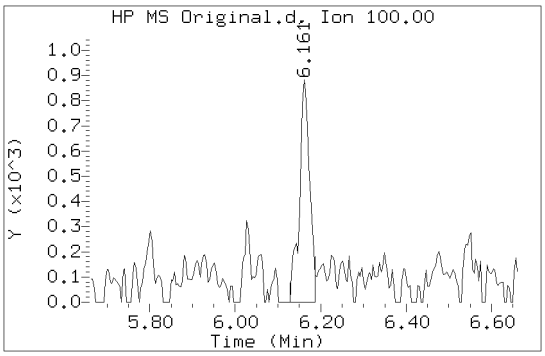
BEFORE

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69
AREA
3017
HEIGHT
1532
08-Jun-2023
14:56
linh
pham



BEFORE

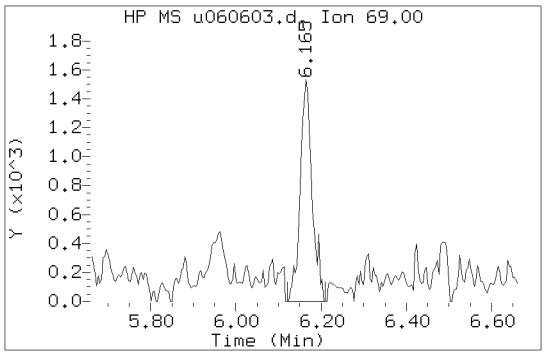
MASS
100
AREA
1506
HEIGHT
882
08-Jun-2023
14:56
linh
pham



Reason Code:

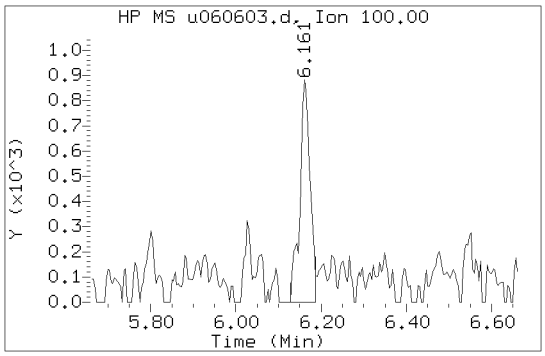
AFTER

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21-Jun-2023
13:47
linh
pha



AFTER

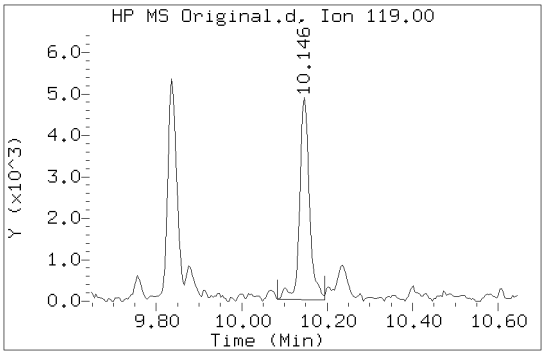
MASS
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AREA
1506
HEIGHT
882
21-Jun-2023
13:47
linh
pha



p-Isopropyltoluene (99-87-6)

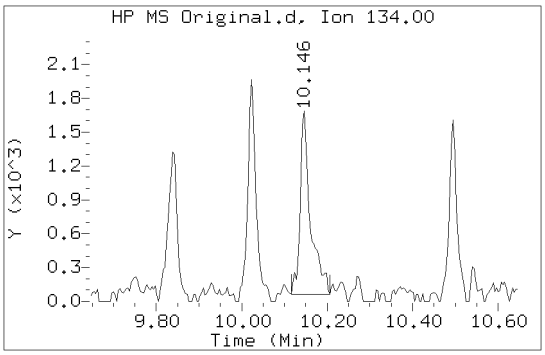
BEFORE

MASS
119
AREA
7969
HEIGHT
4880
08-Jun-2023
14:56
linh
pham



BEFORE

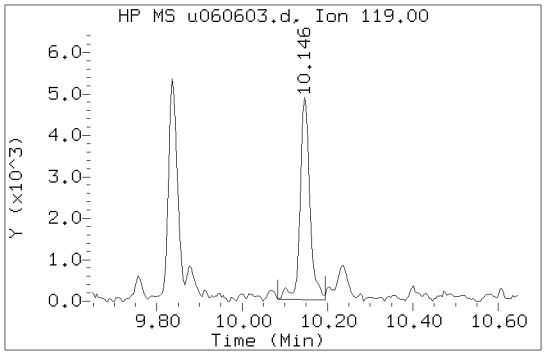
MASS
134
AREA
2795
HEIGHT
1627
08-Jun-2023
14:56
linh
pham



Reason Code:

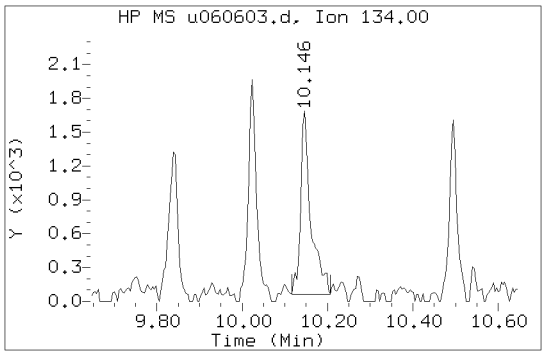
AFTER

MASS
119
AREA
7969
HEIGHT
4880
21-Jun-2023
13:47
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pha



AFTER

MASS
134
AREA
2795
HEIGHT
1627
21-Jun-2023
13:47
linh
pha



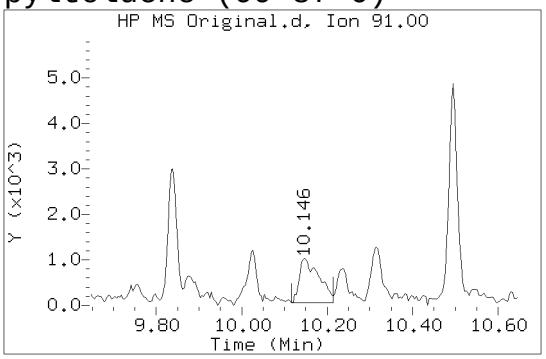
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

p-Isopropyltoluene (99-87-6)

Reason Code:

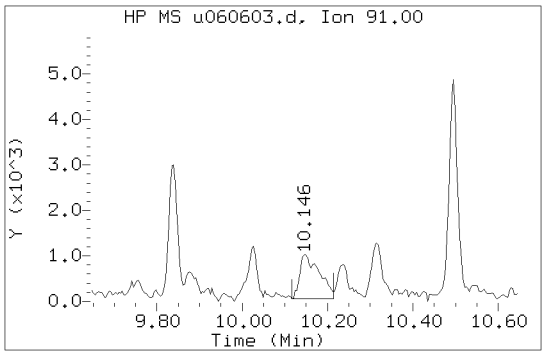
BEFORE

MASS
91
AREA
3125
HEIGHT
970
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
3125
HEIGHT
970
21-Jun-2023
13:47
linh
pha

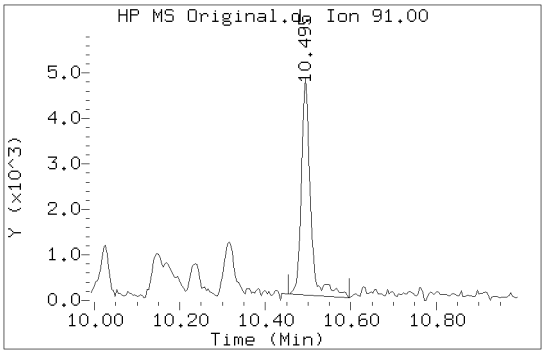


n-Butylbenzene (104-51-8)

Reason Code:

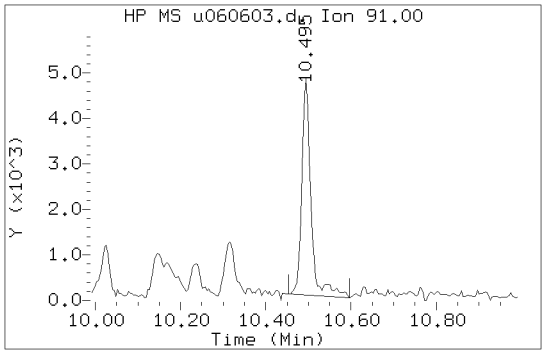
BEFORE

MASS
91
AREA
7213
HEIGHT
4758
08-Jun-2023
14:56
linh
pham



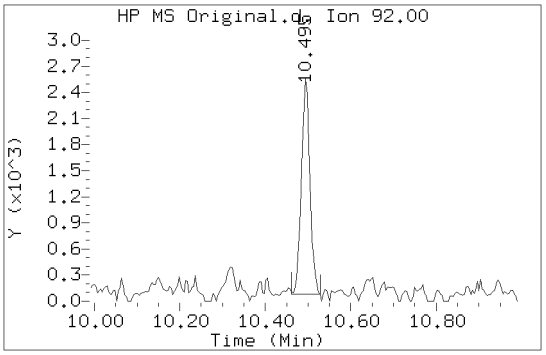
AFTER

MASS
91
AREA
7213
HEIGHT
4758
21-Jun-2023
13:47
linh
pha



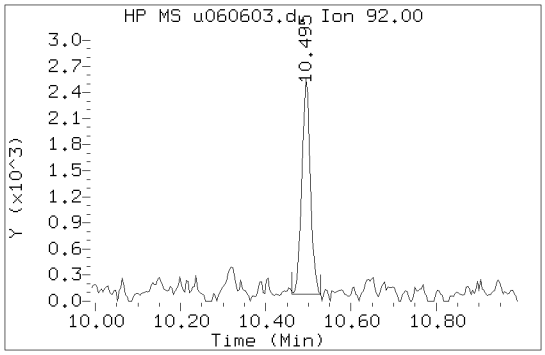
BEFORE

MASS
92
AREA
3472
HEIGHT
2472
08-Jun-2023
14:56
linh
pham



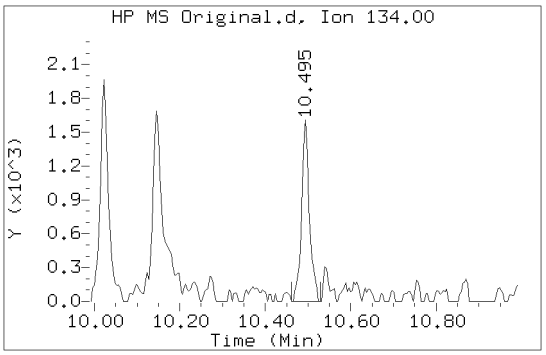
AFTER

MASS
92
AREA
3472
HEIGHT
2472
21-Jun-2023
13:47
linh
pha



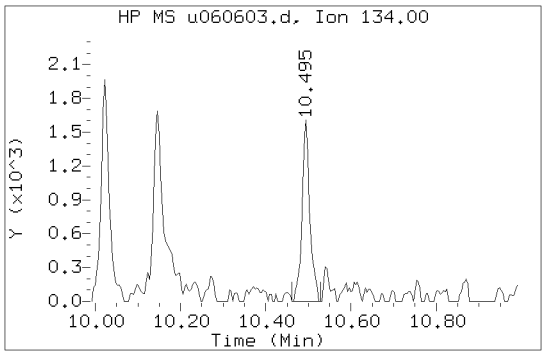
BEFORE

MASS
134
AREA
2070
HEIGHT
1610
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
2070
HEIGHT
1610
21-Jun-2023
13:47
linh
pha

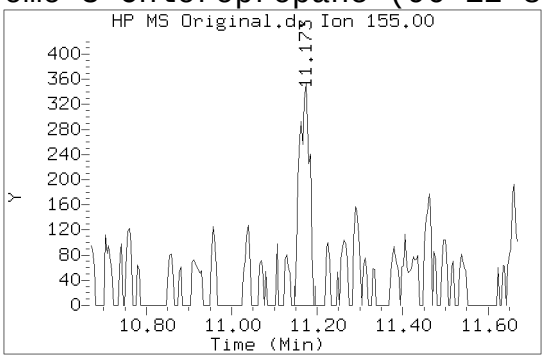


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

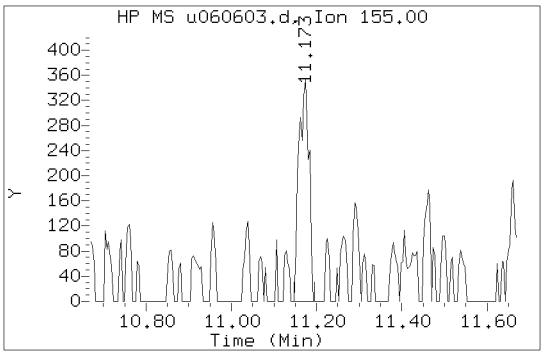
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

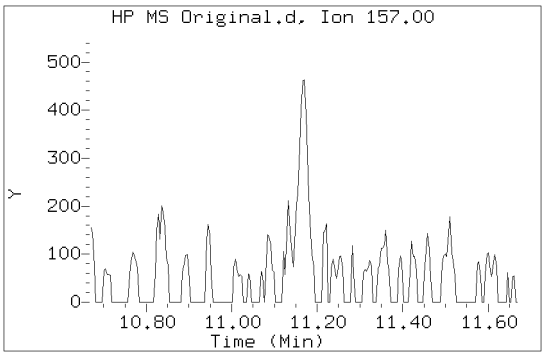
BEFORE
MASS
155
AREA
589
HEIGHT
353
08-Jun-2023
14:56
linh
pham



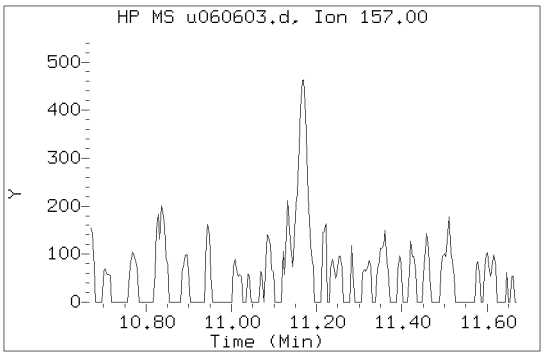
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589
HEIGHT
353
21-Jun-2023
13:47
linh
pha



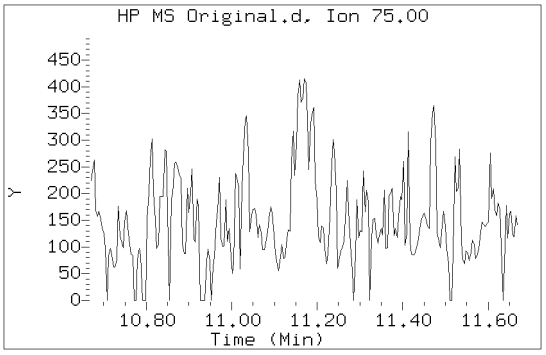
BEFORE
MASS
157
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



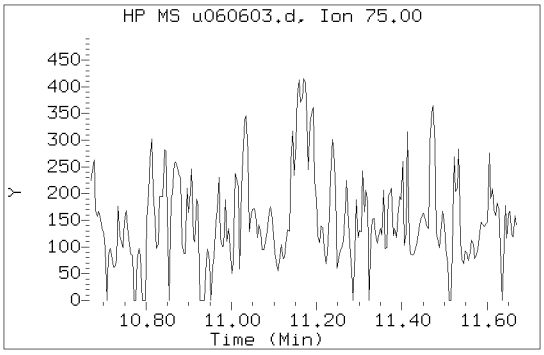
AFTER
MASS
157
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
75
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



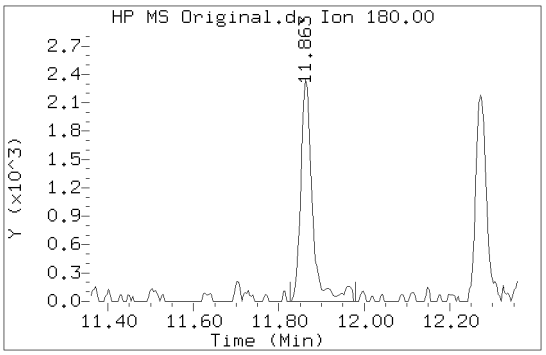
AFTER
MASS
75
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



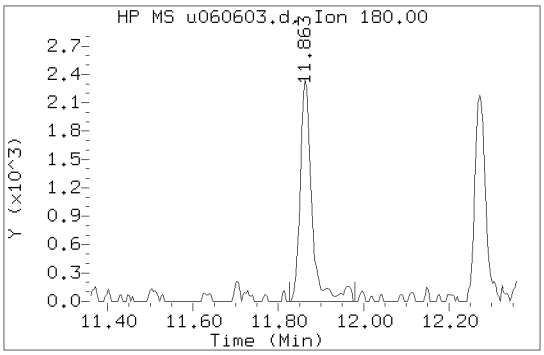
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
180
AREA
4551
HEIGHT
2344
08-Jun-2023
14:56
linh
pham



AFTER
MASS
180
AREA
4551
HEIGHT
2344
21-Jun-2023
13:47
linh
pha



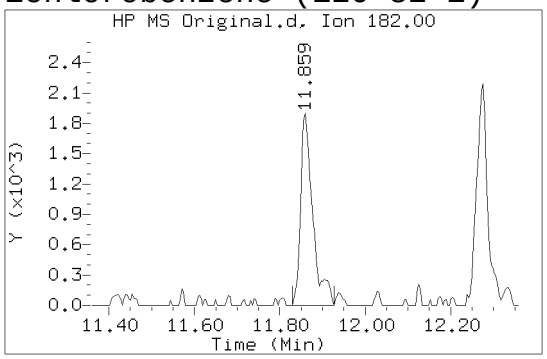
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

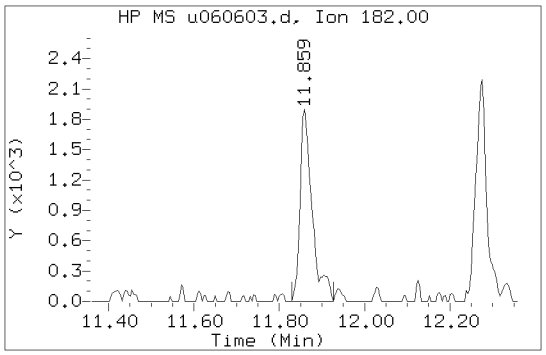
BEFORE

MASS
182
AREA
3811
HEIGHT
1898
08-Jun-2023
14:56
linh
pham



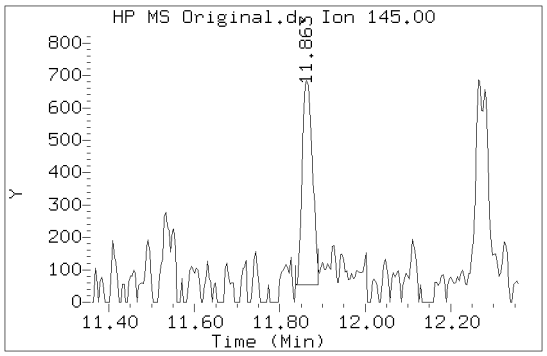
AFTER

MASS
182
AREA
3811
HEIGHT
1898
21-Jun-2023
13:47
linh
pha



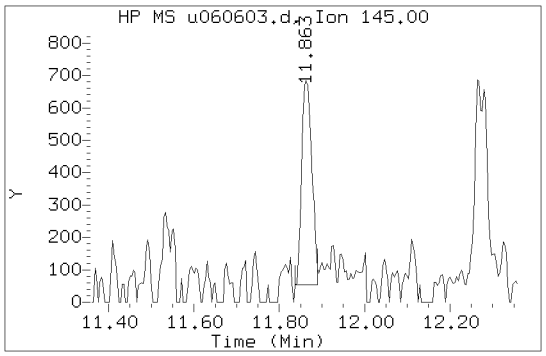
BEFORE

MASS
145
AREA
1065
HEIGHT
632
08-Jun-2023
14:56
linh
pham



AFTER

MASS
145
AREA
1065
HEIGHT
632
21-Jun-2023
13:47
linh
pha

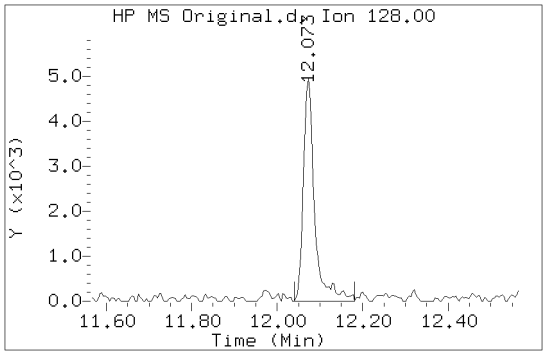


Naphthalene (91-20-3)

Reason Code:

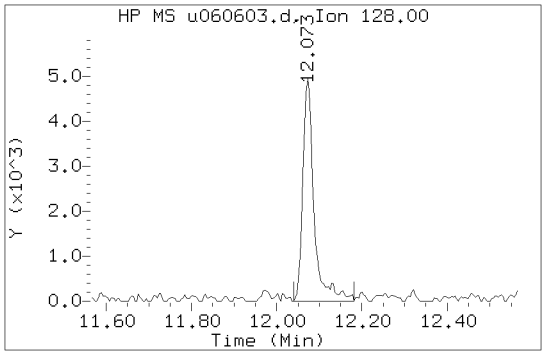
BEFORE

MASS
128
AREA
9156
HEIGHT
4939
08-Jun-2023
14:56
linh
pham



AFTER

MASS
128
AREA
9156
HEIGHT
4939
21-Jun-2023
13:47
linh
pha

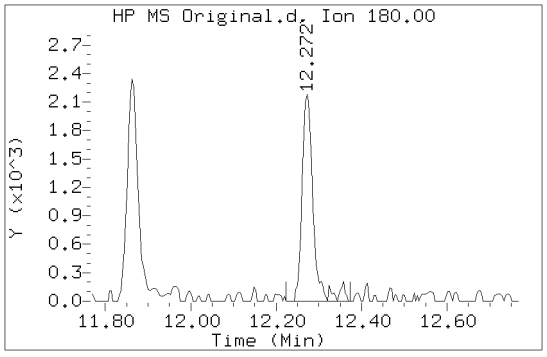


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

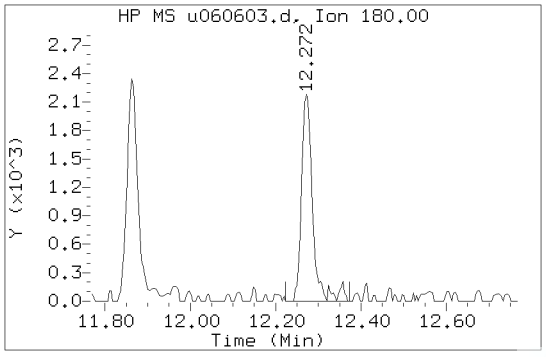
BEFORE

MASS
180
AREA
4090
HEIGHT
2185
08-Jun-2023
14:56
linh
pham



AFTER

MASS
180
AREA
4090
HEIGHT
2185
21-Jun-2023
13:47
linh
pha



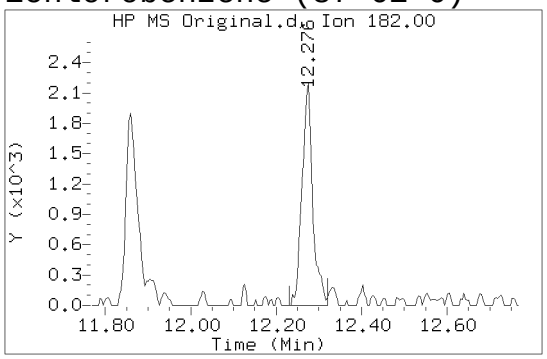
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

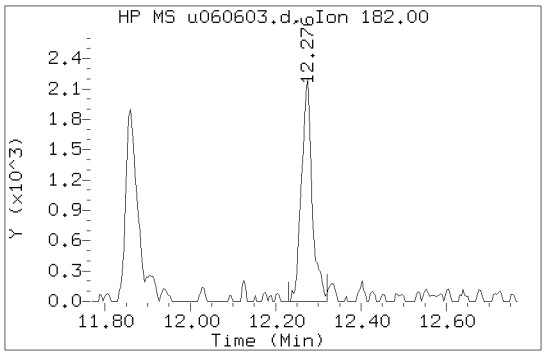
BEFORE

MASS
182
AREA
3923
HEIGHT
2191
08-Jun-2023
14:56
linh
pham



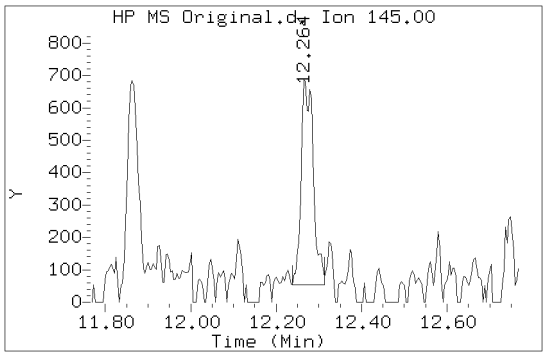
AFTER

MASS
182
AREA
3923
HEIGHT
2191
21-Jun-2023
13:47
linh
pha



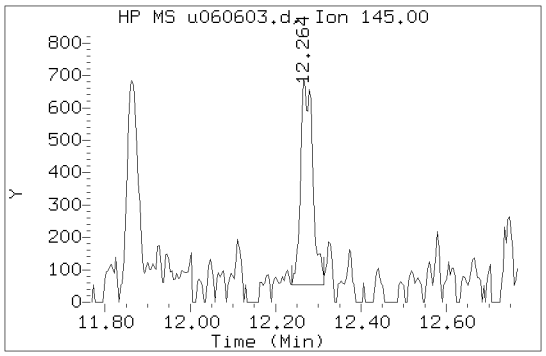
BEFORE

MASS
145
AREA
1275
HEIGHT
633
08-Jun-2023
14:56
linh
pham



AFTER

MASS
145
AREA
1275
HEIGHT
633
21-Jun-2023
13:47
linh
pha

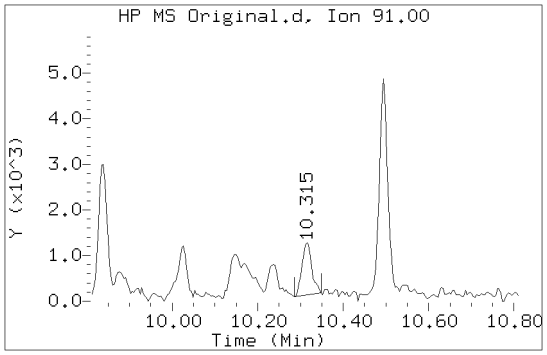


Benzyl Chloride (100-44-7)

Reason Code:

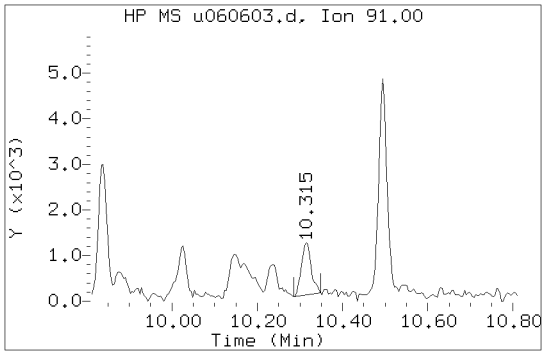
BEFORE

MASS
91
AREA
1867
HEIGHT
1136
08-Jun-2023
14:56
linh
pham



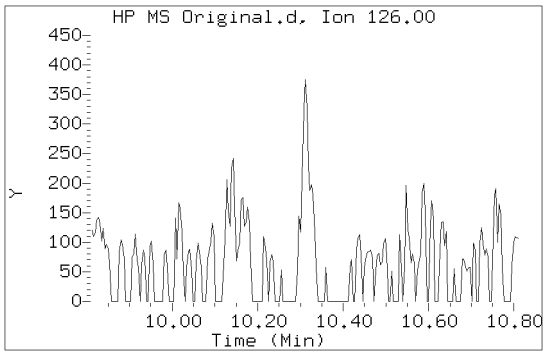
AFTER

MASS
91
AREA
1867
HEIGHT
1136
21-Jun-2023
13:47
linh
pha



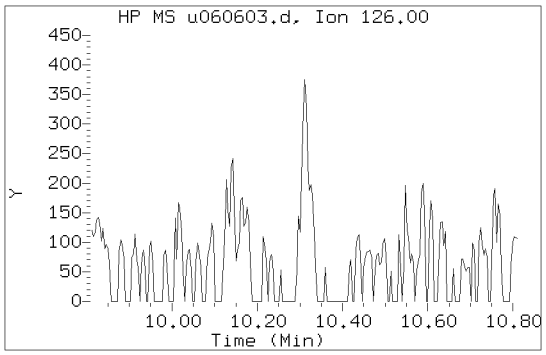
BEFORE

MASS
126
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
126
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



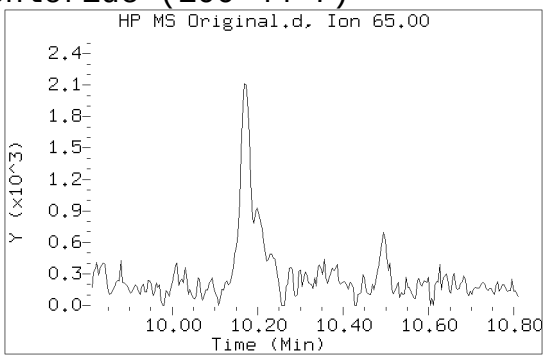
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Benzyl Chloride (100-44-7)

Reason Code:

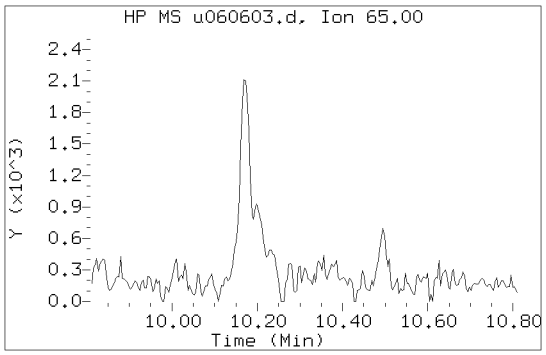
BEFORE

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

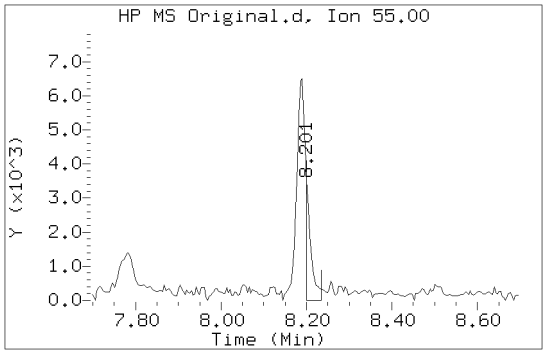


1-Chlorohexane (544-10-5)

Reason Code:

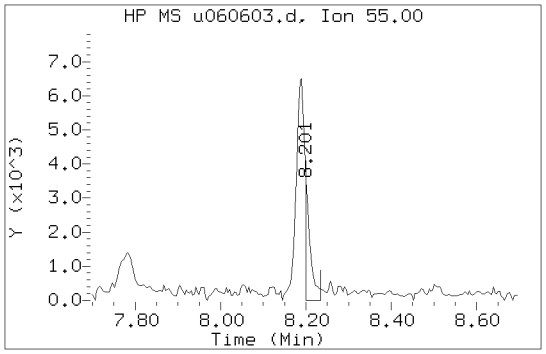
BEFORE

MASS
55
AREA
2785
HEIGHT
3524
08-Jun-2023
14:56
linh
pham



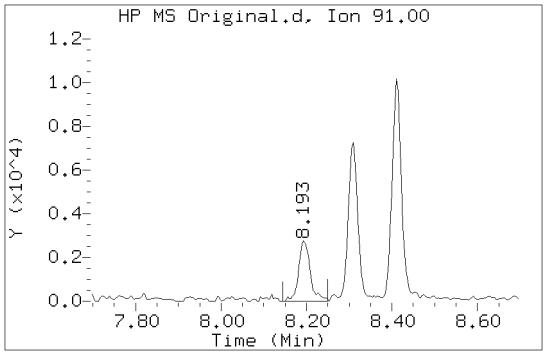
AFTER

MASS
55
AREA
2785
HEIGHT
3524
21-Jun-2023
13:47
linh
pha



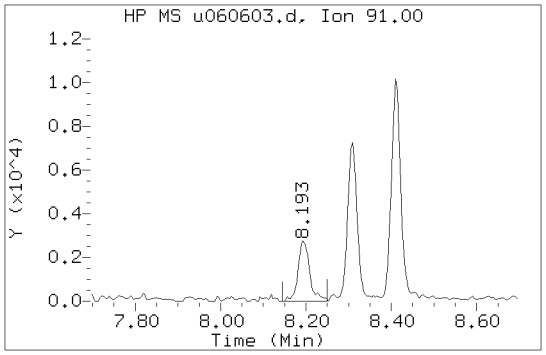
BEFORE

MASS
91
AREA
5394
HEIGHT
2762
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
5394
HEIGHT
2762
21-Jun-2023
13:47
linh
pha

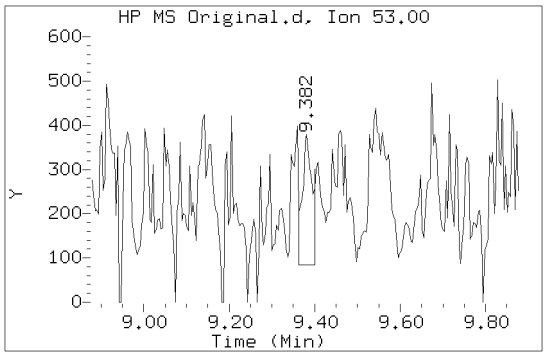


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

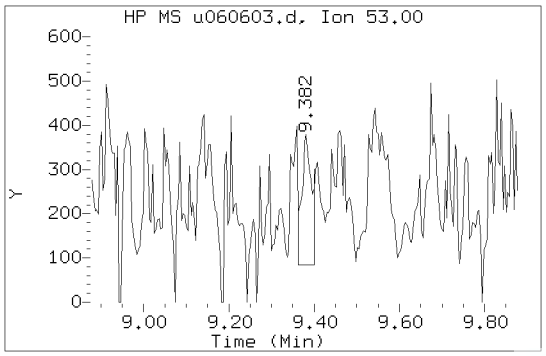
BEFORE

MASS
53
AREA
485
HEIGHT
296
08-Jun-2023
14:56
linh
pham



AFTER

MASS
53
AREA
485
HEIGHT
296
21-Jun-2023
13:47
linh
pha

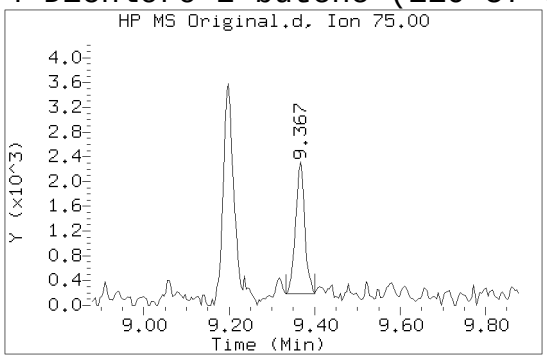


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

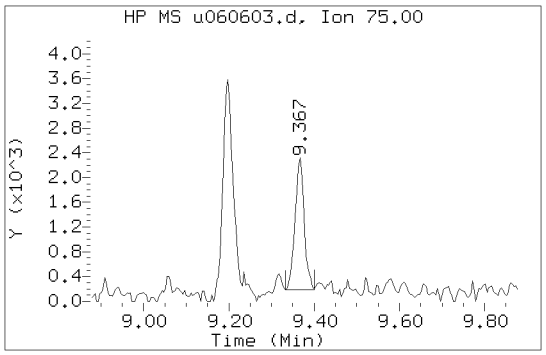
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
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AREA
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HEIGHT
2140
08-Jun-2023
14:56
linh
pham



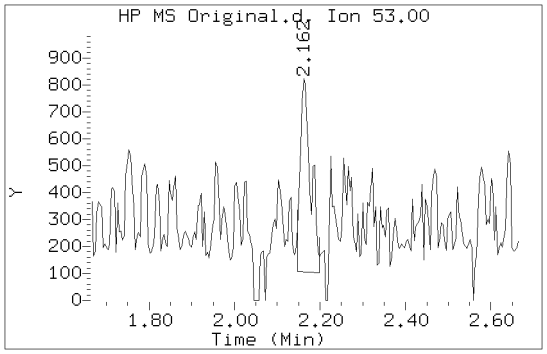
AFTER
MASS
75
AREA
3241
HEIGHT
2140
21-Jun-2023
13:47
linh
pha



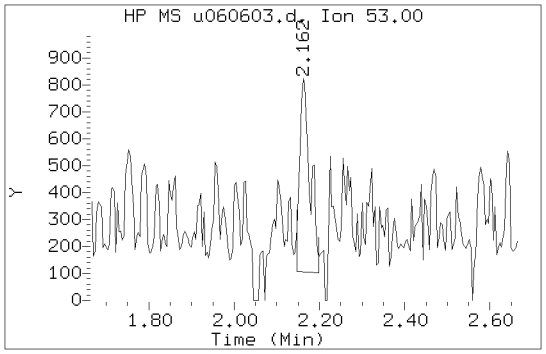
Chloroprene (126-99-8)

Reason Code:

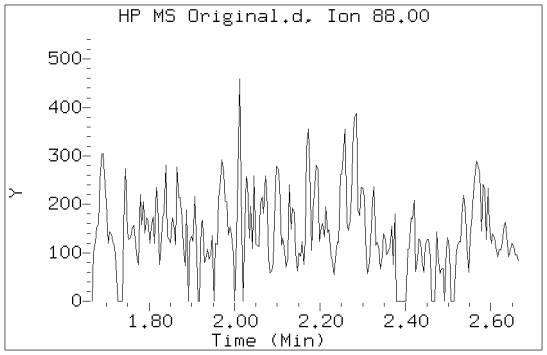
BEFORE
MASS
53
AREA
1260
HEIGHT
717
08-Jun-2023
14:56
linh
pham



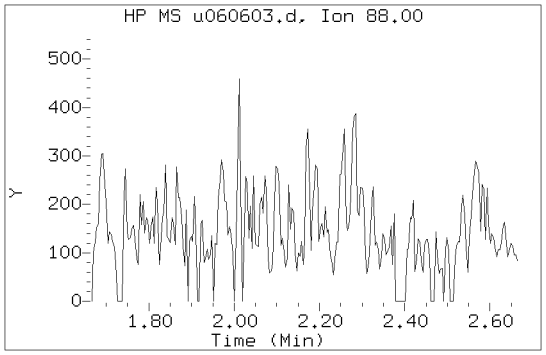
AFTER
MASS
53
AREA
1260
HEIGHT
717
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



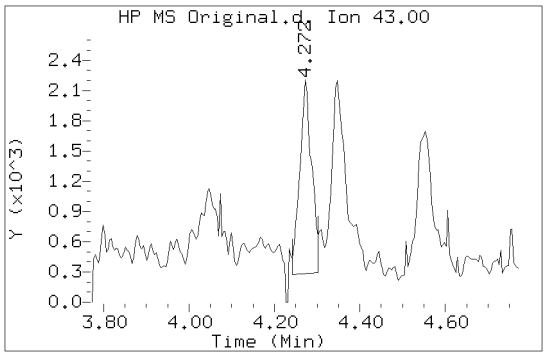
AFTER
MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



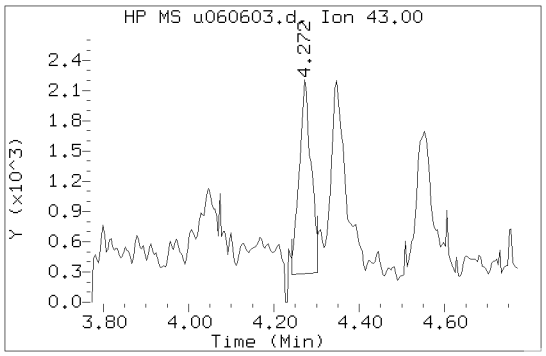
Ethyl Acetate (141-78-6)

Reason Code:

BEFORE
MASS
43
AREA
3781
HEIGHT
1922
08-Jun-2023
14:56
linh
pham



AFTER
MASS
43
AREA
3781
HEIGHT
1922
21-Jun-2023
13:47
linh
pha

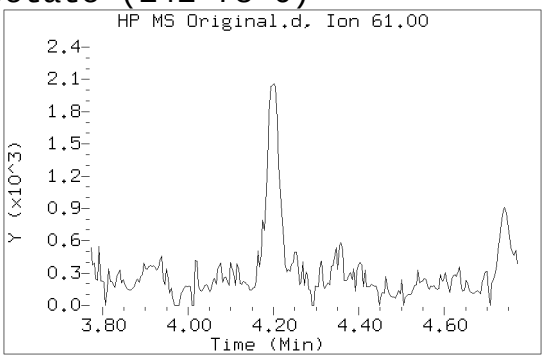


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

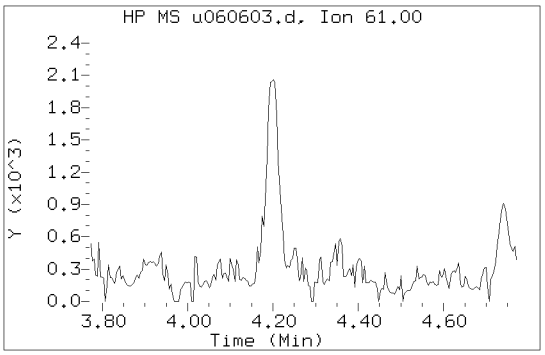
Ethyl Acetate (141-78-6)

Reason Code:

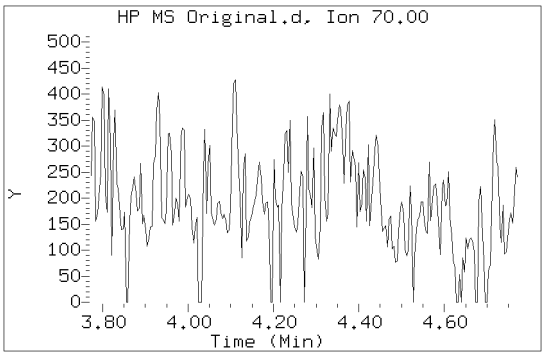
BEFORE
MASS
61
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



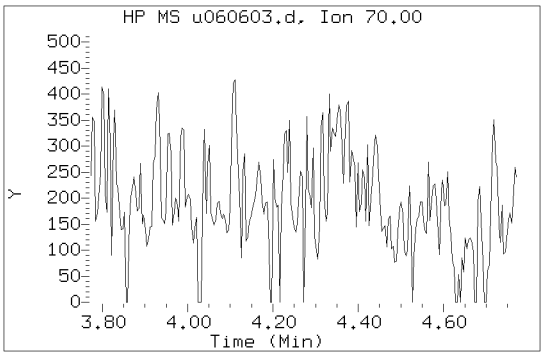
AFTER
MASS
61
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
70
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



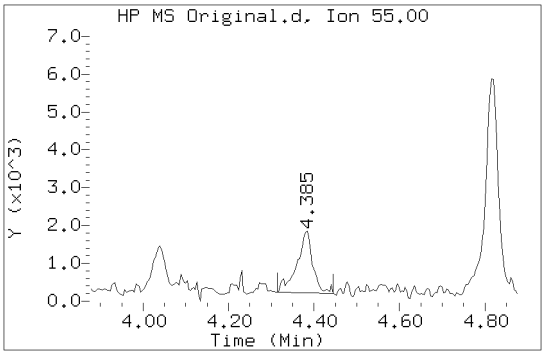
AFTER
MASS
70
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



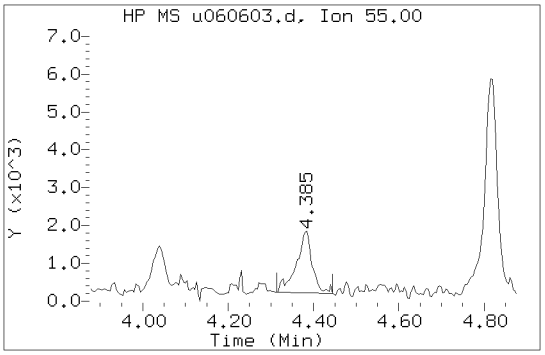
Methyl Acrylate (96-33-3)

Reason Code:

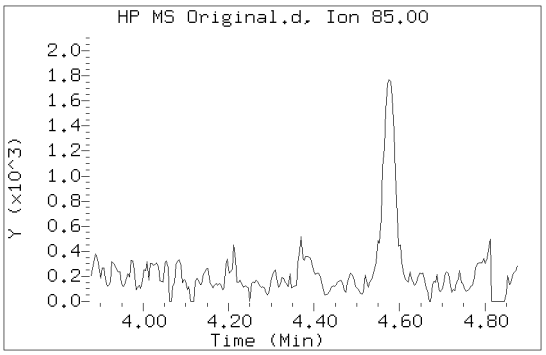
BEFORE
MASS
55
AREA
4302
HEIGHT
1632
08-Jun-2023
14:56
linh
pham



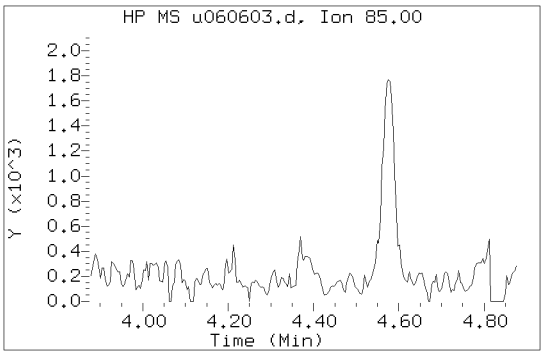
AFTER
MASS
55
AREA
4302
HEIGHT
1632
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

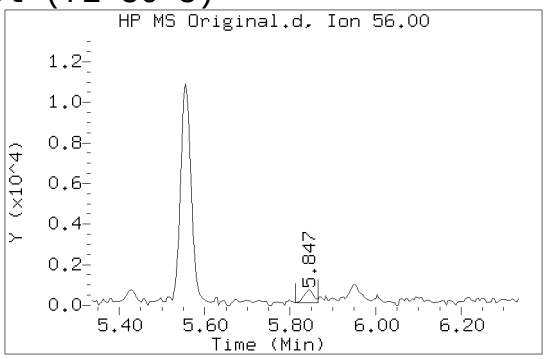


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

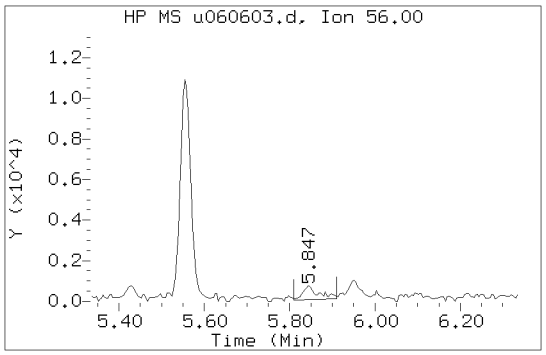
n-Butanol (71-36-3)

Reason Code:

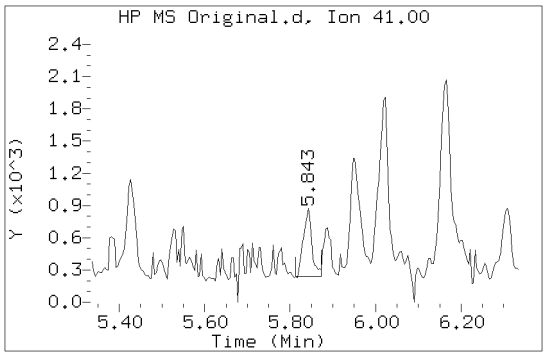
BEFORE
MASS
56
AREA
1032
HEIGHT
628
08-Jun-2023
14:56
linh
pham



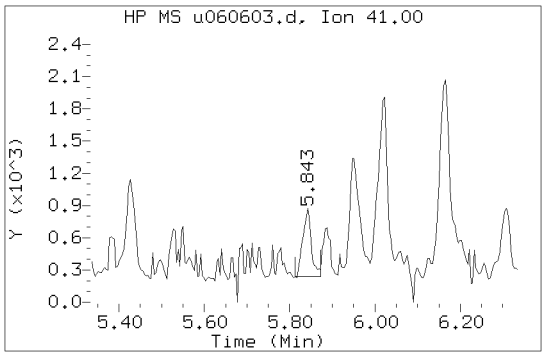
AFTER
MASS
56
AREA
1746
HEIGHT
662
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
41
AREA
903
HEIGHT
633
08-Jun-2023
14:56
linh
pham



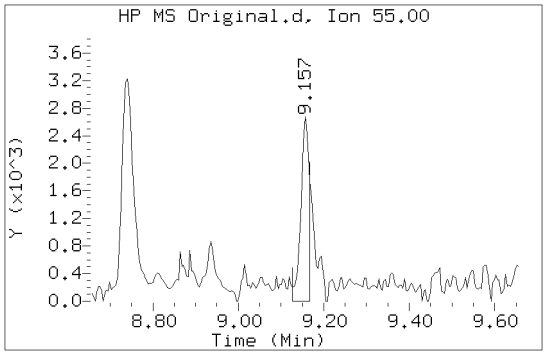
AFTER
MASS
41
AREA
903
HEIGHT
633
21-Jun-2023
13:47
linh
pha



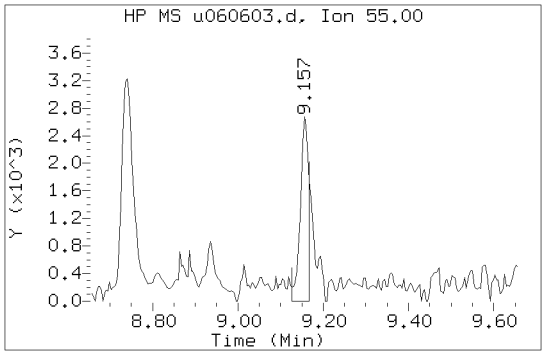
Cyclohexanone (108-94-1)

Reason Code:

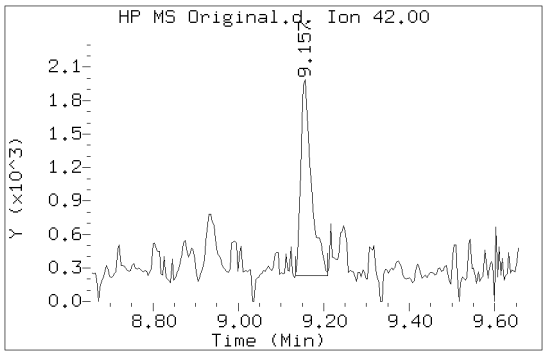
BEFORE
MASS
55
AREA
3642
HEIGHT
2680
08-Jun-2023
14:56
linh
pham



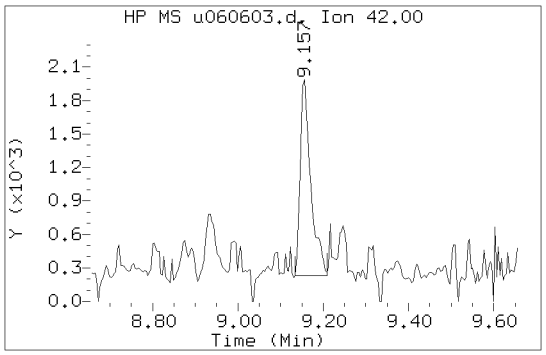
AFTER
MASS
55
AREA
3642
HEIGHT
2680
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
42
AREA
3088
HEIGHT
1757
08-Jun-2023
14:56
linh
pham



AFTER
MASS
42
AREA
3088
HEIGHT
1757
21-Jun-2023
13:47
linh
pha



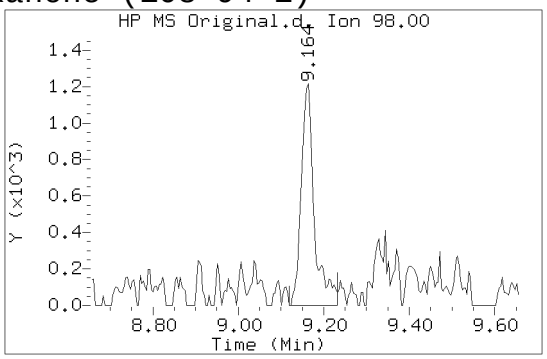
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Cyclohexanone (108-94-1)

Reason Code:

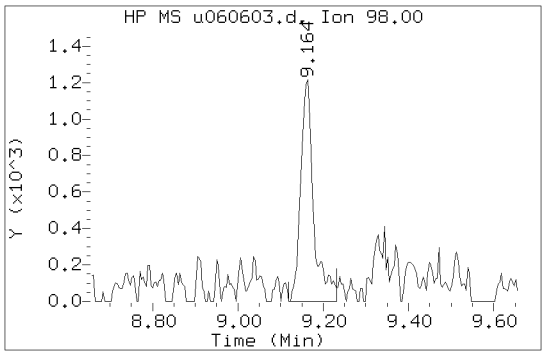
BEFORE

MASS
98
AREA
2606
HEIGHT
1216
08-Jun-2023
14:56
linh
pham



AFTER

MASS
98
AREA
2606
HEIGHT
1216
21-Jun-2023
13:47
linh
pha

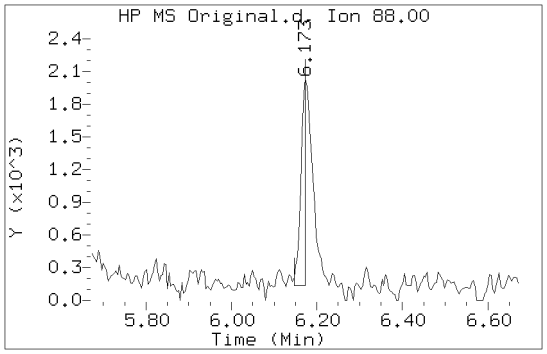


1,4-Dioxane ()

Reason Code:

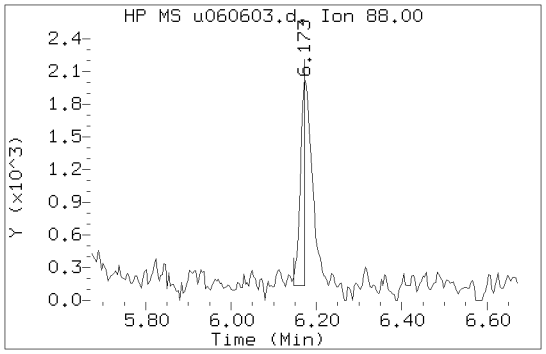
BEFORE

MASS
88
AREA
1567
HEIGHT
1901
08-Jun-2023
14:56
linh
pham



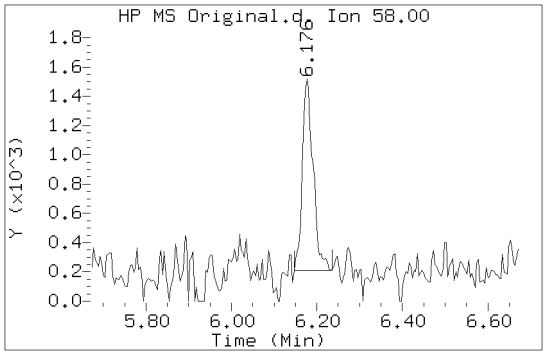
AFTER

MASS
88
AREA
1567
HEIGHT
1901
21-Jun-2023
13:47
linh
pha



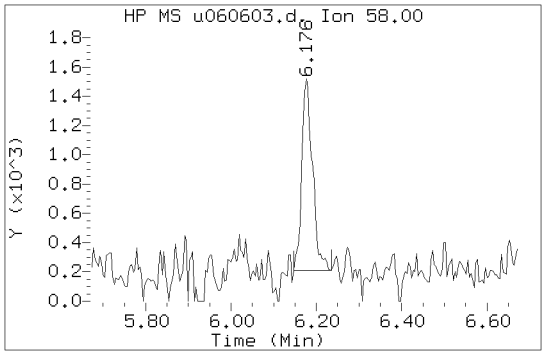
BEFORE

MASS
58
AREA
2344
HEIGHT
1308
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
2344
HEIGHT
1308
21-Jun-2023
13:47
linh
pha

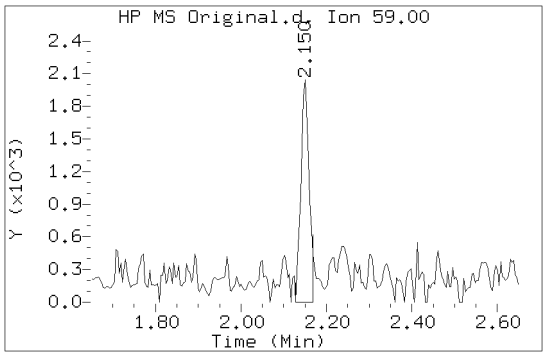


Diethyl ether (60-29-7)

Reason Code:

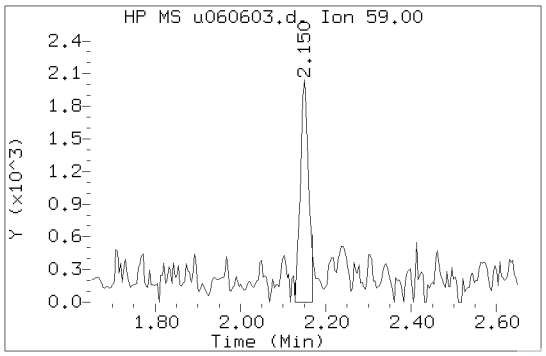
BEFORE

MASS
59
AREA
2812
HEIGHT
2042
08-Jun-2023
14:56
linh
pham



AFTER

MASS
59
AREA
2812
HEIGHT
2042
21-Jun-2023
13:47
linh
pha

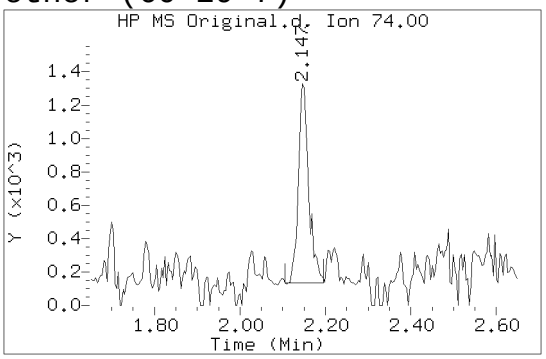


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Diethyl ether (60-29-7)

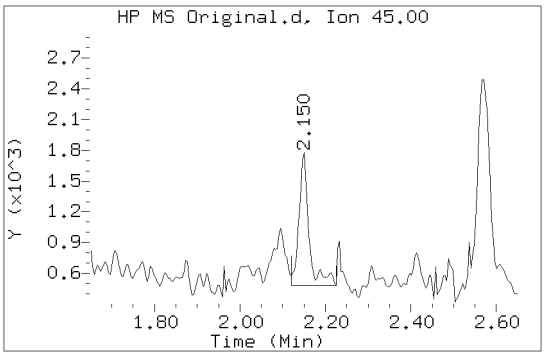
BEFORE

MASS
74
AREA
2051
HEIGHT
1194
08-Jun-2023
14:56
linh
pham



BEFORE

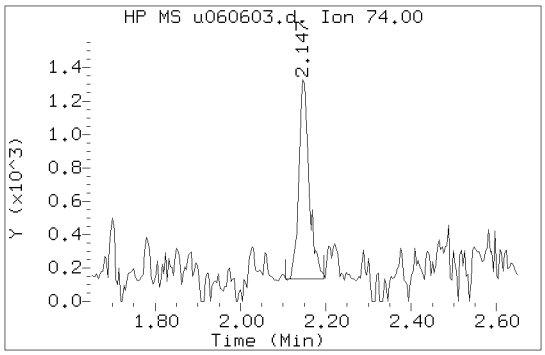
MASS
45
AREA
2149
HEIGHT
1297
08-Jun-2023
14:56
linh
pham



Reason Code:

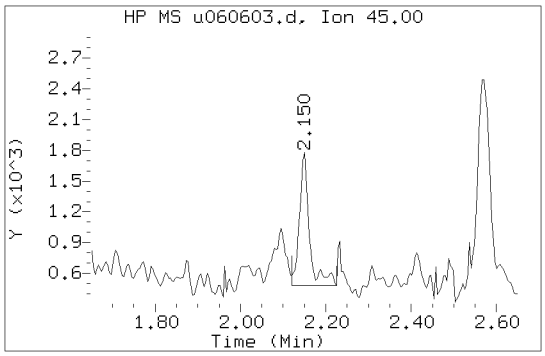
AFTER

MASS
74
AREA
2051
HEIGHT
1194
21-Jun-2023
13:47
linh
pha



AFTER

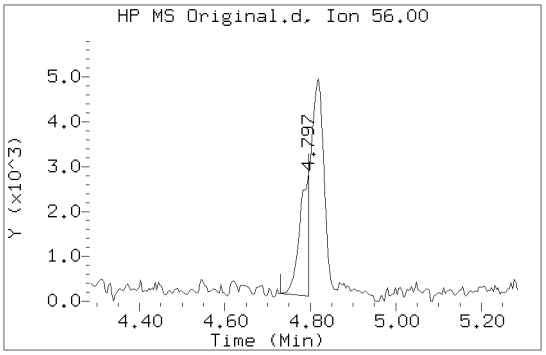
MASS
45
AREA
2149
HEIGHT
1297
21-Jun-2023
13:47
linh
pha



Cyclohexane (110-82-7)

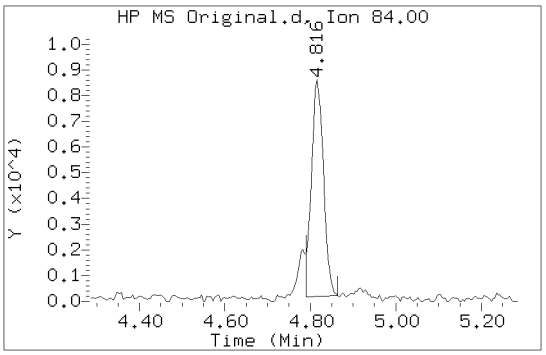
BEFORE

MASS
56
AREA
4345
HEIGHT
2735
08-Jun-2023
14:56
linh
pham



BEFORE

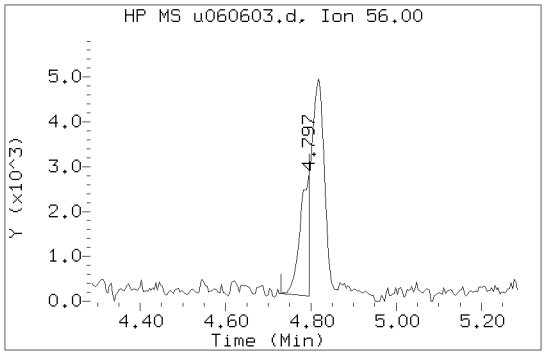
MASS
84
AREA
16696
HEIGHT
8414
08-Jun-2023
14:56
linh
pham



Reason Code:

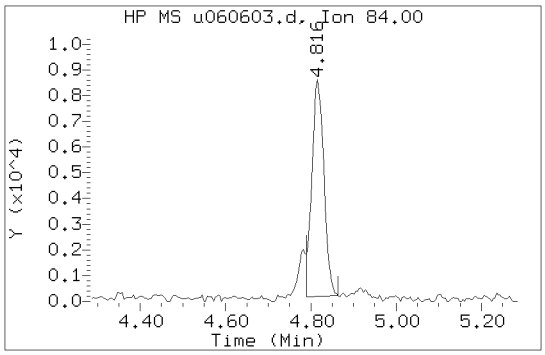
AFTER

MASS
56
AREA
4345
HEIGHT
2735
21-Jun-2023
13:47
linh
pha



AFTER

MASS
84
AREA
16696
HEIGHT
8414
21-Jun-2023
13:47
linh
pha

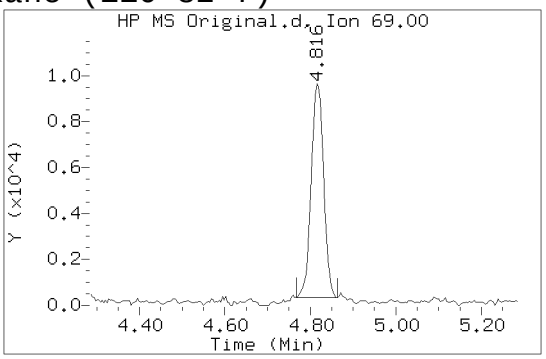


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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Cyclohexane (110-82-7)

BEFORE

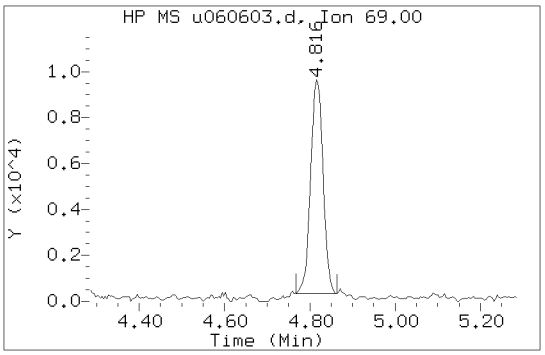
MASS
69
AREA
18963
HEIGHT
9317
08-Jun-2023
14:56
linh
pham



AFTER

MASS
69
AREA
18963
HEIGHT
9317
21-Jun-2023
13:47
linh
pha

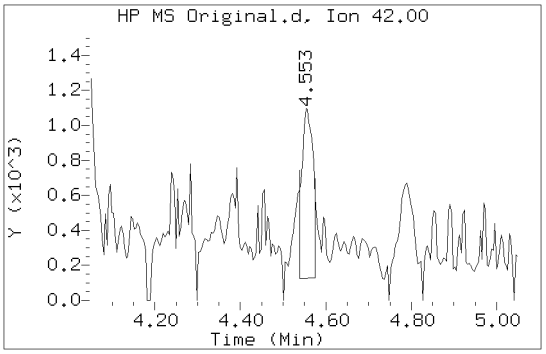
Reason Code:



Tetrahydrofuran (109-99-9)

BEFORE

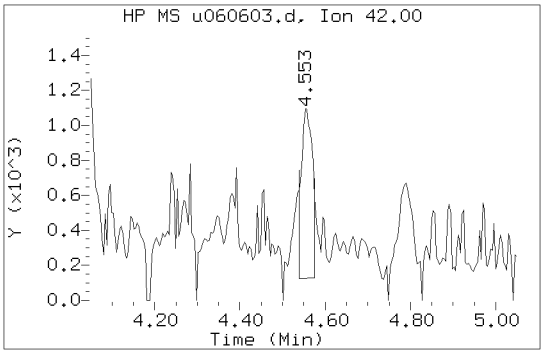
MASS
42
AREA
1846
HEIGHT
970
08-Jun-2023
14:56
linh
pham



AFTER

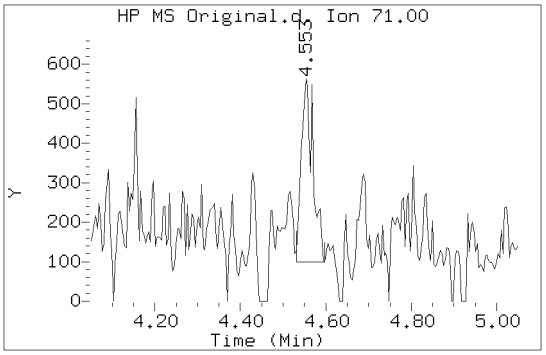
MASS
42
AREA
1846
HEIGHT
970
21-Jun-2023
13:47
linh
pha

Reason Code:



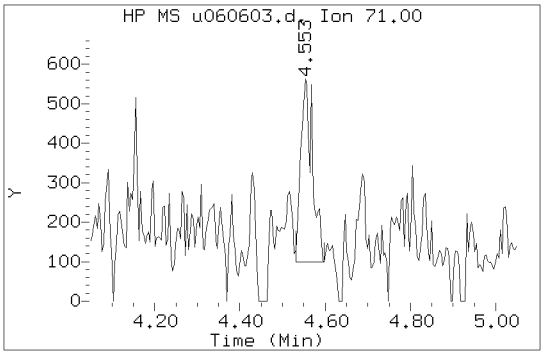
BEFORE

MASS
71
AREA
900
HEIGHT
464
08-Jun-2023
14:56
linh
pham



AFTER

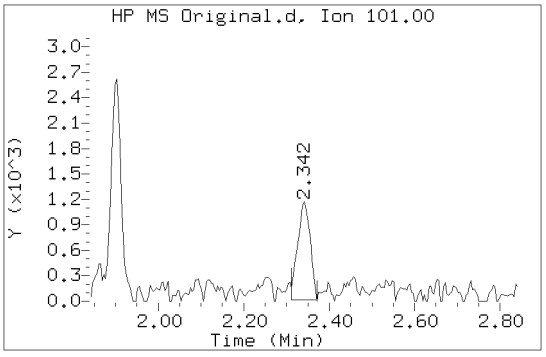
MASS
71
AREA
900
HEIGHT
464
21-Jun-2023
13:47
linh
pha



Freon TF (76-13-1)

BEFORE

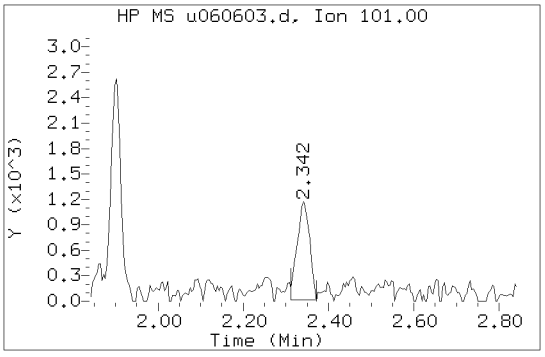
MASS
101
AREA
2391
HEIGHT
1159
08-Jun-2023
14:56
linh
pham



AFTER

MASS
101
AREA
2391
HEIGHT
1159
21-Jun-2023
13:47
linh
pha

Reason Code:



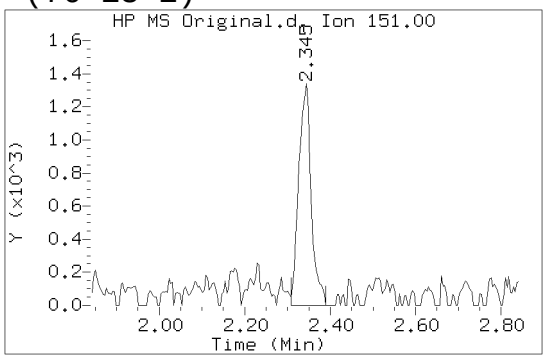
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Freon TF (76-13-1)

Reason Code:

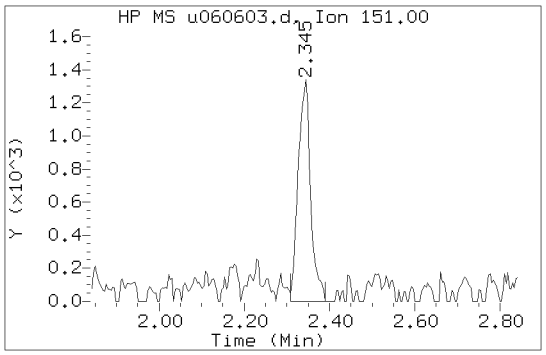
BEFORE

MASS
151
AREA
2754
HEIGHT
1340
08-Jun-2023
14:56
linh
pham



AFTER

MASS
151
AREA
2754
HEIGHT
1340
21-Jun-2023
13:47
linh
pha

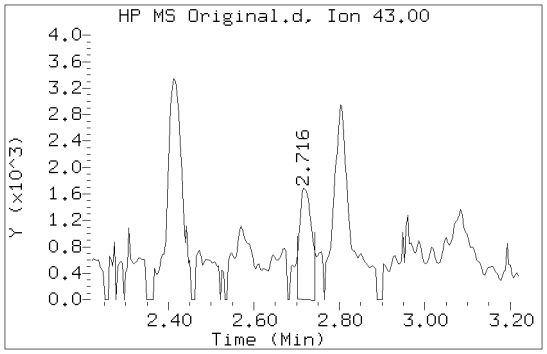


Methyl Acetate (79-20-9)

Reason Code:

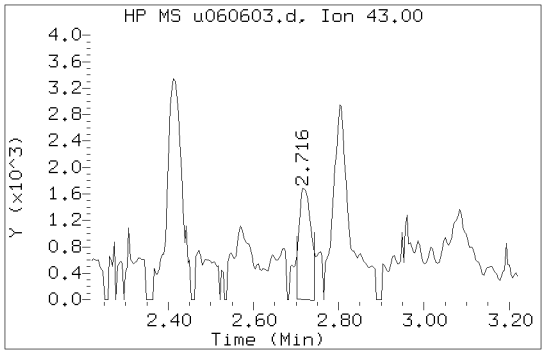
BEFORE

MASS
43
AREA
3375
HEIGHT
1684
08-Jun-2023
14:56
linh
pham



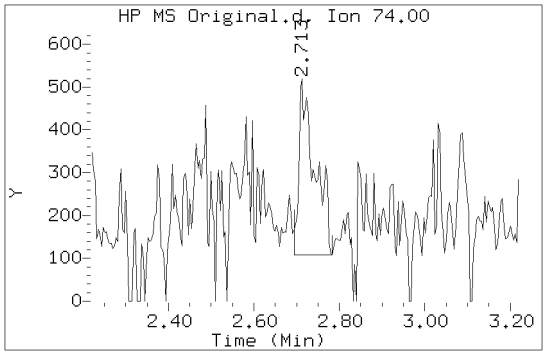
AFTER

MASS
43
AREA
3375
HEIGHT
1684
21-Jun-2023
13:47
linh
pha



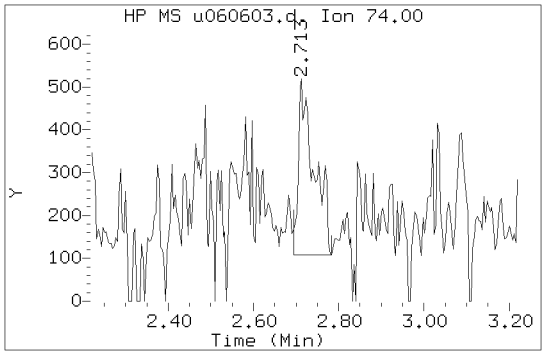
BEFORE

MASS
74
AREA
1069
HEIGHT
411
08-Jun-2023
14:56
linh
pham



AFTER

MASS
74
AREA
1069
HEIGHT
411
21-Jun-2023
13:47
linh
pha

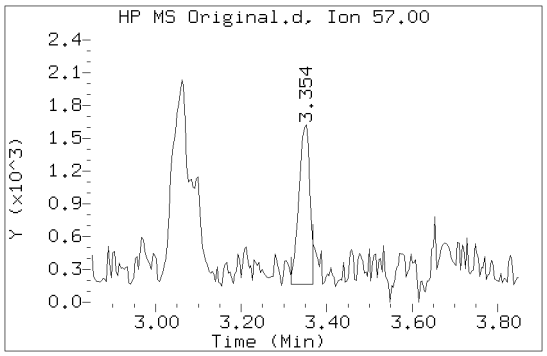


Allyl alcohol (107-18-6)

Reason Code:

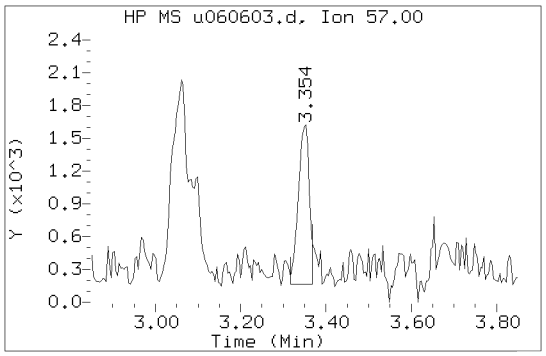
BEFORE

MASS
57
AREA
2691
HEIGHT
1461
08-Jun-2023
14:56
linh
pham



AFTER

MASS
57
AREA
2691
HEIGHT
1461
21-Jun-2023
13:47
linh
pha



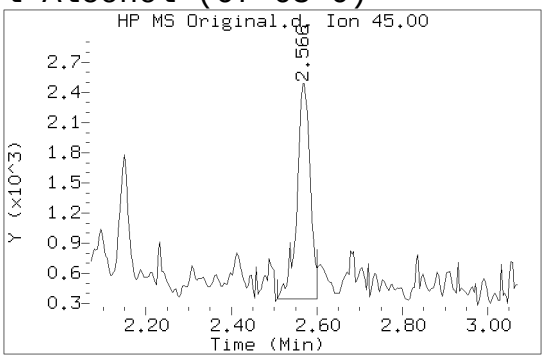
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Isopropyl Alcohol (67-63-0)

Reason Code:

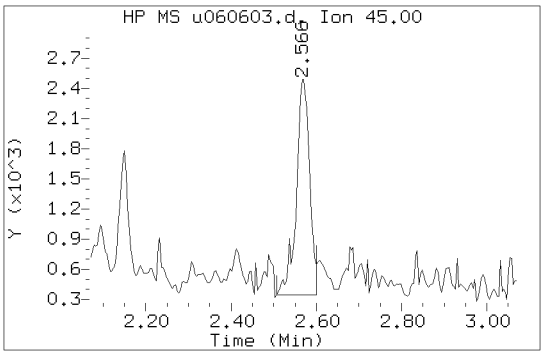
BEFORE

MASS
45
AREA
4735
HEIGHT
2141
08-Jun-2023
14:56
linh
pham



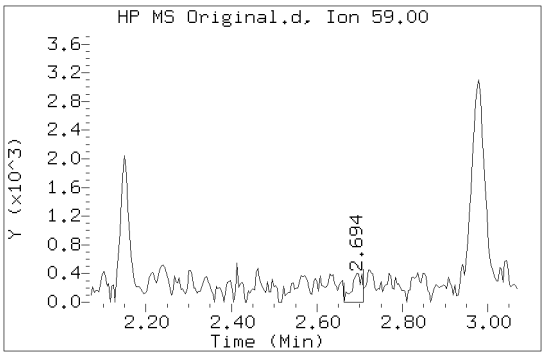
AFTER

MASS
45
AREA
4735
HEIGHT
2141
21-Jun-2023
13:47
linh
pha



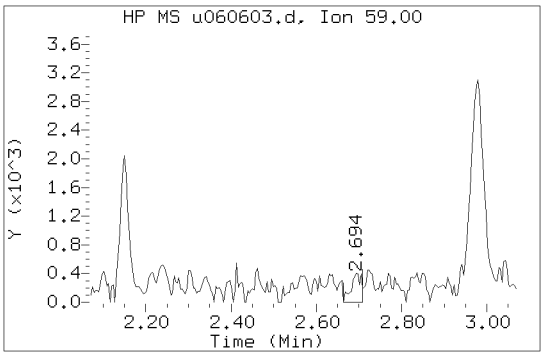
BEFORE

MASS
59
AREA
670
HEIGHT
403
08-Jun-2023
14:56
linh
pham



AFTER

MASS
59
AREA
670
HEIGHT
403
21-Jun-2023
13:47
linh
pha

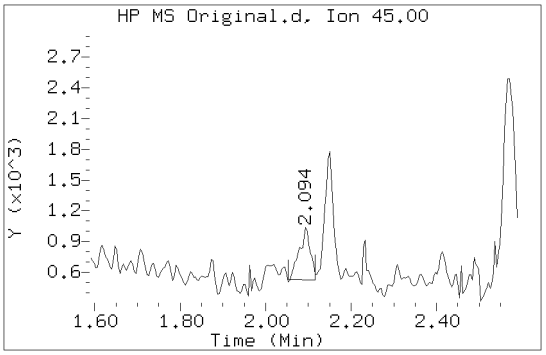


Ethanol (64-17-5)

Reason Code:

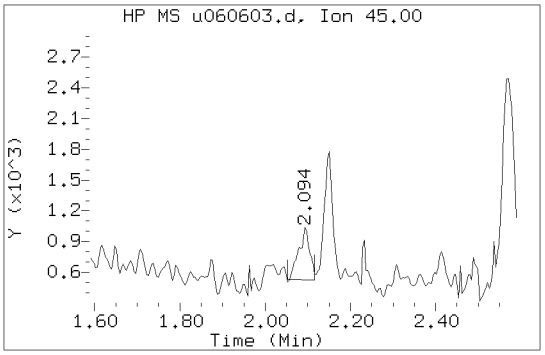
BEFORE

MASS
45
AREA
929
HEIGHT
515
08-Jun-2023
14:56
linh
pham



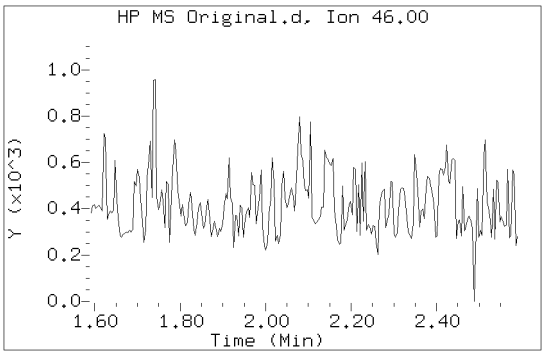
AFTER

MASS
45
AREA
929
HEIGHT
515
21-Jun-2023
13:47
linh
pha



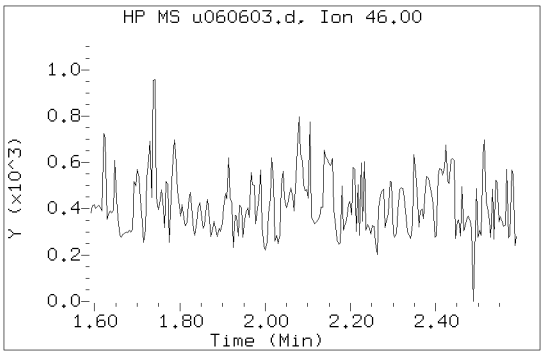
BEFORE

MASS
46
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
46
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



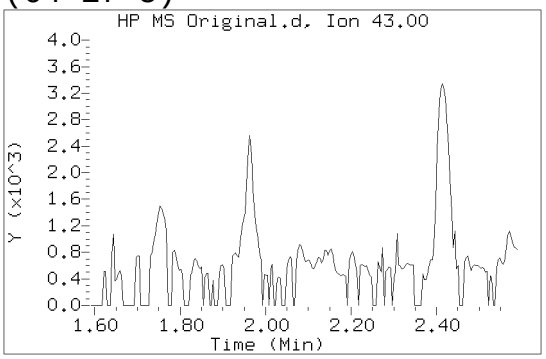
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060603.d
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Ethanol (64-17-5)

Reason Code:

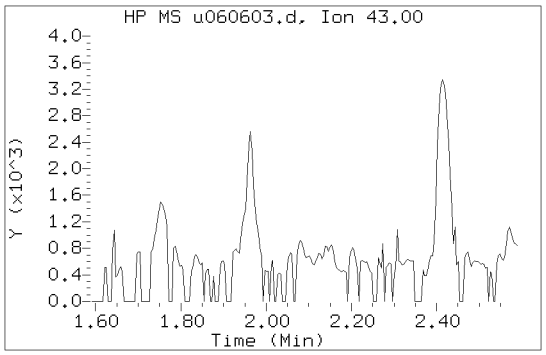
BEFORE

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

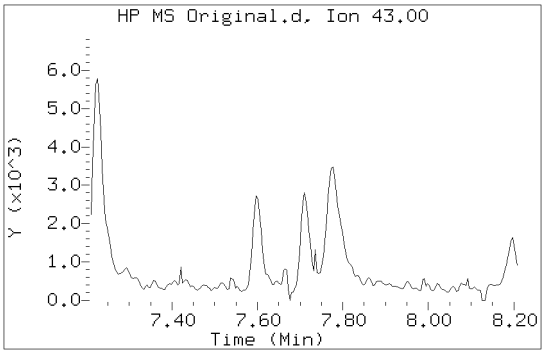


n-Butyl acetate (123-86-4)

Reason Code:

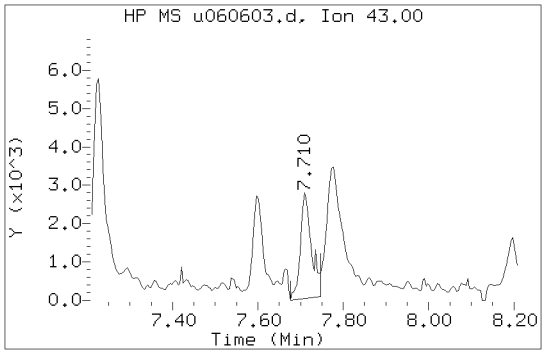
BEFORE

MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



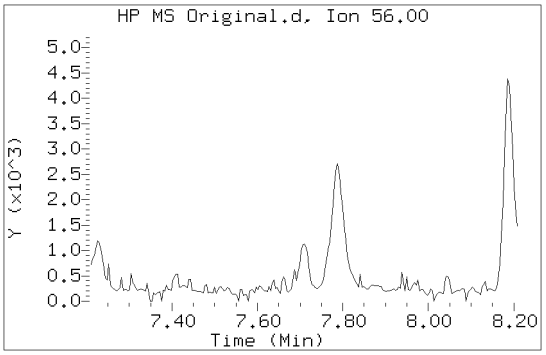
AFTER

MASS
43
AREA
5135
HEIGHT
2763
21-Jun-2023
13:47
linh
pha



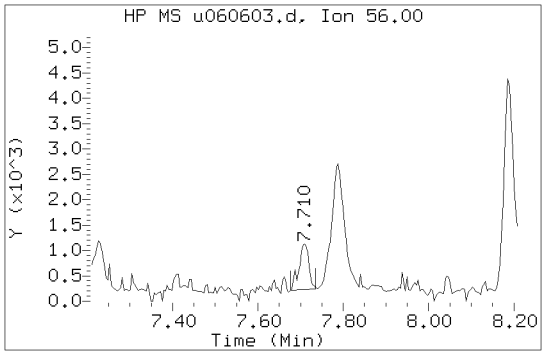
BEFORE

MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



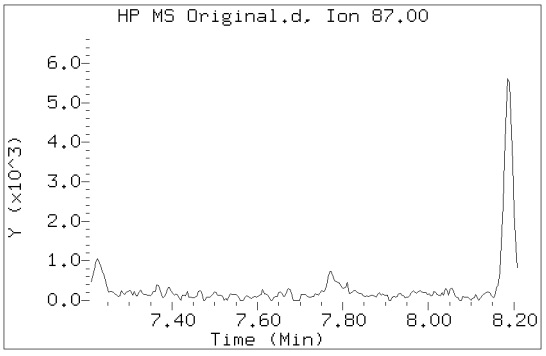
AFTER

MASS
56
AREA
1504
HEIGHT
896
21-Jun-2023
13:47
linh
pha



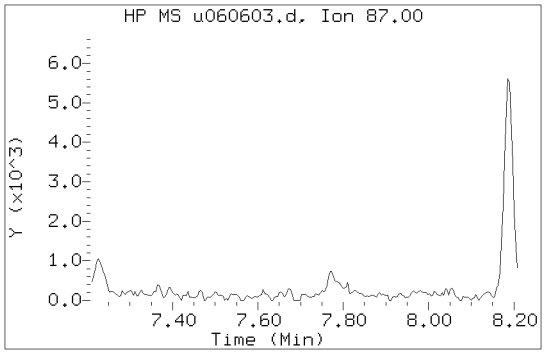
BEFORE

MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



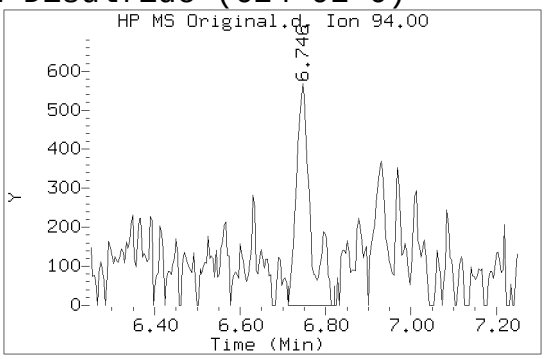
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Dimethyl Disulfide (624-92-0)

Reason Code:

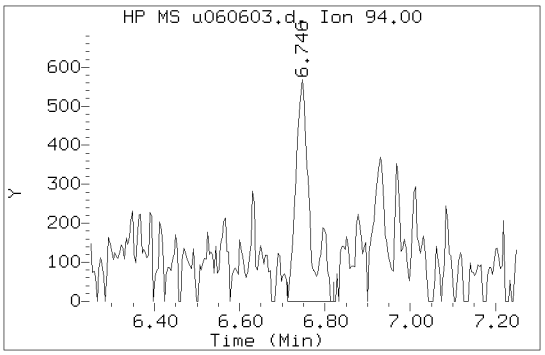
BEFORE

MASS
94
AREA
1341
HEIGHT
568
08-Jun-2023
14:56
linh
pham



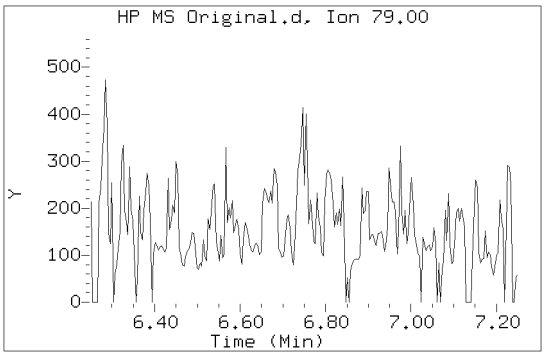
AFTER

MASS
94
AREA
1341
HEIGHT
568
21-Jun-2023
13:47
linh
pha



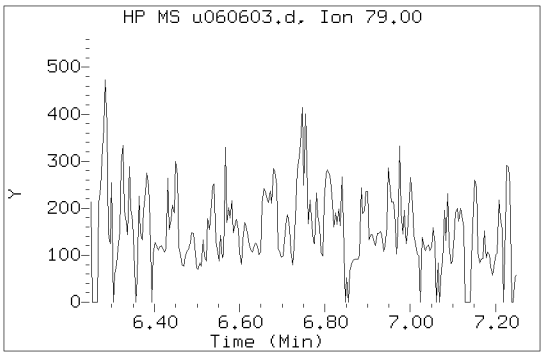
BEFORE

MASS
79
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



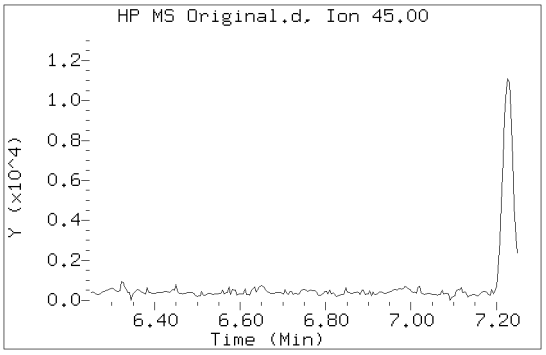
AFTER

MASS
79
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



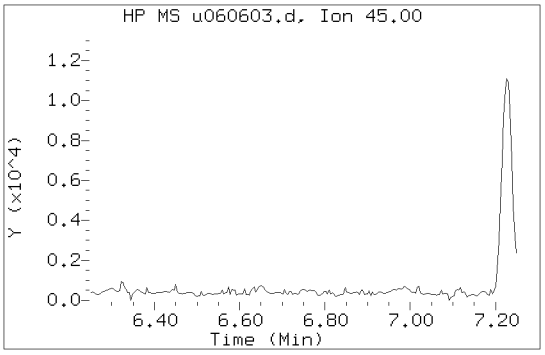
BEFORE

MASS
45
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
45
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

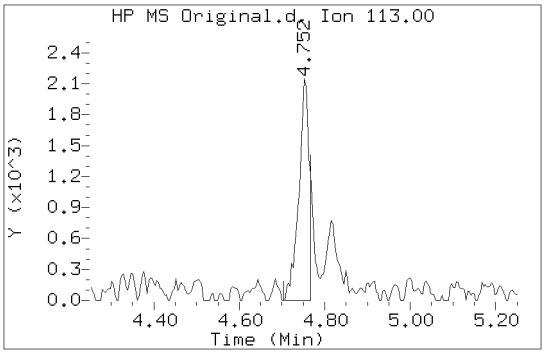


Dibromofluoromethane (1868-53-7)

Reason Code:

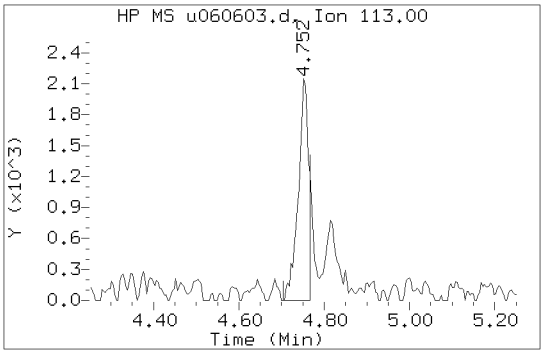
BEFORE

MASS
113
AREA
3644
HEIGHT
2149
08-Jun-2023
14:56
linh
pham



AFTER

MASS
113
AREA
3644
HEIGHT
2149
21-Jun-2023
13:47
linh
pha



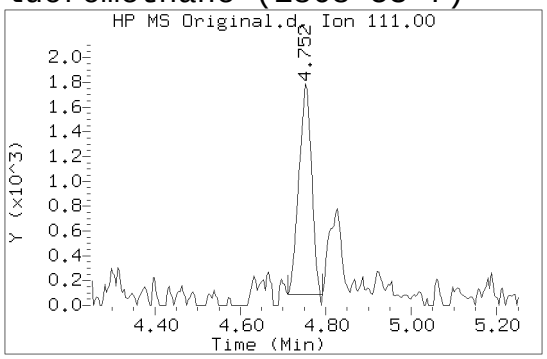
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Dibromofluoromethane (1868-53-7)

Reason Code:

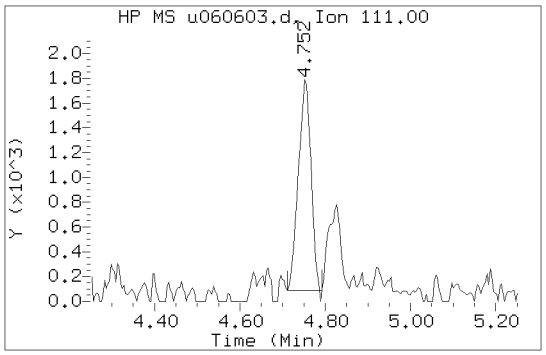
BEFORE

MASS
111
AREA
3541
HEIGHT
1703
08-Jun-2023
14:56
linh
pham



AFTER

MASS
111
AREA
3541
HEIGHT
1703
21-Jun-2023
13:47
linh
pha

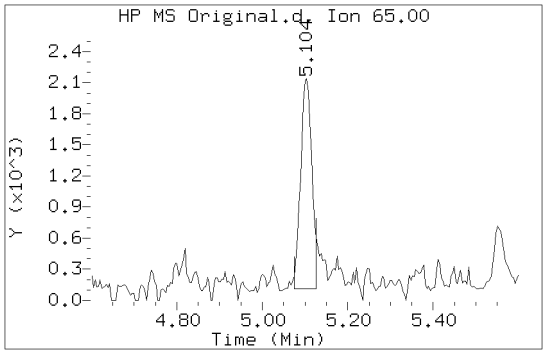


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

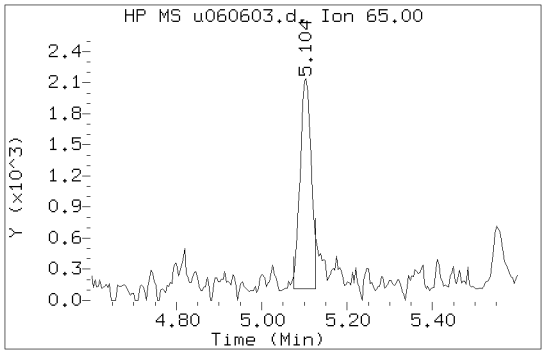
BEFORE

MASS
65
AREA
3795
HEIGHT
2029
08-Jun-2023
14:56
linh
pham



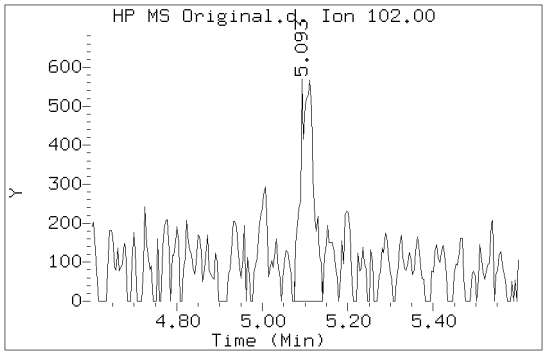
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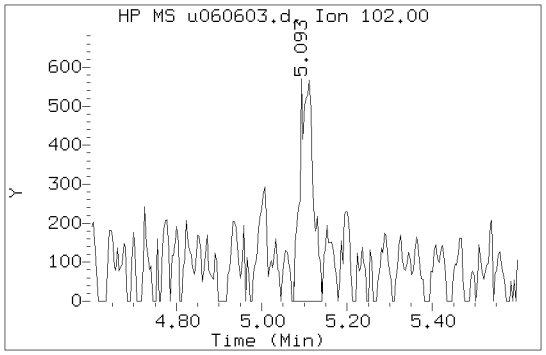
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AFTER

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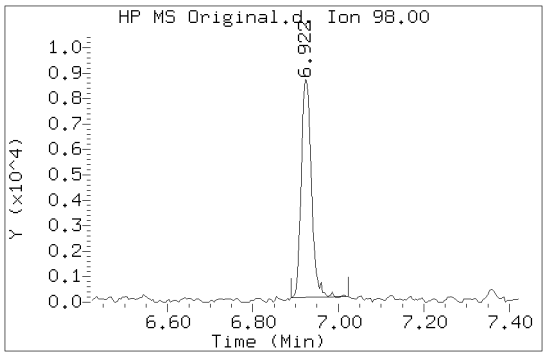


Toluene-d8 (2037-26-5)

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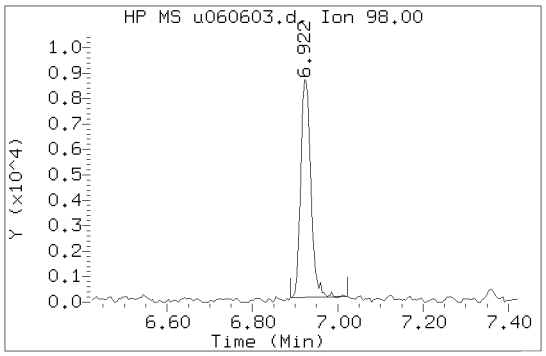
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08-Jun-2023
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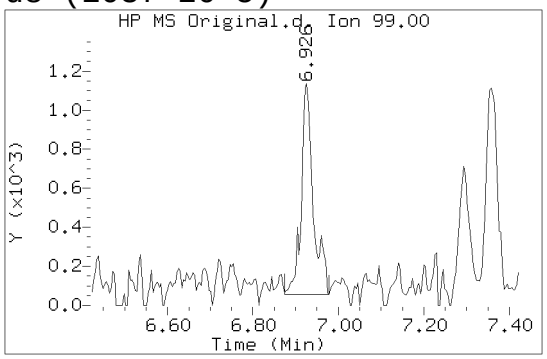
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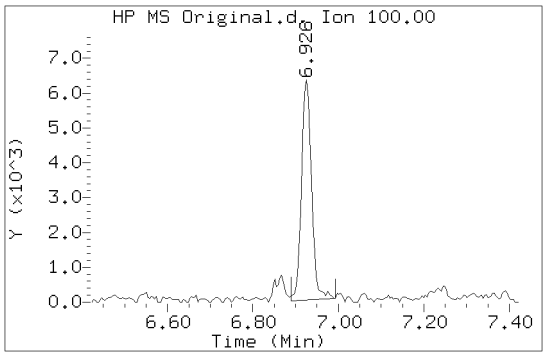


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InstruID : VOA9.i
LabSampID : VSTD000.5

Toluene-d8 (2037-26-5)

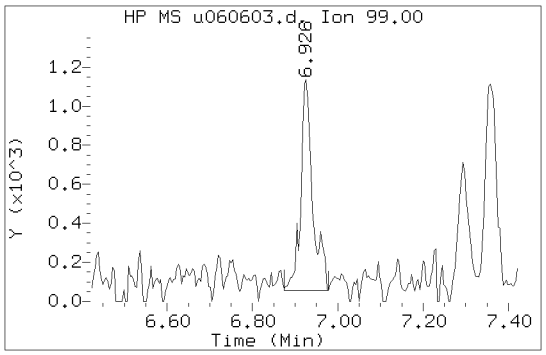


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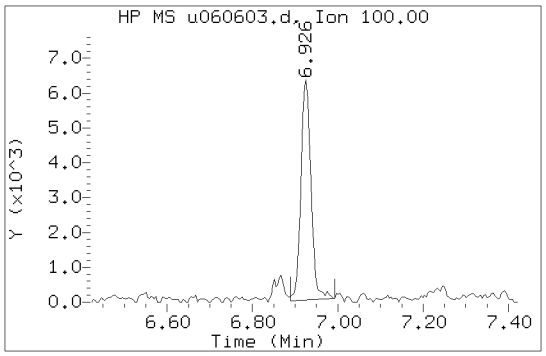


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Reason Code:

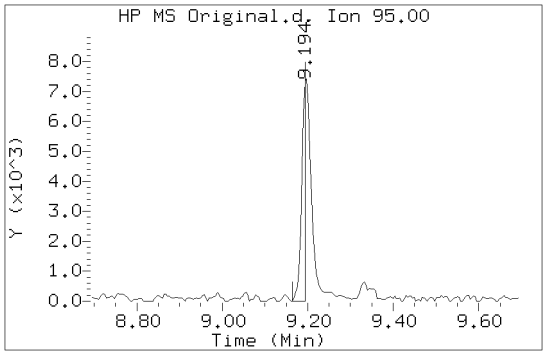


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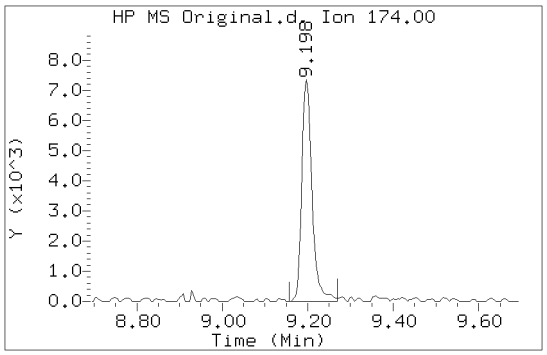


AFTER
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4-Bromofluorobenzene (460-00-4)

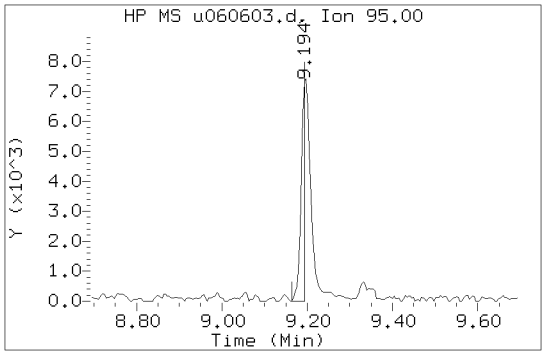


BEFORE
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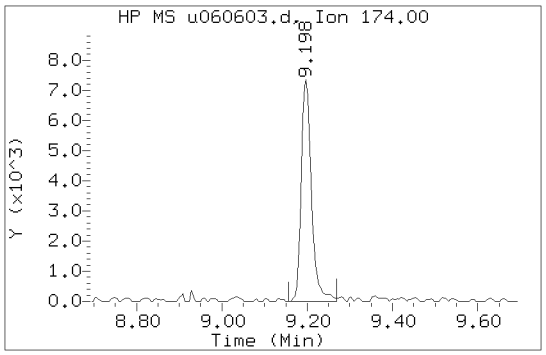


BEFORE
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AREA
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HEIGHT
7353
08-Jun-2023
14:56
linh
pham

Reason Code:



AFTER
MASS
95
AREA
5007
HEIGHT
7327
21-Jun-2023
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pha



AFTER
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21-Jun-2023
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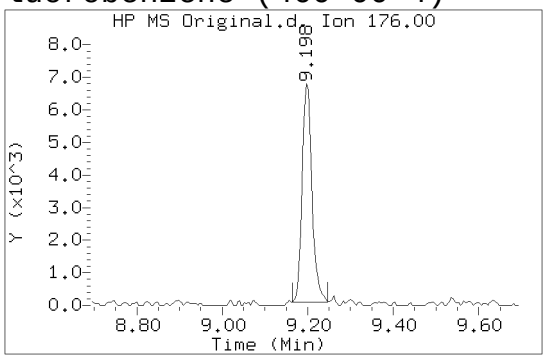
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LabSampID : VSTD000.5

4-Bromofluorobenzene (460-00-4)

Reason Code:

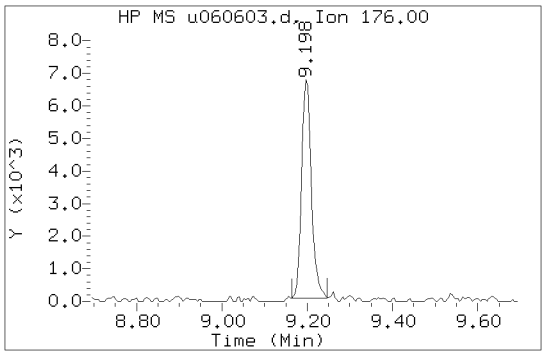
BEFORE

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08-Jun-2023
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linh
pham



AFTER

MASS
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10910
HEIGHT
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21-Jun-2023
13:47
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D Page 1
Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 06-JUN-2023 13:06
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 13:06 Cal File: U060606.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	661055	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.156	(0.240)	31172	5.00000	5.17
3 Chloromethane	50	1.287	1.287	(0.268)	62455	5.00000	5.08
5 Vinyl Chloride	62	1.370	1.370	(0.285)	36493	5.00000	5.21
6 Bromomethane	94	1.613	1.613	(0.335)	23995	5.00000	5.08
7 Chloroethane	64	1.692	1.692	(0.352)	23603	5.00000	5.01
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	41967	5.00000	5.22
9 Acrolein	56	2.258	2.258	(0.469)	3393	10.0000	9.67(aM)
10 Acetone	43	2.401	2.401	(0.499)	31915	10.0000	9.15
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	25586	5.00000	5.09
15 Iodomethane	142	2.461	2.461	(0.512)	10875	10.0000	12.46(M)
16 Acrylonitrile	53	3.060	3.060	(0.636)	26401	10.0000	10.76
17 Methylene Chloride	84	2.787	2.787	(0.579)	34262	5.00000	4.77(a)
18 Methyl tert-butyl ether	73	3.075	3.075	(0.639)	77272	5.00000	5.02
19 Carbon Disulfide	76	2.513	2.513	(0.522)	137840	10.0000	10.27
20 trans-1,2-Dichloroethene	96	3.049	3.049	(0.634)	27553	5.00000	5.04
21 Vinyl Acetate	43	3.604	3.604	(0.749)	174288	10.0000	10.47
22 1,1-Dichloroethane	63	3.507	3.507	(0.729)	52777	5.00000	5.08
24 2-Butanone	43	4.264	4.264	(0.886)	29852	10.0000	9.90
26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	33762	5.00000	5.28
27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	34046	5.00000	5.21

28	Chloroform	83	4.567	4.567 (0.949)	56388	5.00000	5.22
29	Bromochloromethane	128	4.462	4.462 (0.928)	18916	5.00000	5.17

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D Page 2
Report Date: 21-Jun-2023 13:47

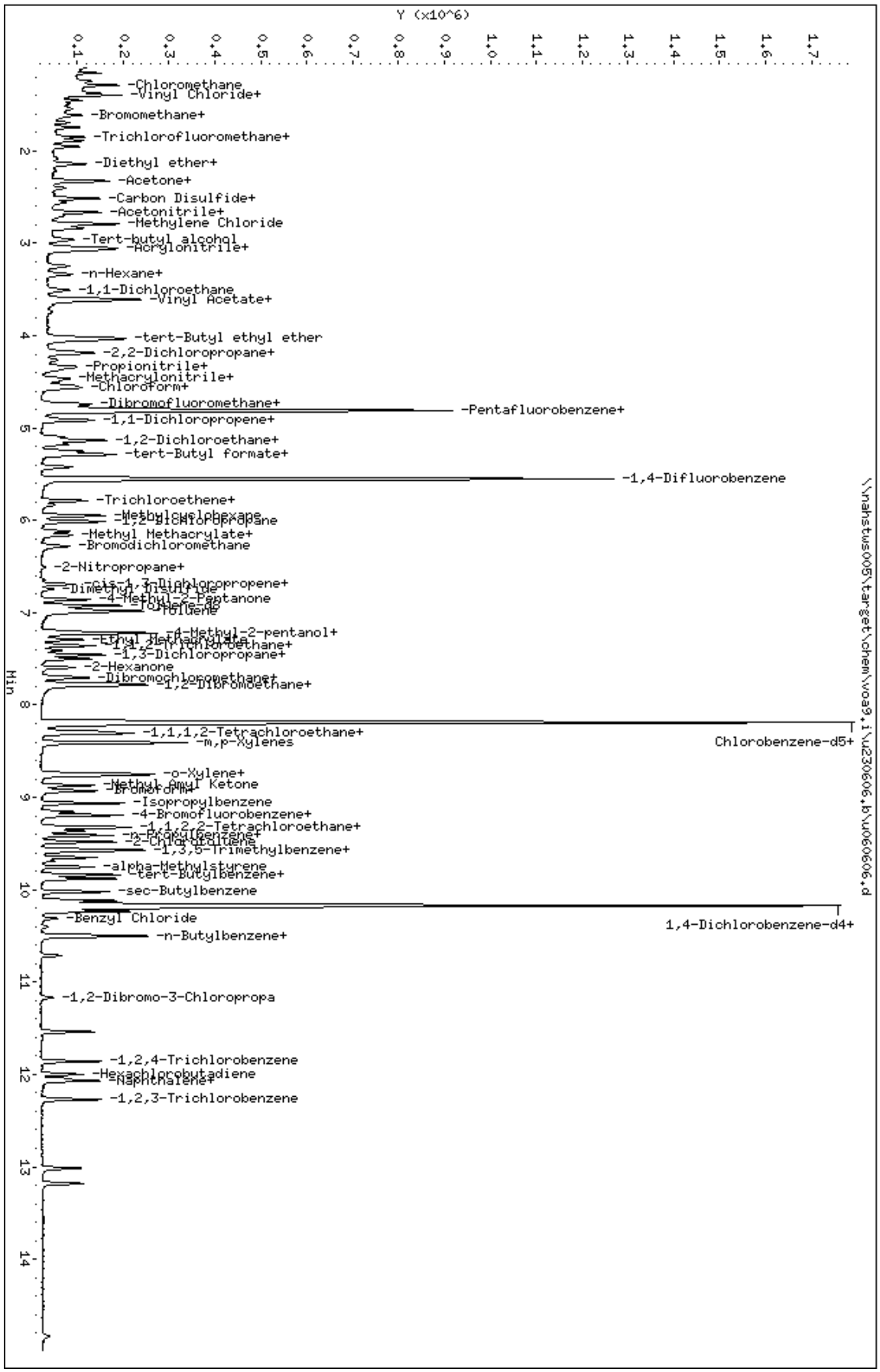
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	30229	5.00000	5.16
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	40381	5.00000	4.90(a)
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	35687	5.00000	4.94(a)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	44658	5.00000	5.23
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	30773	5.00000	4.63(a)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	34153	5.00000	5.08
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	985343	50.0000	
	37 Benzene	78	5.137	5.137	(0.926)	124450	5.00000	5.24
	38 Trichloroethene	130	5.786	5.786	(1.043)	36191	5.00000	5.25
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	36599	5.00000	4.94(a)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	32316	5.00000	5.09
	44 Dibromomethane	93	6.119	6.119	(1.103)	20983	5.00000	5.18
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	69130	10.0000	10.20
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	37734	5.00000	5.56
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	930383	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	106553	5.00000	5.06(M)
	50 Toluene	91	6.982	6.982	(0.853)	128415	5.00000	5.08
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	31811	5.00000	5.68(M)
	52 2-Hexanone	43	7.593	7.593	(0.928)	46135	10.0000	9.77
	53 1,1,2-Trichloroethane	83	7.356	7.356	(0.899)	27005	5.00000	5.14
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	55865	5.00000	5.20
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	28715	5.00000	4.60(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	31033	5.00000	5.04
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	31859	5.00000	4.91(a)
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	23998	5.00000	4.74(aM)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	93304	5.00000	5.18
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	29452	5.00000	4.75(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	40417	5.00000	4.82(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	87802	10.0000	8.85(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	45979	5.00000	4.69(a)
	64 Styrene	104	8.762	8.762	(1.071)	64961	5.00000	4.17(a)
	66 Bromoform	173	8.920	8.920	(1.090)	18587	5.00000	4.42(a)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	111398	5.00000	4.73(a)
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	44946	5.00000	5.11
$	69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	49215	5.00000	5.13
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	467357	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	38304	5.00000	4.95(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	110045	5.00000	4.48(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	38901	5.00000	4.93(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	78874	5.00000	4.68(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	85816	5.00000	4.97(a)
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	94195	5.00000	4.93(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	79517	5.00000	4.81(a)
	79 1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	85616	5.00000	4.86(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	96016	5.00000	4.58(a)
	82 p-Isopropyltoluene	119	10.145	10.145	(0.997)	79695	5.00000	4.54(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	67753	5.00000	5.05
	84 1,4-Dichlorobenzene	146	10.190	10.190	(1.002)	73343	5.00000	5.13
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	70944	5.00000	4.72(a)
	88 1,2-Dichlorobenzene	146	10.505	10.505	(1.033)	65904	5.00000	4.90(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	5840	5.00000	4.55(a)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	42718	5.00000	4.62(a)

92 Naphthalene	128	12.069	12.069 (1.186)	95946	5.00000	4.47(a)
93 1,2,3-Trichlorobenzene	180	12.271	12.271 (1.206)	42734	5.00000	4.73(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
M 94 1,2-Dichloroethylene (total)	96				61599	10.0000	10.26
M 95 Xylenes (total)	106				133781	15.0000	13.54(a)
135 1,4-Dioxane	88	6.172	6.172	(1.283)	12691	100.000	96.68(a)
141 Cyclohexane	56	4.777	4.777	(0.993)	37840	5.00000	4.93(aM)
138 Freon TF	101	2.326	2.326	(0.483)	23128	5.00000	5.20
140 1,3-Butadiene	54	1.396	1.396	(0.290)	32480	5.00000	5.18
147 Methylcyclohexane	55	5.947	5.947	(1.072)	68659	5.00000	5.02
146 Methyl Acetate	43	2.708	2.708	(0.563)	27090	5.00000	4.86(a)
148 Tert-Butyl alcohol	59	2.963	2.963	(0.616)	66425	100.000	104.33
149 Isopropyl Alcohol	45	2.558	2.558	(0.532)	41674	100.000	96.43
72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	5142	5.00000	4.79(M)
12 Isobutyl Alcohol	43	5.287	5.287	(1.099)	83135	100.000	96.79(M)
13 Acetonitrile	39	2.663	2.663	(0.554)	35522	50.0000	49.63
14 Allyl Chloride	41	2.667	2.667	(0.554)	87674	5.00000	5.10
25 Methacrylonitrile	41	4.492	4.492	(0.934)	18250	5.00000	4.67
40 Methyl Methacrylate	41	6.157	6.157	(1.280)	26729	5.00000	4.70
4 Propionitrile	54	4.335	4.335	(0.901)	49866	50.0000	52.20(a)
136 n-Hexane	57	3.334	3.334	(0.693)	28289	5.00000	5.36
194 Acetaldehyde	44	1.452	1.452	(0.302)	14773	20.0000	16.20(M)
131 Methyl Acrylate	55	4.369	4.369	(0.908)	32767	5.00000	4.68(aM)
200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	15263	5.00000	6.61(M)
23 Chloroprene	53	2.150	2.150	(0.447)	9849	5.00000	4.67(aM)
49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	44828	5.00000	5.18
166 1,2,3-Trimethylbenzene	105	10.235	10.235	(1.006)	96136	5.00000	5.35
167 Ethanol	45	2.075	2.075	(0.431)	9968	100.000	100.77
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	115572	5.00000	5.06
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	33946	5.00000	7.13
142 Tetrahydrofuran	42	4.541	4.541	(0.944)	13490	10.0000	9.46
156 Diisopropyl ether	45	3.615	3.615	(0.751)	94647	5.00000	5.13
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	137040	100.000	93.52
150 Allyl alcohol	57	3.334	3.334	(0.693)	27611	100.000	105.45(M)
86 Benzyl Chloride	91	10.310	10.310	(1.260)	22092	5.00000	7.16
162 Butyl acrylate	55	8.736	8.736	(1.067)	52526	5.00000	4.77(a)
139 Diethyl ether	59	2.135	2.135	(0.444)	23079	5.00000	5.16
203 2-Ethylhexyl Acrylate	55	12.042	12.042	(1.184)	19373	5.00000	6.09
134 Cyclohexanone	55	9.156	9.156	(0.900)	28189	100.000	97.28(a)
130 Ethyl Acetate	43	4.264	4.264	(0.886)	29376	5.00000	4.97(aM)
189 n-Butyl acetate	43	7.709	7.709	(0.942)	50116	5.00000	4.73(aM)
182 Epichlorohydrin	57	6.629	6.629	(1.195)	2028	20.0000	31.12(M)
132 n-Butanol	56	5.831	5.831	(1.212)	16483	100.000	86.46(a)

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 : 06-JUN-2023 13:06
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

\\nahstws005\target\chem\voa9,i\u230606,b\u060606,d

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

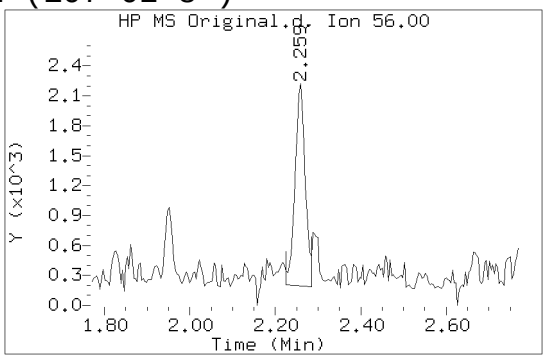
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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Acrolein (107-02-8)

Reason Code:

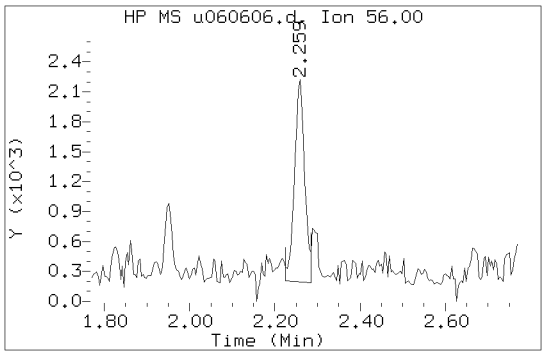
BEFORE

MASS
56
AREA
3393
HEIGHT
2027
08-Jun-2023
14:56
linh
pham



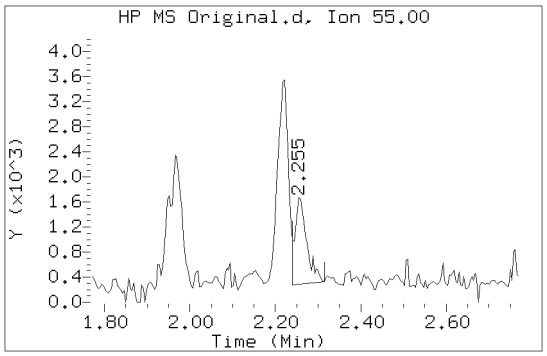
AFTER

MASS
56
AREA
3393
HEIGHT
2027
21-Jun-2023
13:47
linh
pha



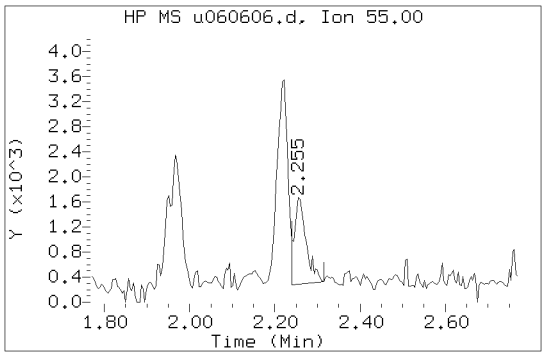
BEFORE

MASS
55
AREA
2699
HEIGHT
1383
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
2699
HEIGHT
1383
21-Jun-2023
13:47
linh
pha

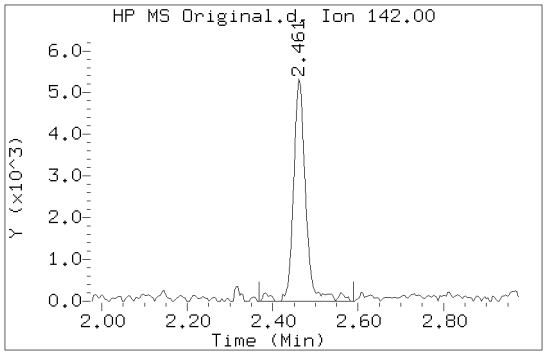


Iodomethane (74-88-4)

Reason Code:

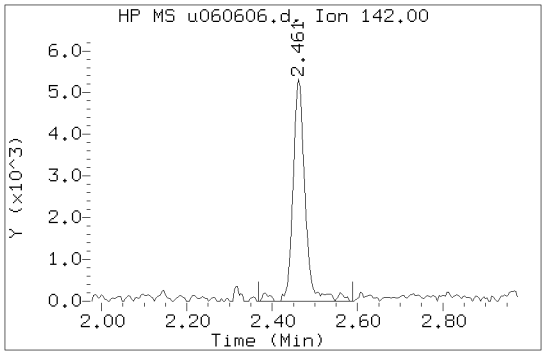
BEFORE

MASS
142
AREA
10875
HEIGHT
5328
08-Jun-2023
14:56
linh
pham



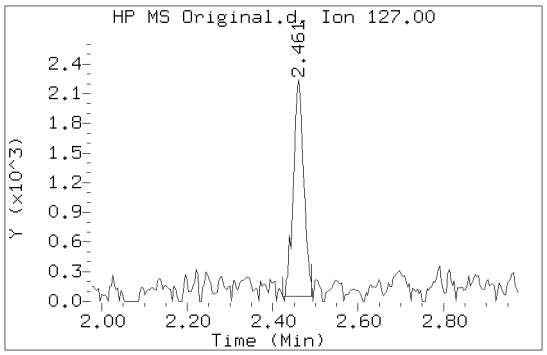
AFTER

MASS
142
AREA
10875
HEIGHT
5328
21-Jun-2023
13:47
linh
pha



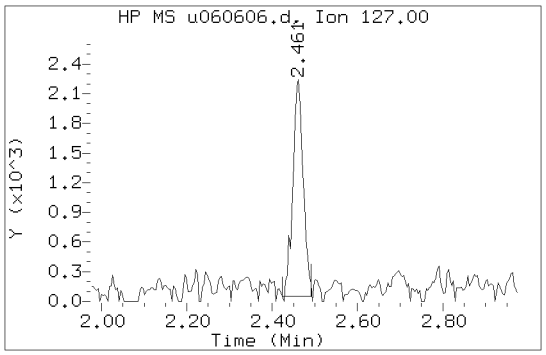
BEFORE

MASS
127
AREA
3748
HEIGHT
2188
08-Jun-2023
14:56
linh
pham



AFTER

MASS
127
AREA
3748
HEIGHT
2188
21-Jun-2023
13:47
linh
pha



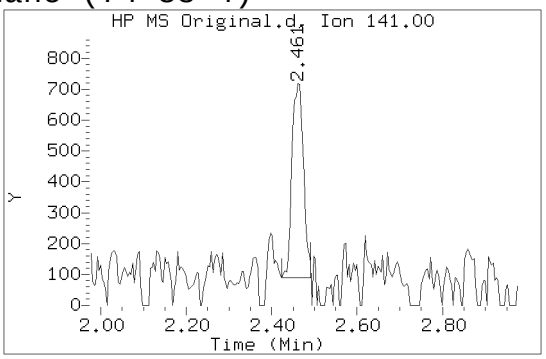
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Iodomethane (74-88-4)

Reason Code:

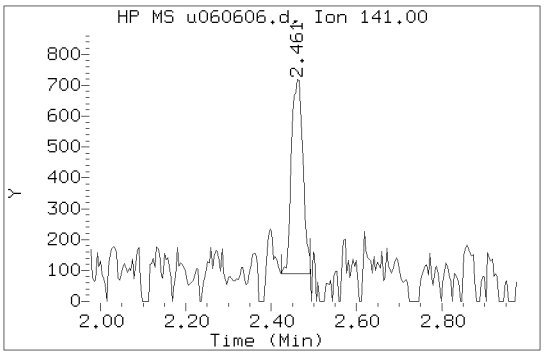
BEFORE

MASS
141
AREA
1206
HEIGHT
629
08-Jun-2023
14:56
linh
pham



AFTER

MASS
141
AREA
1206
HEIGHT
629
21-Jun-2023
13:47
linh
pha

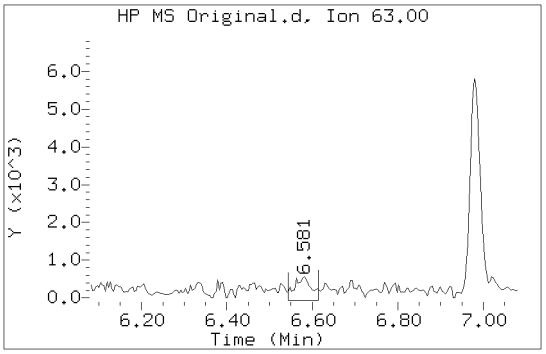


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

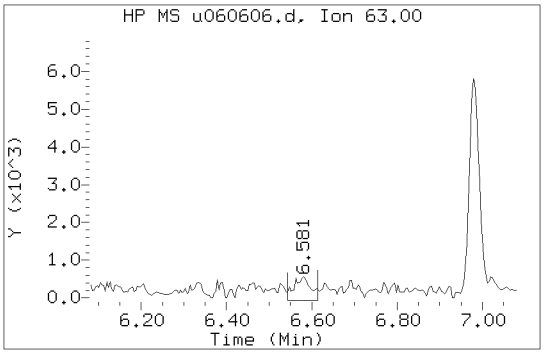
BEFORE

MASS
63
AREA
1764
HEIGHT
623
08-Jun-2023
14:56
linh
pham



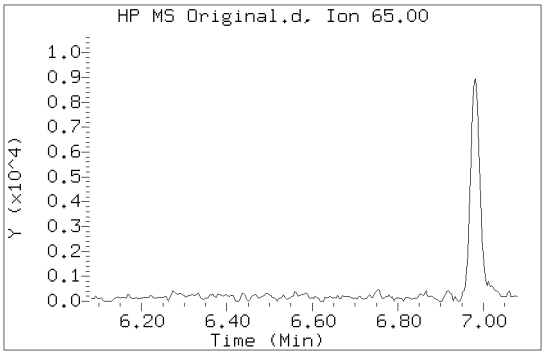
AFTER

MASS
63
AREA
1764
HEIGHT
623
21-Jun-2023
13:47
linh
pha



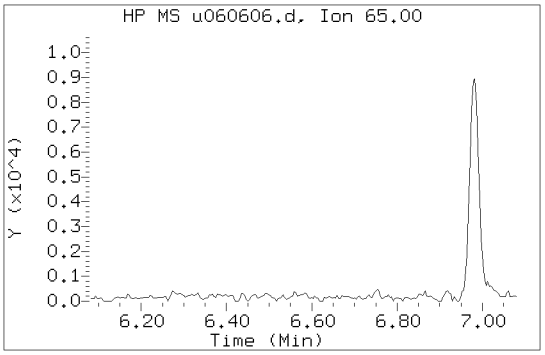
BEFORE

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



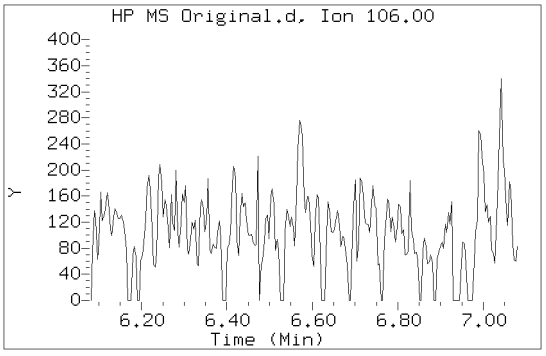
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



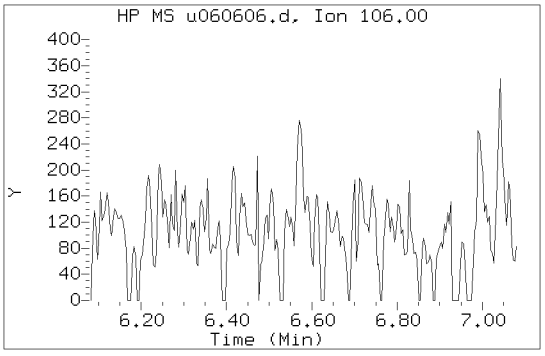
BEFORE

MASS
106
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

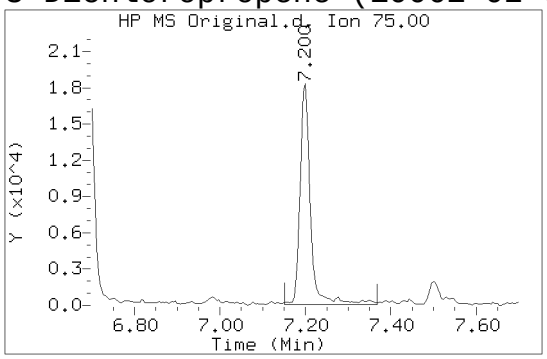


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

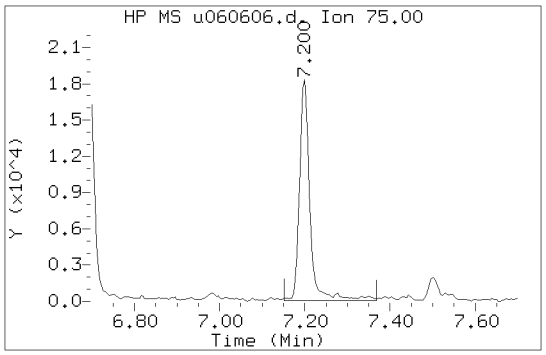
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

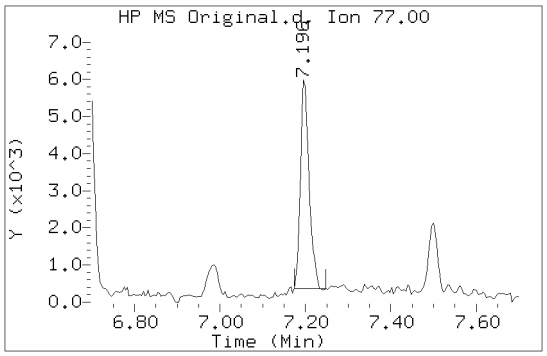
BEFORE
MASS
75
AREA
31811
HEIGHT
18277
08-Jun-2023
14:56
linh
pham



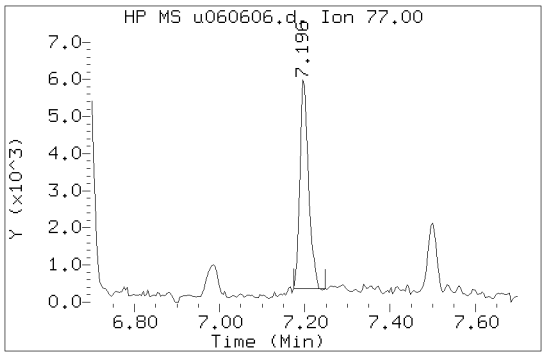
AFTER
MASS
75
AREA
31811
HEIGHT
18277
21-Jun-2023
13:47
linh
pha



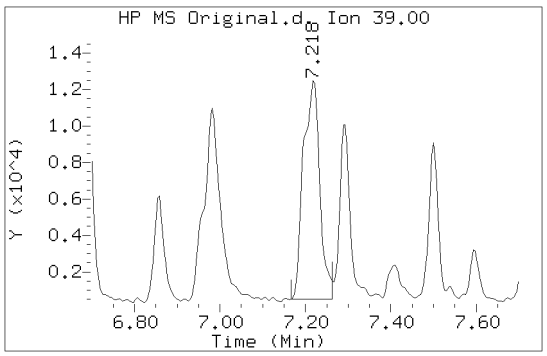
BEFORE
MASS
77
AREA
8164
HEIGHT
5630
08-Jun-2023
14:56
linh
pham



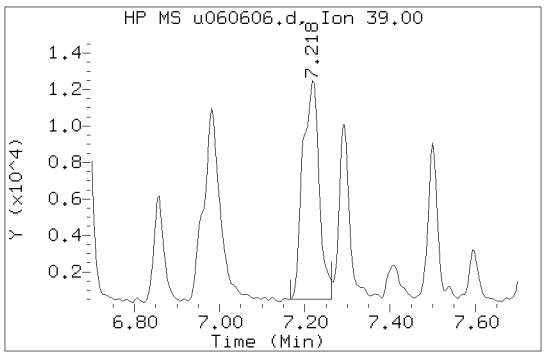
AFTER
MASS
77
AREA
8164
HEIGHT
5630
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
39
AREA
32255
HEIGHT
11964
08-Jun-2023
14:56
linh
pham



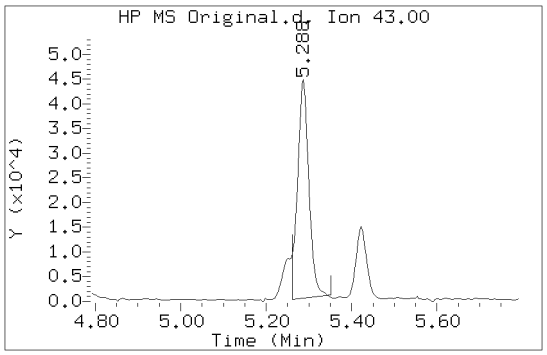
AFTER
MASS
39
AREA
32255
HEIGHT
11964
21-Jun-2023
13:47
linh
pha



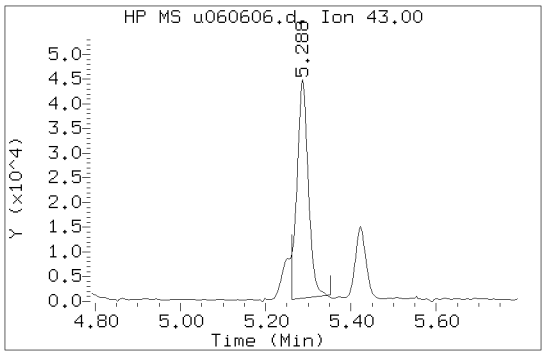
Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE
MASS
43
AREA
83135
HEIGHT
44258
08-Jun-2023
14:56
linh
pham



AFTER
MASS
43
AREA
83135
HEIGHT
44258
21-Jun-2023
13:47
linh
pha

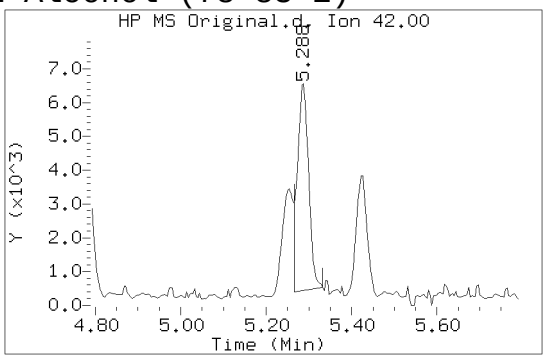


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Isobutyl Alcohol (78-83-1)

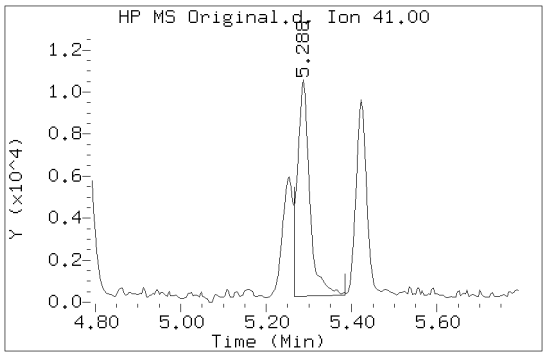
BEFORE

MASS
42
AREA
11630
HEIGHT
6123
08-Jun-2023
14:56
linh
pham



BEFORE

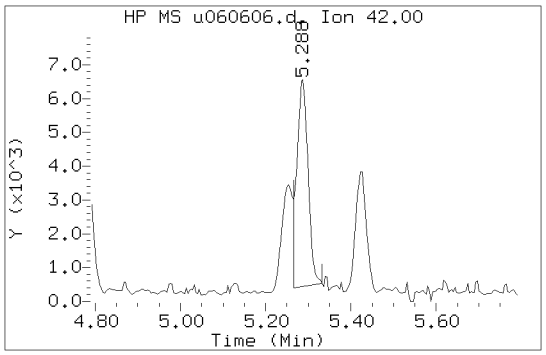
MASS
41
AREA
21244
HEIGHT
10293
08-Jun-2023
14:56
linh
pham



Reason Code:

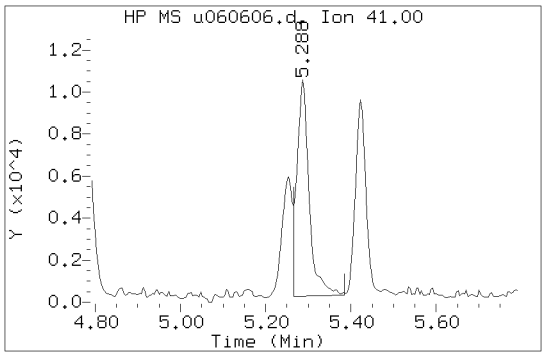
AFTER

MASS
42
AREA
11630
HEIGHT
6123
21-Jun-2023
13:47
linh
pha



AFTER

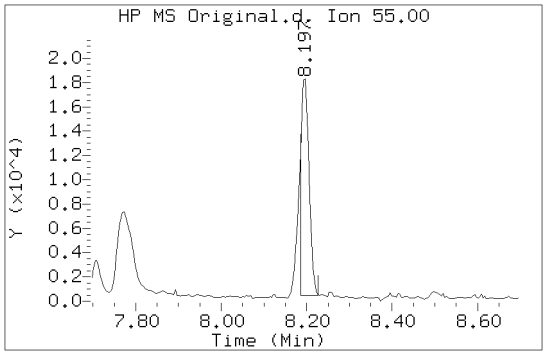
MASS
41
AREA
21244
HEIGHT
10293
21-Jun-2023
13:47
linh
pha



1-Chlorohexane (544-10-5)

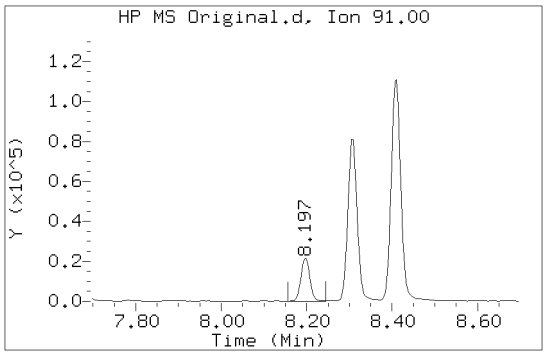
BEFORE

MASS
55
AREA
23998
HEIGHT
17834
08-Jun-2023
14:56
linh
pham



BEFORE

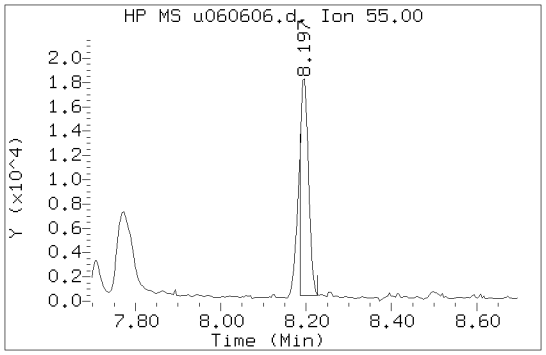
MASS
91
AREA
32110
HEIGHT
21527
08-Jun-2023
14:56
linh
pham



Reason Code:

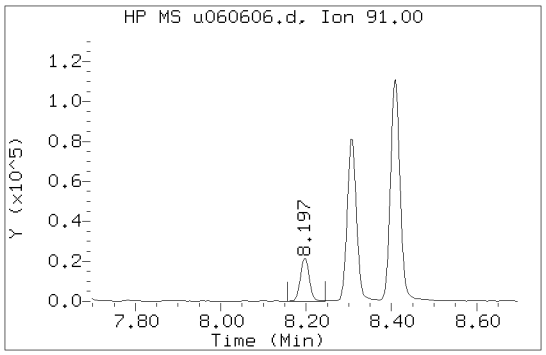
AFTER

MASS
55
AREA
23998
HEIGHT
17834
21-Jun-2023
13:47
linh
pha



AFTER

MASS
91
AREA
32110
HEIGHT
21527
21-Jun-2023
13:47
linh
pha



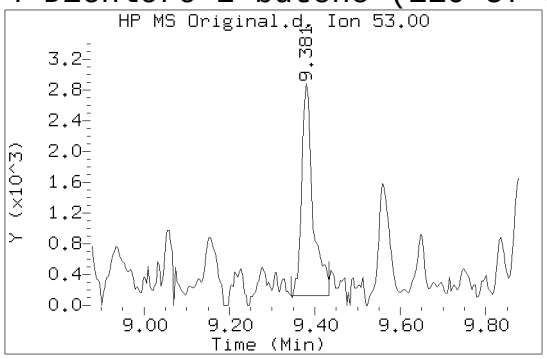
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

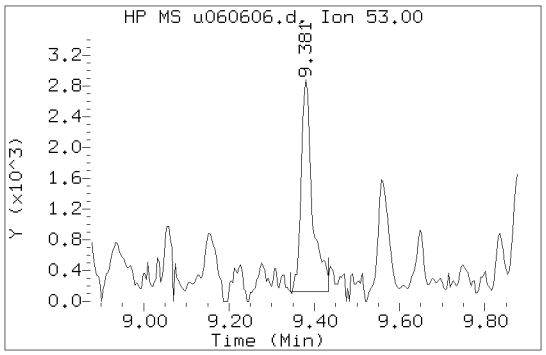
BEFORE

MASS
53
AREA
5142
HEIGHT
2759
08-Jun-2023
14:56
linh
pham



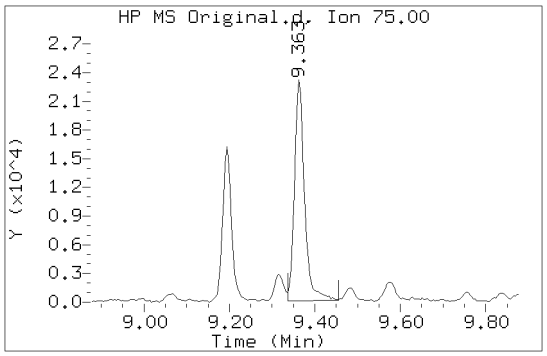
AFTER

MASS
53
AREA
5142
HEIGHT
2759
21-Jun-2023
13:47
linh
pha



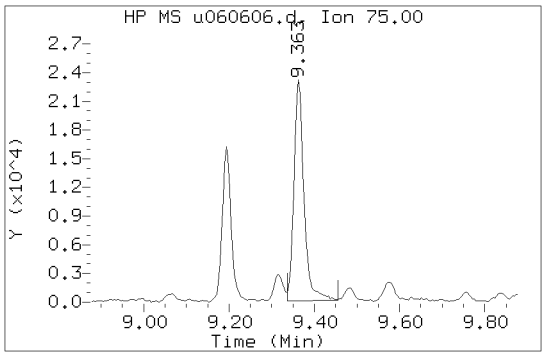
BEFORE

MASS
75
AREA
38567
HEIGHT
23094
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
38567
HEIGHT
23094
21-Jun-2023
13:47
linh
pha

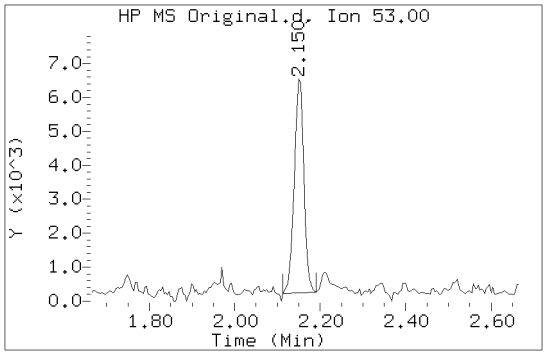


Chloroprene (126-99-8)

Reason Code:

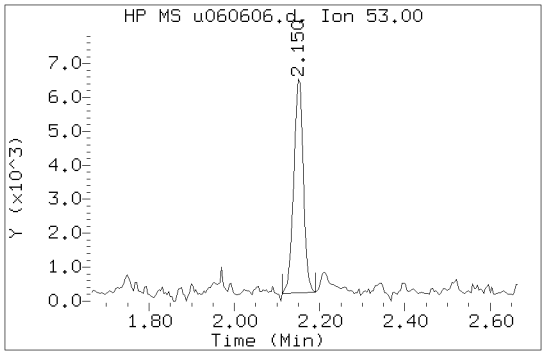
BEFORE

MASS
53
AREA
9849
HEIGHT
6297
08-Jun-2023
14:56
linh
pham



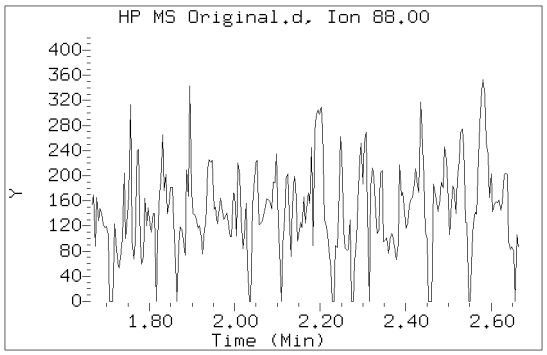
AFTER

MASS
53
AREA
9849
HEIGHT
6297
21-Jun-2023
13:47
linh
pha



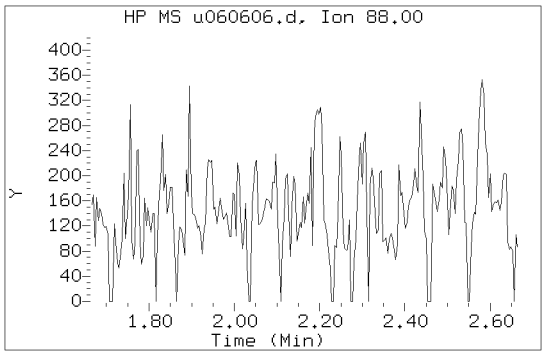
BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



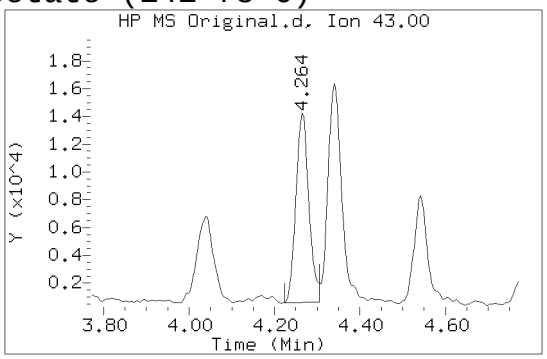
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060606.d
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

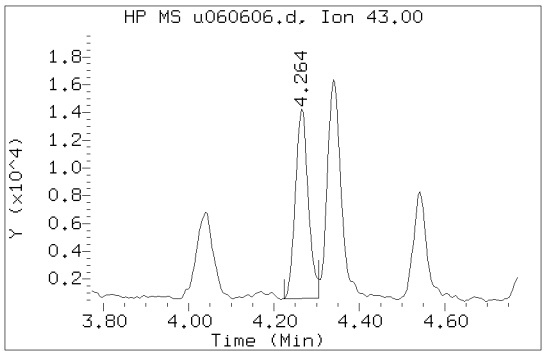
BEFORE

MASS
43
AREA
29376
HEIGHT
13625
08-Jun-2023
14:56
linh
pham



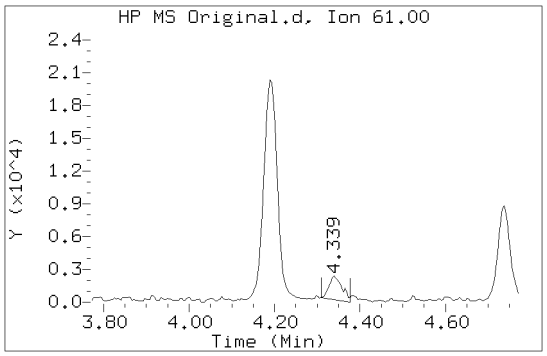
AFTER

MASS
43
AREA
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HEIGHT
13625
21-Jun-2023
13:47
linh
pha



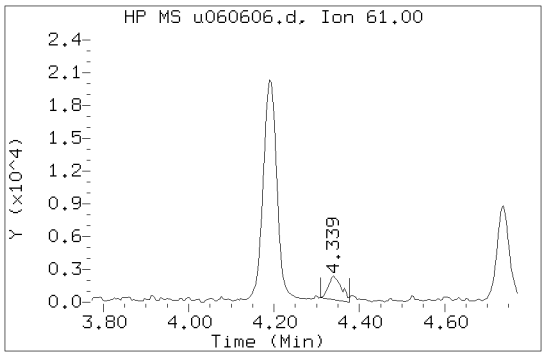
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HEIGHT
2196
08-Jun-2023
14:56
linh
pham



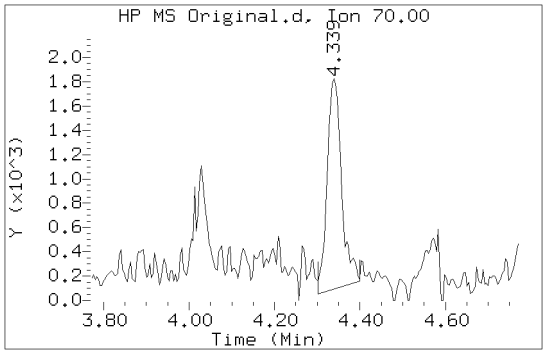
AFTER

MASS
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13:47
linh
pha



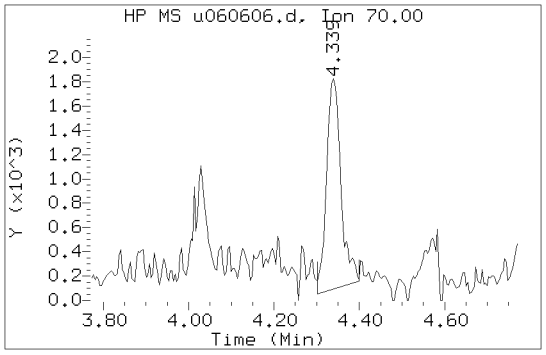
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HEIGHT
1731
08-Jun-2023
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pham



AFTER

MASS
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AREA
4078
HEIGHT
1731
21-Jun-2023
13:47
linh
pha

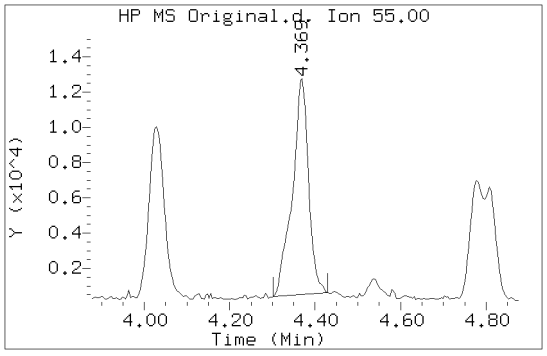


Methyl Acrylate (96-33-3)

Reason Code:

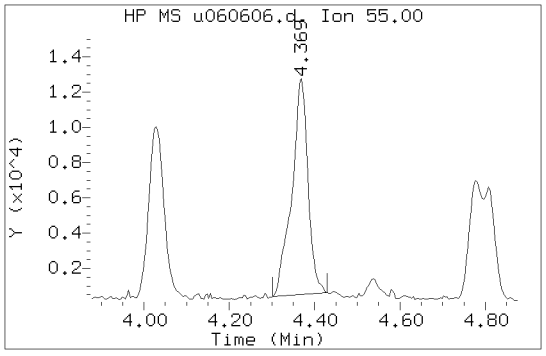
BEFORE

MASS
55
AREA
32767
HEIGHT
12241
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
32767
HEIGHT
12241
21-Jun-2023
13:47
linh
pha



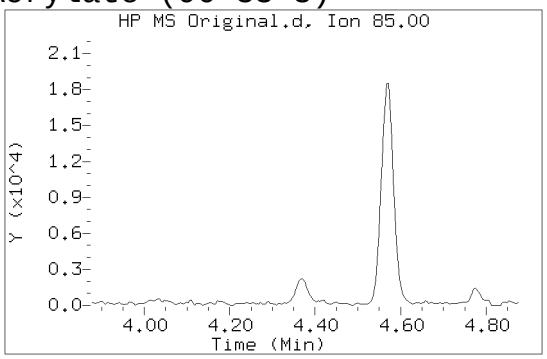
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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

Reason Code:

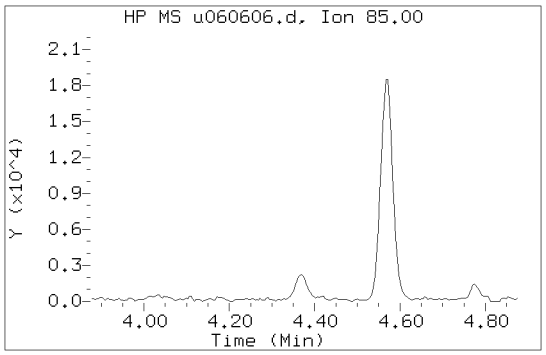
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MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

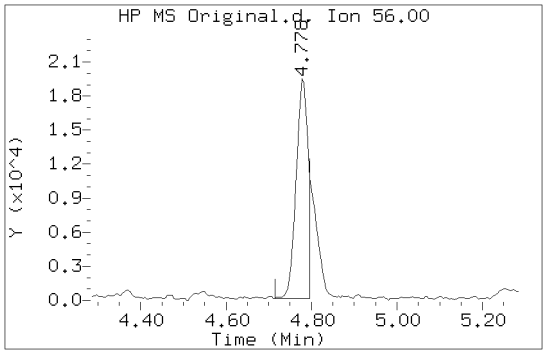


Cyclohexane (110-82-7)

Reason Code:

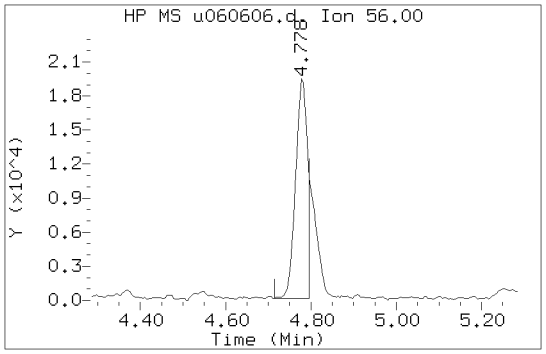
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37840
HEIGHT
19339
08-Jun-2023
14:56
linh
pham



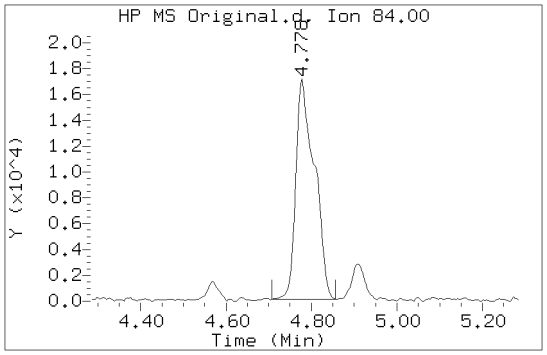
AFTER

MASS
56
AREA
37840
HEIGHT
19339
21-Jun-2023
13:47
linh
pha



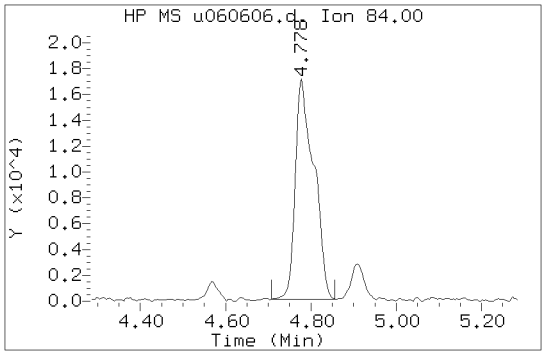
BEFORE

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84
AREA
52176
HEIGHT
17059
08-Jun-2023
14:56
linh
pham



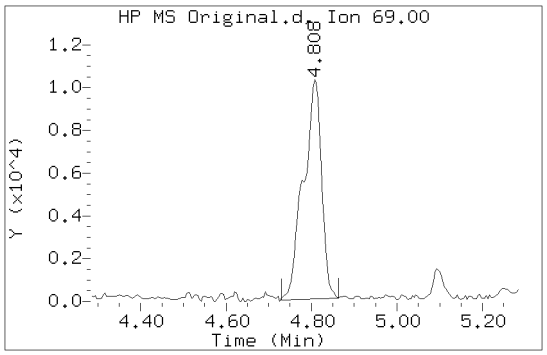
AFTER

MASS
84
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HEIGHT
17059
21-Jun-2023
13:47
linh
pha



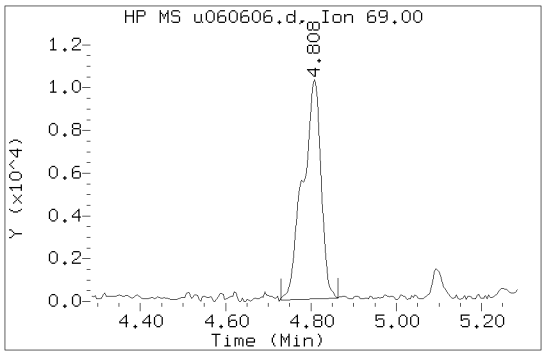
BEFORE

MASS
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HEIGHT
10254
08-Jun-2023
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linh
pham



AFTER

MASS
69
AREA
30602
HEIGHT
10254
21-Jun-2023
13:47
linh
pha



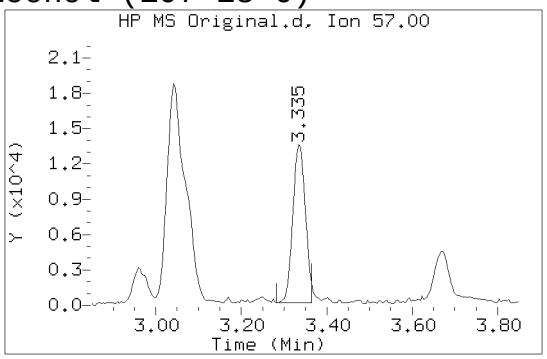
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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Allyl alcohol (107-18-6)

Reason Code:

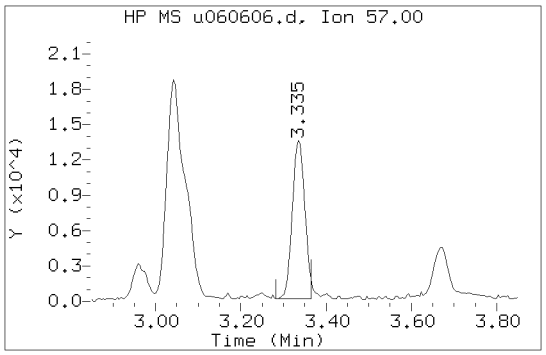
BEFORE

MASS
57
AREA
27611
HEIGHT
13437
08-Jun-2023
14:56
linh
pham



AFTER

MASS
57
AREA
27611
HEIGHT
13437
21-Jun-2023
13:47
linh
pha

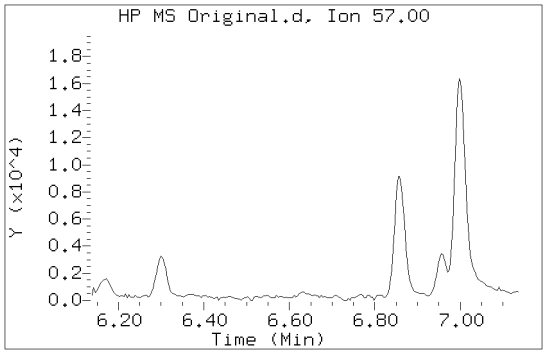


Epichlorohydrin (106-89-8)

Reason Code:

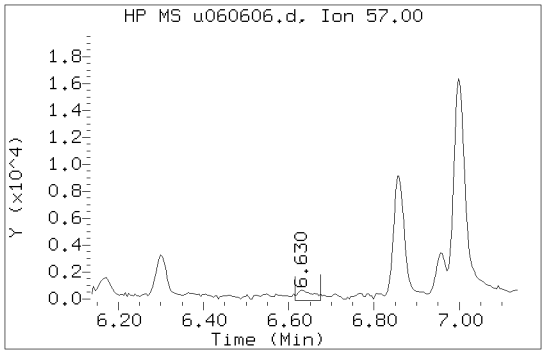
BEFORE

MASS
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AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
pham



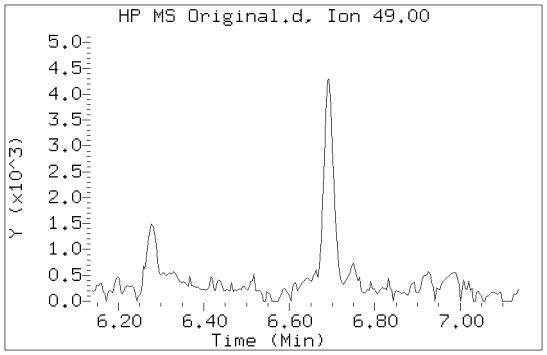
AFTER

MASS
57
AREA
2028
HEIGHT
746
21-Jun-2023
13:47
linh
pha



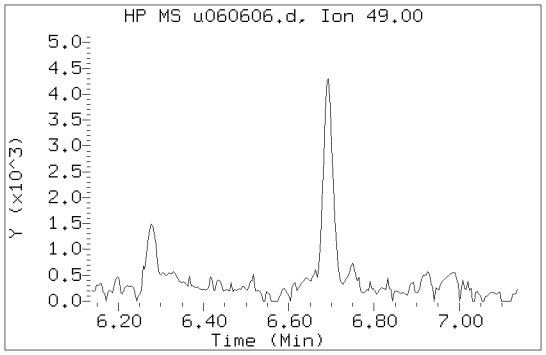
BEFORE

MASS
49
AREA
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HEIGHT
0
08-Jun-2023
14:56
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pham



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

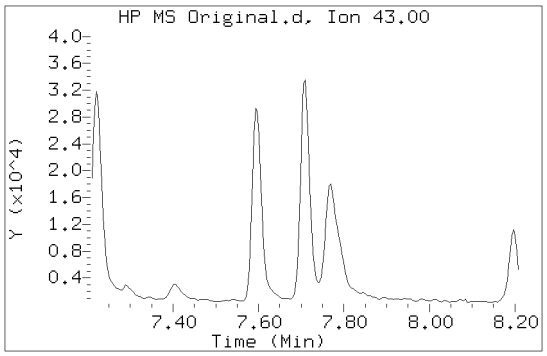


n-Butyl acetate (123-86-4)

Reason Code:

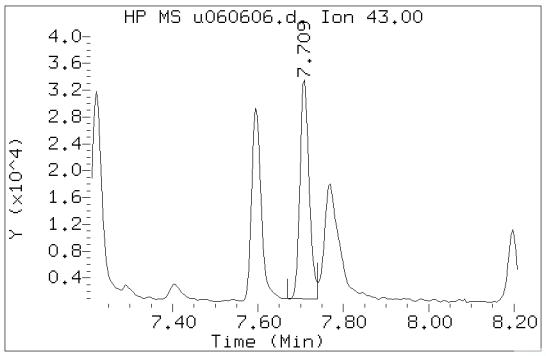
BEFORE

MASS
43
AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
50116
HEIGHT
32605
21-Jun-2023
13:47
linh
pha

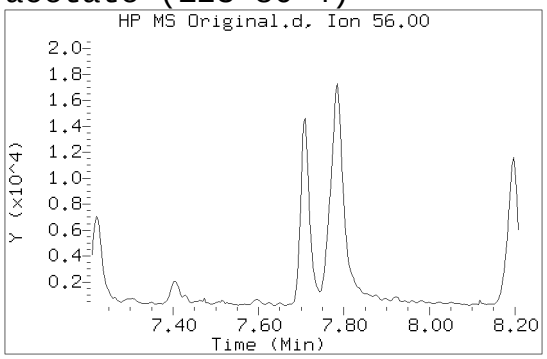


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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

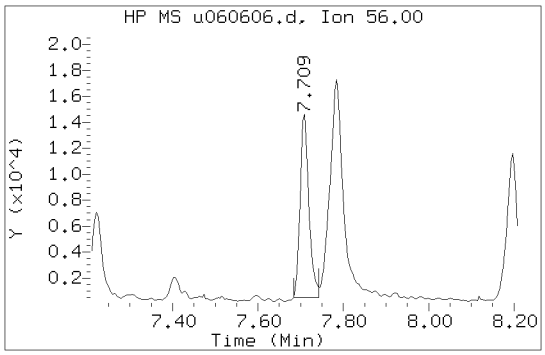
n-Butyl acetate (123-86-4)

Reason Code:

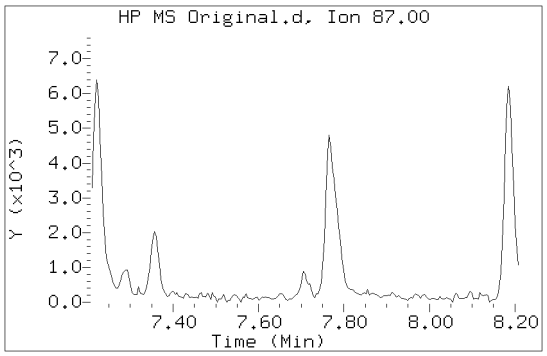
BEFORE
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HEIGHT
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08-Jun-2023
14:56
linh
pham



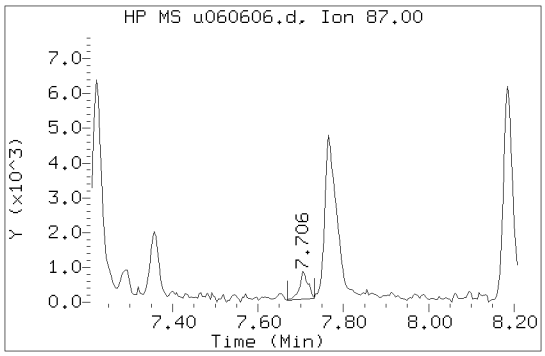
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AREA
20725
HEIGHT
14102
21-Jun-2023
13:47
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pha



BEFORE
MASS
87
AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
pham



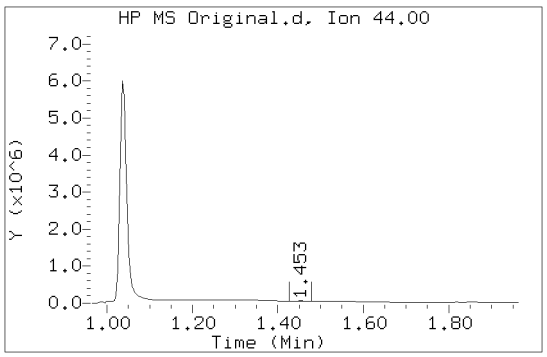
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1088
HEIGHT
786
21-Jun-2023
13:47
linh
pha



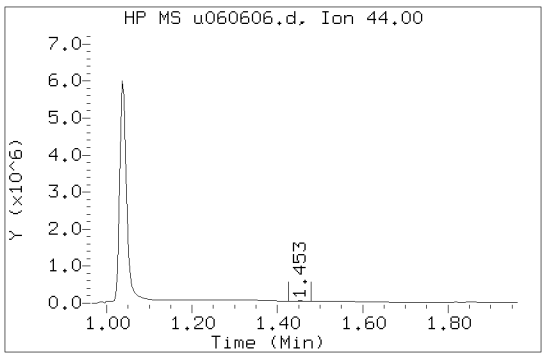
Acetaldehyde (75-07-0)

Reason Code:

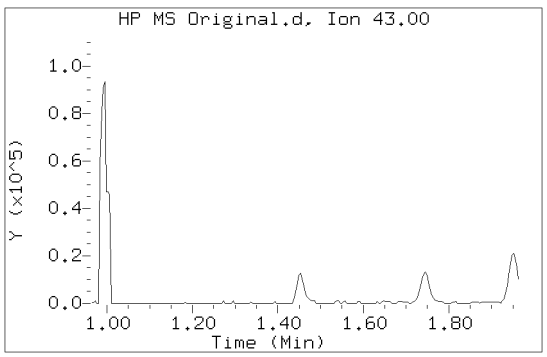
BEFORE
MASS
44
AREA
14773
HEIGHT
16936
08-Jun-2023
14:56
linh
pham



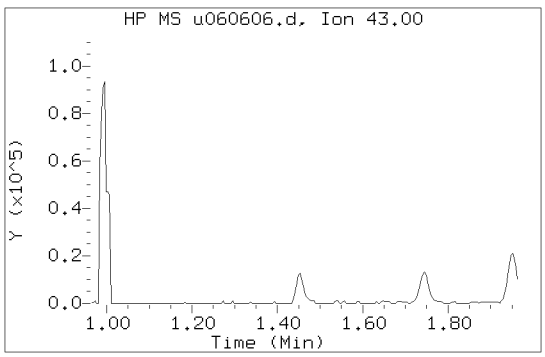
AFTER
MASS
44
AREA
14773
HEIGHT
16936
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



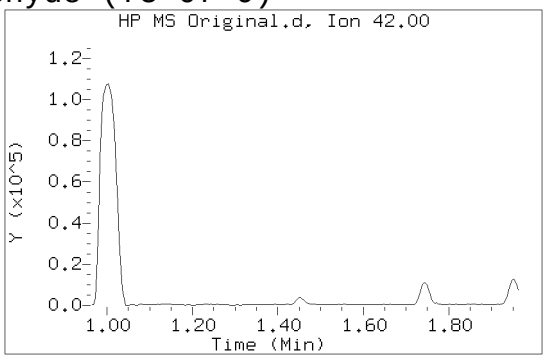
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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

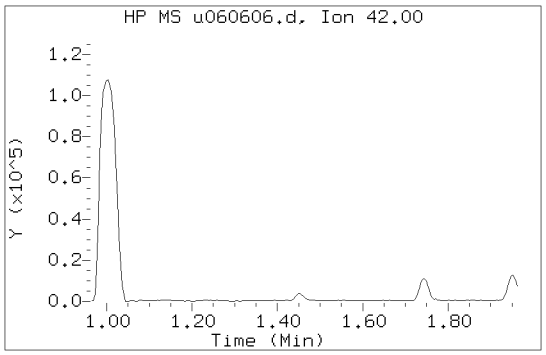
BEFORE

MASS
42
AREA
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HEIGHT
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08-Jun-2023
14:56
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pham



AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha

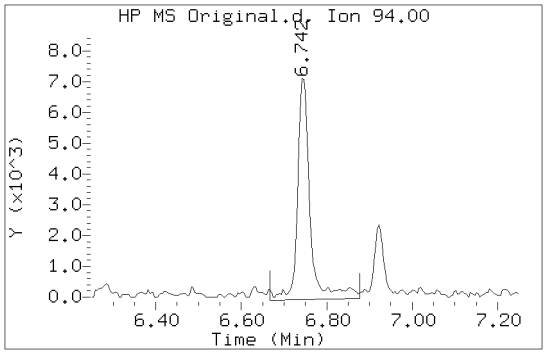


Dimethyl Disulfide (624-92-0)

Reason Code:

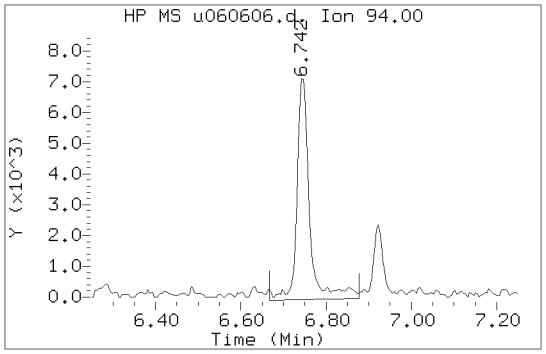
BEFORE

MASS
94
AREA
15263
HEIGHT
7177
08-Jun-2023
14:56
linh
pham



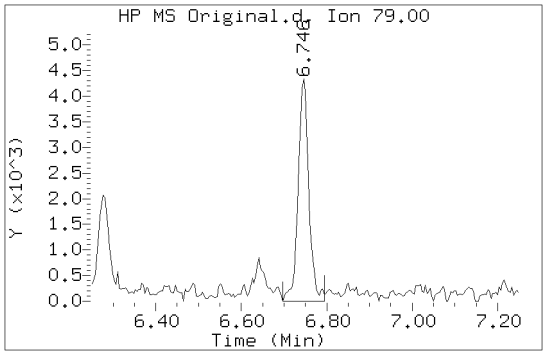
AFTER

MASS
94
AREA
15263
HEIGHT
7177
21-Jun-2023
13:47
linh
pha



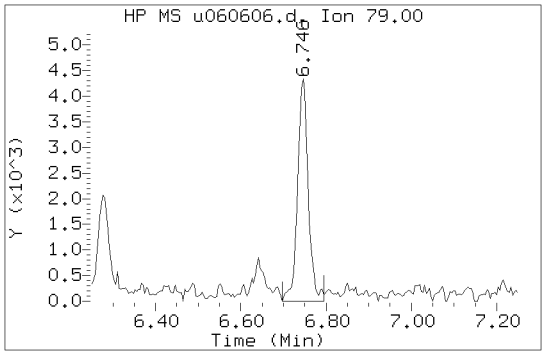
BEFORE

MASS
79
AREA
7740
HEIGHT
4338
08-Jun-2023
14:56
linh
pham



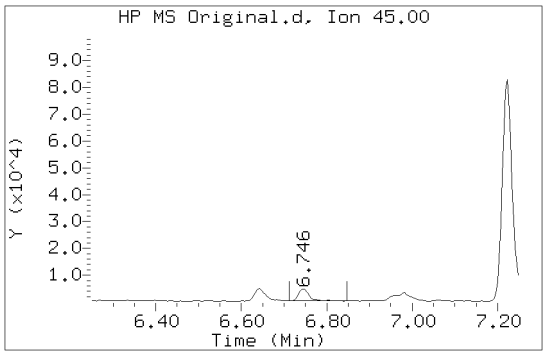
AFTER

MASS
79
AREA
7740
HEIGHT
4338
21-Jun-2023
13:47
linh
pha



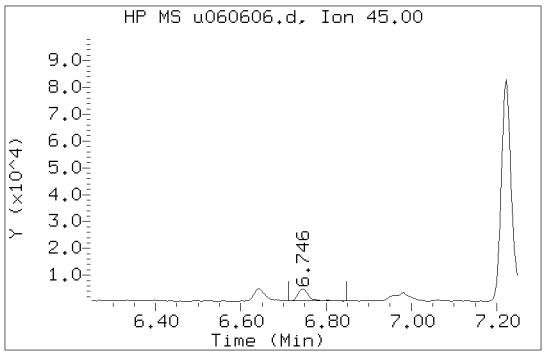
BEFORE

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45
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8050
HEIGHT
4392
08-Jun-2023
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linh
pham



AFTER

MASS
45
AREA
8050
HEIGHT
4392
21-Jun-2023
13:47
linh
pha



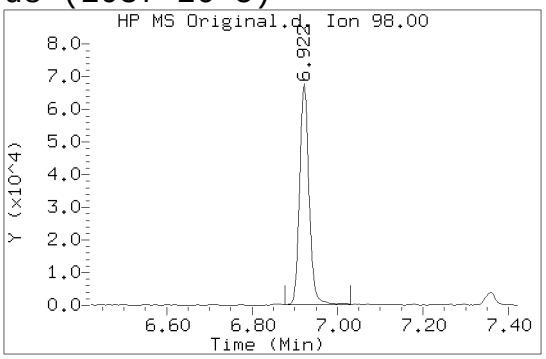
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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Toluene-d8 (2037-26-5)

Reason Code:

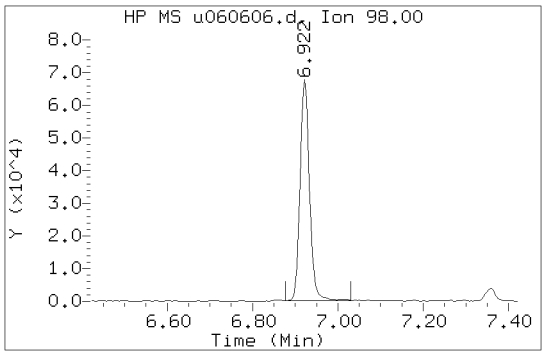
BEFORE

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98
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HEIGHT
67651
08-Jun-2023
14:56
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pham



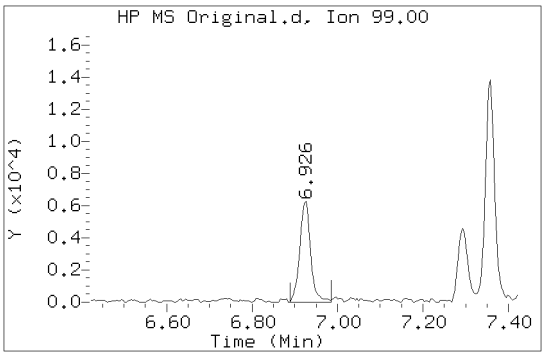
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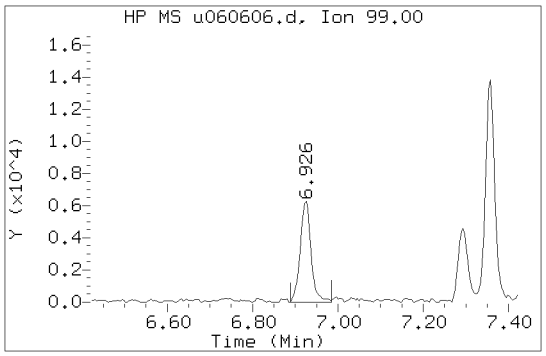
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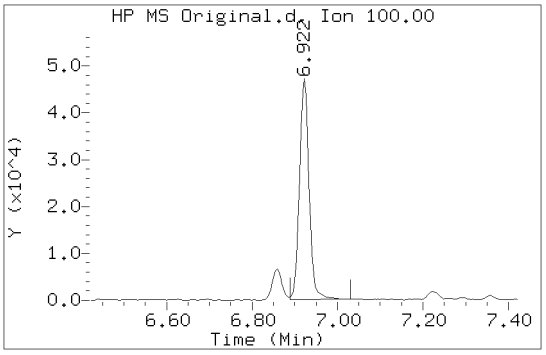
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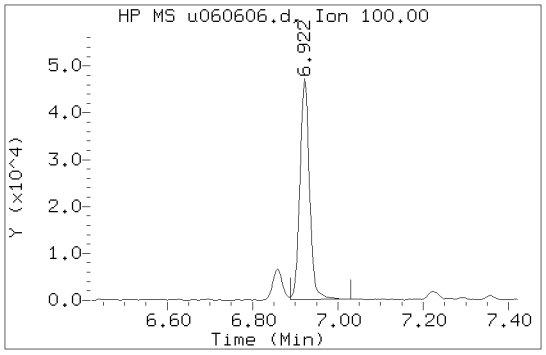
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AFTER

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21-Jun-2023
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linh
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D Page 1
Report Date: 21-Jun-2023 13:47

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D
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Inj Date : 06-JUN-2023 13:28
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V9;WATER;0;1;
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Cal Date : 06-JUN-2023 13:28 Cal File: U060607.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	679602	50.0000	
	2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	5058	1.00000	0.88(a)
	5 Vinyl Chloride	62	1.374	1.374	(0.285)	5942	1.00000	0.82(a)
	7 Chloroethane	64	1.696	1.696	(0.352)	5340	1.00000	1.10(a)
	8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	6909	1.00000	0.83(a)
	11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	4736	1.00000	0.91(a)
	15 Iodomethane	142	2.465	2.465	(0.512)	3593	2.00000	10.69(TM)
	18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	16686	1.00000	1.05(a)
	19 Carbon Disulfide	76	2.517	2.517	(0.523)	25547	2.00000	1.85(a)
	20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	5007	1.00000	0.89(a)
	22 1,1-Dichloroethane	63	3.514	3.514	(0.730)	11574	1.00000	1.08(a)
	24 2-Butanone	43	4.272	4.272	(0.887)	7341	2.00000	2.36(aM)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.867)	6247	1.00000	1.27(a)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.870)	6668	1.00000	0.99(a)
	28 Chloroform	83	4.571	4.571	(0.949)	10748	1.00000	0.96(a)
	29 Bromochloromethane	128	4.474	4.474	(0.929)	4161	1.00000	1.10(a)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	5853	1.00000	0.71(a)
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	7815	1.00000	0.92(a)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	7674	1.00000	1.04(a)
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	8428	1.00000	0.97(a)
	34 Carbon Tetrachloride	117	4.905	4.905	(0.883)	5676	1.00000	0.84(a)

$	35	1,2-Dichloroethane-d4	65	5.096	5.096 (1.058)	6027	1.00000	0.30(a)
*	36	1,4-Difluorobenzene	114	5.554	5.554 (1.000)	1002093	50.0000	

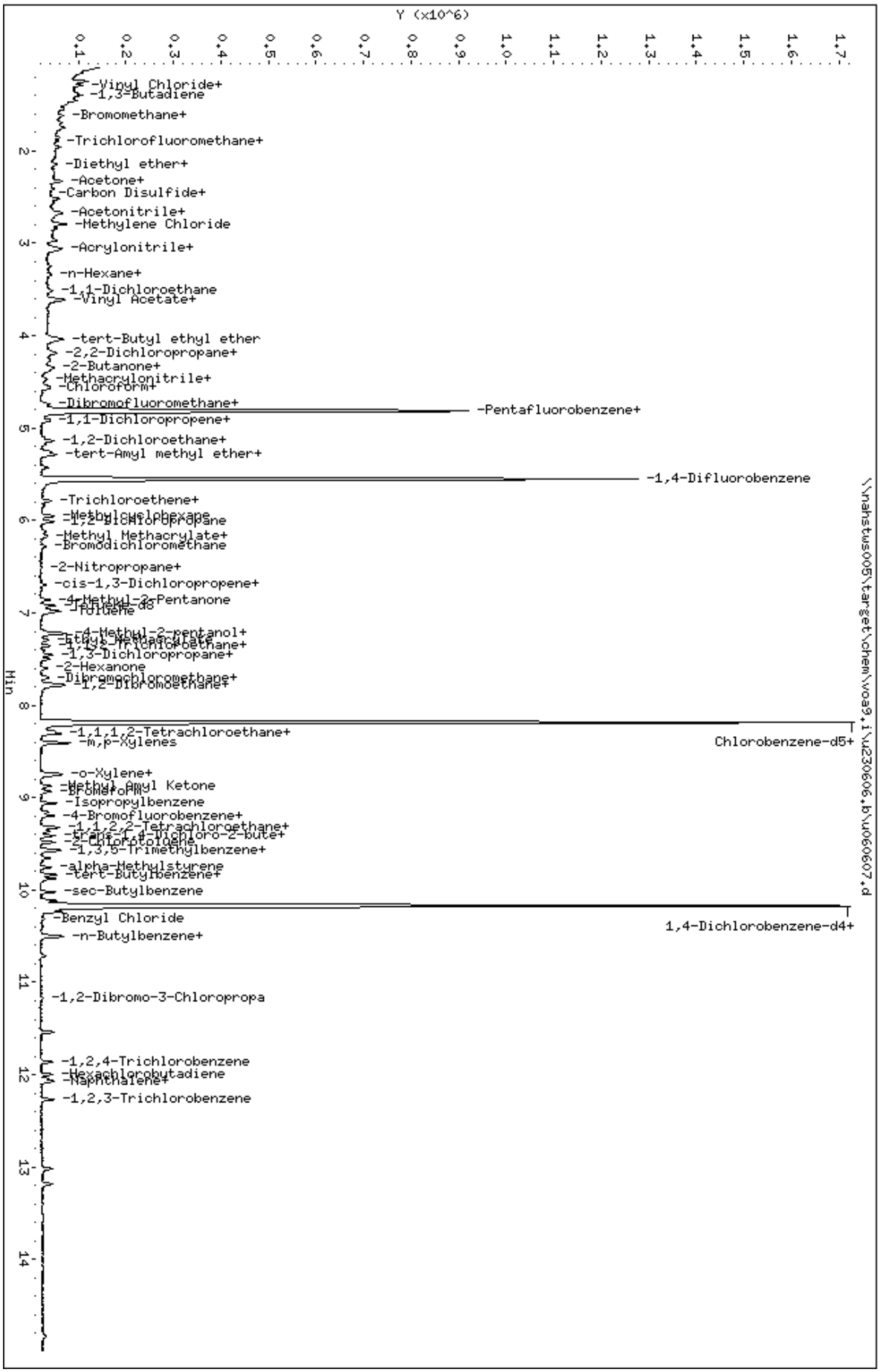
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	37 Benzene	78	5.137	5.137	(0.925)	21926	1.00000	0.90(a)
	38 Trichloroethene	130	5.790	5.790	(1.043)	7055	1.00000	1.00(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	6686	1.00000	0.88(a)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	6571	1.00000	1.01(a)
	44 Dibromomethane	93	6.120	6.120	(1.102)	4245	1.00000	1.03(a)
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	12749	2.00000	1.87(a)
	46 cis-1,3-Dichloropropene	75	6.697	6.697	(1.206)	6985	1.00000	2.57(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	934282	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	18686	1.00000	0.88(a)
	50 Toluene	91	6.982	6.982	(0.853)	24364	1.00000	0.96(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	5962	1.00000	2.69(aM)
	52 2-Hexanone	43	7.597	7.597	(0.928)	10155	2.00000	2.14(a)
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	6320	1.00000	1.19(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	10678	1.00000	0.99(a)
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	4999	1.00000	0.79(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	6715	1.00000	1.08(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	6817	1.00000	1.04(a)
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	4887	1.00000	0.94(aM)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	19148	1.00000	1.05(a)
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	5664	1.00000	0.91(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	7997	1.00000	0.95(a)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	17600	2.00000	1.76(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	8615	1.00000	0.87(a)
	64 Styrene	104	8.762	8.762	(1.071)	12462	1.00000	0.79(a)
	66 Bromoform	173	8.924	8.924	(1.090)	3596	1.00000	0.85(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	21174	1.00000	0.89(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	9671	1.00000	1.08(a)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	8608	1.00000	0.14(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	472015	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	7255	1.00000	0.92(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	21667	1.00000	0.87(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	8241	1.00000	1.03(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	16352	1.00000	0.96(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	17404	1.00000	0.99(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	18186	1.00000	0.94(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	15445	1.00000	0.92(a)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	18732	1.00000	1.05(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	19975	1.00000	0.94(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	16778	1.00000	0.94(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	13868	1.00000	1.02(a)
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	16169	1.00000	1.12(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	14921	1.00000	1.10(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	1239	1.00000	0.95(aM)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	9686	1.00000	1.03(a)
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	9603	1.00000	1.05(a)
M	94 1,2-Dichloroethylene (total)	96				11675	2.00000	1.88(a)
M	95 Xylenes (total)	106				26215	3.00000	2.64(a)
	141 Cyclohexane	56	4.796	4.796	(0.996)	7781	1.00000	1.14(aM)
	138 Freon TF	101	2.330	2.330	(0.484)	3752	1.00000	0.82(a)
	140 1,3-Butadiene	54	1.400	1.400	(0.291)	5632	1.00000	0.87(a)
	146 Methyl Acetate	43	2.712	2.712	(0.563)	6421	1.00000	1.12(aM)
	148 Tert-Butyl alcohol	59	2.967	2.967	(0.616)	16016	20.0000	20.67(aM)

72 trans-1,4-Dichloro-2-butene	53	9.381	9.381 (1.146)	1083	1.00000	1.00
12 Isobutyl Alcohol	43	5.291	5.291 (1.099)	18069	20.0000	20.46(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
13 Acetonitrile	39	2.667	2.667	(0.554)	7477	10.0000	10.16
40 Methyl Methacrylate	41	6.161	6.161	(1.279)	5203	1.00000	0.89(a)
4 Propionitrile	54	4.343	4.343	(0.902)	10588	10.0000	10.78(aM)
136 n-Hexane	57	3.338	3.338	(0.693)	4787	1.00000	0.97(a)
131 Methyl Acrylate	55	4.365	4.365	(0.907)	7188	1.00000	1.00(aM)
200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	2841	1.00000	4.92(aM)
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	20474	1.00000	1.12(a)
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	29317	1.00000	1.27(a)
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	6428	1.00000	4.20(a)
156 Diisopropyl ether	45	3.623	3.623	(0.752)	18372	1.00000	0.96(a)
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.300)	29449	20.0000	19.76
150 Allyl alcohol	57	3.338	3.338	(0.693)	4787	20.0000	20.21
86 Benzyl Chloride	91	10.311	10.311	(1.260)	5481	1.00000	4.38(a)
162 Butyl acrylate	55	8.736	8.736	(1.067)	10827	1.00000	0.97(a)
139 Diethyl ether	59	2.142	2.142	(0.445)	3957	1.00000	0.86(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	4963	1.00000	2.84(aM)
134 Cyclohexanone	55	9.156	9.156	(0.900)	6822	20.0000	23.31(a)
130 Ethyl Acetate	43	4.272	4.272	(0.887)	6476	1.00000	1.06(aMH)
189 n-Butyl acetate	43	7.713	7.713	(0.942)	10025	1.00000	0.94(aM)
182 Epichlorohydrin	57	6.656	6.656	(1.198)	230	4.00000	12.04(M)
132 n-Butanol	56	5.838	5.838	(1.213)	4225	20.0000	21.55(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.
H - Operator selected an alternate compound hit.



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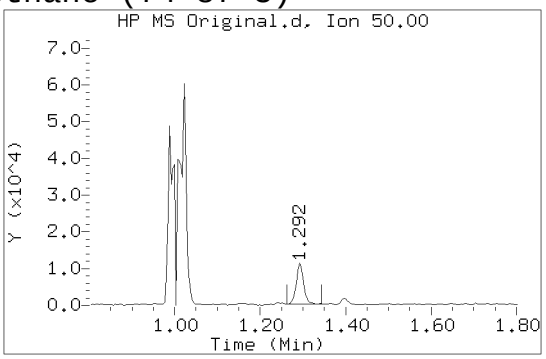
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Operator: PC
Column diameter: 0.18

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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Chloromethane (74-87-3)

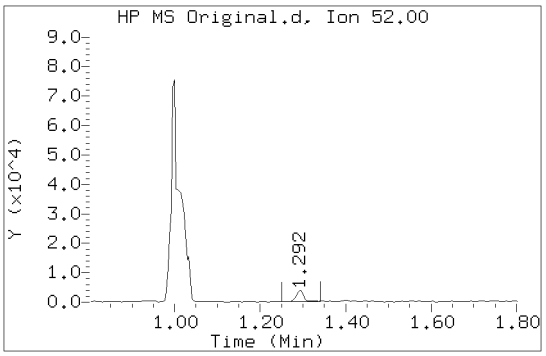
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BEFORE

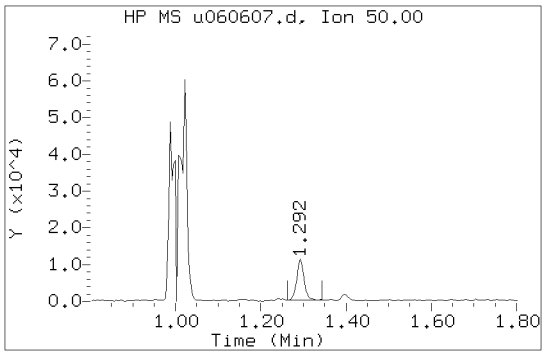
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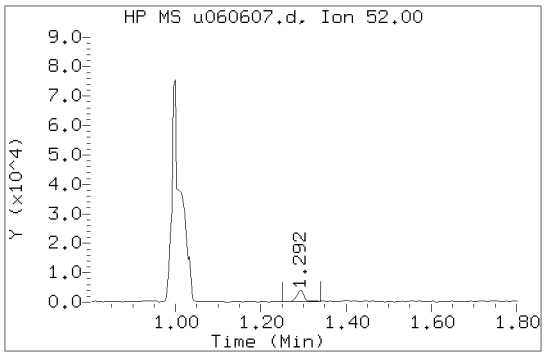
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AFTER

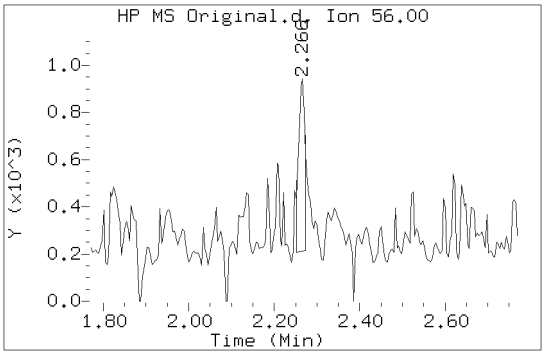
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Acrolein (107-02-8)

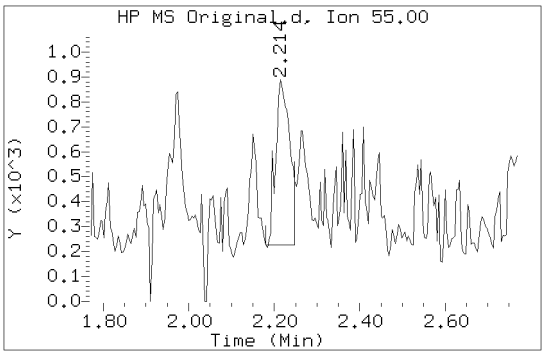
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BEFORE

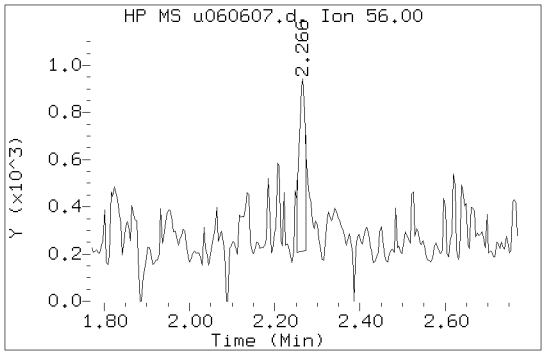
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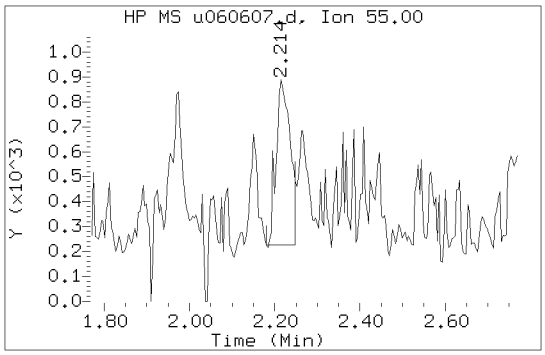
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AFTER

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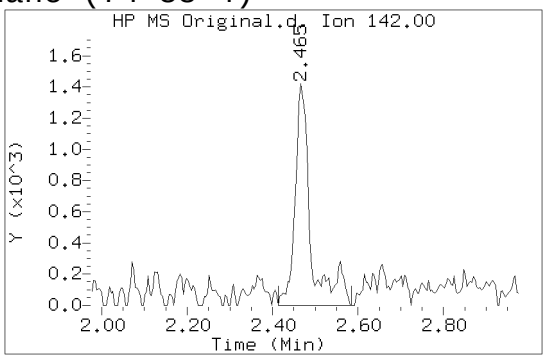


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LabSampID : VSTD001

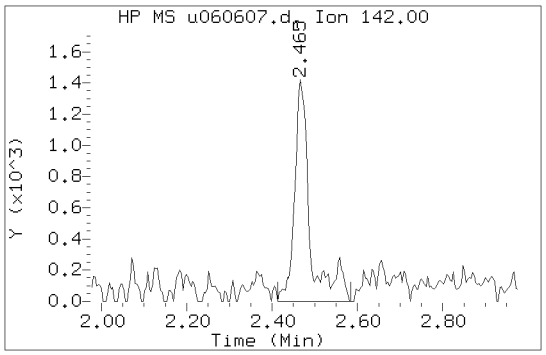
Iodomethane (74-88-4)

Reason Code:

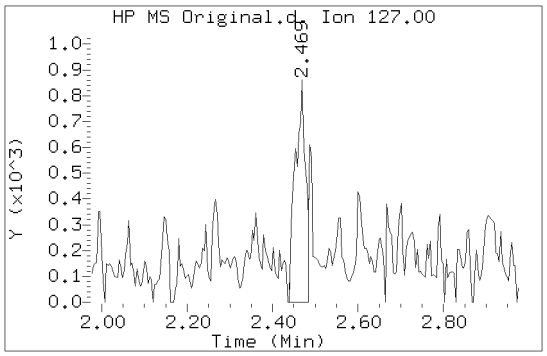
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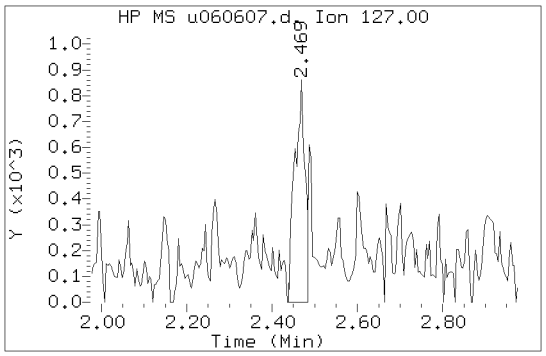
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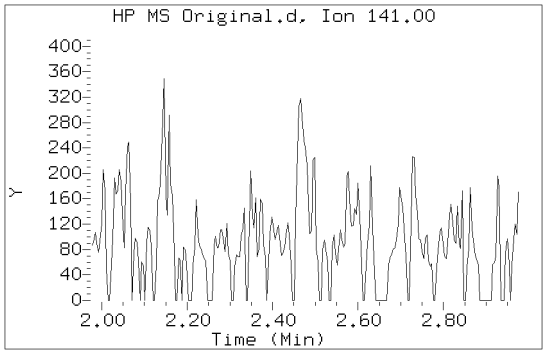
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pham



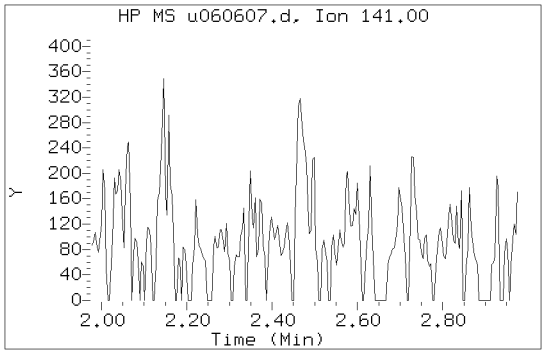
AFTER
MASS
127
AREA
1453
HEIGHT
861
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
141
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



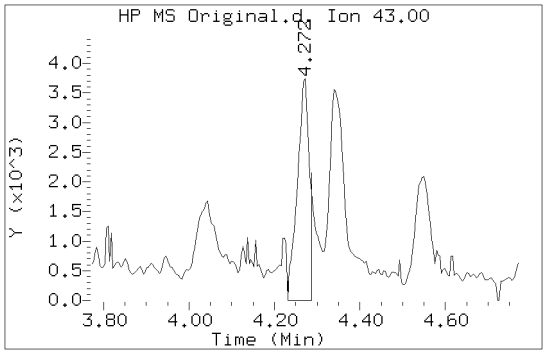
AFTER
MASS
141
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



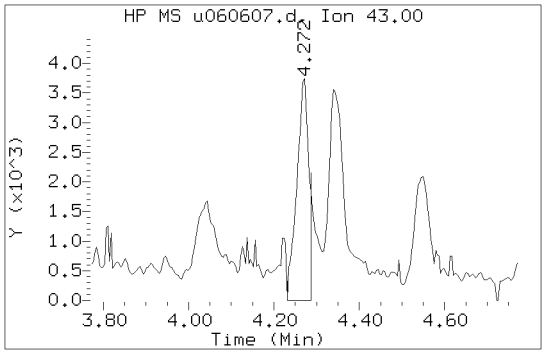
2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
43
AREA
7341
HEIGHT
3739
08-Jun-2023
14:56
linh
pham



AFTER
MASS
43
AREA
7341
HEIGHT
3739
21-Jun-2023
13:47
linh
pha

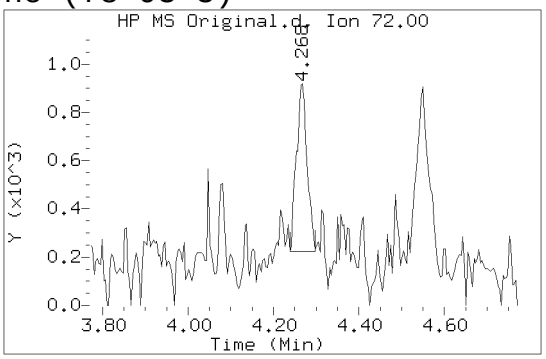


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

2-Butanone (78-93-3)

BEFORE

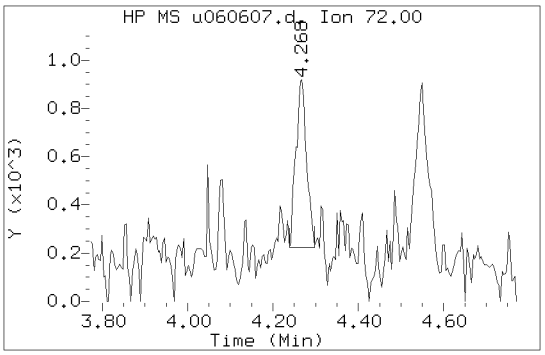
MASS
72
AREA
1240
HEIGHT
697
08-Jun-2023
14:56
linh
pham



AFTER

MASS
72
AREA
1240
HEIGHT
697
21-Jun-2023
13:47
linh
pha

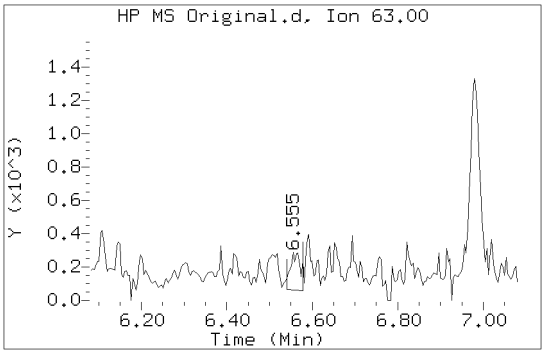
Reason Code:



2-Chloroethylvinyl ether (110-75-8)

BEFORE

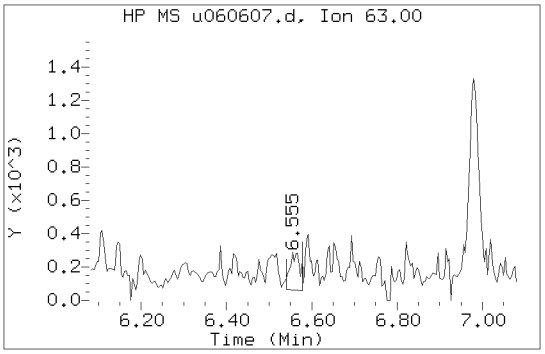
MASS
63
AREA
379
HEIGHT
225
08-Jun-2023
14:56
linh
pham



AFTER

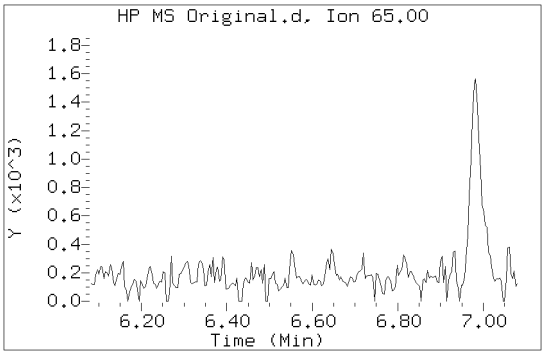
MASS
63
AREA
379
HEIGHT
225
21-Jun-2023
13:47
linh
pha

Reason Code:



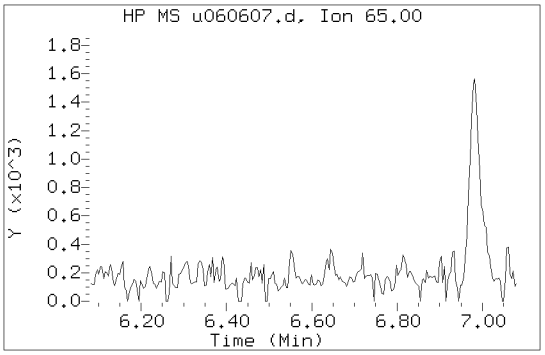
BEFORE

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



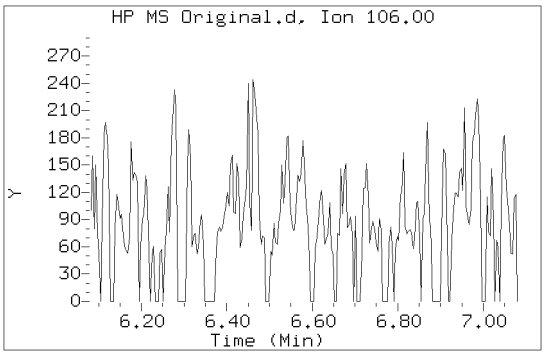
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



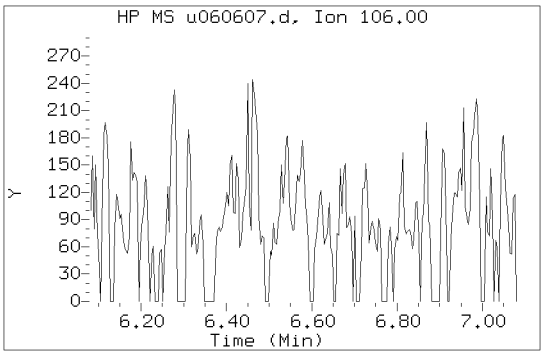
BEFORE

MASS
106
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



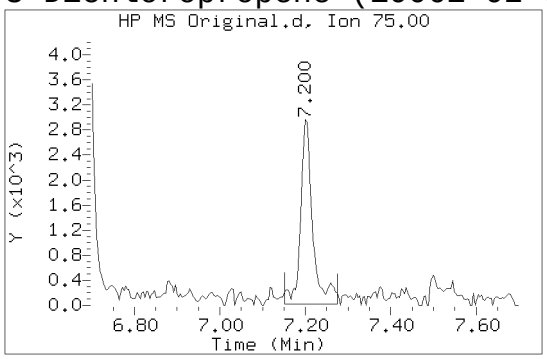
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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

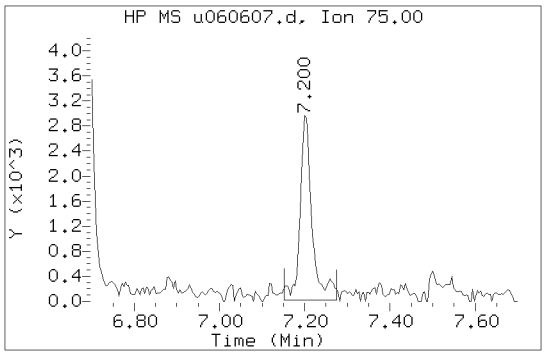
BEFORE

MASS
75
AREA
5962
HEIGHT
2945
08-Jun-2023
14:56
linh
pham



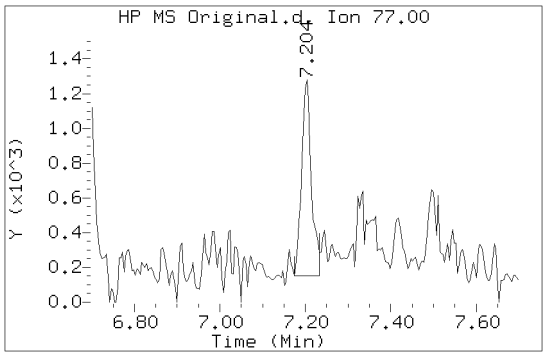
AFTER

MASS
75
AREA
5962
HEIGHT
2945
21-Jun-2023
13:47
linh
pha



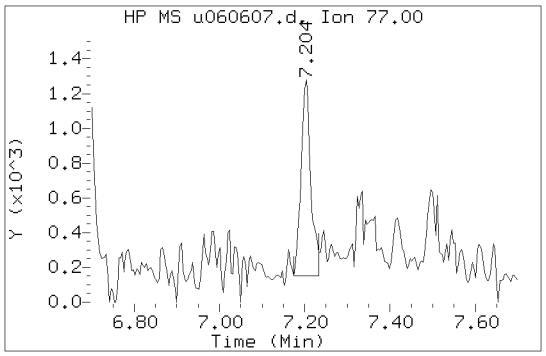
BEFORE

MASS
77
AREA
1844
HEIGHT
1128
08-Jun-2023
14:56
linh
pham



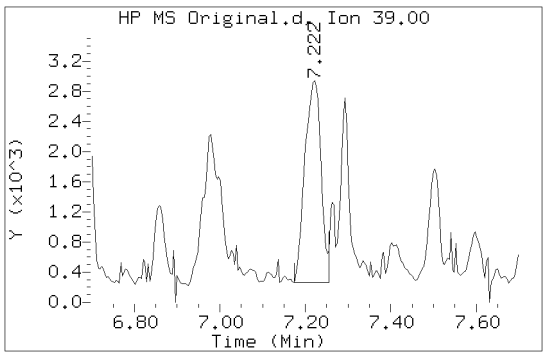
AFTER

MASS
77
AREA
1844
HEIGHT
1128
21-Jun-2023
13:47
linh
pha



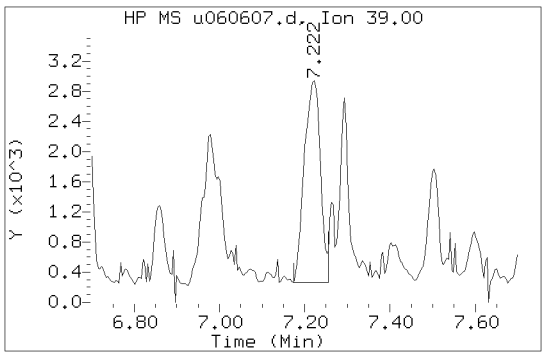
BEFORE

MASS
39
AREA
7143
HEIGHT
2676
08-Jun-2023
14:56
linh
pham



AFTER

MASS
39
AREA
7143
HEIGHT
2676
21-Jun-2023
13:47
linh
pha

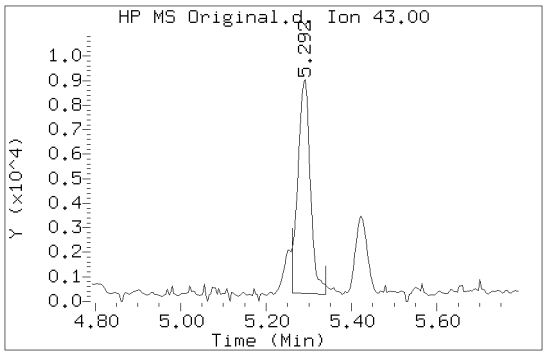


Isobutyl Alcohol (78-83-1)

Reason Code:

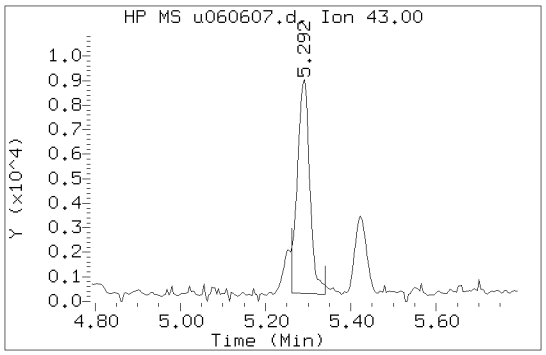
BEFORE

MASS
43
AREA
18069
HEIGHT
8714
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
18069
HEIGHT
8714
21-Jun-2023
13:47
linh
pha

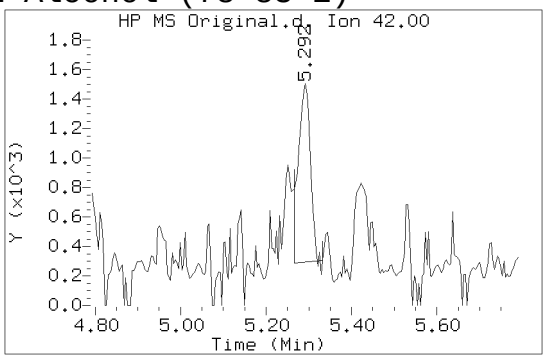


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Isobutyl Alcohol (78-83-1)

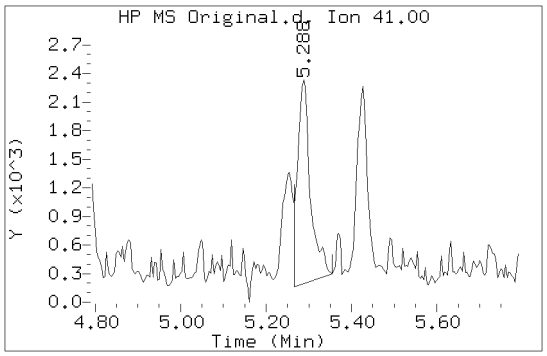
BEFORE

MASS
42
AREA
2425
HEIGHT
1210
08-Jun-2023
14:56
linh
pham



BEFORE

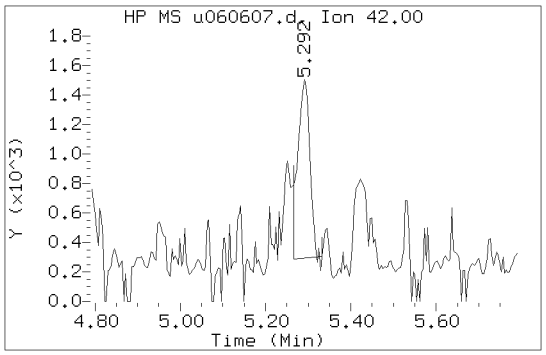
MASS
41
AREA
4613
HEIGHT
2138
08-Jun-2023
14:56
linh
pham



Reason Code:

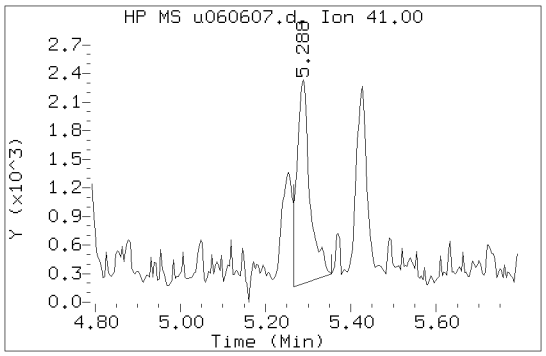
AFTER

MASS
42
AREA
2425
HEIGHT
1210
21-Jun-2023
13:47
linh
pha



AFTER

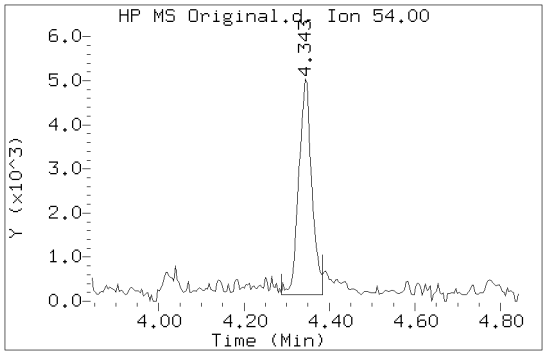
MASS
41
AREA
4613
HEIGHT
2138
21-Jun-2023
13:47
linh
pha



Propionitrile (107-12-0)

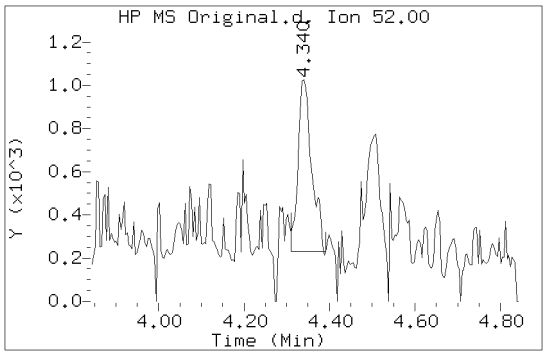
BEFORE

MASS
54
AREA
10588
HEIGHT
4897
08-Jun-2023
14:56
linh
pham



BEFORE

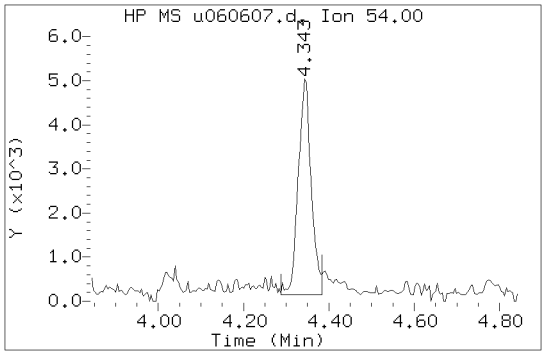
MASS
52
AREA
1789
HEIGHT
794
08-Jun-2023
14:56
linh
pham



Reason Code:

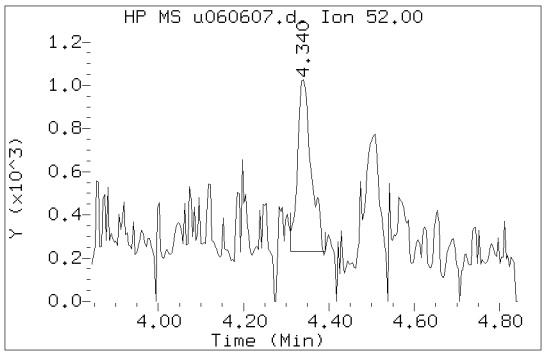
AFTER

MASS
54
AREA
10588
HEIGHT
4897
21-Jun-2023
13:47
linh
pha



AFTER

MASS
52
AREA
1789
HEIGHT
794
21-Jun-2023
13:47
linh
pha



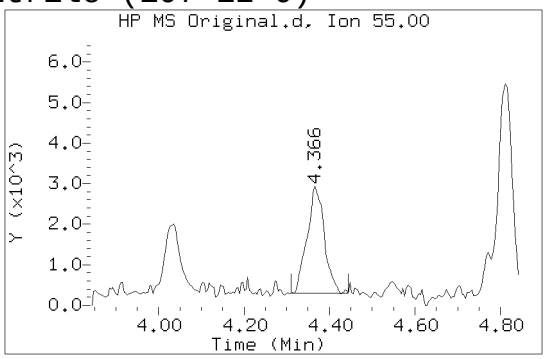
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

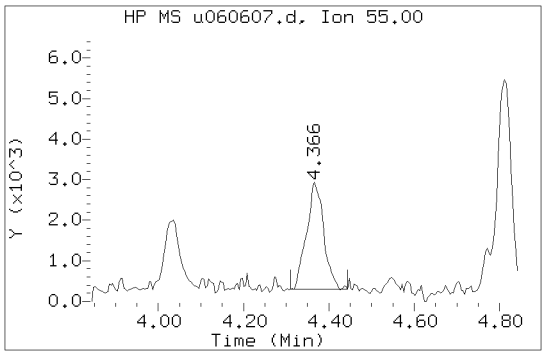
BEFORE

MASS
55
AREA
7500
HEIGHT
2642
08-Jun-2023
14:56
linh
pham



AFTER

MASS
55
AREA
7500
HEIGHT
2642
21-Jun-2023
13:47
linh
pha

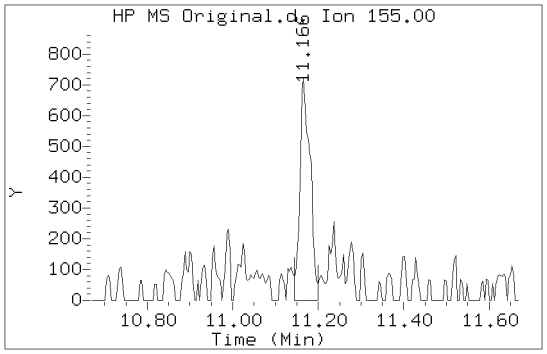


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

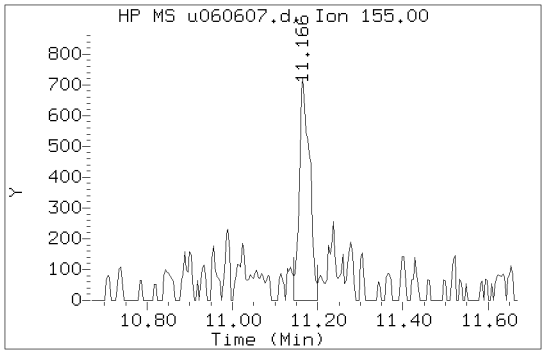
BEFORE

MASS
155
AREA
1239
HEIGHT
719
08-Jun-2023
14:56
linh
pham



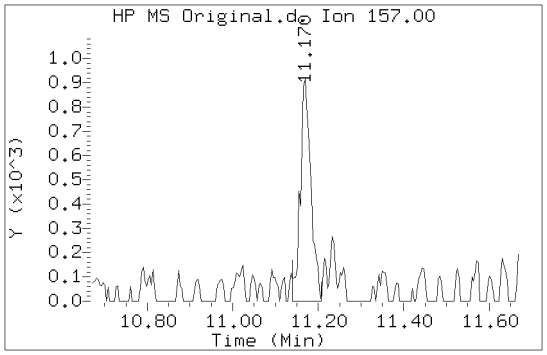
AFTER

MASS
155
AREA
1239
HEIGHT
719
21-Jun-2023
13:47
linh
pha



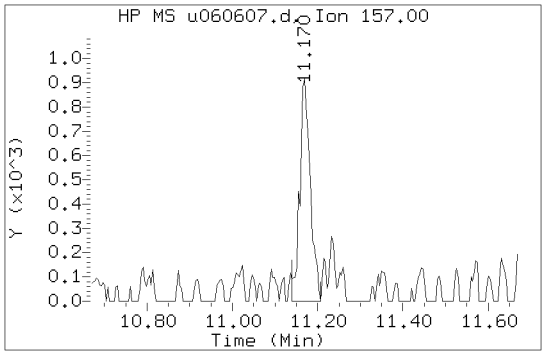
BEFORE

MASS
157
AREA
1601
HEIGHT
916
08-Jun-2023
14:56
linh
pham



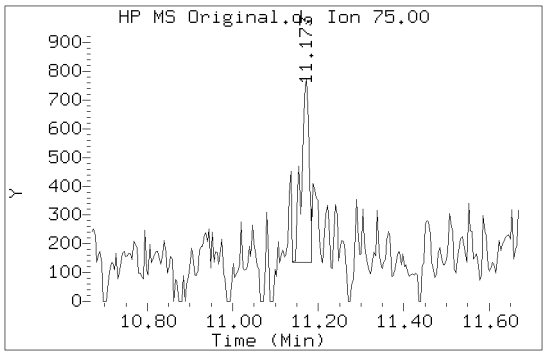
AFTER

MASS
157
AREA
1601
HEIGHT
916
21-Jun-2023
13:47
linh
pha



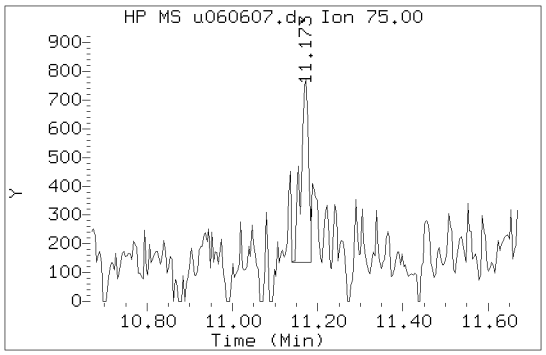
BEFORE

MASS
75
AREA
809
HEIGHT
634
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
809
HEIGHT
634
21-Jun-2023
13:47
linh
pha

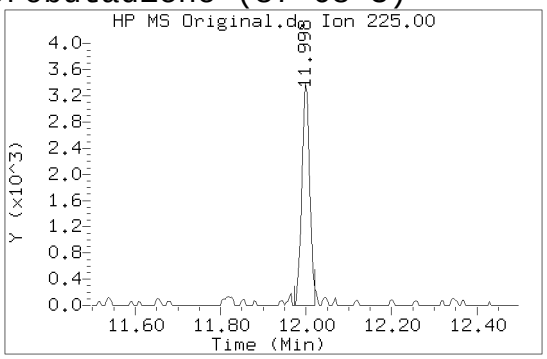


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InstruID : VOA9.i
LabSampID : VSTD001

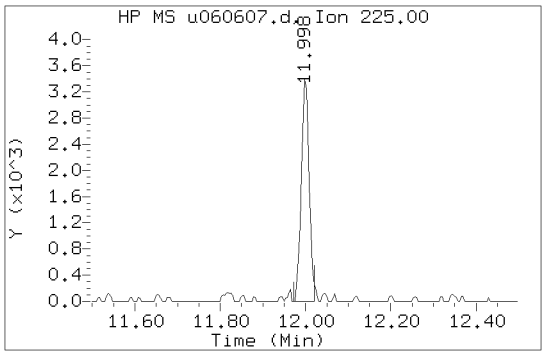
Hexachlorobutadiene (87-68-3)

Reason Code:

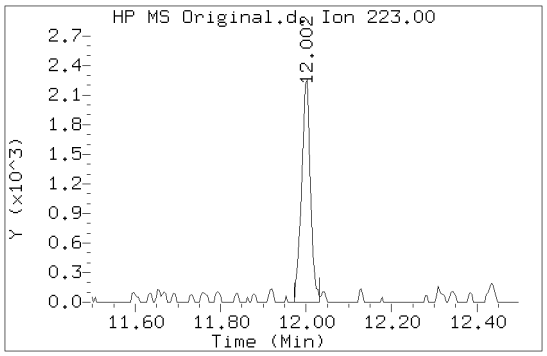
BEFORE
MASS
225
AREA
4470
HEIGHT
3386
08-Jun-2023
14:56
linh
pham



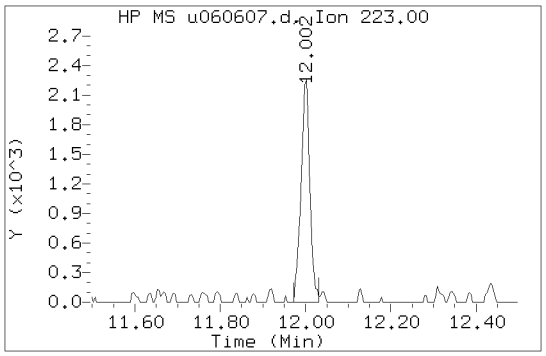
AFTER
MASS
225
AREA
4470
HEIGHT
3386
21-Jun-2023
13:47
linh
pha



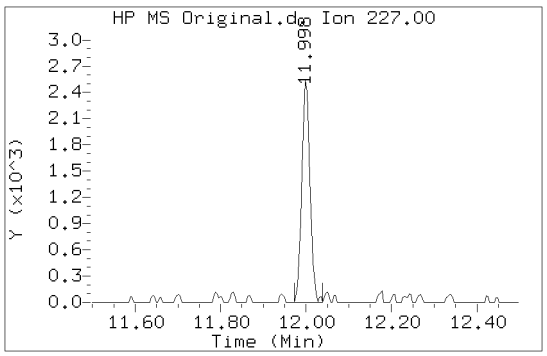
BEFORE
MASS
223
AREA
3352
HEIGHT
2254
08-Jun-2023
14:56
linh
pham



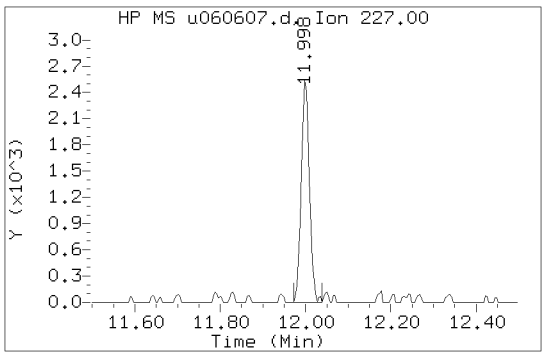
AFTER
MASS
223
AREA
3352
HEIGHT
2254
21-Jun-2023
13:47
linh
pha



BEFORE
MASS
227
AREA
3477
HEIGHT
2534
08-Jun-2023
14:56
linh
pham



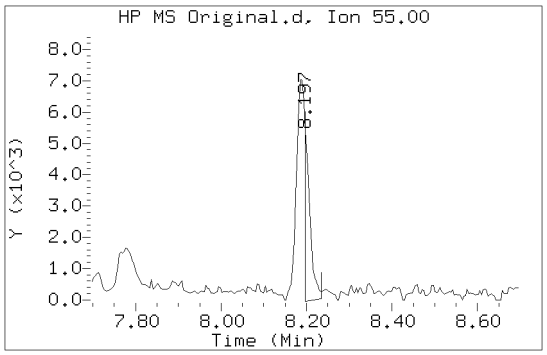
AFTER
MASS
227
AREA
3477
HEIGHT
2534
21-Jun-2023
13:47
linh
pha



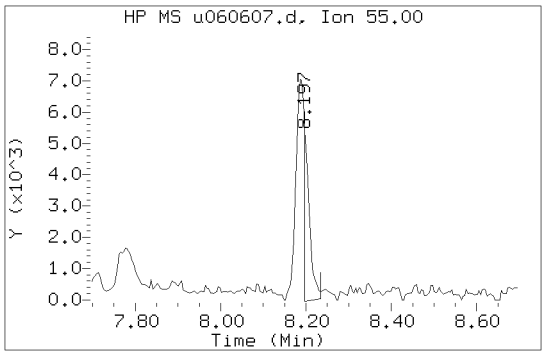
1-Chlorohexane (544-10-5)

Reason Code:

BEFORE
MASS
55
AREA
4887
HEIGHT
5444
08-Jun-2023
14:56
linh
pham



AFTER
MASS
55
AREA
4887
HEIGHT
5444
21-Jun-2023
13:47
linh
pha

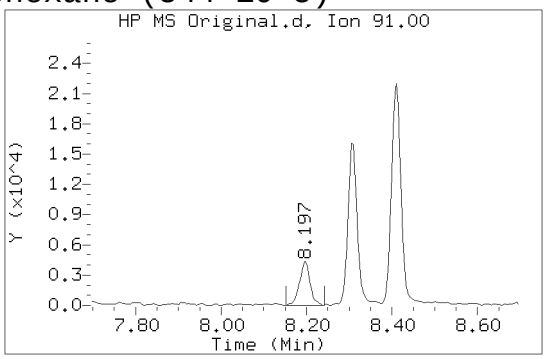


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

1-Chlorohexane (544-10-5)

BEFORE

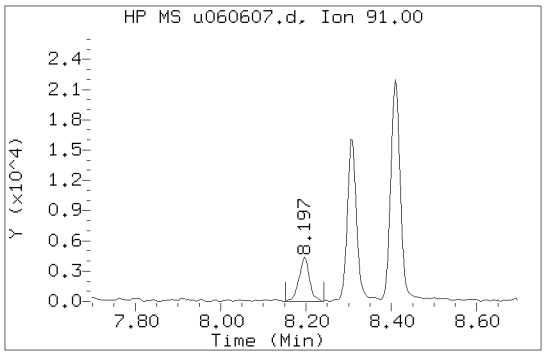
MASS
91
AREA
7655
HEIGHT
4415
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

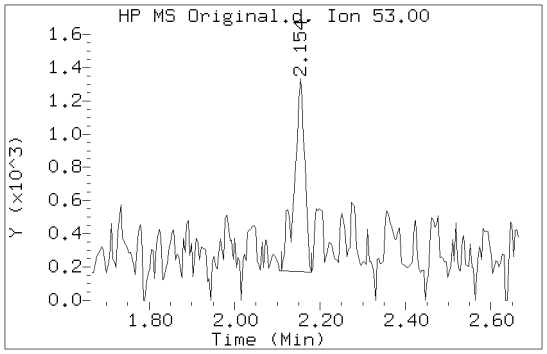
MASS
91
AREA
7655
HEIGHT
4415
21-Jun-2023
13:47
linh
pha



Chloroprene (126-99-8)

BEFORE

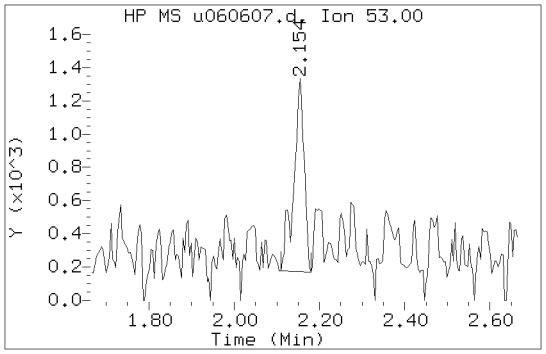
MASS
53
AREA
2027
HEIGHT
1160
08-Jun-2023
14:56
linh
pham



Reason Code:

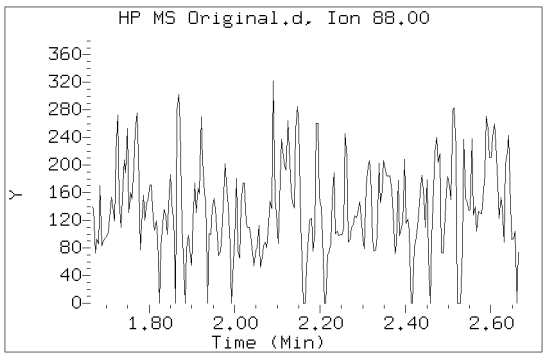
AFTER

MASS
53
AREA
2027
HEIGHT
1160
21-Jun-2023
13:47
linh
pha



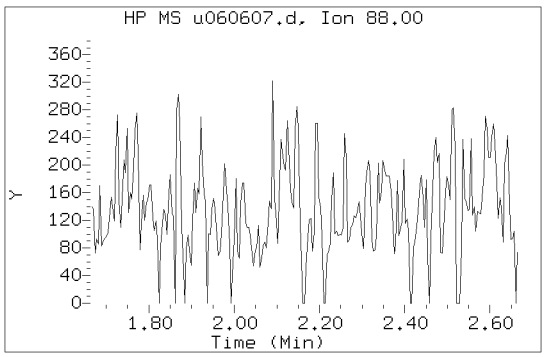
BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

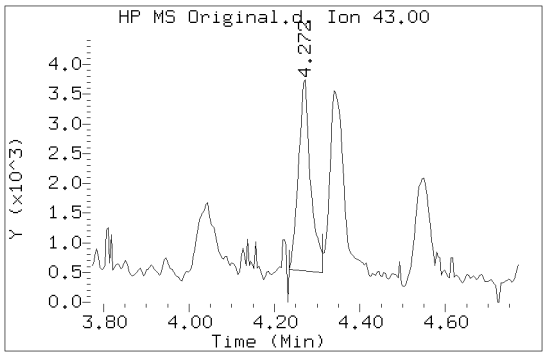
MASS
88
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



Ethyl Acetate (141-78-6)

BEFORE

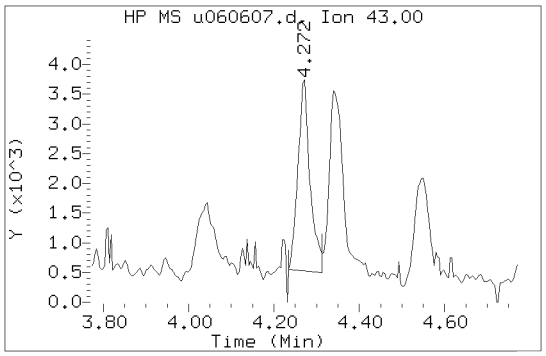
MASS
43
AREA
6476
HEIGHT
3212
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

MASS
43
AREA
6476
HEIGHT
3212
21-Jun-2023
13:47
linh
pha



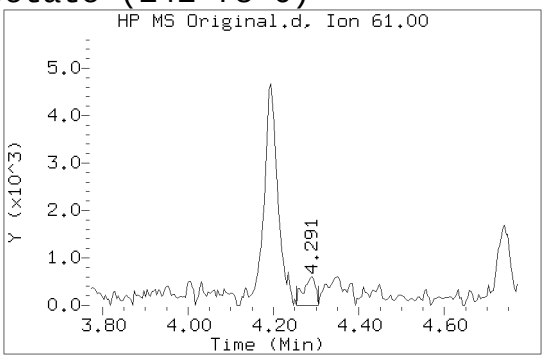
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

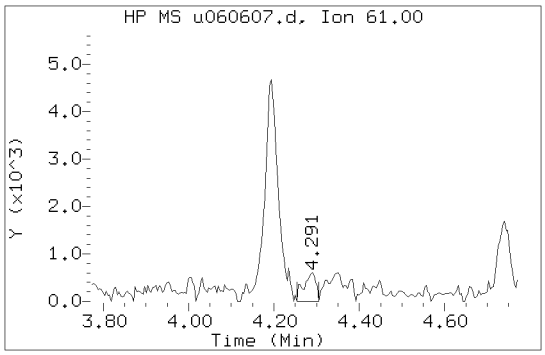
BEFORE

MASS
61
AREA
1204
HEIGHT
613
08-Jun-2023
14:56
linh
pham



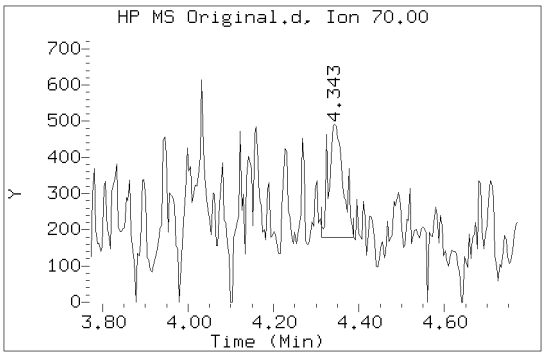
AFTER

MASS
61
AREA
1204
HEIGHT
613
21-Jun-2023
13:47
linh
pha



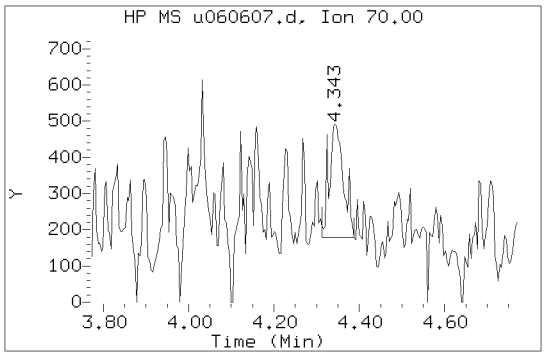
BEFORE

MASS
70
AREA
720
HEIGHT
311
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
720
HEIGHT
311
21-Jun-2023
13:47
linh
pha

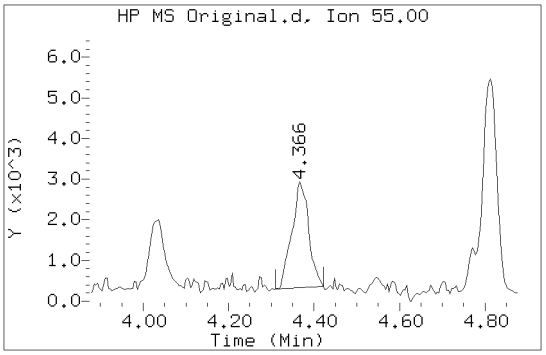


Methyl Acrylate (96-33-3)

Reason Code:

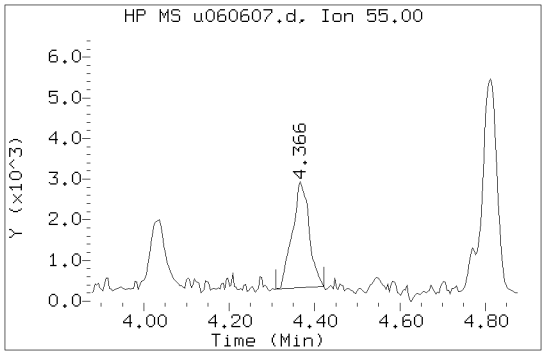
BEFORE

MASS
55
AREA
7188
HEIGHT
2604
08-Jun-2023
14:56
linh
pham



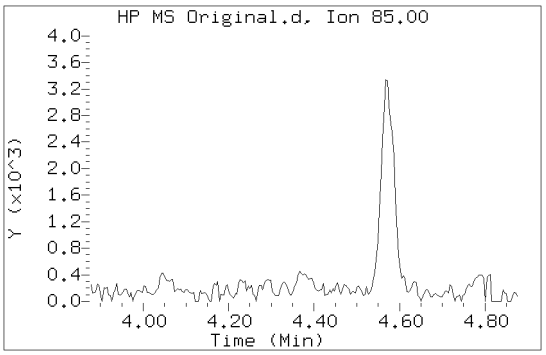
AFTER

MASS
55
AREA
7188
HEIGHT
2604
21-Jun-2023
13:47
linh
pha



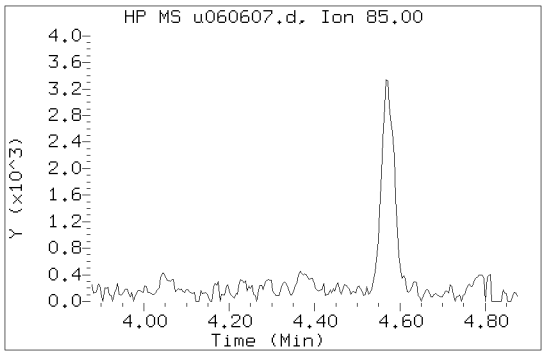
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:47
linh
pha



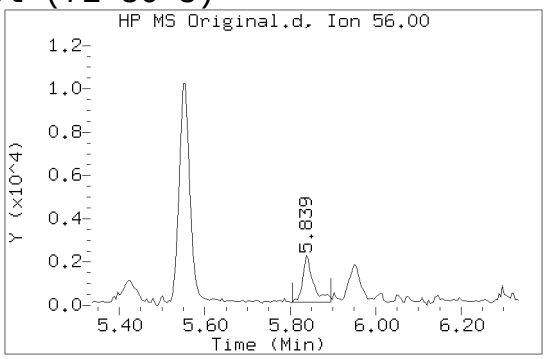
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

n-Butanol (71-36-3)

Reason Code:

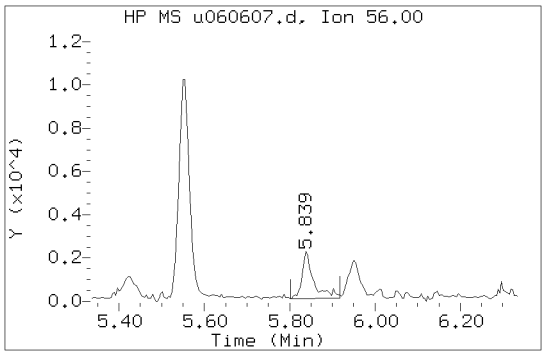
BEFORE

MASS
56
AREA
3831
HEIGHT
2179
08-Jun-2023
14:56
linh
pham



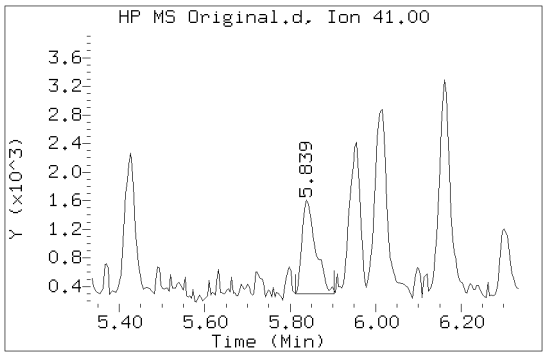
AFTER

MASS
56
AREA
4225
HEIGHT
2201
21-Jun-2023
13:47
linh
pha



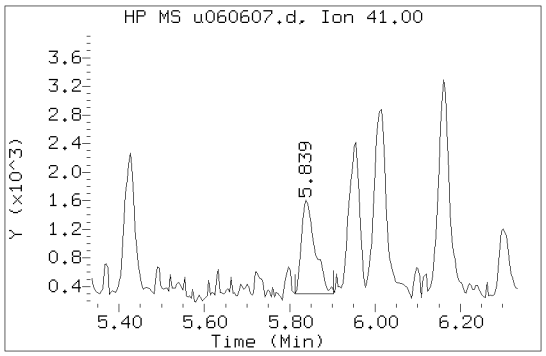
BEFORE

MASS
41
AREA
2978
HEIGHT
1310
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
2978
HEIGHT
1310
21-Jun-2023
13:47
linh
pha

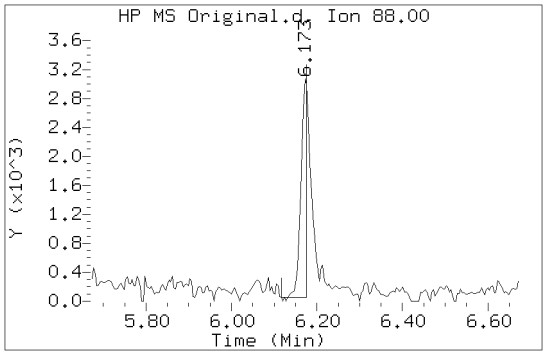


1,4-Dioxane ()

Reason Code:

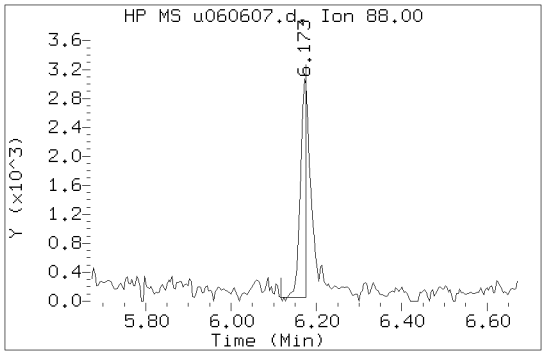
BEFORE

MASS
88
AREA
3065
HEIGHT
3017
08-Jun-2023
14:56
linh
pham



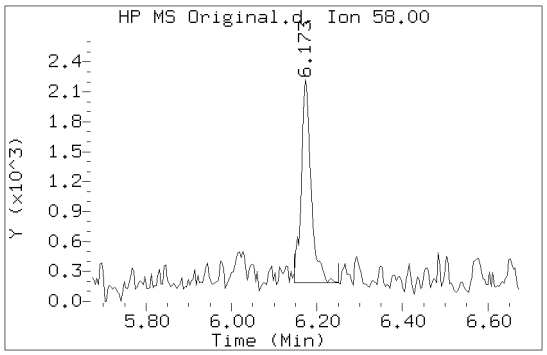
AFTER

MASS
88
AREA
3065
HEIGHT
3017
21-Jun-2023
13:47
linh
pha



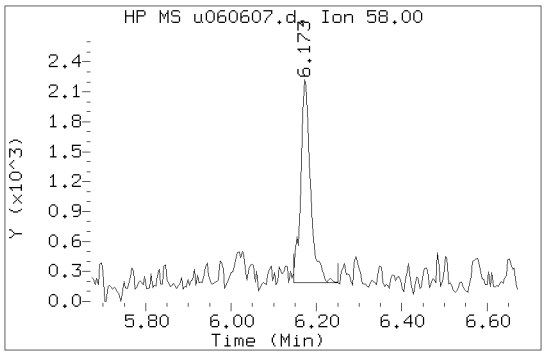
BEFORE

MASS
58
AREA
3335
HEIGHT
2036
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
3335
HEIGHT
2036
21-Jun-2023
13:47
linh
pha



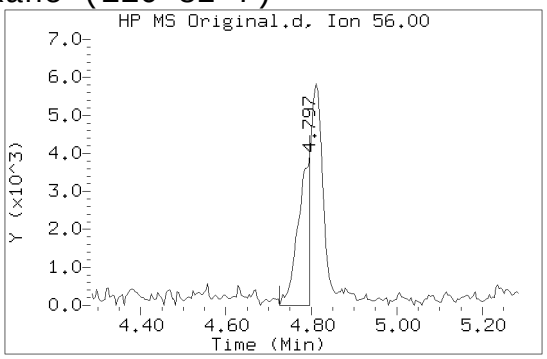
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Cyclohexane (110-82-7)

Reason Code:

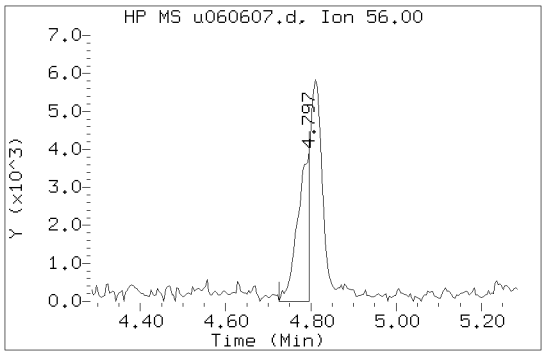
BEFORE

MASS
56
AREA
7781
HEIGHT
3965
08-Jun-2023
14:56
linh
pham



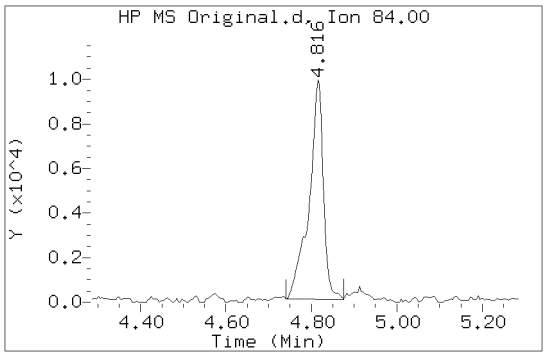
AFTER

MASS
56
AREA
7781
HEIGHT
3965
21-Jun-2023
13:47
linh
pha



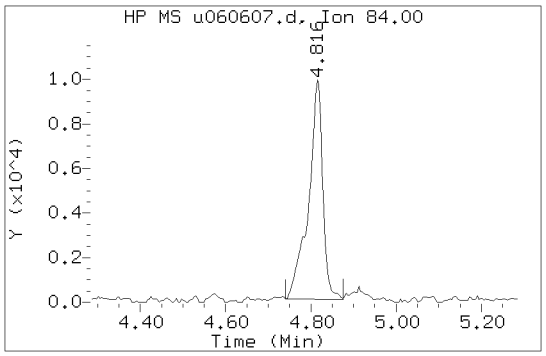
BEFORE

MASS
84
AREA
22992
HEIGHT
9843
08-Jun-2023
14:56
linh
pham



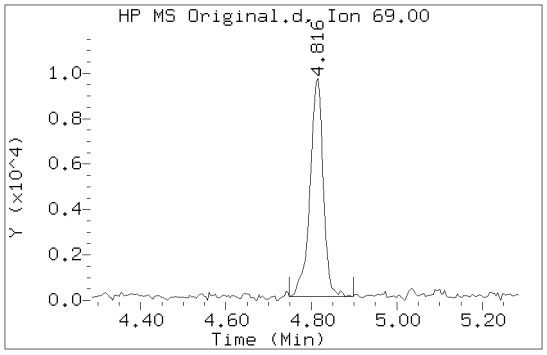
AFTER

MASS
84
AREA
22992
HEIGHT
9843
21-Jun-2023
13:47
linh
pha



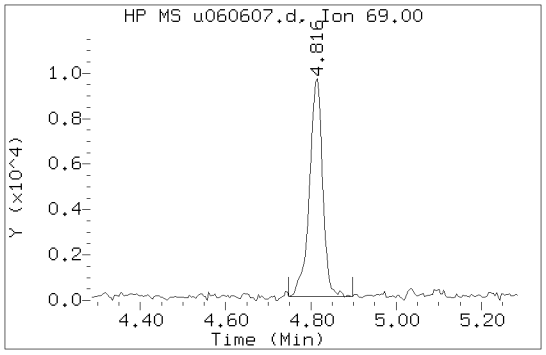
BEFORE

MASS
69
AREA
20740
HEIGHT
9600
08-Jun-2023
14:56
linh
pham



AFTER

MASS
69
AREA
20740
HEIGHT
9600
21-Jun-2023
13:47
linh
pha

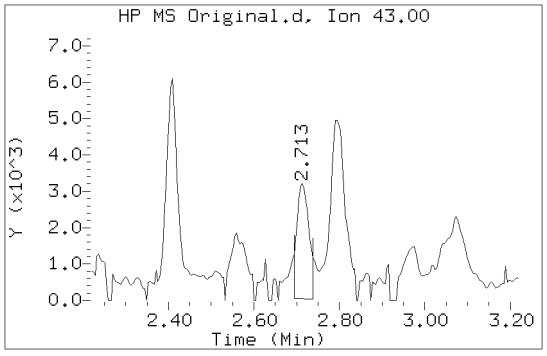


Methyl Acetate (79-20-9)

Reason Code:

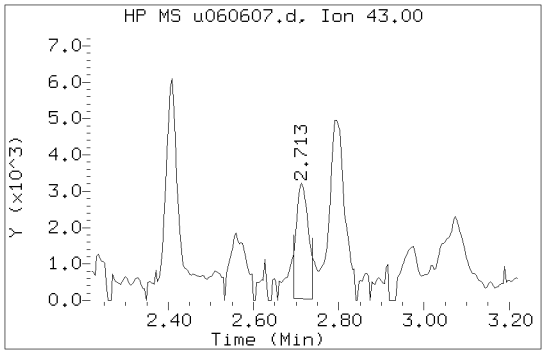
BEFORE

MASS
43
AREA
6421
HEIGHT
3170
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
6421
HEIGHT
3170
21-Jun-2023
13:47
linh
pha

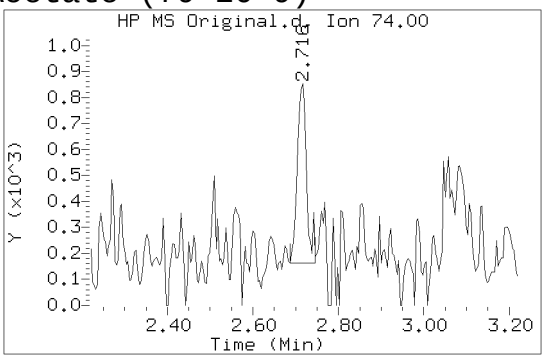


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060607.d
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Acetate (79-20-9)

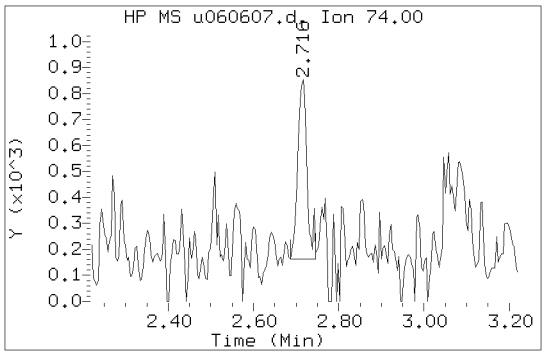
BEFORE

MASS
74
AREA
1042
HEIGHT
689
08-Jun-2023
14:56
linh
pham



AFTER

MASS
74
AREA
1042
HEIGHT
689
21-Jun-2023
13:47
linh
pha

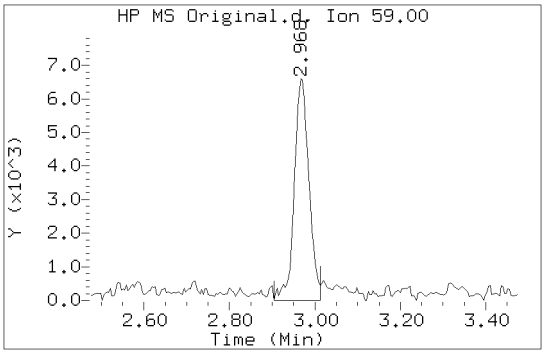


Reason Code:

Tert-Butyl alcohol (75-65-0)

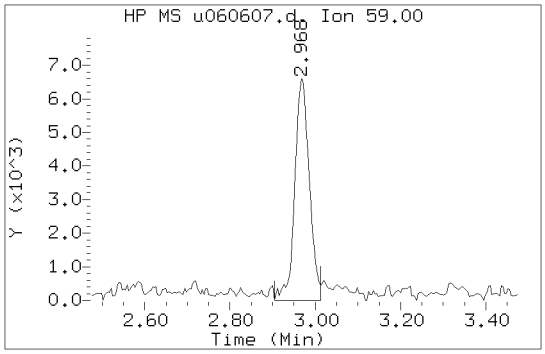
BEFORE

MASS
59
AREA
16016
HEIGHT
6600
08-Jun-2023
14:56
linh
pham



AFTER

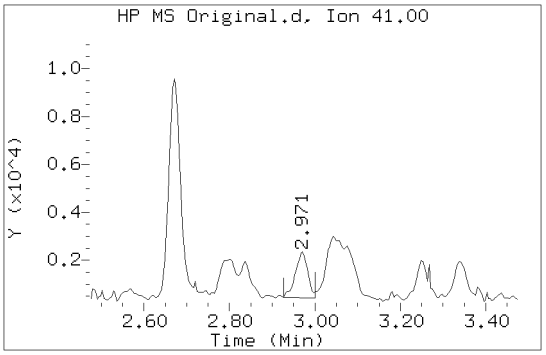
MASS
59
AREA
16016
HEIGHT
6600
21-Jun-2023
13:47
linh
pha



Reason Code:

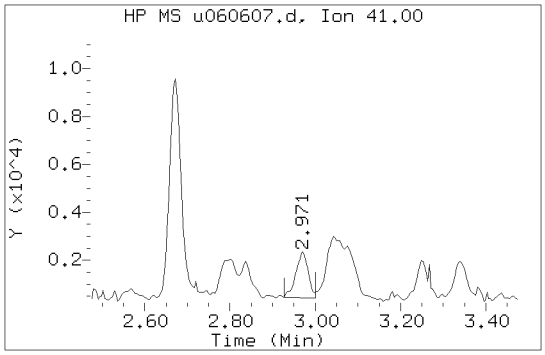
BEFORE

MASS
41
AREA
3907
HEIGHT
1899
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
3907
HEIGHT
1899
21-Jun-2023
13:47
linh
pha

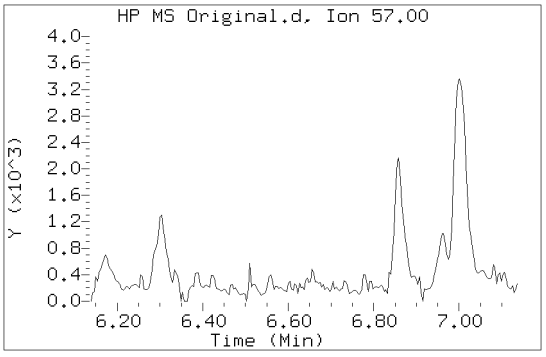


Reason Code:

Epichlorohydrin (106-89-8)

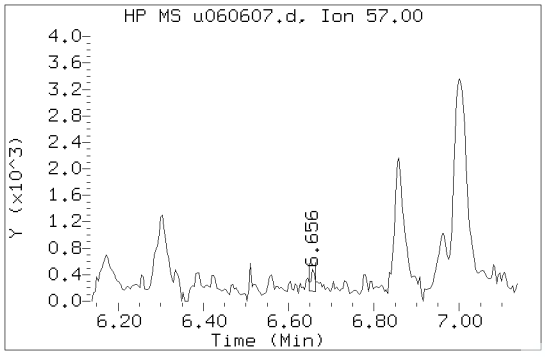
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AFTER

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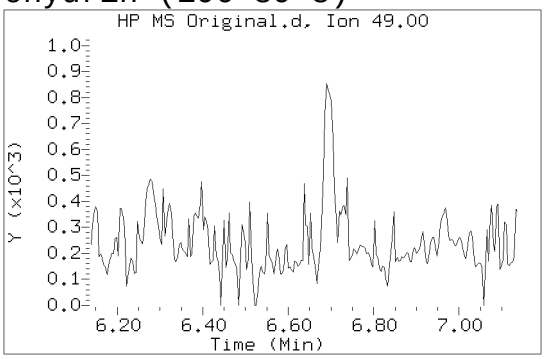
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InstruID : VOA9.i
LabSampID : VSTD001

Epichlorohydrin (106-89-8)

Reason Code:

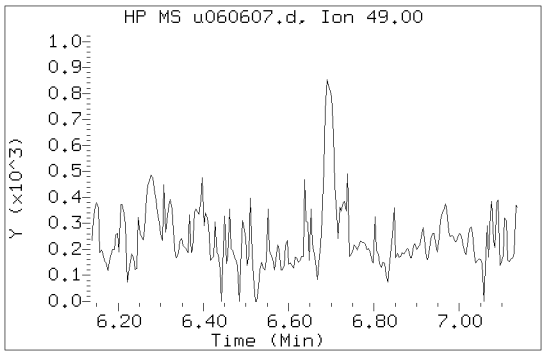
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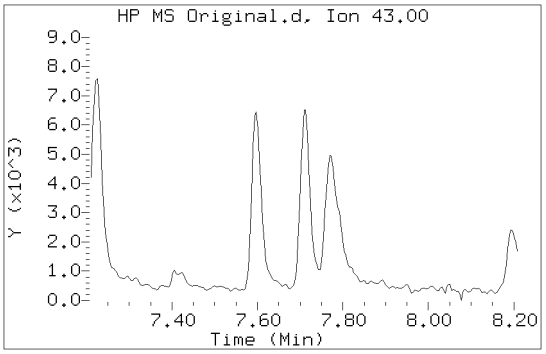


n-Butyl acetate (123-86-4)

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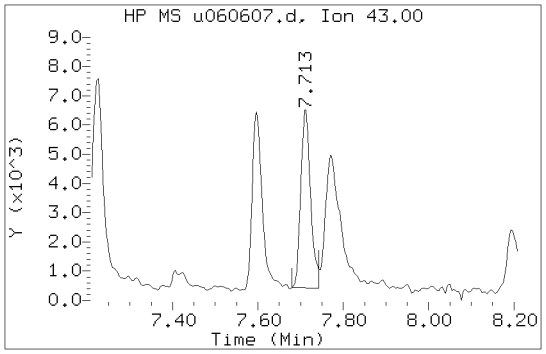
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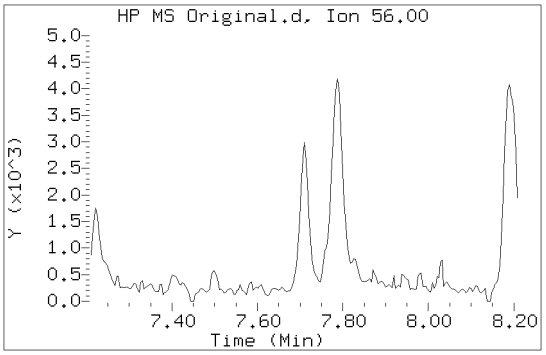
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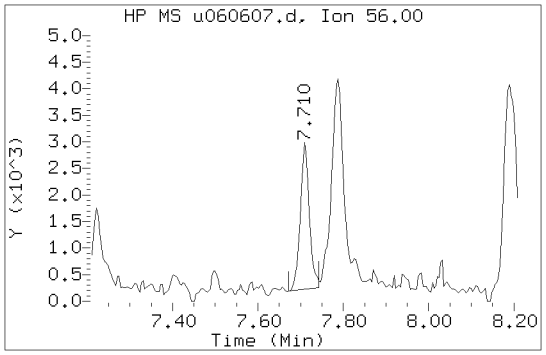
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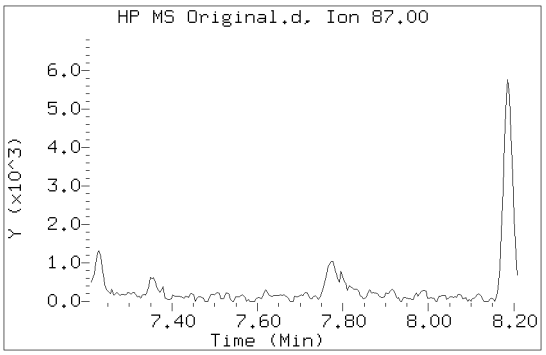
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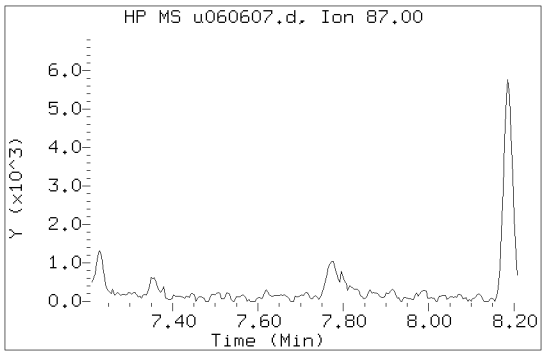
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AFTER

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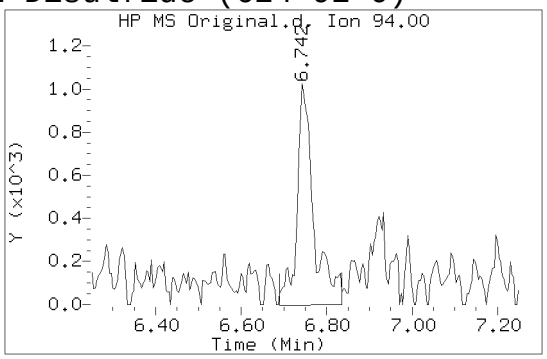


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LabSampID : VSTD001

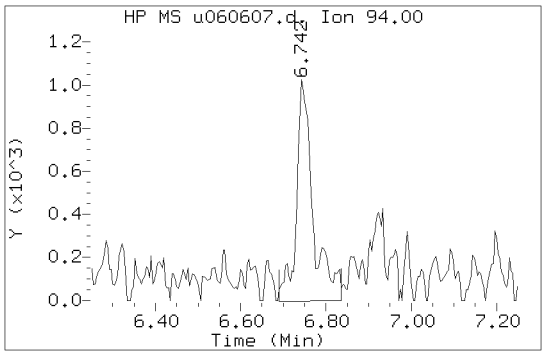
Dimethyl Disulfide (624-92-0)

Reason Code:

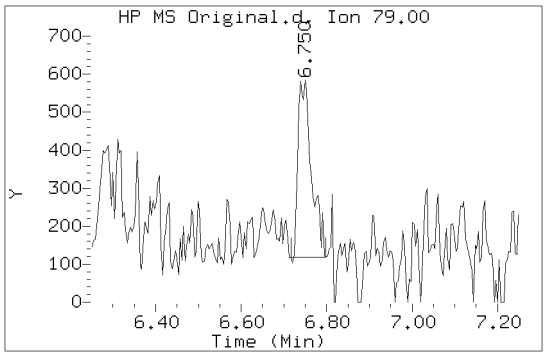
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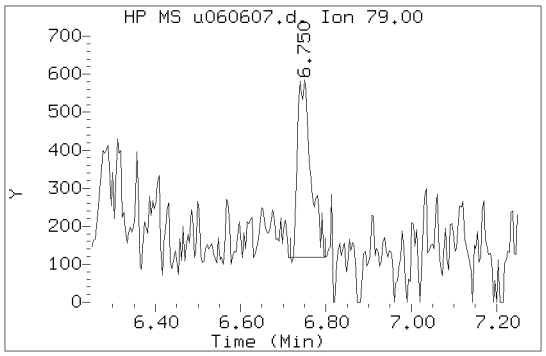
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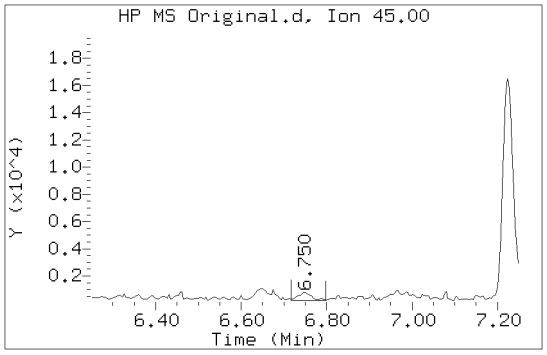
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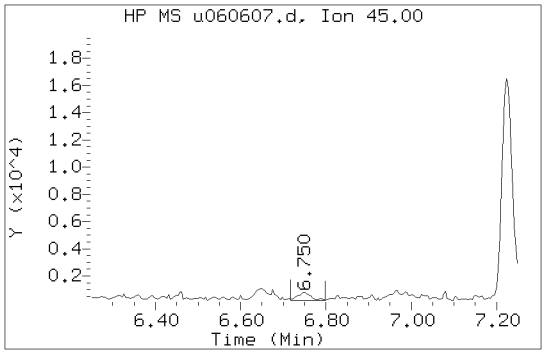
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BEFORE
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08-Jun-2023
14:56
linh
pham



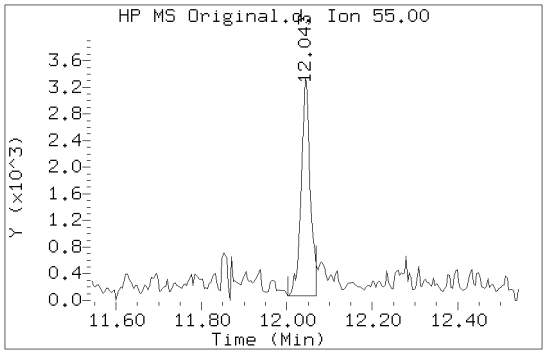
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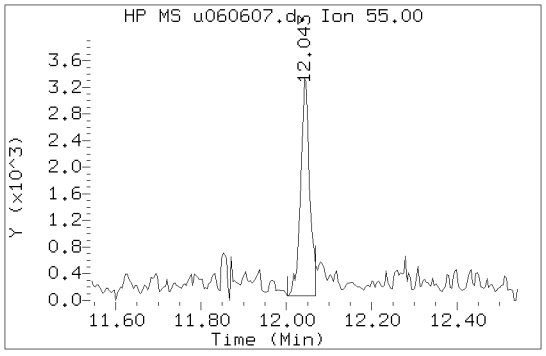
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

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08-Jun-2023
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AFTER
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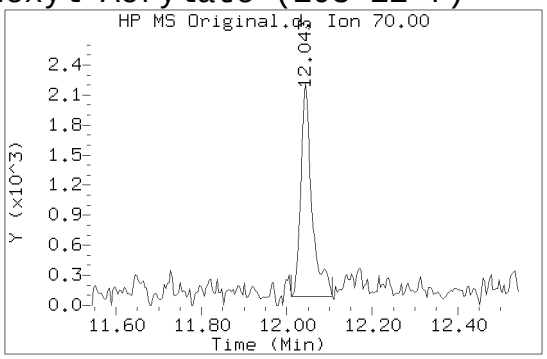
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LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

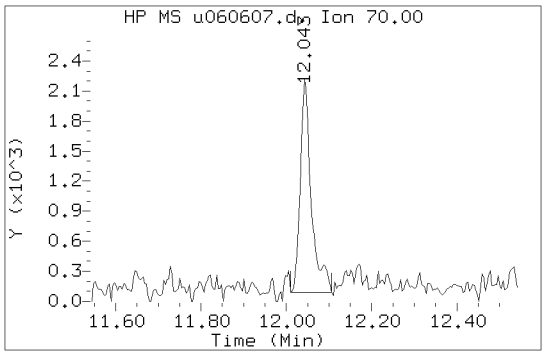
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AFTER

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HEIGHT
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21-Jun-2023
13:47
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D Page 1
Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
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Inj Date : 06-JUN-2023 13:50
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V9;WATER;0;1;
Comment :
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Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:28 Cal File: U060607.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	654680	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	8519	2.00000	1.48(a)
3	Chloromethane	50	1.303	1.303	(0.270)	24280	2.00000	1.17(a)
5	Vinyl Chloride	62	1.385	1.385	(0.288)	12806	2.00000	1.84(a)
6	Bromomethane	94	1.629	1.629	(0.338)	9237	2.00000	0.85(a)
7	Chloroethane	64	1.708	1.708	(0.354)	8750	2.00000	1.87(a)
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	13346	2.00000	1.67(a)
10	Acetone	43	2.420	2.420	(0.502)	18337	4.00000	2.91(a)
11	1,1-Dichloroethene	96	2.341	2.341	(0.486)	8887	2.00000	1.78(a)
15	Iodomethane	142	2.480	2.480	(0.515)	5244	4.00000	11.12(M)
17	Methylene Chloride	84	2.802	2.802	(0.582)	14226	2.00000	1.40(a)
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	27827	2.00000	1.82(a)
19	Carbon Disulfide	76	2.528	2.528	(0.525)	47817	4.00000	3.59(a)
20	trans-1,2-Dichloroethene	96	3.068	3.068	(0.637)	10209	2.00000	1.88(a)
21	Vinyl Acetate	43	3.616	3.616	(0.750)	59931	4.00000	3.63(a)
22	1,1-Dichloroethane	63	3.522	3.522	(0.731)	20288	2.00000	1.97(a)
24	2-Butanone	43	4.279	4.279	(0.888)	11638	4.00000	3.89(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	12294	2.00000	2.19(a)
27	cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	12235	2.00000	1.89(a)
28	Chloroform	83	4.579	4.579	(0.950)	20897	2.00000	1.95(a)

	29 Bromochloromethane	128	4.474	4.474 (0.928)	6927	2.00000	1.91(a)
$	30 Dibromofluoromethane	113	4.755	4.755 (0.987)	10602	2.00000	1.62(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D Page 2
Report Date: 13-Jun-2023 13:01

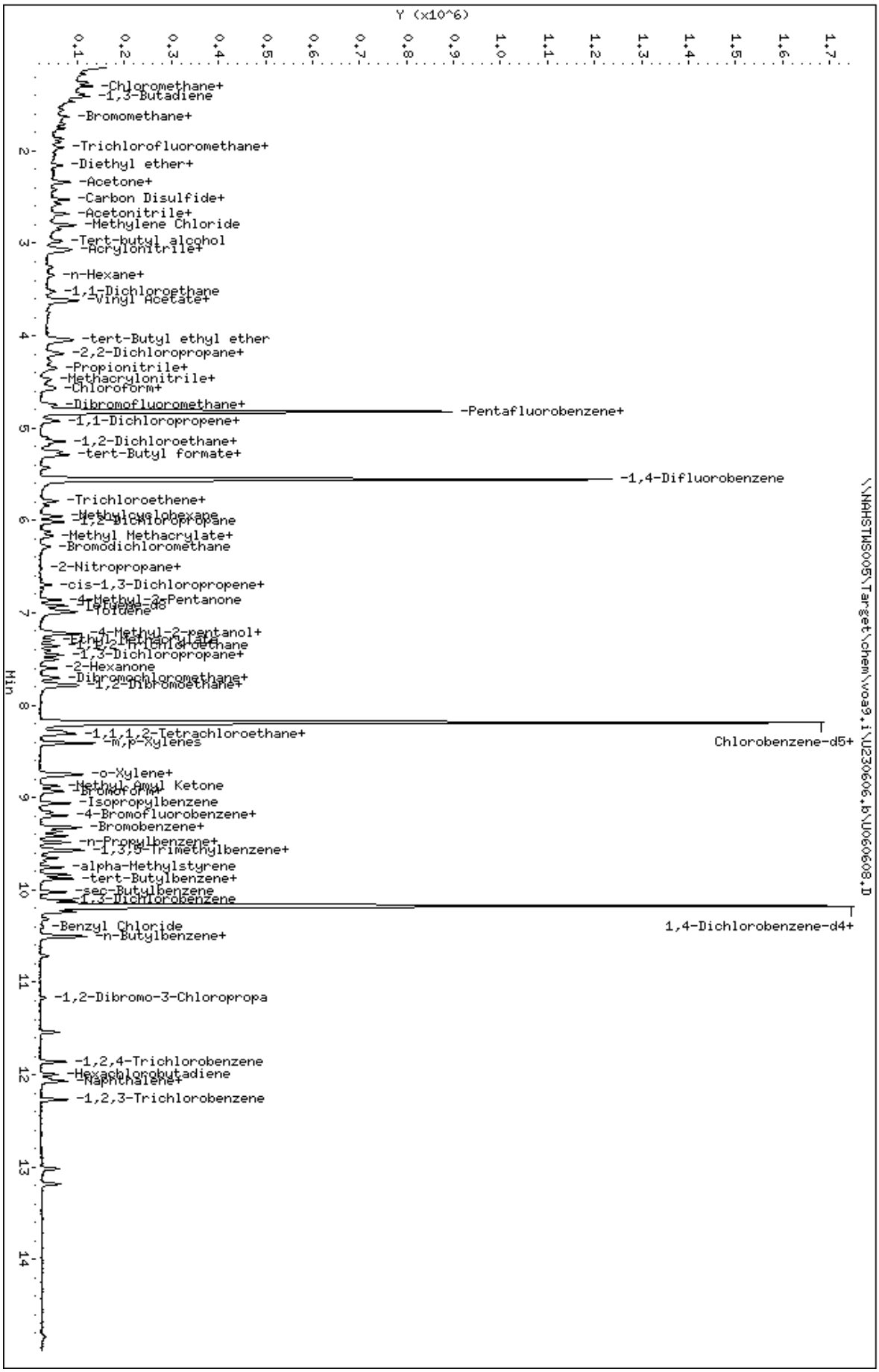
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	13786	2.00000	1.69(a)
	32 1,1-Dichloropropene	75	4.928	4.928	(0.887)	12050	2.00000	1.70(a)
	33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	17690	2.00000	2.12(a)
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	10294	2.00000	1.58(a)
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	11855	2.00000	1.33(a)
*	36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	962707	50.0000	
	37 Benzene	78	5.141	5.141	(0.925)	46993	2.00000	2.02(a)
	38 Trichloroethene	130	5.794	5.794	(1.042)	12341	2.00000	1.83(a)
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	12700	2.00000	1.75(a)
	42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	12117	2.00000	1.95(a)
	44 Dibromomethane	93	6.123	6.123	(1.102)	7782	2.00000	1.96(a)
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	30250	4.00000	4.57(a)
	46 cis-1,3-Dichloropropene	75	6.697	6.697	(1.205)	12842	2.00000	3.18(a)
*	47 Chlorobenzene-d5	117	8.189	8.189	(1.000)	907233	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	36710	2.00000	1.78(a)
	50 Toluene	91	6.986	6.986	(0.853)	45011	2.00000	1.82(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	12660	2.00000	3.51(aM)
	52 2-Hexanone	43	7.597	7.597	(0.928)	23033	4.00000	5.00
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.898)	10667	2.00000	2.08(a)
	54 1,3-Dichloropropane	76	7.503	7.503	(0.916)	21098	2.00000	2.01(a)
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	10276	2.00000	1.69(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	11347	2.00000	1.89(a)
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	12823	2.00000	2.03(a)
	58 1-Chlorohexane	55	8.189	8.189	(1.473)	9554	2.00000	1.93(aM)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	36163	2.00000	2.05(a)
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	11696	2.00000	1.93(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	13970	2.00000	1.70(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	33831	4.00000	3.49(aM)
	63 o-Xylene	106	8.748	8.748	(1.068)	16529	2.00000	1.73(a)
	64 Styrene	104	8.766	8.766	(1.070)	26887	2.00000	1.77(a)
	66 Bromoform	173	8.920	8.920	(1.089)	7583	2.00000	1.84(a)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	39716	2.00000	1.73(a)
	68 1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	21290	2.00000	2.41(aM)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.123)	16728	2.00000	1.19(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	468121	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	17163	2.00000	2.21(aM)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	42411	2.00000	1.72(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	17200	2.00000	2.17(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	31762	2.00000	1.88(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	34904	2.00000	2.02(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	39709	2.00000	2.07(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	29666	2.00000	1.79(a)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	37613	2.00000	2.13(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	35689	2.00000	1.70(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	31988	2.00000	1.81(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	29086	2.00000	2.16(a)
	84 1,4-Dichlorobenzene	146	10.195	10.195	(1.002)	31674	2.00000	2.21(aM)
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	27289	2.00000	1.81(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	30371	2.00000	2.25(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	2819	2.00000	2.19(a)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	19713	2.00000	2.13(a)
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	20459	2.00000	2.26(a)

M	94	1,2-Dichloroethylene (total)	96			22444	4.00000	(a)
	135	1,4-Dioxane	88	6.176	6.176 (1.282)	5764	40.0000	44.34(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
141 Cyclohexane	56	4.785	4.785	(0.993)	8877	2.00000	1.31(aMH)
138 Freon TF	101	2.341	2.341	(0.486)	6997	2.00000	1.59(aM)
140 1,3-Butadiene	54	1.408	1.408	(0.292)	11039	2.00000	1.78(a)
147 Methylcyclohexane	55	5.955	5.955	(1.071)	22206	2.00000	1.66(a)
146 Methyl Acetate	43	2.723	2.723	(0.565)	12288	2.00000	2.22(a)
148 Tert-Butyl alcohol	59	2.978	2.978	(0.618)	34487	40.0000	52.33
149 Isopropyl Alcohol	45	2.573	2.573	(0.534)	22047	40.0000	51.51(T)
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.145)	1936	2.00000	1.85(M)
12 Isobutyl Alcohol	43	5.295	5.295	(1.099)	31429	40.0000	36.94(M)
13 Acetonitrile	39	2.678	2.678	(0.556)	13701	20.0000	19.32
40 Methyl Methacrylate	41	6.161	6.161	(1.278)	9826	2.00000	1.74
4 Propionitrile	54	4.350	4.350	(0.903)	17197	20.0000	18.17(a)
136 n-Hexane	57	3.346	3.346	(0.694)	7179	2.00000	1.45(a)
131 Methyl Acrylate	55	4.377	4.377	(0.908)	11843	2.00000	1.71(aM)
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	4598	2.00000	5.17(M)
49 Ethyl Methacrylate	69	7.297	7.297	(1.313)	13205	2.00000	1.56(a)
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	34972	2.00000	1.94(a)
167 Ethanol	45	2.090	2.090	(0.434)	4910	40.0000	38.64
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	43120	2.00000	1.88(a)
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	14955	2.00000	5.11
156 Diisopropyl ether	45	3.627	3.627	(0.753)	35538	2.00000	1.94(Ta)
151 4-Methyl-2-pentanol	45	7.226	7.226	(1.300)	47340	40.0000	33.06
150 Allyl alcohol	57	3.346	3.346	(0.694)	7179	40.0000	29.86
86 Benzyl Chloride	91	10.315	10.315	(1.260)	11203	2.00000	5.38
162 Butyl acrylate	55	8.740	8.740	(1.067)	18210	2.00000	1.69(a)
139 Diethyl ether	59	2.154	2.154	(0.447)	8174	2.00000	1.84(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	8201	2.00000	3.58(a)
134 Cyclohexanone	55	9.156	9.156	(0.900)	11087	40.0000	38.20(a)
130 Ethyl Acetate	43	4.279	4.279	(0.888)	11855	2.00000	2.02(aM)
189 n-Butyl acetate	43	7.713	7.713	(0.942)	21837	2.00000	2.11(aM)
182 Epichlorohydrin	57	6.637	6.637	(1.194)	854	8.00000	18.93(M)

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.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230606.b\U060608.D
Date : 06-JUN-2023 13:50
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

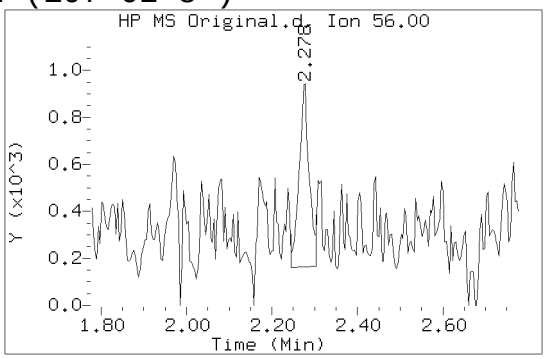
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

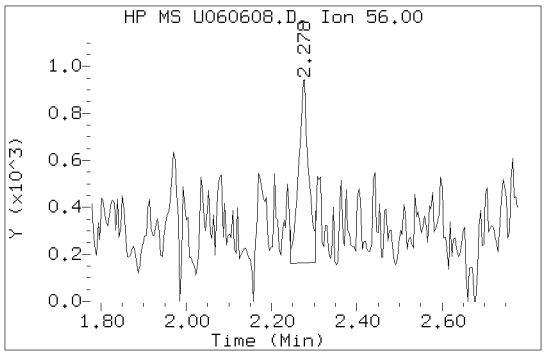
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HEIGHT
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08-Jun-2023
14:56
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pham



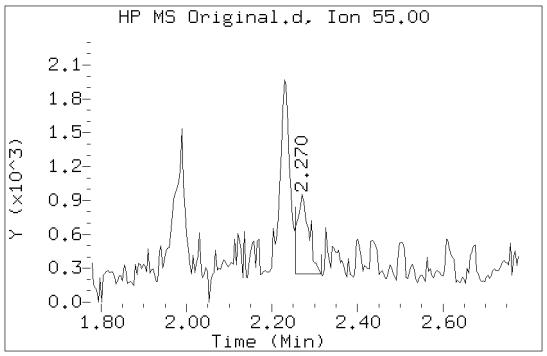
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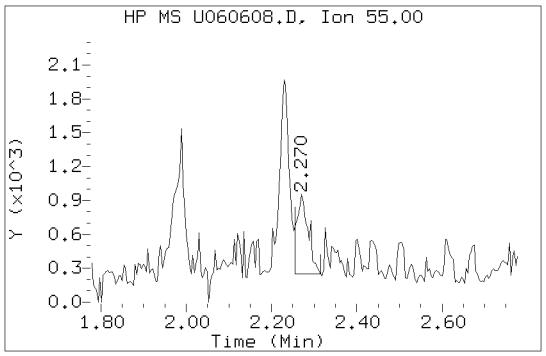
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706
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AFTER

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13-Jun-2023
13:00
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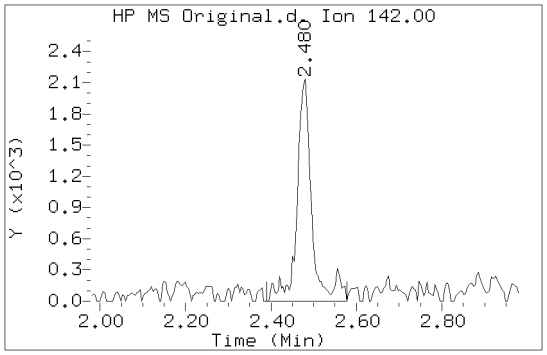


Iodomethane (74-88-4)

Reason Code:

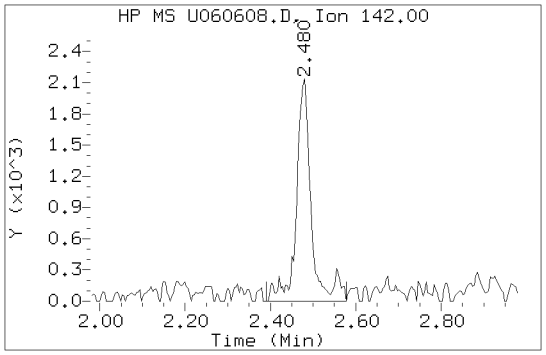
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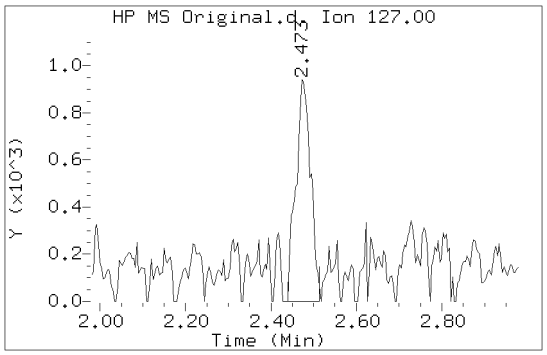
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13-Jun-2023
13:00
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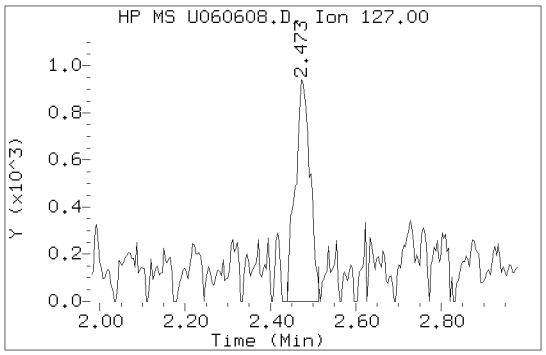
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941
08-Jun-2023
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AFTER

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2301
HEIGHT
941
13-Jun-2023
13:00
linh
pham



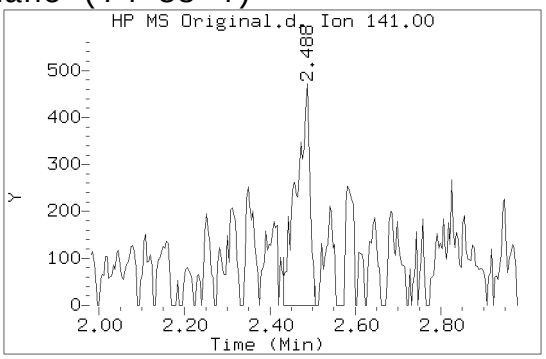
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InstruID : VOA9.i
LabSampID : VSTD002

Iodomethane (74-88-4)

Reason Code:

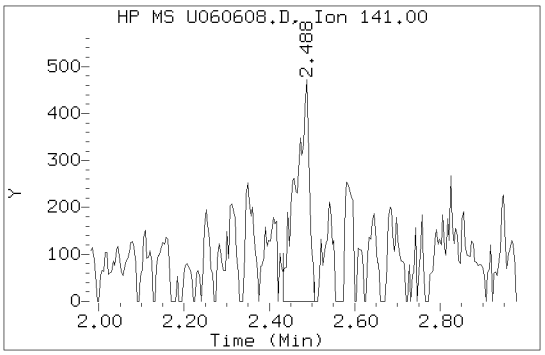
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AFTER

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13-Jun-2023
13:00
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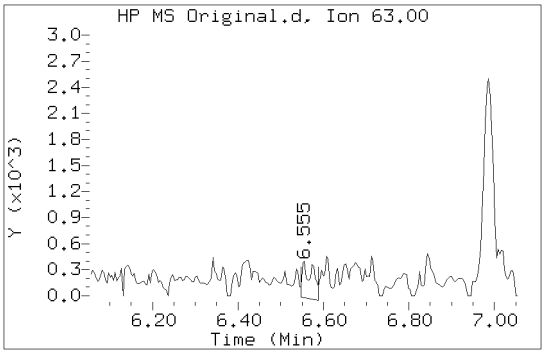


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

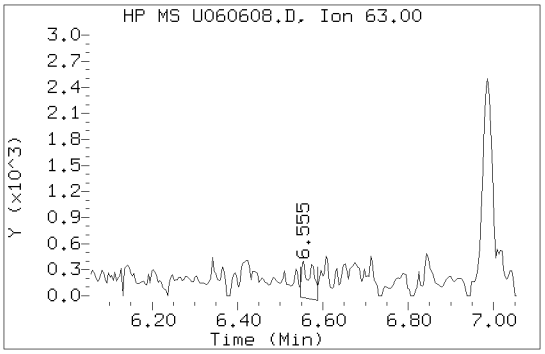
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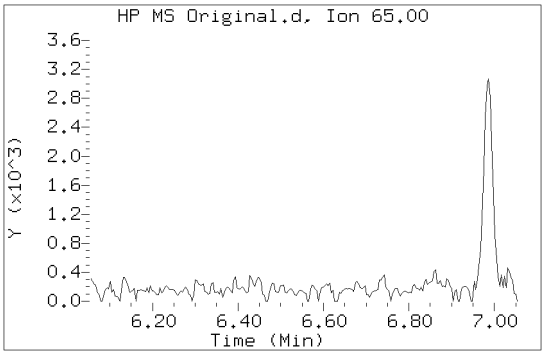
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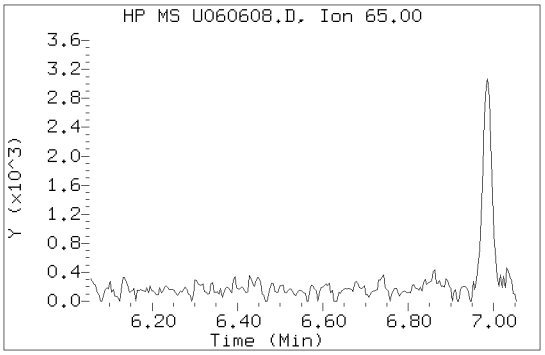
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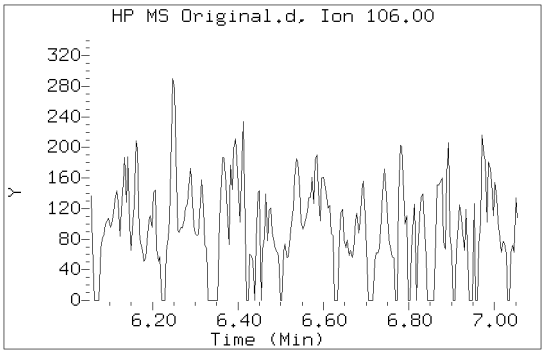
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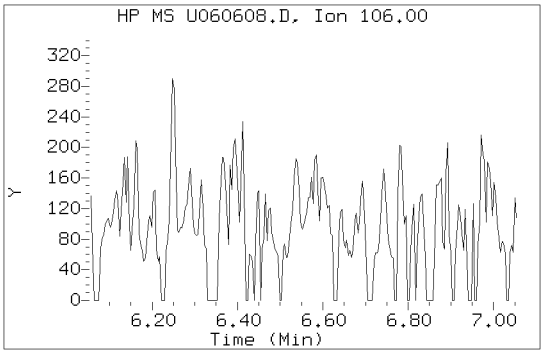
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AFTER

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HEIGHT
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13-Jun-2023
13:00
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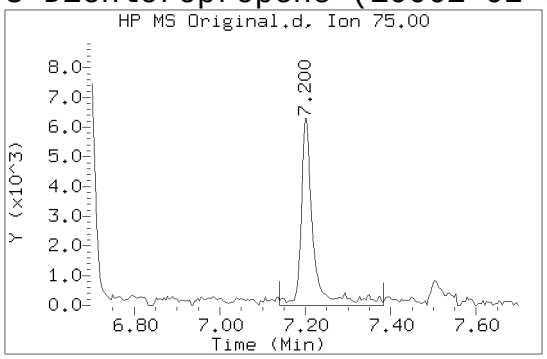
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

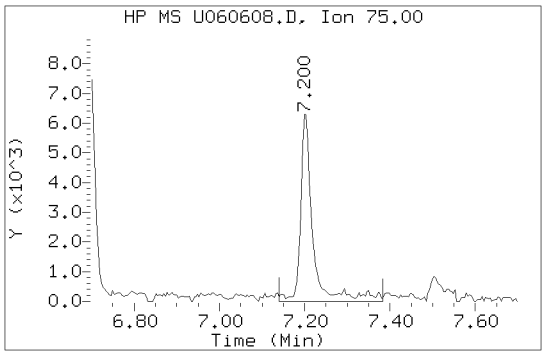
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14:56
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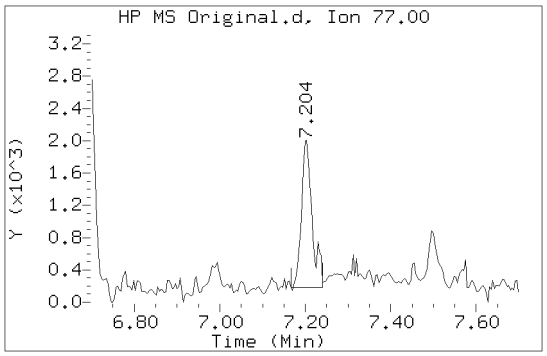
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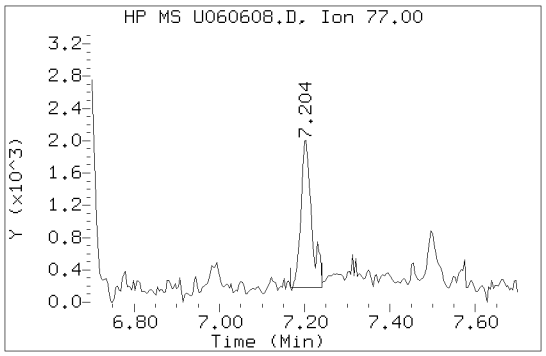
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08-Jun-2023
14:56
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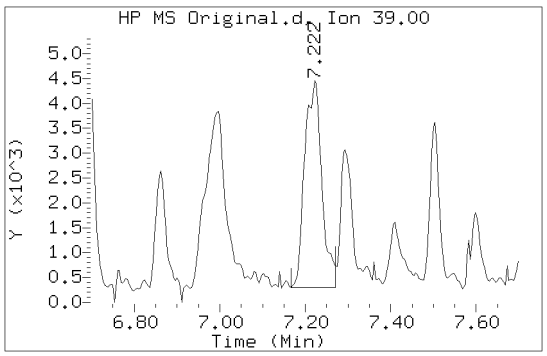
AFTER

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13:00
linh
pham



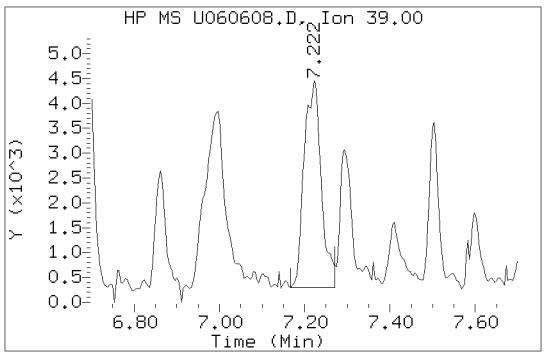
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AFTER

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13-Jun-2023
13:00
linh
pham

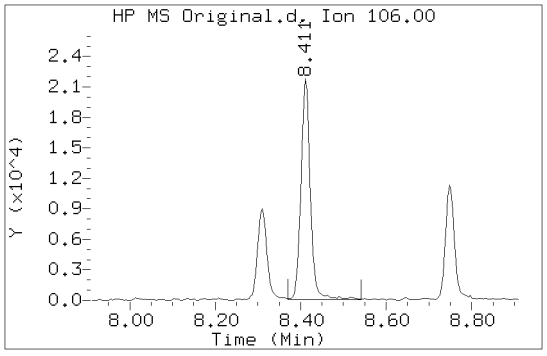


m,p-Xylenes ()

Reason Code:

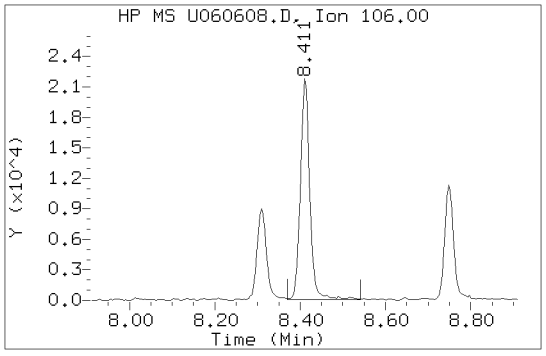
BEFORE

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HEIGHT
21724
08-Jun-2023
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AFTER

MASS
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33831
HEIGHT
21724
13-Jun-2023
13:00
linh
pham



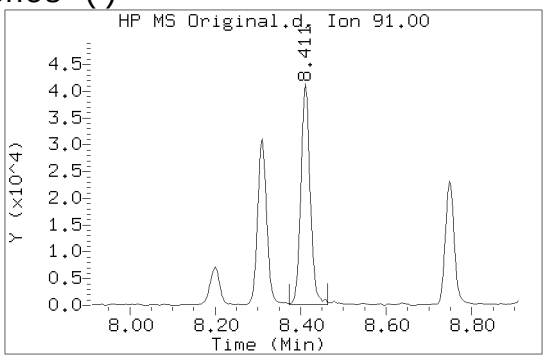
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

m,p-Xylenes ()

Reason Code:

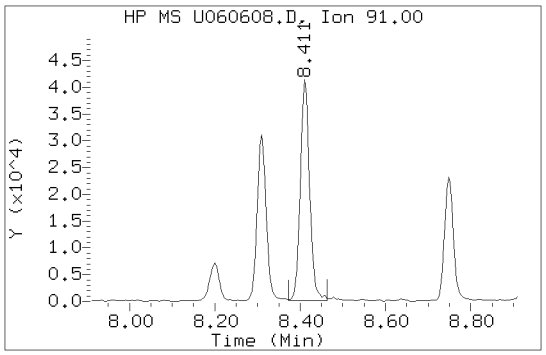
BEFORE

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HEIGHT
41264
08-Jun-2023
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AFTER

MASS
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41264
13-Jun-2023
13:00
linh
pham

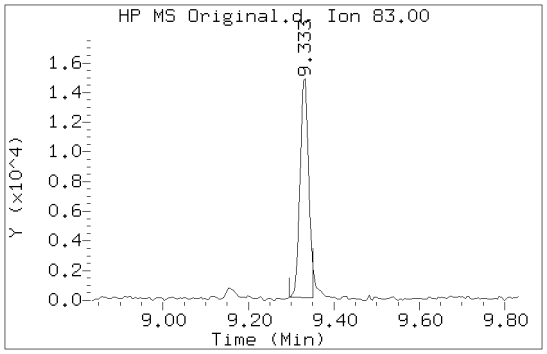


1,1,2,2-Tetrachloroethane (79-34-5)

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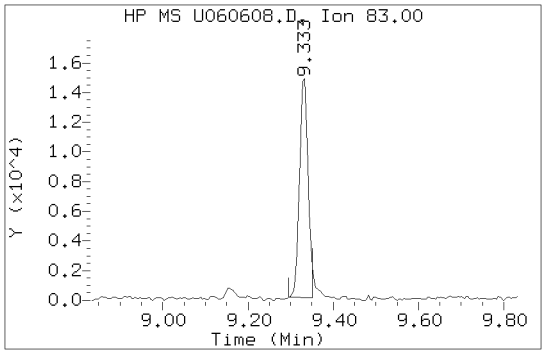
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14:56
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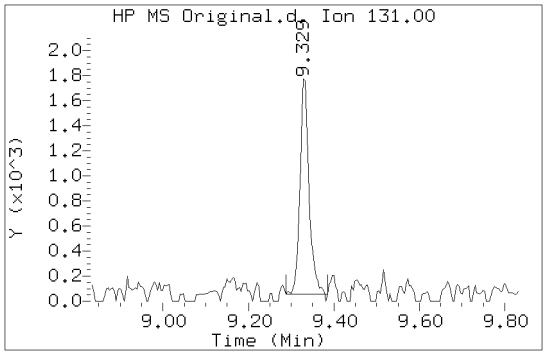
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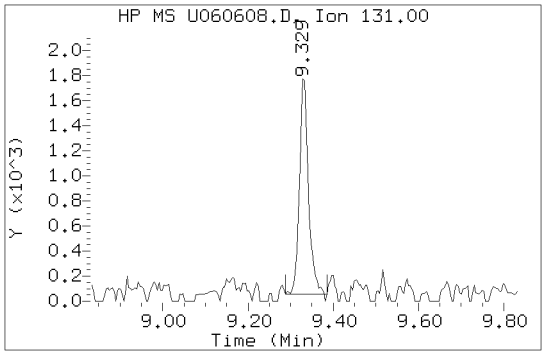
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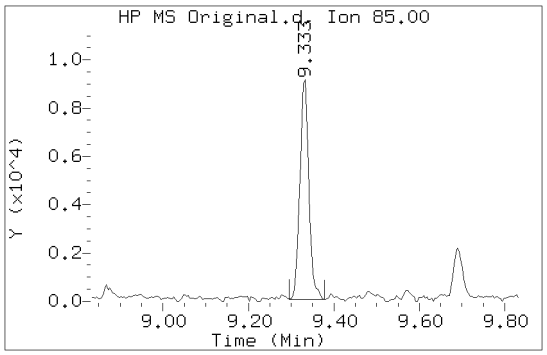
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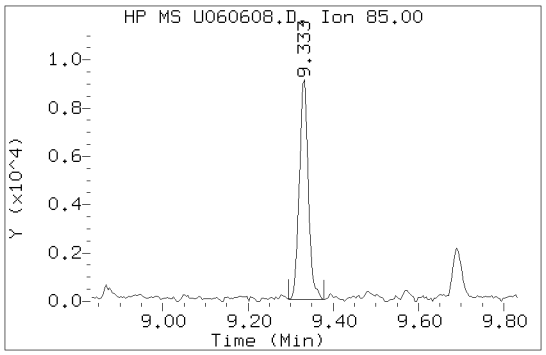
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linh
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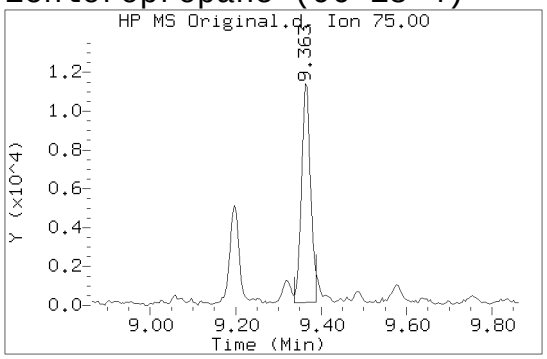
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1,2,3-Trichloropropane (96-18-4)

Reason Code:

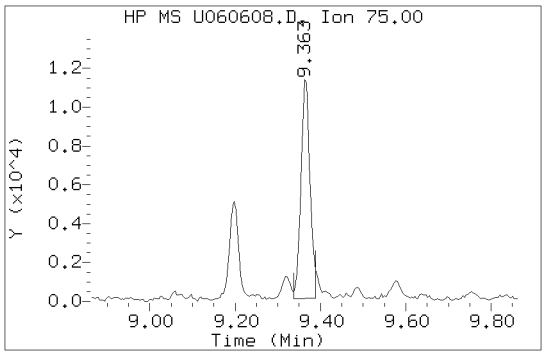
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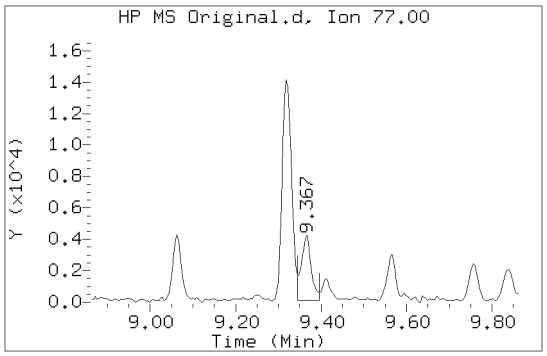
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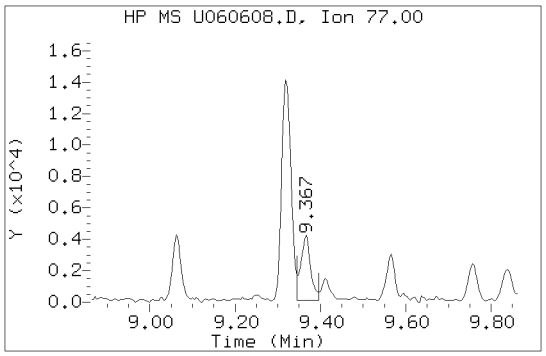
BEFORE

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AFTER

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13:00
linh
pham

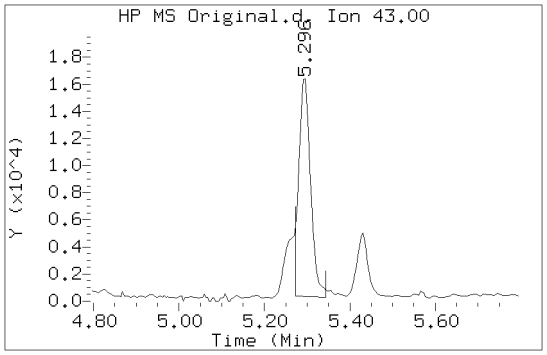


Isobutyl Alcohol (78-83-1)

Reason Code:

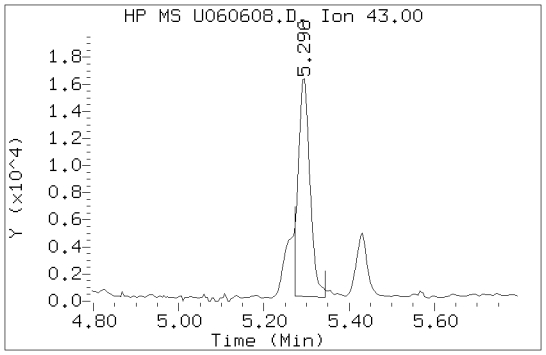
BEFORE

MASS
43
AREA
31429
HEIGHT
16036
08-Jun-2023
14:56
linh
pham



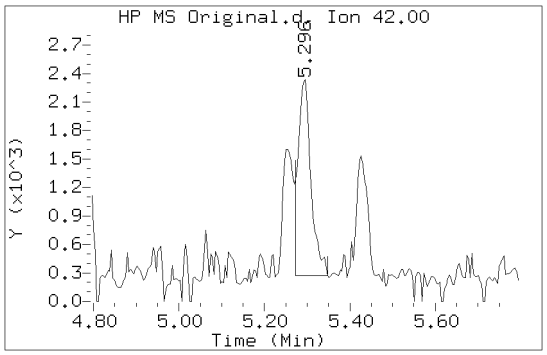
AFTER

MASS
43
AREA
31429
HEIGHT
16036
13-Jun-2023
13:00
linh
pham



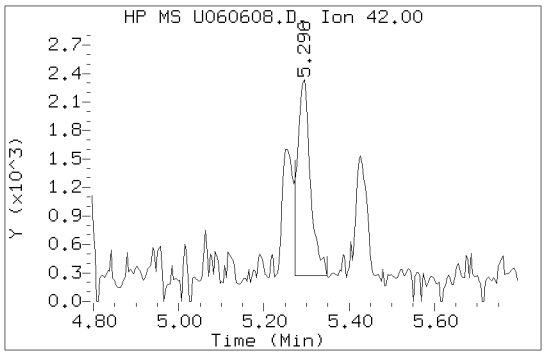
BEFORE

MASS
42
AREA
4414
HEIGHT
2065
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
4414
HEIGHT
2065
13-Jun-2023
13:00
linh
pham



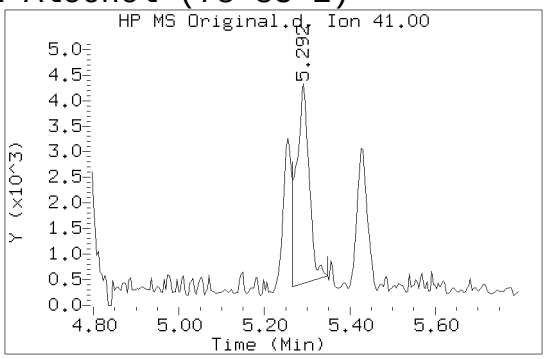
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Isobutyl Alcohol (78-83-1)

Reason Code:

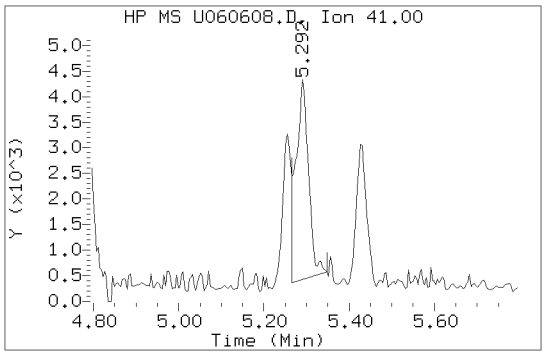
BEFORE

MASS
41
AREA
8253
HEIGHT
3899
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
8253
HEIGHT
3899
13-Jun-2023
13:00
linh
pham

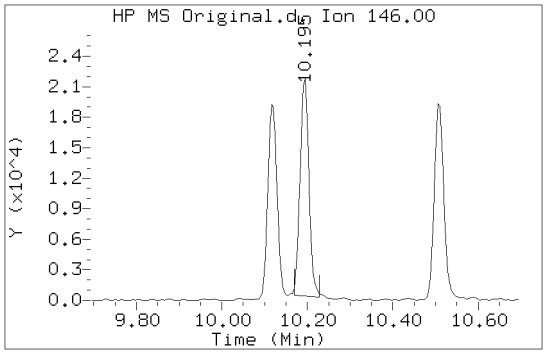


1,4-Dichlorobenzene (106-46-7)

Reason Code:

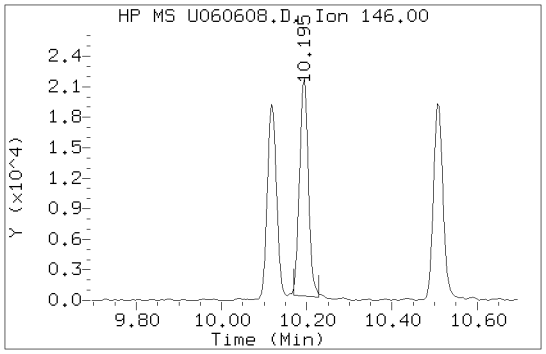
BEFORE

MASS
146
AREA
31674
HEIGHT
21370
08-Jun-2023
14:56
linh
pham



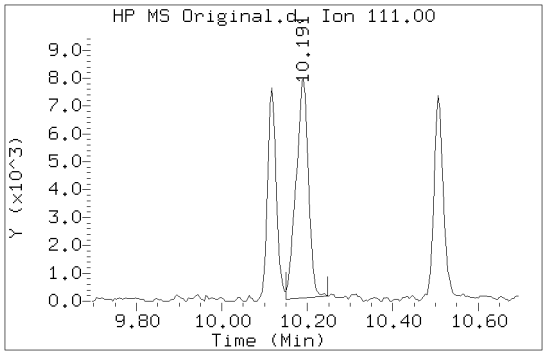
AFTER

MASS
146
AREA
31674
HEIGHT
21370
13-Jun-2023
13:00
linh
pham



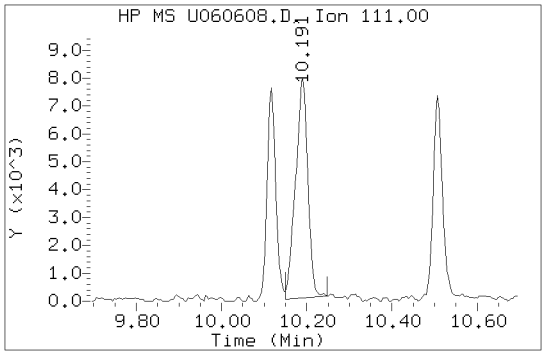
BEFORE

MASS
111
AREA
16075
HEIGHT
7847
08-Jun-2023
14:56
linh
pham



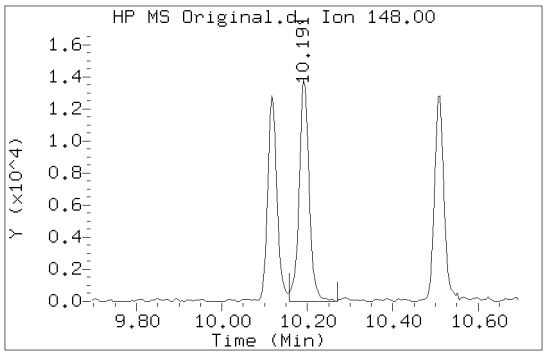
AFTER

MASS
111
AREA
16075
HEIGHT
7847
13-Jun-2023
13:00
linh
pham



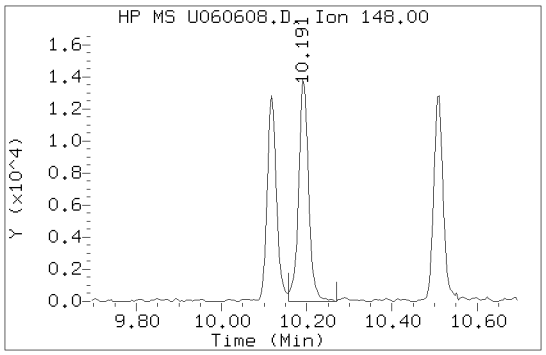
BEFORE

MASS
148
AREA
23144
HEIGHT
13826
08-Jun-2023
14:56
linh
pham



AFTER

MASS
148
AREA
23144
HEIGHT
13826
13-Jun-2023
13:00
linh
pham



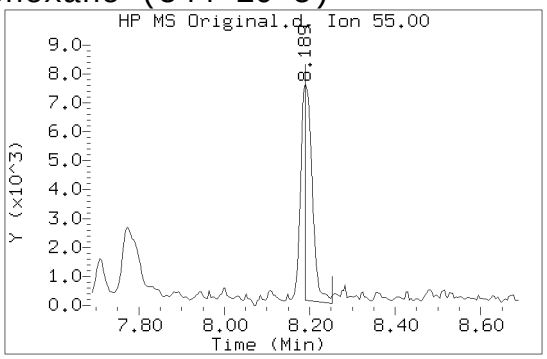
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1-Chlorohexane (544-10-5)

Reason Code:

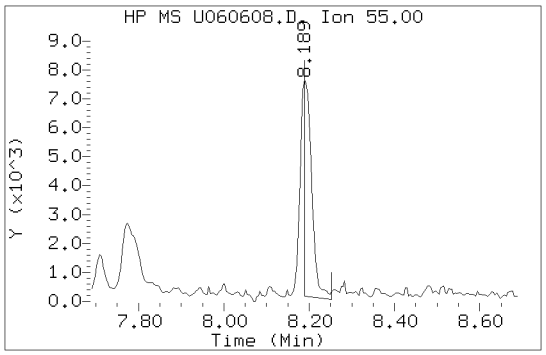
BEFORE

MASS
55
AREA
9554
HEIGHT
7479
08-Jun-2023
14:56
linh
pham



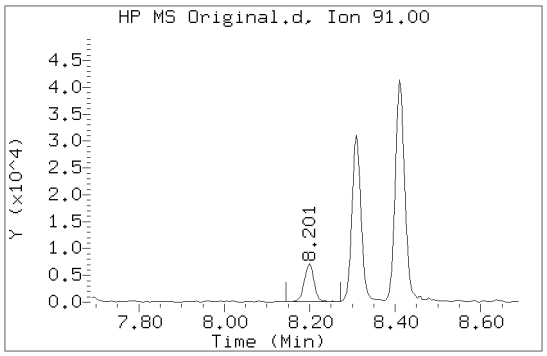
AFTER

MASS
55
AREA
9554
HEIGHT
7479
13-Jun-2023
13:00
linh
pham



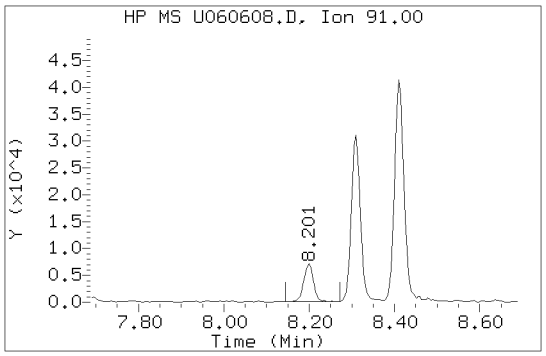
BEFORE

MASS
91
AREA
11373
HEIGHT
7051
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
11373
HEIGHT
7051
13-Jun-2023
13:00
linh
pham

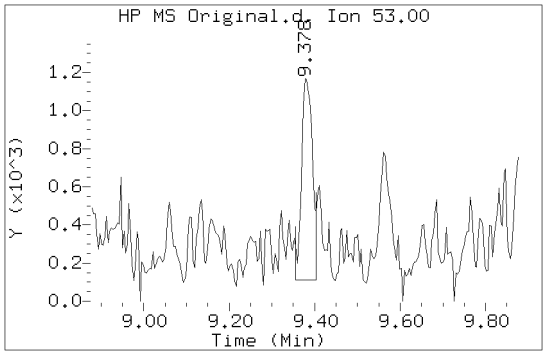


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

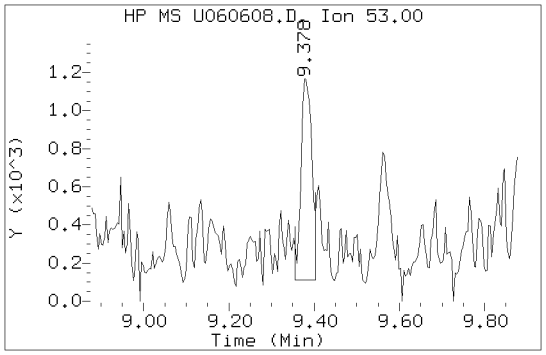
BEFORE

MASS
53
AREA
1936
HEIGHT
1056
08-Jun-2023
14:56
linh
pham



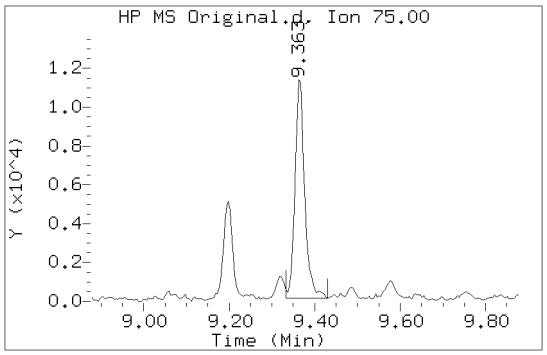
AFTER

MASS
53
AREA
1936
HEIGHT
1056
13-Jun-2023
13:00
linh
pham



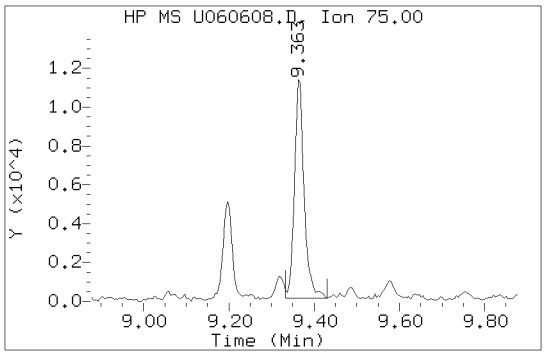
BEFORE

MASS
75
AREA
18151
HEIGHT
11253
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
18151
HEIGHT
11253
13-Jun-2023
13:00
linh
pham

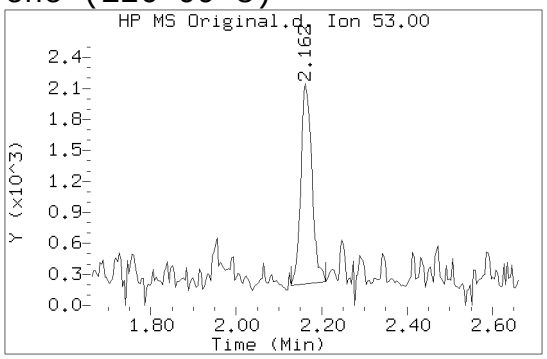


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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

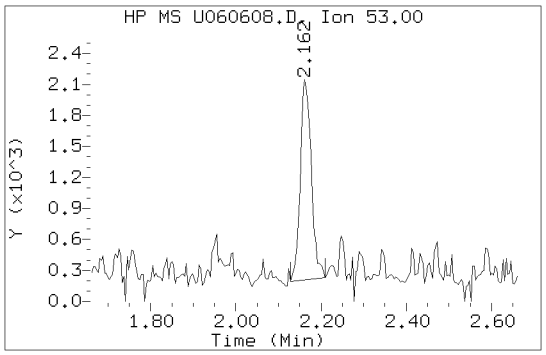
Chloroprene (126-99-8)

Reason Code:

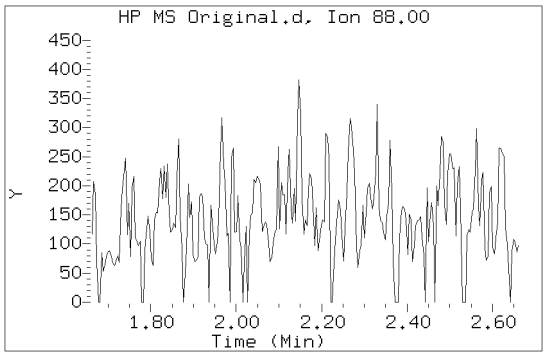
BEFORE
MASS
53
AREA
3552
HEIGHT
1939
08-Jun-2023
14:56
linh
pham



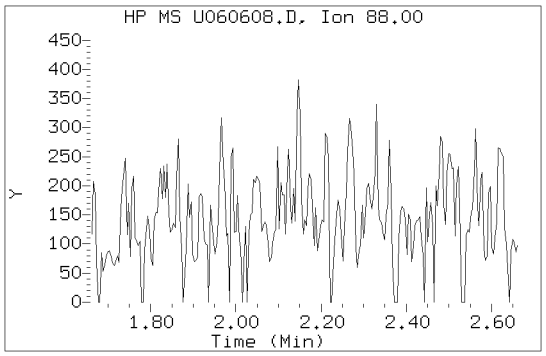
AFTER
MASS
53
AREA
3552
HEIGHT
1939
13-Jun-2023
13:00
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



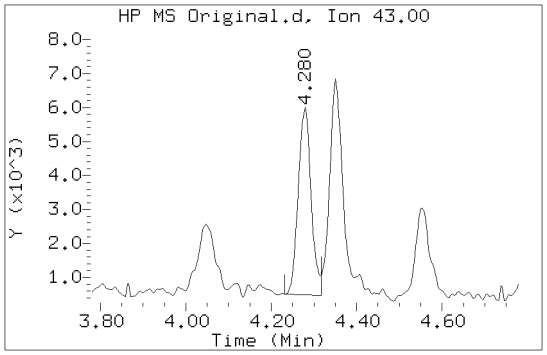
AFTER
MASS
88
AREA
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HEIGHT
0
13-Jun-2023
13:00
linh
pham



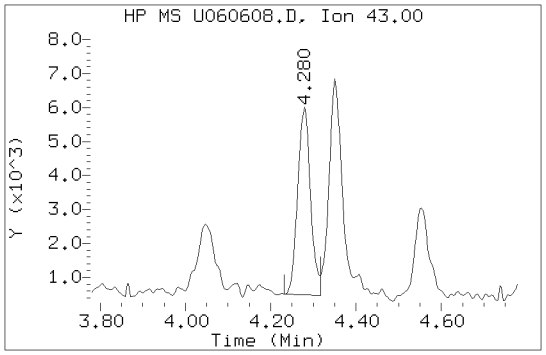
Ethyl Acetate (141-78-6)

Reason Code:

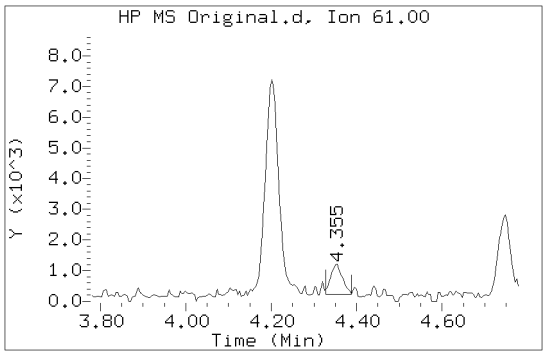
BEFORE
MASS
43
AREA
11855
HEIGHT
5517
08-Jun-2023
14:56
linh
pham



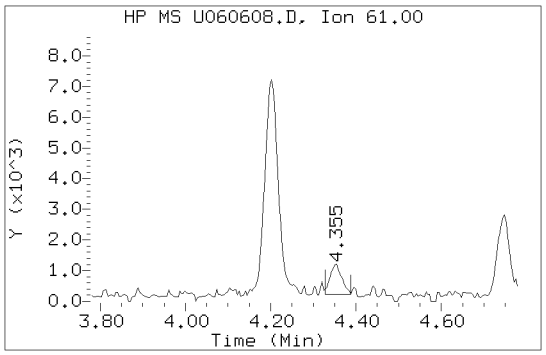
AFTER
MASS
43
AREA
11855
HEIGHT
5517
13-Jun-2023
13:00
linh
pham



BEFORE
MASS
61
AREA
1871
HEIGHT
977
08-Jun-2023
14:56
linh
pham



AFTER
MASS
61
AREA
1871
HEIGHT
977
13-Jun-2023
13:00
linh
pham



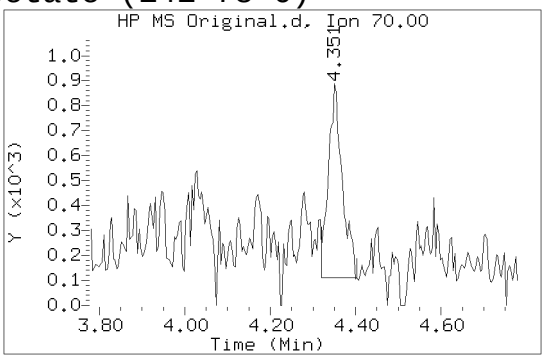
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

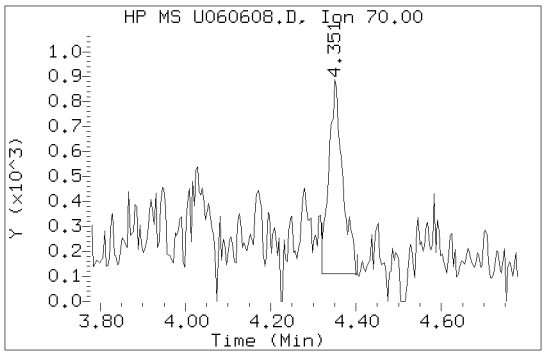
BEFORE

MASS
70
AREA
1750
HEIGHT
777
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
1750
HEIGHT
777
13-Jun-2023
13:00
linh
pham

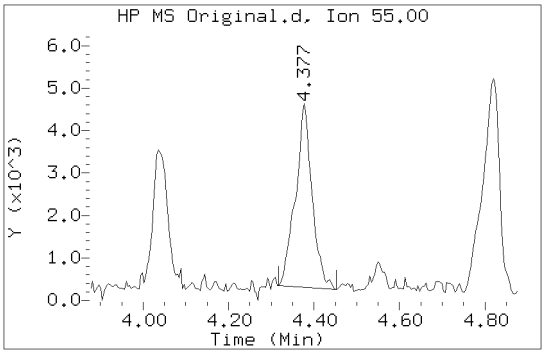


Methyl Acrylate (96-33-3)

Reason Code:

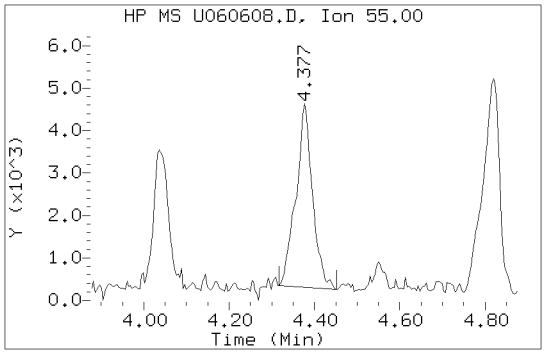
BEFORE

MASS
55
AREA
11843
HEIGHT
4323
08-Jun-2023
14:56
linh
pham



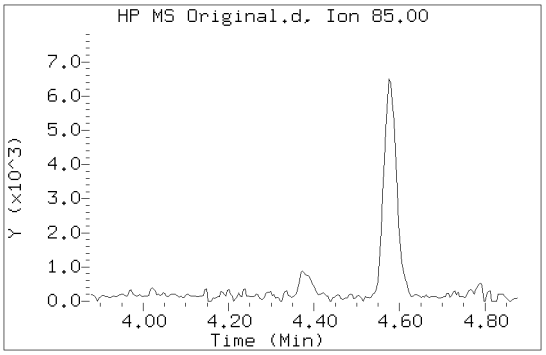
AFTER

MASS
55
AREA
11843
HEIGHT
4323
13-Jun-2023
13:00
linh
pham



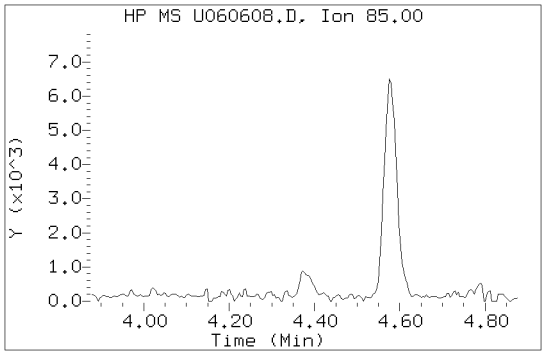
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

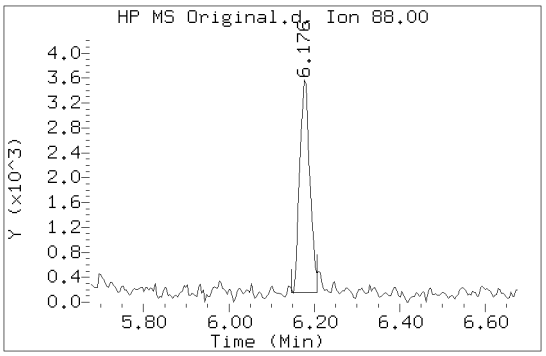


1,4-Dioxane ()

Reason Code:

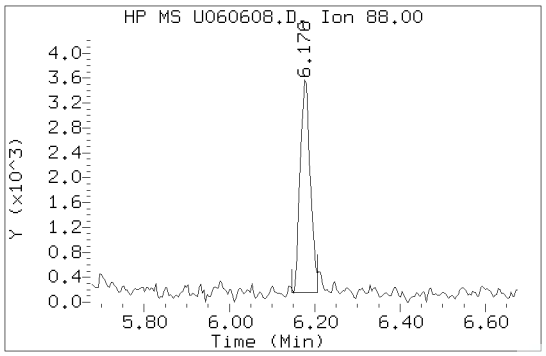
BEFORE

MASS
88
AREA
5764
HEIGHT
3411
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
5764
HEIGHT
3411
13-Jun-2023
13:00
linh
pham



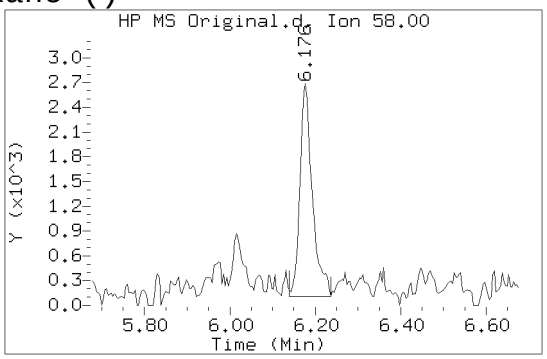
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Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

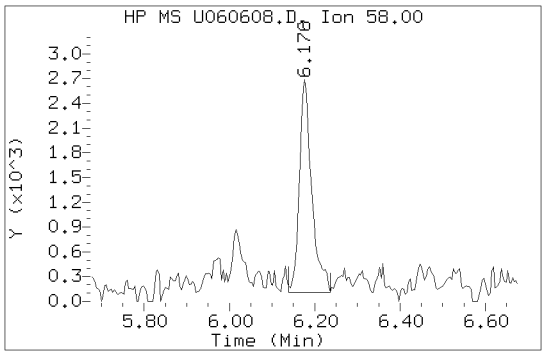
BEFORE

MASS
58
AREA
5271
HEIGHT
2575
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
5271
HEIGHT
2575
13-Jun-2023
13:00
linh
pham

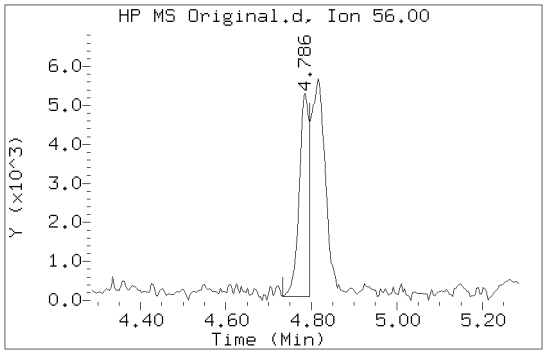


Cyclohexane (110-82-7)

Reason Code:

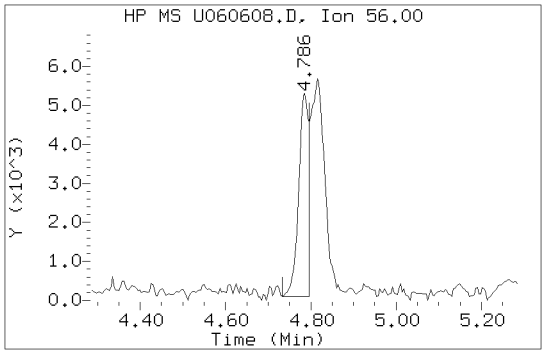
BEFORE

MASS
56
AREA
8877
HEIGHT
5201
08-Jun-2023
14:56
linh
pham



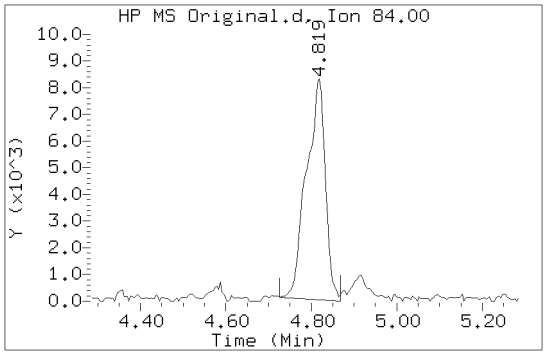
AFTER

MASS
56
AREA
8877
HEIGHT
5201
13-Jun-2023
13:00
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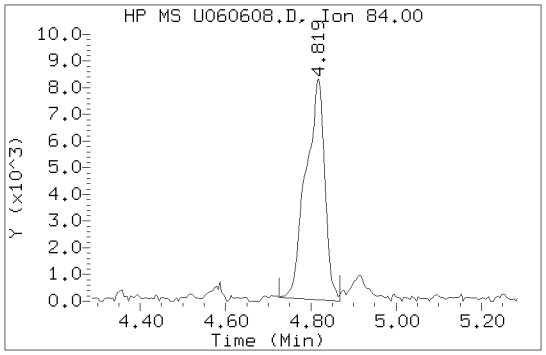
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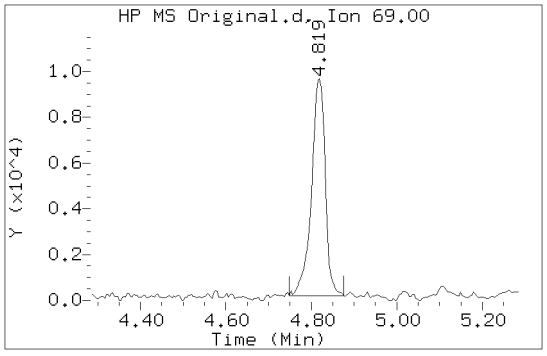
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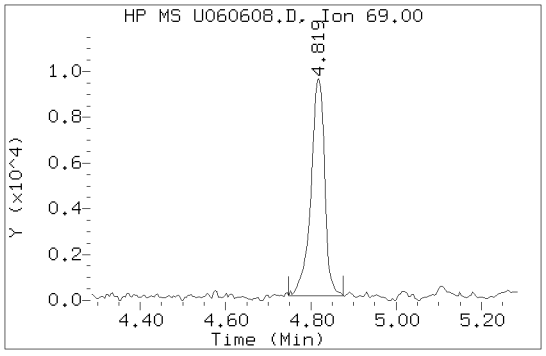
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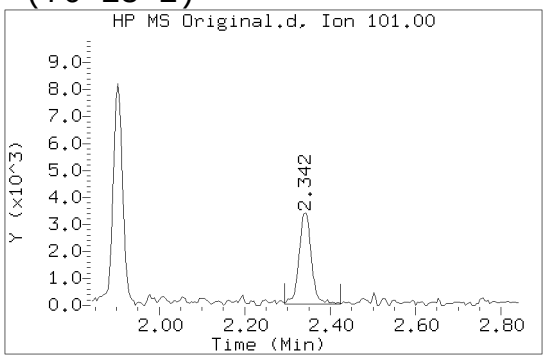


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InstruID : VOA9.i
LabSampID : VSTD002

Freon TF (76-13-1)

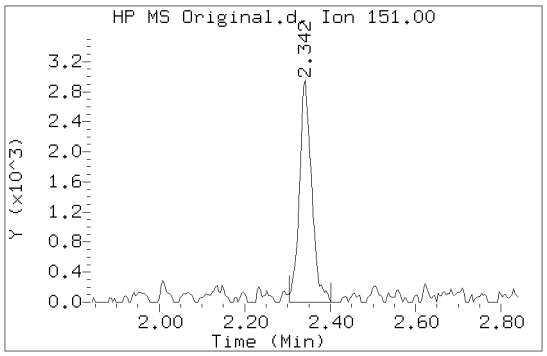
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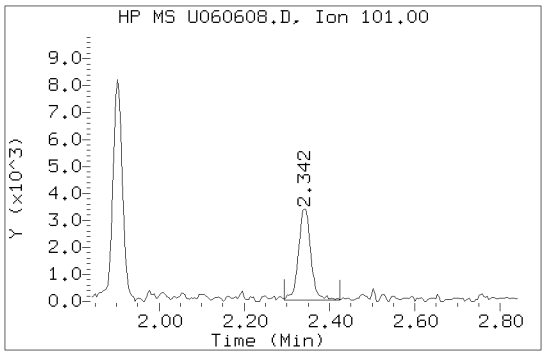
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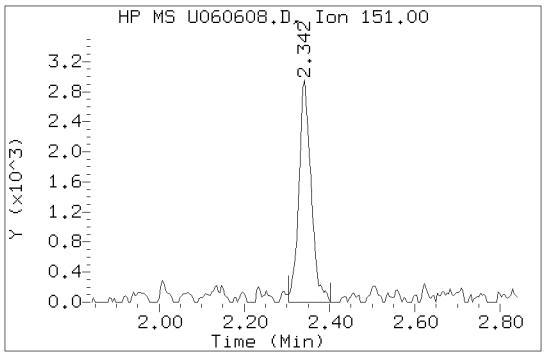
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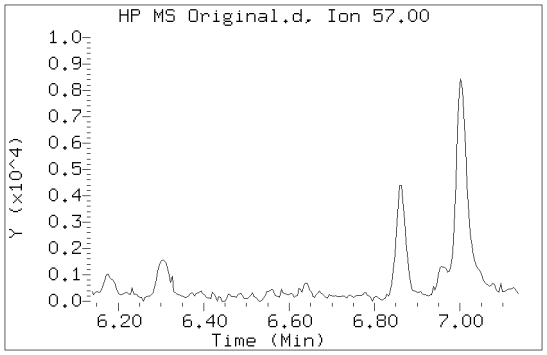
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Epichlorohydrin (106-89-8)

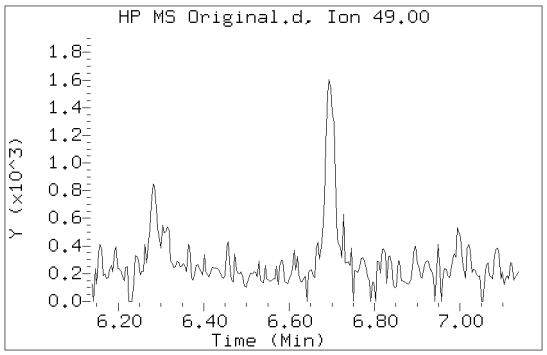
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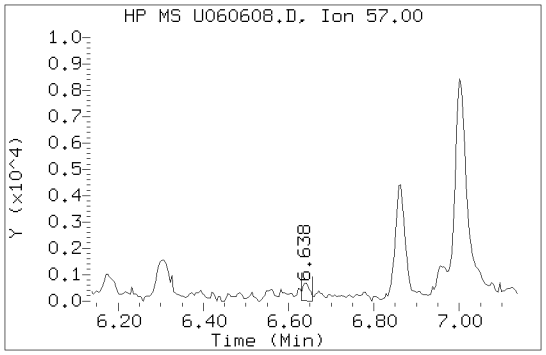
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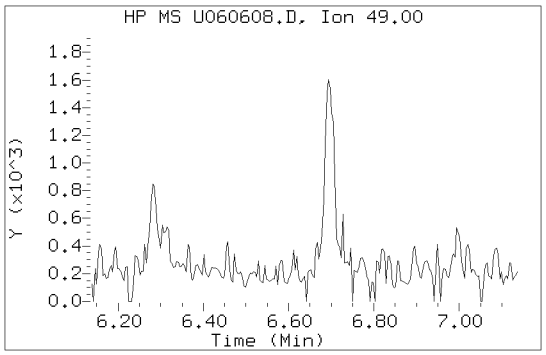
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AFTER

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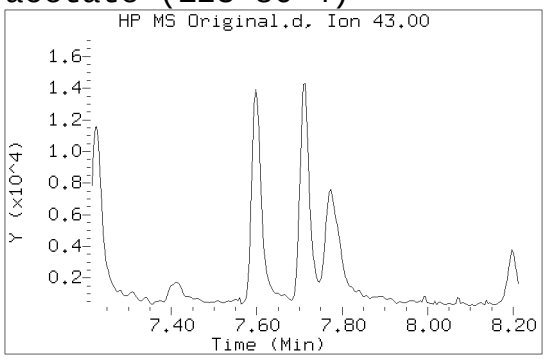


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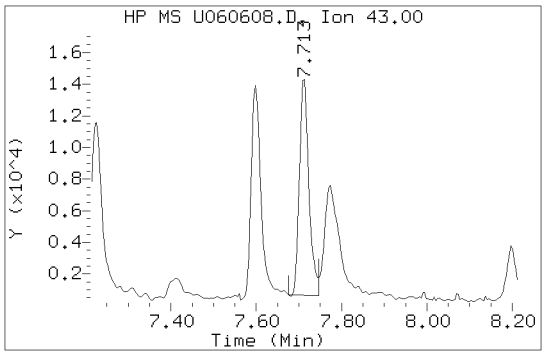
n-Butyl acetate (123-86-4)

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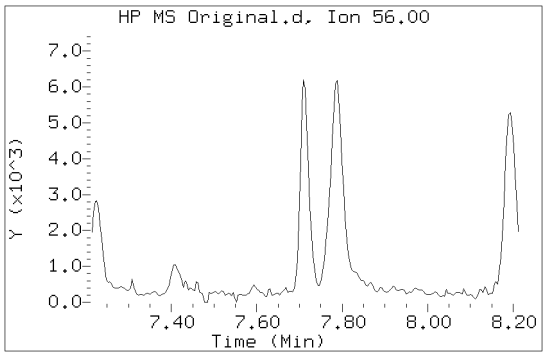
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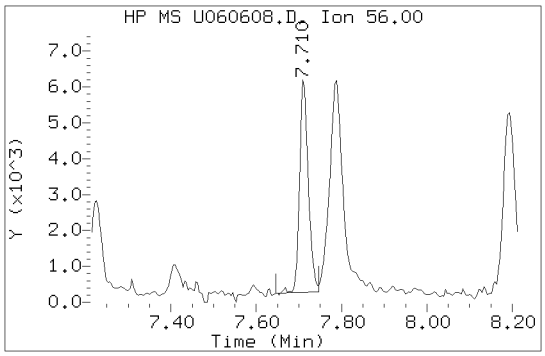
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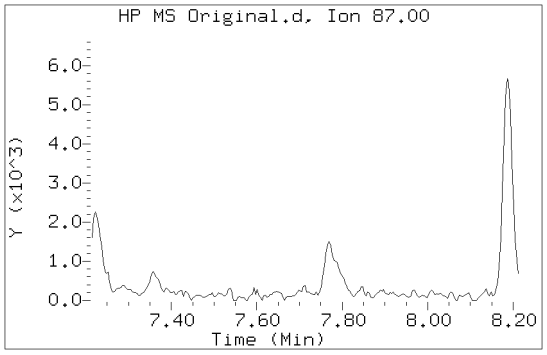
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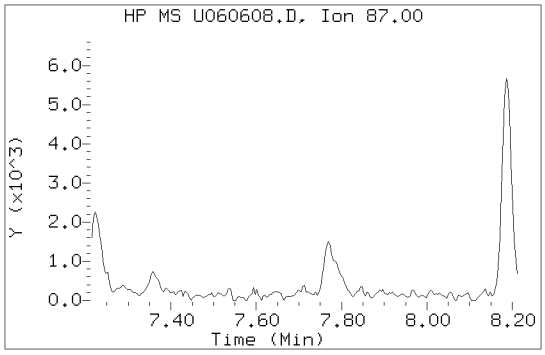
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BEFORE
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08-Jun-2023
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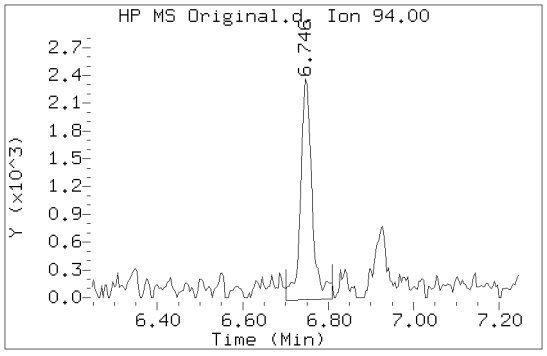
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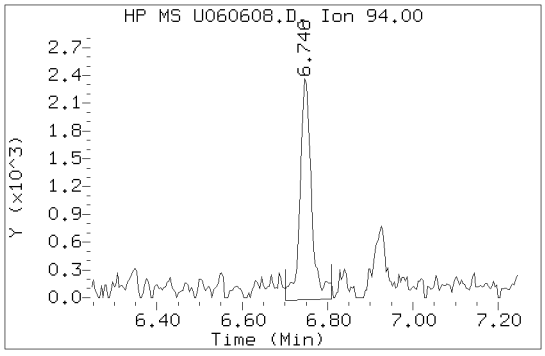
Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
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08-Jun-2023
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AFTER
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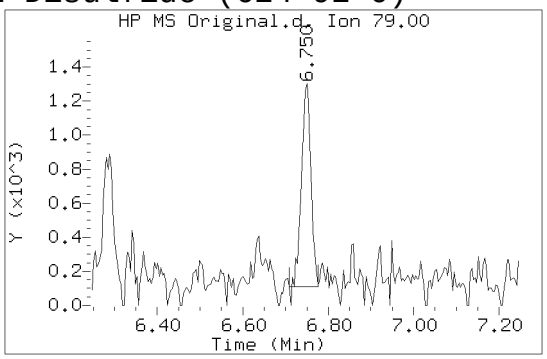


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LabSampID : VSTD002

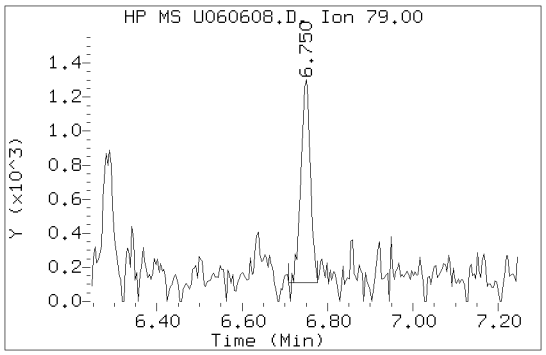
Dimethyl Disulfide (624-92-0)

Reason Code:

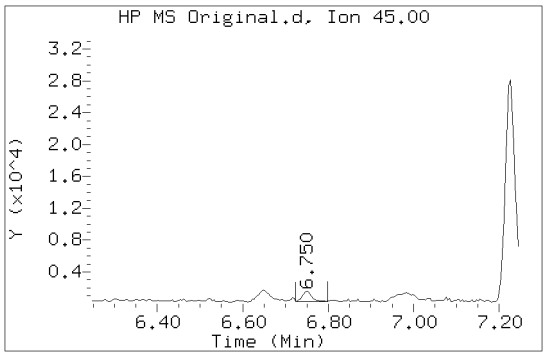
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08-Jun-2023
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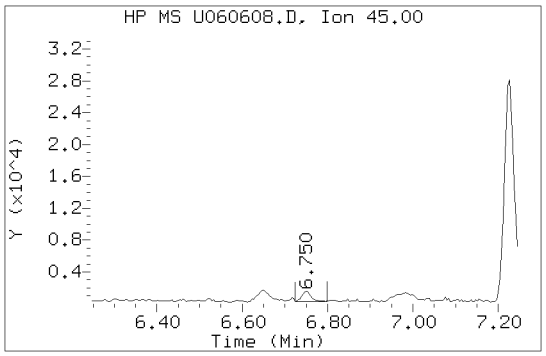
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BEFORE
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HEIGHT
1245
08-Jun-2023
14:56
linh
pham



AFTER
MASS
45
AREA
1888
HEIGHT
1245
13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060609.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060609.D
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Inj Date : 06-JUN-2023 14:13
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V9;WATER;0;1;
Comment :
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Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 14:13 Cal File: U060609.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	699800	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	134998	20.0000	20.92
3	Chloromethane	50	1.291	1.291	(0.268)	243997	20.0000	22.39
5	Vinyl Chloride	62	1.370	1.370	(0.285)	154975	20.0000	20.93
6	Bromomethane	94	1.614	1.614	(0.335)	85360	20.0000	21.41
7	Chloroethane	64	1.693	1.693	(0.352)	101661	20.0000	20.38
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	186610	20.0000	21.95
9	Acrolein	56	2.259	2.259	(0.469)	13555	40.0000	36.49
10	Acetone	43	2.405	2.405	(0.500)	105410	40.0000	40.65
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	106844	20.0000	20.11
15	Iodomethane	142	2.465	2.465	(0.512)	69713	40.0000	25.52
16	Acrylonitrile	53	3.061	3.061	(0.636)	100523	40.0000	38.73
17	Methylene Chloride	84	2.791	2.791	(0.580)	133454	20.0000	20.31
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	301047	20.0000	18.48
19	Carbon Disulfide	76	2.514	2.514	(0.522)	585546	40.0000	41.23
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	117673	20.0000	20.36
21	Vinyl Acetate	43	3.604	3.604	(0.749)	686124	40.0000	38.96
22	1,1-Dichloroethane	63	3.511	3.511	(0.730)	209138	20.0000	19.05
24	2-Butanone	43	4.264	4.264	(0.886)	120643	40.0000	37.81
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	139835	20.0000	19.51
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	136001	20.0000	19.67

28	Chloroform	83	4.568	4.568 (0.949)	226645	20.0000	19.83
29	Bromochloromethane	128	4.467	4.467 (0.928)	75232	20.0000	19.46

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060609.D Page 2
Report Date: 21-Jun-2023 13:48

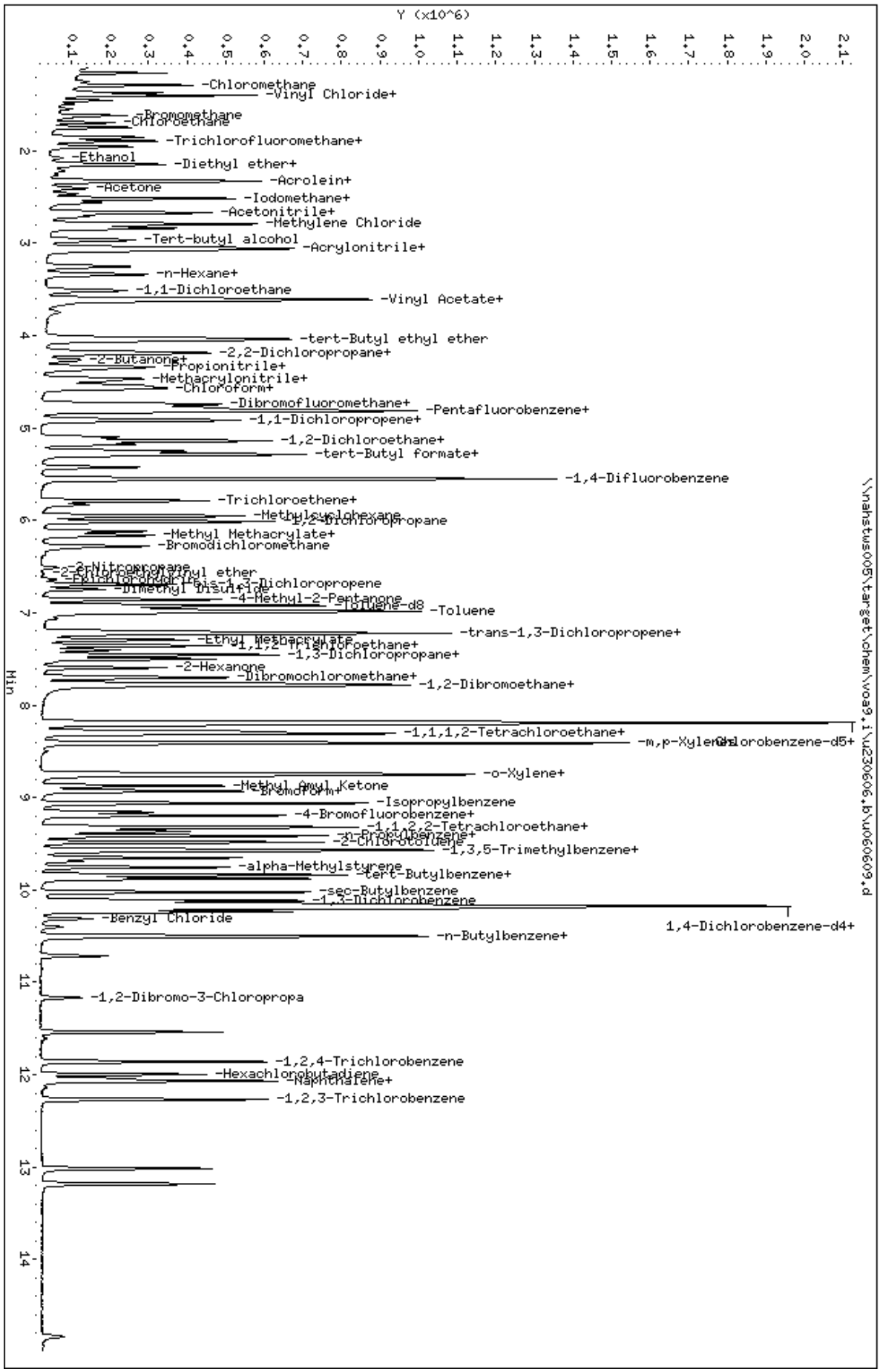
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	119153	20.0000	20.09
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	178912	20.0000	20.54
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	160757	20.0000	20.96
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	178788	20.0000	19.74
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	147458	20.0000	20.93
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	129564	20.0000	19.98
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	1046146	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	516341	20.0000	20.48
	38 Trichloroethene	130	5.786	5.786	(1.043)	145174	20.0000	19.86
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	153153	20.0000	19.47
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	7046	40.0000	37.04(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	134169	20.0000	19.93
	44 Dibromomethane	93	6.120	6.120	(1.103)	83709	20.0000	19.46
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	288078	40.0000	41.20
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	176588	20.0000	18.03
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	960016	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	445555	20.0000	20.50
	50 Toluene	91	6.982	6.982	(0.853)	554230	20.0000	21.28
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	143978	20.0000	17.64
	52 2-Hexanone	43	7.593	7.593	(0.928)	190529	40.0000	39.13
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	107394	20.0000	19.82
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	226819	20.0000	20.49
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	128911	20.0000	20.05
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	133448	20.0000	21.03
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	132458	20.0000	19.81
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	111769	20.0000	20.80
	59 Chlorobenzene	112	8.208	8.208	(1.003)	374064	20.0000	20.12
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	128313	20.0000	20.08
	61 Ethylbenzene	106	8.305	8.305	(1.015)	179483	20.0000	20.75
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	421040	40.0000	41.14
	63 o-Xylene	106	8.748	8.748	(1.069)	206194	20.0000	20.39
	64 Styrene	104	8.763	8.763	(1.071)	318690	20.0000	19.86
	66 Bromoform	173	8.920	8.920	(1.090)	81243	20.0000	18.72
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	516146	20.0000	21.25
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	178916	20.0000	19.34
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	178335	20.0000	20.30
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	491623	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	151200	20.0000	18.58
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	527972	20.0000	20.47
	74 Bromobenzene	156	9.317	9.317	(0.916)	165398	20.0000	19.93
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	338496	20.0000	19.13
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	380446	20.0000	20.98
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	415563	20.0000	20.71
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	368922	20.0000	21.23
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	349187	20.0000	18.86
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	457784	20.0000	20.77
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	348135	20.0000	18.85
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	280647	20.0000	19.92
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	292174	20.0000	19.45
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	319352	20.0000	20.20
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	281467	20.0000	19.92
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	24061	20.0000	17.83

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	186288	20.0000	19.17
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	79518	20.0000	20.26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	445465	20.0000	19.73
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	186329	20.0000	19.61
M	94 1,2-Dichloroethylene (total)	96				253674	40.0000	40.04
M	95 Xylenes (total)	106				627234	60.0000	61.54
	135 1,4-Dioxane	88	6.168	6.168	(1.282)	38808	400.000	279.28(M)
	141 Cyclohexane	56	4.778	4.778	(0.993)	190495	20.0000	22.56
	138 Freon TF	101	2.330	2.330	(0.484)	102379	20.0000	21.78
	140 1,3-Butadiene	54	1.396	1.396	(0.290)	143212	20.0000	21.60
	147 Methylcyclohexane	55	5.947	5.947	(1.072)	271418	20.0000	18.70
	146 Methyl Acetate	43	2.708	2.708	(0.563)	109689	20.0000	18.61
	148 Tert-Butyl alcohol	59	2.963	2.963	(0.616)	255911	400.000	392.79
	149 Isopropyl Alcohol	45	2.558	2.558	(0.532)	166234	400.000	363.36
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	18573	20.0000	16.80(M)
	12 Isobutyl Alcohol	43	5.288	5.288	(1.099)	360790	400.000	396.80(M)
	13 Acetonitrile	39	2.667	2.667	(0.554)	140672	200.000	185.67
	14 Allyl Chloride	41	2.667	2.667	(0.554)	339917	20.0000	18.70
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	82790	20.0000	20.02
	40 Methyl Methacrylate	41	6.157	6.157	(1.280)	116616	20.0000	19.38
	4 Propionitrile	54	4.335	4.335	(0.901)	196157	200.000	193.97(a)
	136 n-Hexane	57	3.338	3.338	(0.694)	131033	20.0000	22.86
	194 Acetaldehyde	44	1.453	1.453	(0.302)	80793	80.0000	83.70(M)
	131 Methyl Acrylate	55	4.365	4.365	(0.907)	140883	20.0000	19.03(M)
	200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	75368	20.0000	14.42(M)
	23 Chloroprene	53	2.150	2.150	(0.447)	46564	20.0000	20.86(M)
	49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	174530	20.0000	19.03
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	336473	20.0000	17.80
	167 Ethanol	45	2.075	2.075	(0.431)	33180	400.000	365.81
	164 Dicyclopentadiene	66	10.202	10.202	(1.003)	430916	20.0000	17.96
	145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	141914	20.0000	17.83
	142 Tetrahydrofuran	42	4.542	4.542	(0.944)	48081	40.0000	37.45
	156 Diisopropyl ether	45	3.619	3.619	(0.752)	362787	20.0000	18.59
	151 4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	598756	400.000	384.89
	150 Allyl alcohol	57	3.338	3.338	(0.694)	131033	400.000	457.76
	86 Benzyl Chloride	91	10.311	10.311	(1.260)	85763	20.0000	17.37
	162 Butyl acrylate	55	8.733	8.733	(1.067)	214597	20.0000	18.89
	139 Diethyl ether	59	2.139	2.139	(0.445)	88209	20.0000	18.65
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	70007	20.0000	16.56
	134 Cyclohexanone	55	9.156	9.156	(0.900)	110447	400.000	362.37(a)
	130 Ethyl Acetate	43	4.264	4.264	(0.886)	118985	20.0000	19.02(M)
	189 n-Butyl acetate	43	7.705	7.705	(0.941)	210444	20.0000	19.25(M)
	182 Epichlorohydrin	57	6.637	6.637	(1.196)	5384	80.0000	62.88
	132 n-Butanol	56	5.831	5.831	(1.212)	67633	400.000	339.53(a)

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\voa9,i\u230606,b\u060609,d
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Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6;
Purge Volume: 5.0
Column phase: DB624

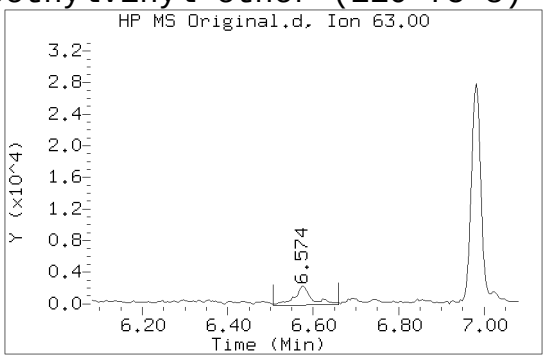
Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

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LabSampID : VSTD020

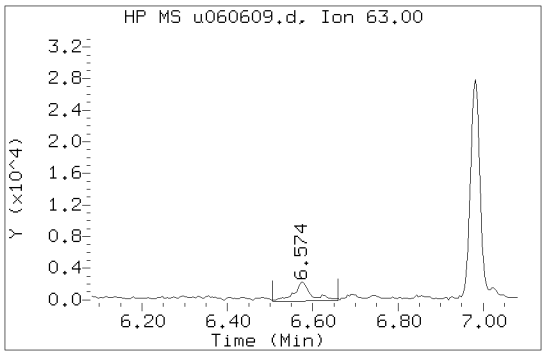
2-Chloroethylvinyl ether (110-75-8)

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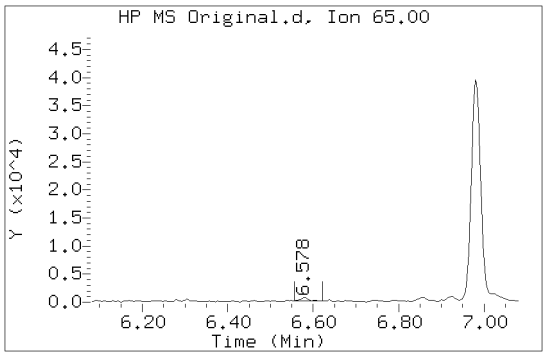
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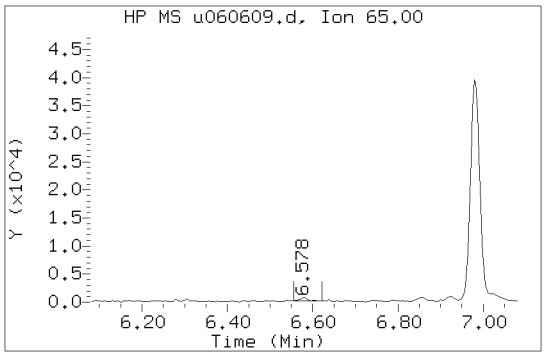
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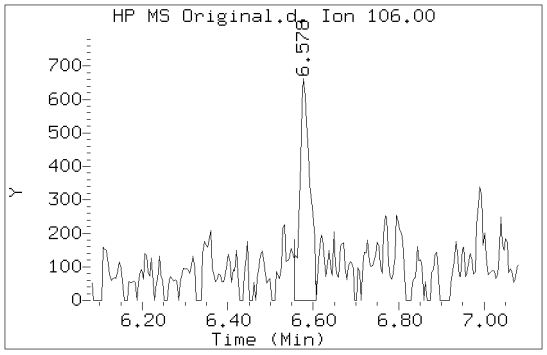
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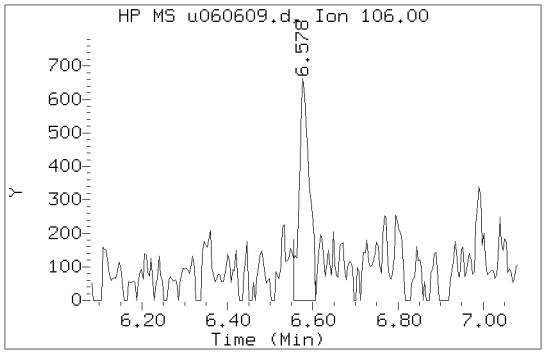
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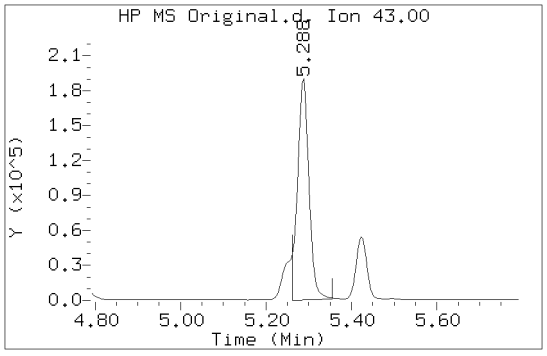
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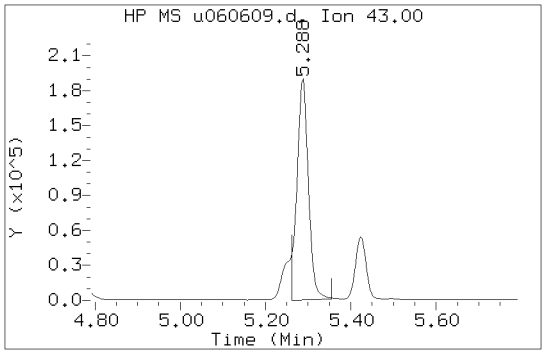
Isobutyl Alcohol (78-83-1)

Reason Code:

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AFTER
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21-Jun-2023
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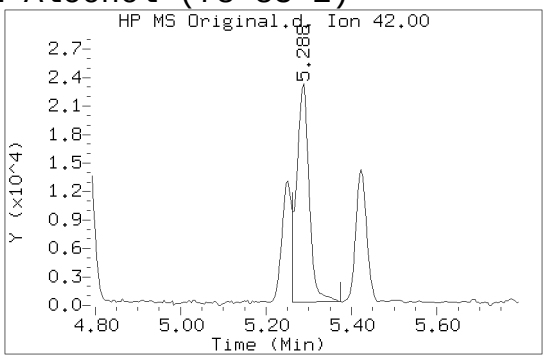


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InstruID : VOA9.i
LabSampID : VSTD020

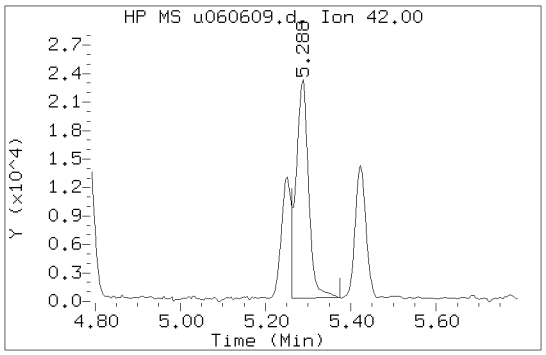
Isobutyl Alcohol (78-83-1)

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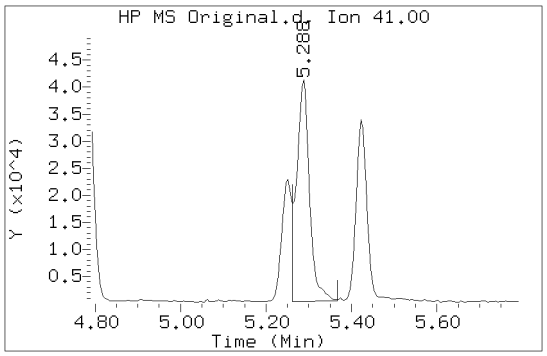
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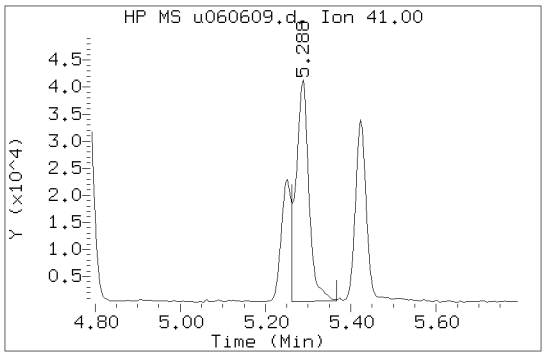
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BEFORE
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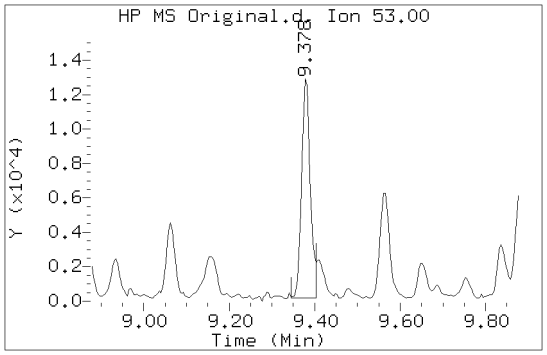
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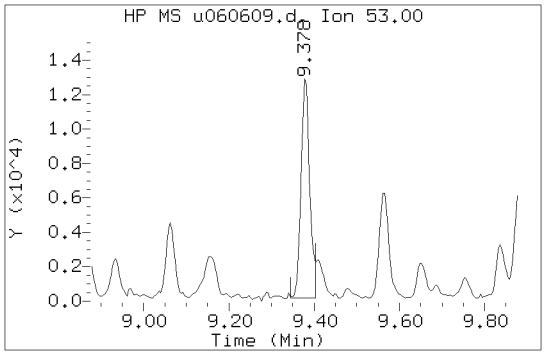
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

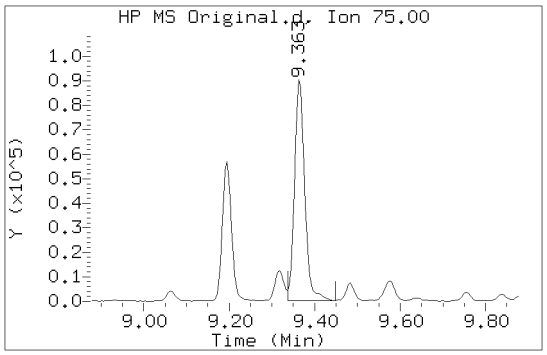
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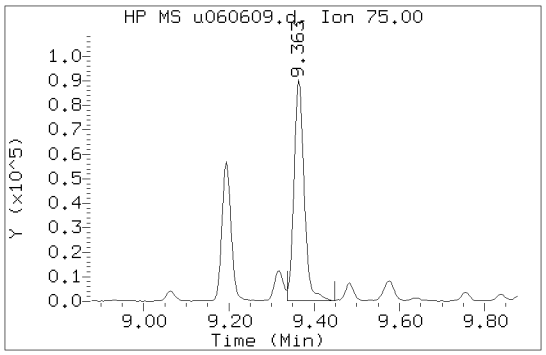
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BEFORE
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AREA
151200
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08-Jun-2023
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AFTER
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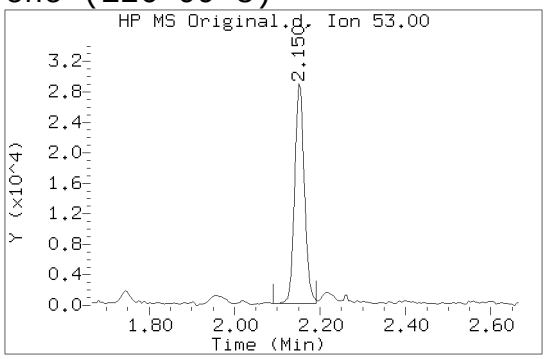


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Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

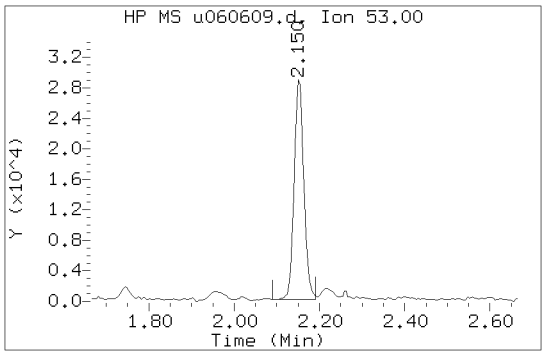
Chloroprene (126-99-8)

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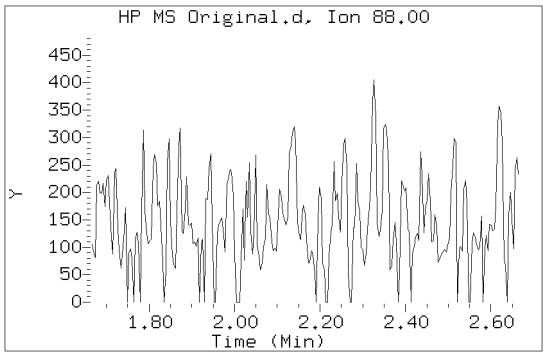
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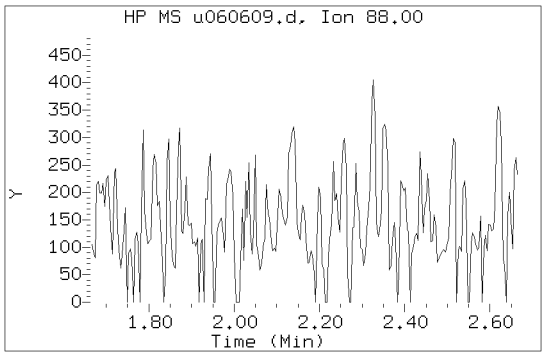
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BEFORE
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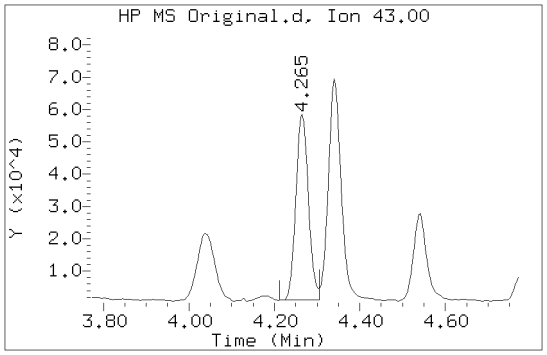
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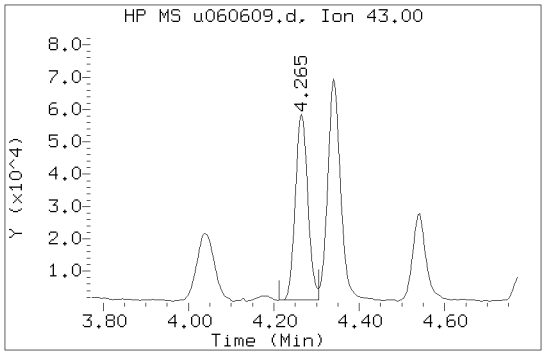
Ethyl Acetate (141-78-6)

Reason Code:

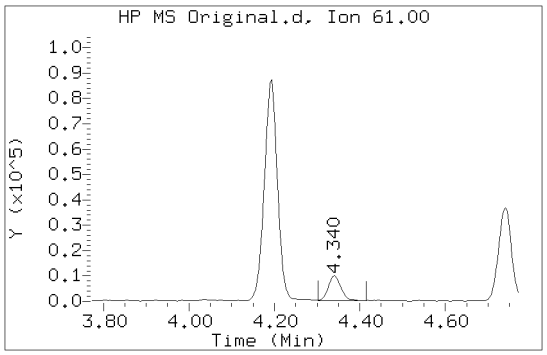
BEFORE
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HEIGHT
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08-Jun-2023
14:56
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pham



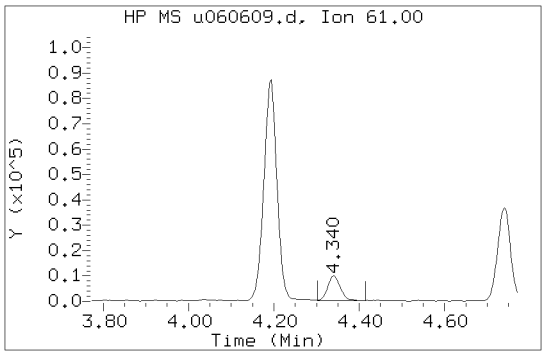
AFTER
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BEFORE
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AREA
20257
HEIGHT
9732
08-Jun-2023
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AFTER
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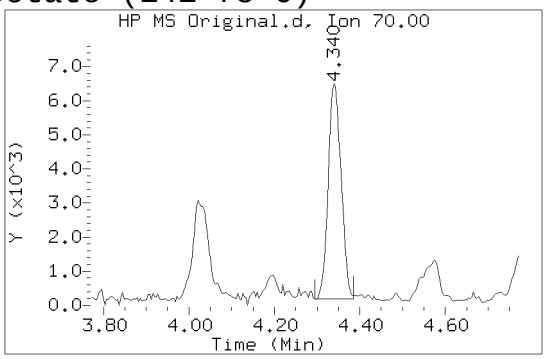
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Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

Ethyl Acetate (141-78-6)

Reason Code:

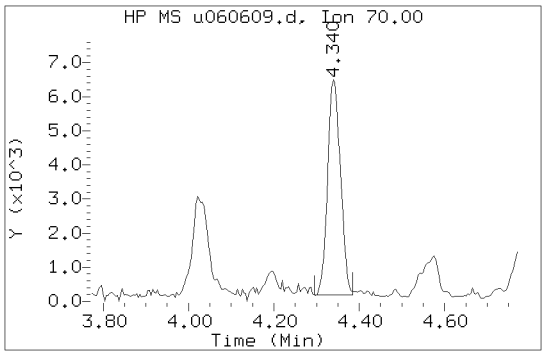
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AFTER

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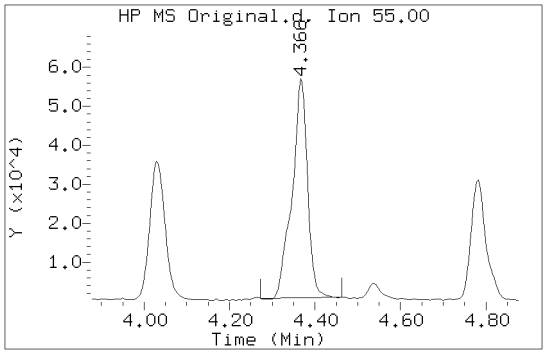


Methyl Acrylate (96-33-3)

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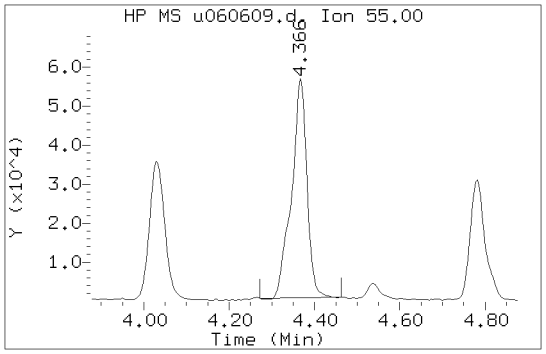
BEFORE

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HEIGHT
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08-Jun-2023
14:56
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pham



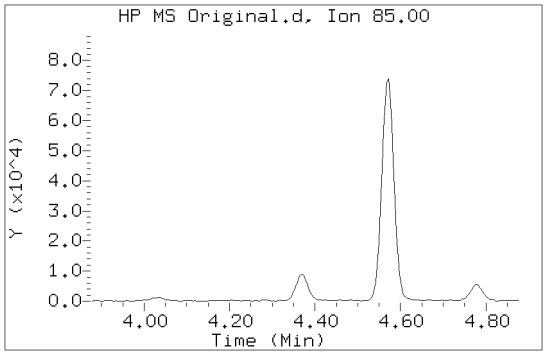
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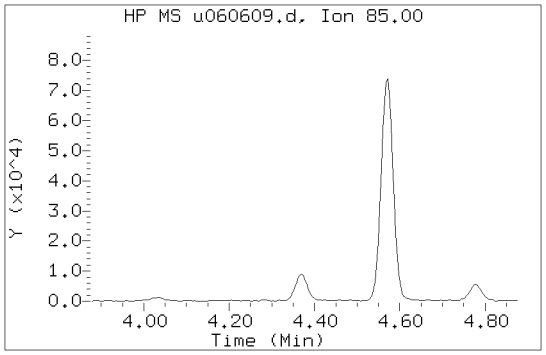
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AFTER

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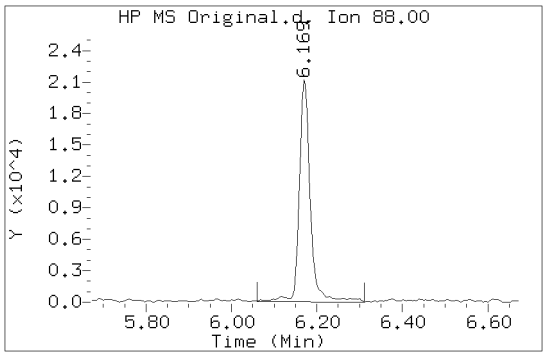


1,4-Dioxane ()

Reason Code:

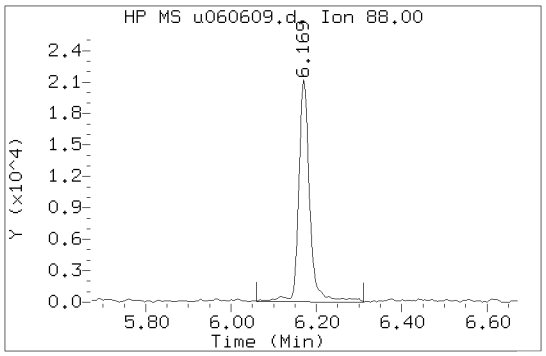
BEFORE

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08-Jun-2023
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pham



AFTER

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AREA
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HEIGHT
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21-Jun-2023
13:48
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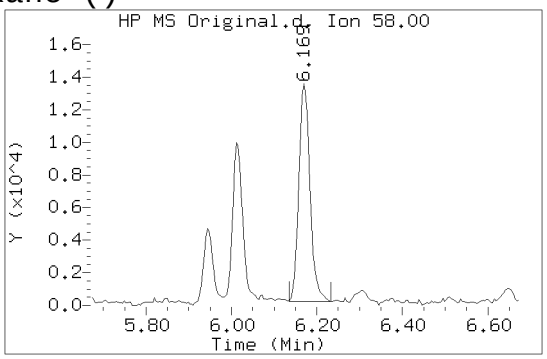
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InstruID : VOA9.i
LabSampID : VSTD020

1,4-Dioxane ()

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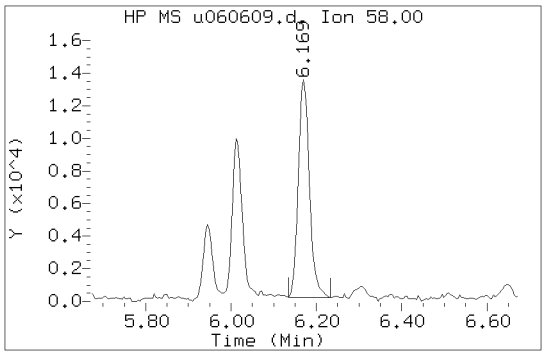
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AFTER

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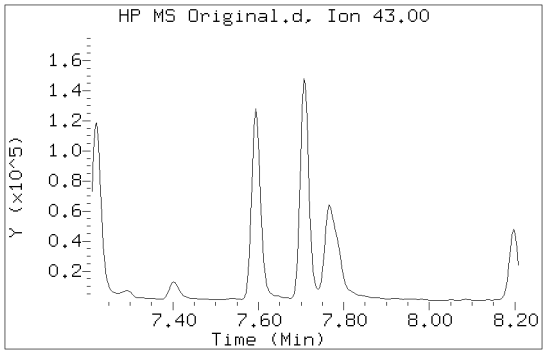


n-Butyl acetate (123-86-4)

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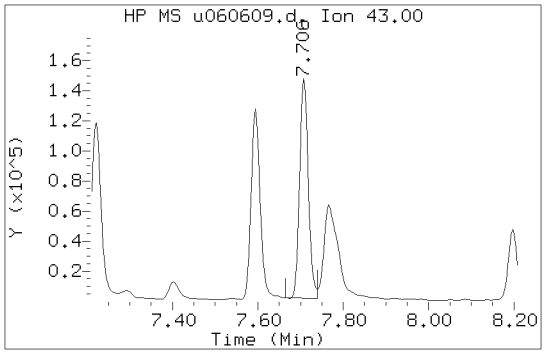
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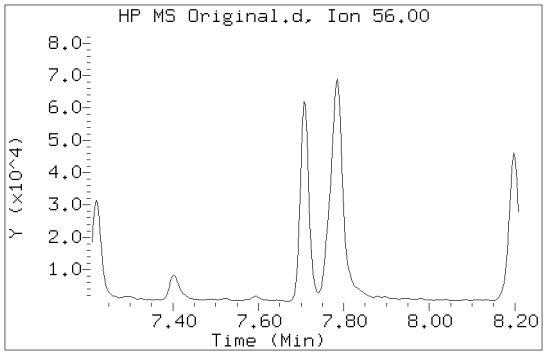
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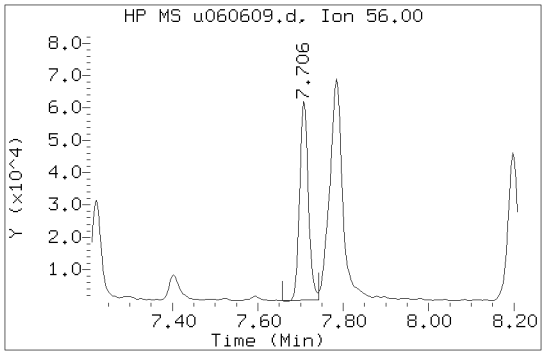
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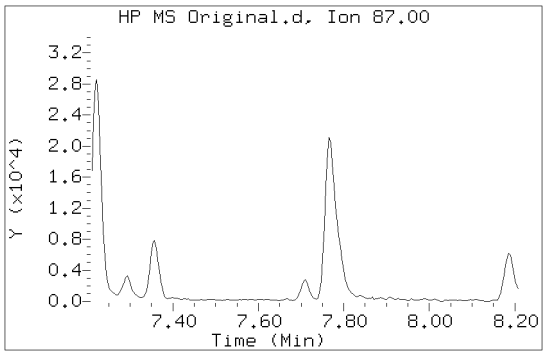
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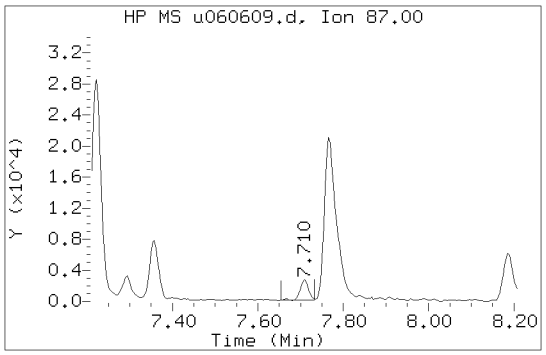
BEFORE

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AFTER

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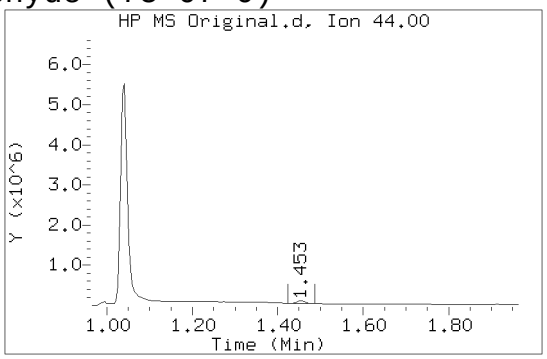
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InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

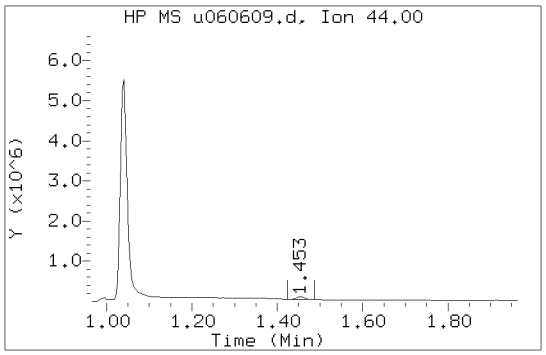
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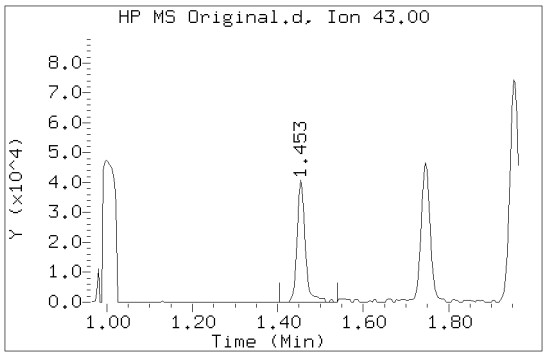
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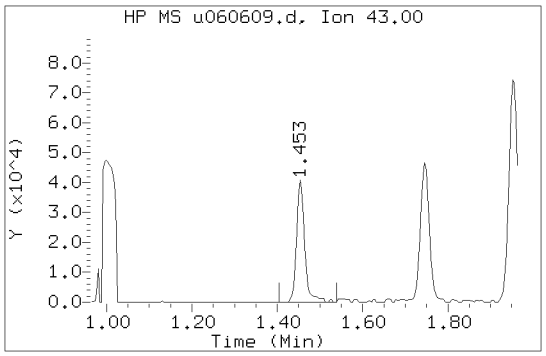
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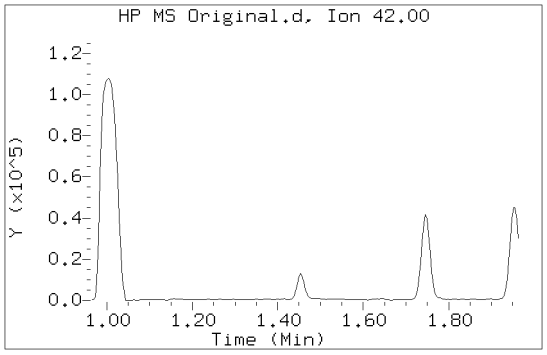
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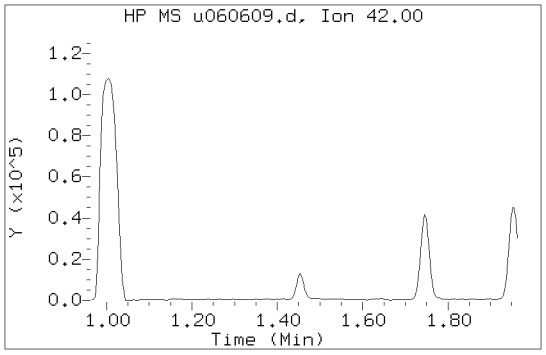
BEFORE

MASS
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08-Jun-2023
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AFTER

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HEIGHT
0
21-Jun-2023
13:48
linh
pha

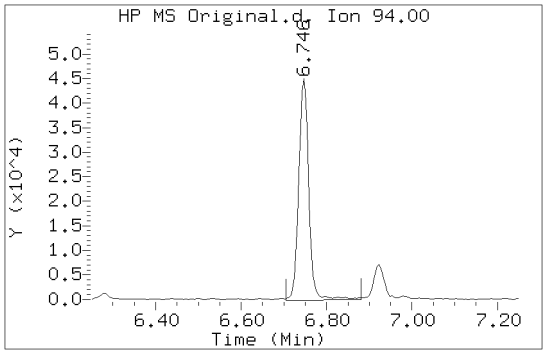


Dimethyl Disulfide (624-92-0)

Reason Code:

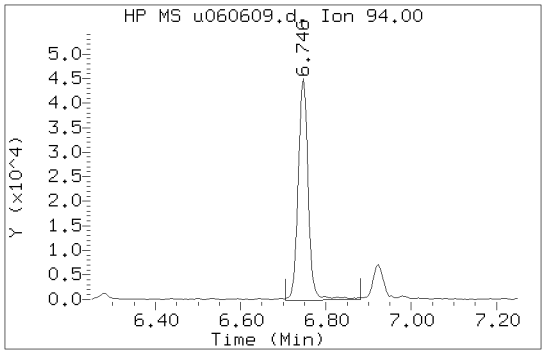
BEFORE

MASS
94
AREA
75368
HEIGHT
45120
08-Jun-2023
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AFTER

MASS
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HEIGHT
45120
21-Jun-2023
13:48
linh
pha



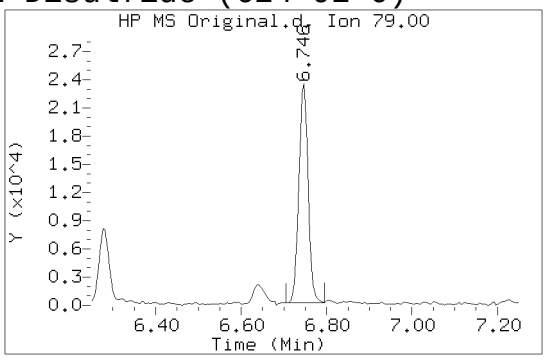
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Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

Dimethyl Disulfide (624-92-0)

Reason Code:

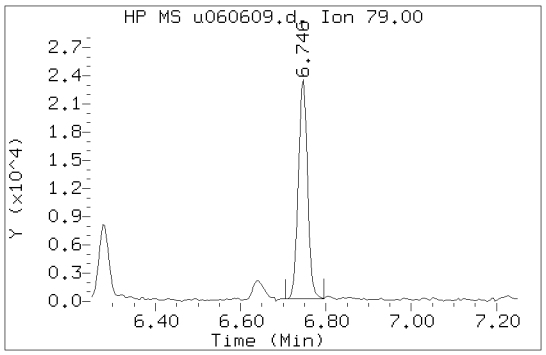
BEFORE

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AREA
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08-Jun-2023
14:56
linh
pham



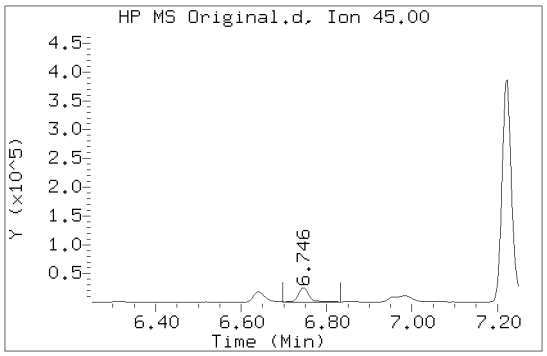
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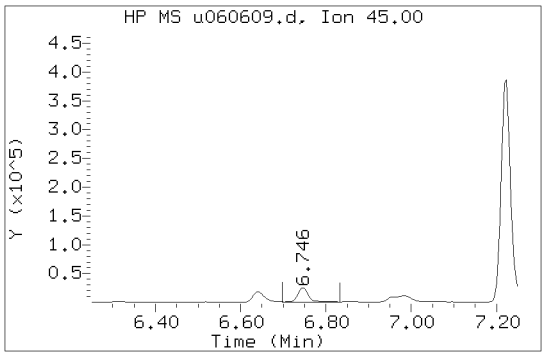
BEFORE

MASS
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AREA
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HEIGHT
24788
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
45369
HEIGHT
24788
21-Jun-2023
13:48
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060610.D Page 1
Report Date: 21-Jun-2023 13:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060610.D
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Inj Date : 06-JUN-2023 14:35
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V9;WATER;0;1;
Comment :
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Meth Date : 21-Jun-2023 13:49 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 15:41 Cal File: U060613.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7051

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)	676524	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	301782	50.0000	48.28
3	Chloromethane	50	1.303	1.303	(0.270)	533277	50.0000	52.32
5	Vinyl Chloride	62	1.381	1.381	(0.287)	371826	50.0000	51.96
6	Bromomethane	94	1.625	1.625	(0.337)	189385	50.0000	51.52
7	Chloroethane	64	1.704	1.704	(0.354)	235929	50.0000	48.94
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	408187	50.0000	49.66
9	Acrolein	56	2.270	2.270	(0.471)	34711	100.000	96.66
10	Acetone	43	2.416	2.416	(0.501)	245967	100.000	106.19
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	253953	50.0000	49.45
15	Iodomethane	142	2.476	2.476	(0.514)	311144	100.000	80.01
16	Acrylonitrile	53	3.072	3.072	(0.638)	238722	100.000	95.15
17	Methylene Chloride	84	2.798	2.798	(0.581)	313459	50.0000	50.82
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	751017	50.0000	47.69
19	Carbon Disulfide	76	2.525	2.525	(0.524)	1424175	100.000	103.74
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	287983	50.0000	51.56
21	Vinyl Acetate	43	3.612	3.612	(0.750)	1688425	100.000	99.18
22	1,1-Dichloroethane	63	3.522	3.522	(0.731)	510453	50.0000	48.09
24	2-Butanone	43	4.272	4.272	(0.886)	284571	100.000	92.25
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	344673	50.0000	49.12

27 cis-1,2-Dichloroethene	96	4.200	4.200 (0.872)	330459	50.0000	49.46
28 Chloroform	83	4.579	4.579 (0.950)	553969	50.0000	50.15

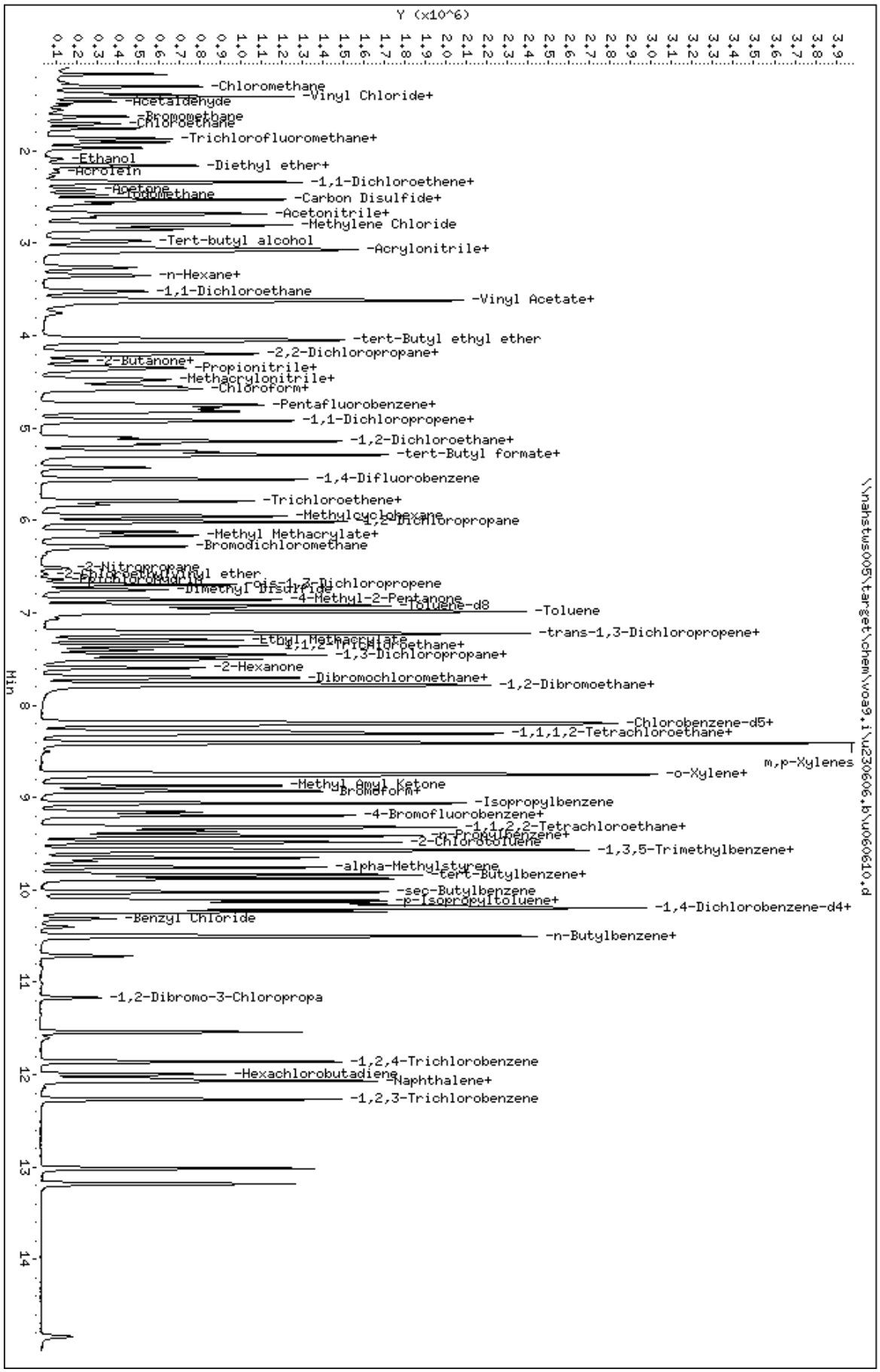
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.474	4.474	(0.928)	180688	50.0000	48.34
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	271537	50.0000	47.80
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	427820	50.0000	50.81
	32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	378122	50.0000	50.72
	33 1,2-Dichloroethane	62	5.179	5.179	(0.932)	428044	50.0000	48.61
	34 Carbon Tetrachloride	117	4.913	4.913	(0.884)	352021	50.0000	51.40
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	303470	50.0000	49.38
*	36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	1017200	50.0000	
	37 Benzene	78	5.141	5.141	(0.925)	1252175	50.0000	51.08
	38 Trichloroethene	130	5.790	5.790	(1.042)	345905	50.0000	48.68
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	388938	50.0000	50.86
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.184)	17983	100.000	97.24(M)
	42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	326747	50.0000	49.92
	44 Dibromomethane	93	6.124	6.124	(1.102)	203401	50.0000	48.64
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	697558	100.000	98.05
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	477156	50.0000	46.71
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	976881	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1047714	50.0000	47.38(M)
	50 Toluene	91	6.982	6.982	(0.853)	1342745	50.0000	50.67
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	395477	50.0000	46.15
	52 2-Hexanone	43	7.593	7.593	(0.928)	463757	100.000	93.61
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	255402	50.0000	46.32
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	550839	50.0000	48.90
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	344538	50.0000	52.67
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	304966	50.0000	47.24
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	322319	50.0000	47.39
	58 1-Chlorohexane	55	8.197	8.197	(1.475)	234412	50.0000	44.87
	59 Chlorobenzene	112	8.212	8.212	(1.003)	916475	50.0000	48.46
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	327010	50.0000	50.31
	61 Ethylbenzene	106	8.309	8.309	(1.015)	443008	50.0000	50.33
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	1096202	100.000	105.27
	63 o-Xylene	106	8.748	8.748	(1.069)	532694	50.0000	51.78
	64 Styrene	104	8.763	8.763	(1.071)	873807	50.0000	53.52
	66 Bromoform	173	8.920	8.920	(1.090)	227224	50.0000	51.46
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1269616	50.0000	51.38
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	438008	50.0000	45.99
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	425877	50.0000	48.86
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	506267	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	396260	50.0000	47.29
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1350525	50.0000	50.85
	74 Bromobenzene	156	9.317	9.317	(0.916)	406120	50.0000	47.54
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	873885	50.0000	47.96
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	927058	50.0000	49.66
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	1031057	50.0000	49.89
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	874077	50.0000	48.84
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	861955	50.0000	45.21
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	1105877	50.0000	48.73
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	895378	50.0000	47.09
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	679277	50.0000	46.82
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	709983	50.0000	45.89
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	741855	50.0000	45.58
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	681773	50.0000	46.86

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	66094	50.0000	47.56
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	468840	50.0000	46.85

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	174158	50.0000	43.10
	92 Naphthalene	128	12.065	12.065	(1.186)	1175644	50.0000	50.58
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	463613	50.0000	47.39
M	94 1,2-Dichloroethylene (total)	96				618442	100.000	(a)
	135 1,4-Dioxane	88	6.172	6.172	(1.281)	89225	1000.00	664.21
	141 Cyclohexane	56	4.785	4.785	(0.993)	384146	50.0000	46.29
	138 Freon TF	101	2.341	2.341	(0.486)	217639	50.0000	47.90
	140 1,3-Butadiene	54	1.408	1.408	(0.292)	329617	50.0000	51.44
	147 Methylcyclohexane	55	5.951	5.951	(1.071)	649753	50.0000	46.04
	146 Methyl Acetate	43	2.720	2.720	(0.564)	254836	50.0000	44.73
	148 Tert-Butyl alcohol	59	2.975	2.975	(0.617)	592187	1000.00	947.12
	149 Isopropyl Alcohol	45	2.570	2.570	(0.533)	395875	1000.00	895.11
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	53071	50.0000	47.18(M)
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	891975	1000.00	1014.77(M)
	13 Acetonitrile	39	2.678	2.678	(0.556)	355989	500.000	486.02
	14 Allyl Chloride	41	2.678	2.678	(0.556)	838850	50.0000	47.75
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	196618	50.0000	49.19
	40 Methyl Methacrylate	41	6.161	6.161	(1.278)	297279	50.0000	51.10
	4 Propionitrile	54	4.343	4.343	(0.901)	467472	500.000	478.18
	136 n-Hexane	57	3.350	3.350	(0.695)	256401	50.0000	45.49
	194 Acetaldehyde	44	1.464	1.464	(0.304)	182837	200.000	195.95(M)
	131 Methyl Acrylate	55	4.377	4.377	(0.908)	350463	50.0000	48.98(M)
	200 Dimethyl Disulfide	94	6.750	6.750	(0.825)	275143	50.0000	38.98
	23 Chloroprene	53	2.165	2.165	(0.449)	103984	50.0000	48.19(M)
	49 Ethyl Methacrylate	69	7.293	7.293	(1.312)	443431	50.0000	49.73
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	871855	50.0000	44.80
	167 Ethanol	45	2.090	2.090	(0.434)	83818	1000.00	992.72
	164 Dicyclopentadiene	66	10.202	10.202	(1.003)	1102255	50.0000	44.63
	145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	398013	50.0000	42.48
	142 Tetrahydrofuran	42	4.549	4.549	(0.944)	124830	100.000	104.57
	156 Diisopropyl ether	45	3.627	3.627	(0.753)	905553	50.0000	48.00
	151 4-Methyl-2-pentanol	45	7.222	7.222	(1.299)	1360403	1000.00	899.38
	150 Allyl alcohol	57	3.350	3.350	(0.695)	256401	1000.00	910.24
	86 Benzyl Chloride	91	10.311	10.311	(1.260)	234906	50.0000	40.89
	162 Butyl acrylate	55	8.733	8.733	(1.067)	552381	50.0000	47.80
	139 Diethyl ether	59	2.150	2.150	(0.446)	220811	50.0000	48.30
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	214955	50.0000	44.70
	134 Cyclohexanone	55	9.156	9.156	(0.900)	291143	1000.00	927.60
	130 Ethyl Acetate	43	4.272	4.272	(0.886)	275065	50.0000	45.48(M)
	189 n-Butyl acetate	43	7.709	7.709	(0.942)	537633	50.0000	48.33(M)
	182 Epichlorohydrin	57	6.637	6.637	(1.194)	17348	200.000	179.78
	132 n-Butanol	56	5.835	5.835	(1.211)	176825	1000.00	918.25

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\voa9,i\u230606,b\u060610,d
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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

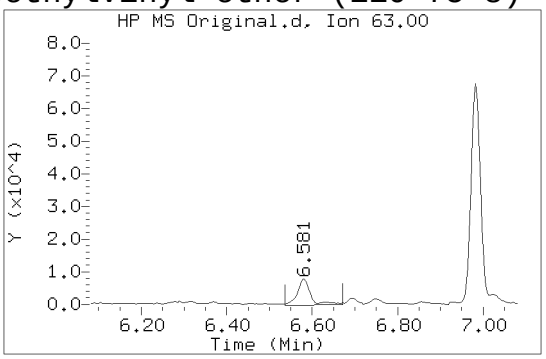
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Operator: PC
Column diameter: 0.18

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LabSampID : VSTD050

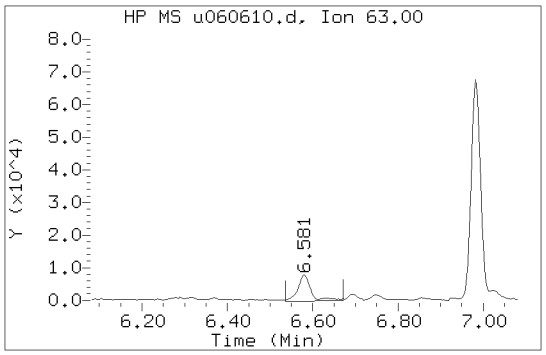
2-Chloroethylvinyl ether (110-75-8)

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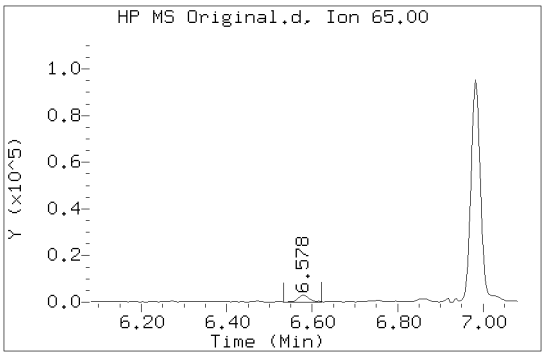
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08-Jun-2023
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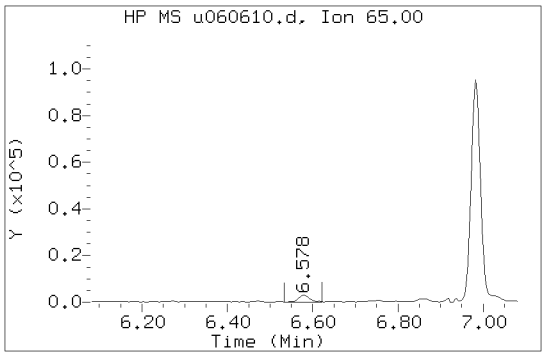
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13:49
linh
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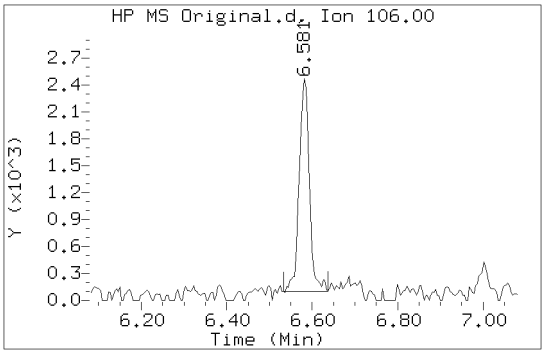
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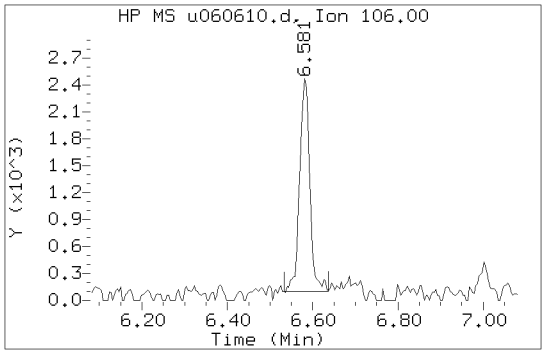
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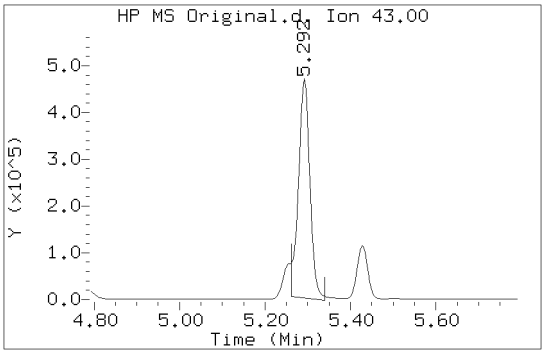
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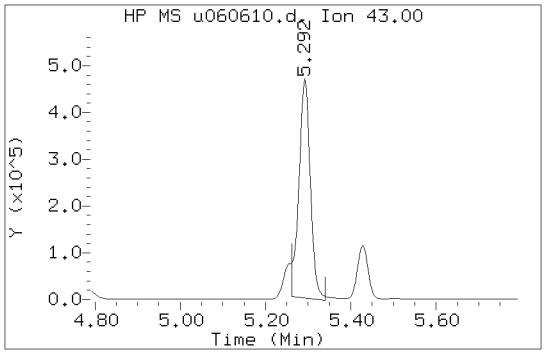
Isobutyl Alcohol (78-83-1)

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08-Jun-2023
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AFTER
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HEIGHT
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21-Jun-2023
13:49
linh
pha

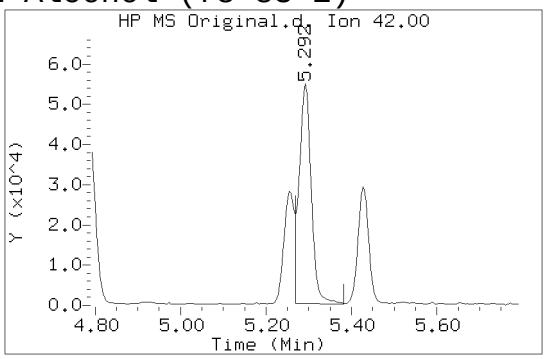


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InstruID : VOA9.i
LabSampID : VSTD050

Isobutyl Alcohol (78-83-1)

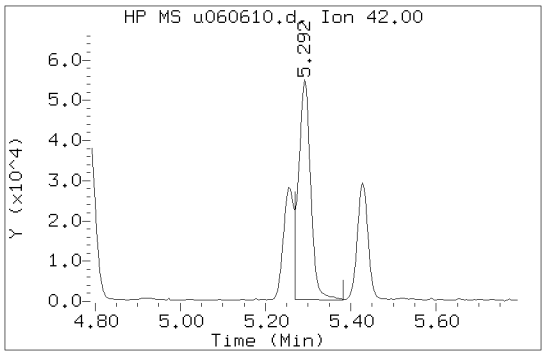
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pham



AFTER

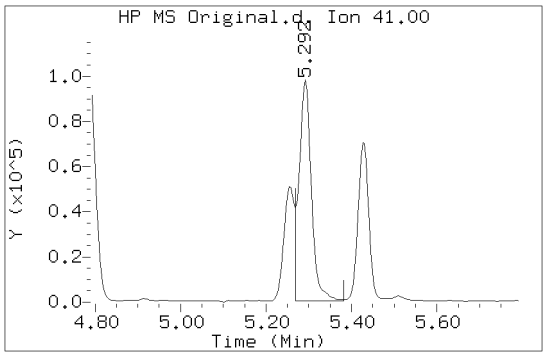
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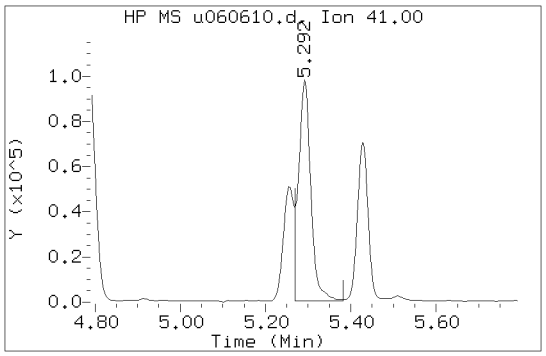
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AFTER

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21-Jun-2023
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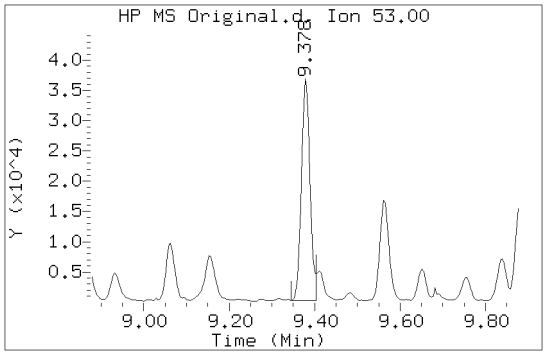


Reason Code:

trans-1,4-Dichloro-2-butene (110-57-6)

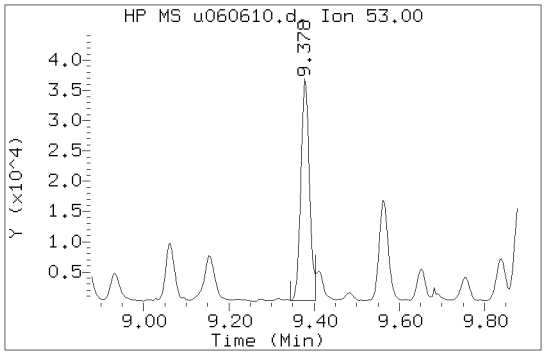
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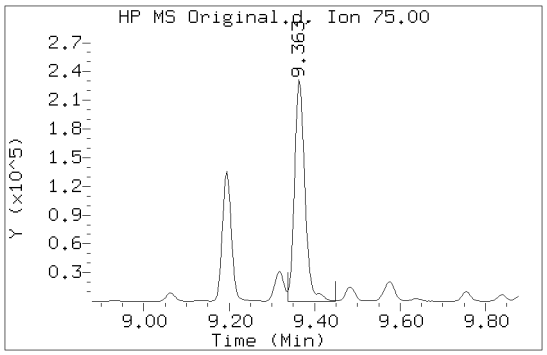
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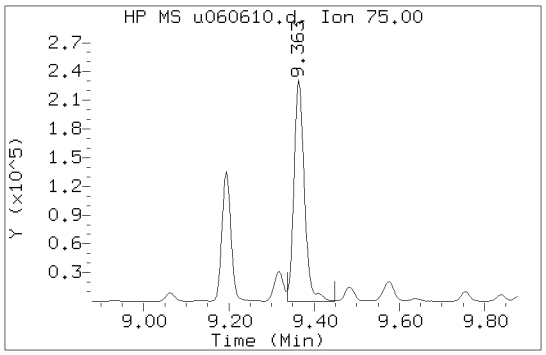
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231235
08-Jun-2023
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AFTER

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21-Jun-2023
13:49
linh
pha



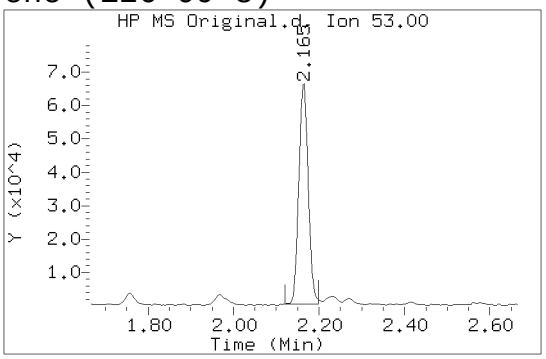
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Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

Chloroprene (126-99-8)

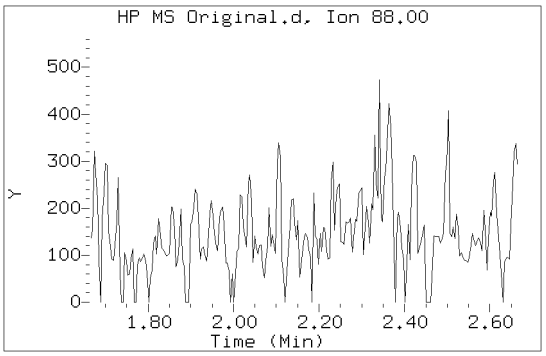
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BEFORE

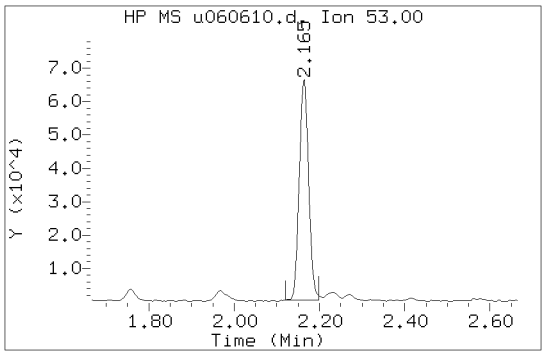
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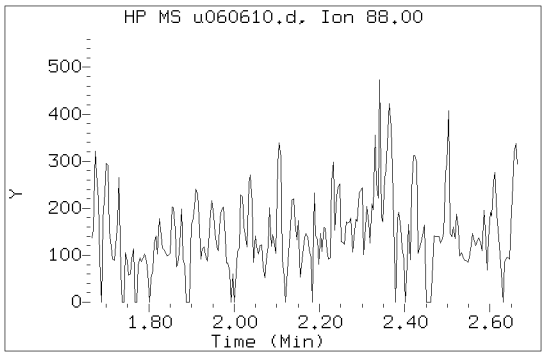
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AFTER

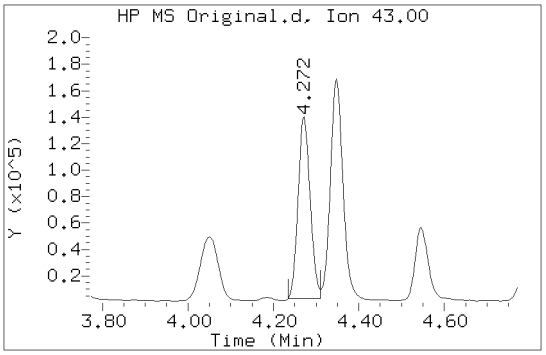
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Ethyl Acetate (141-78-6)

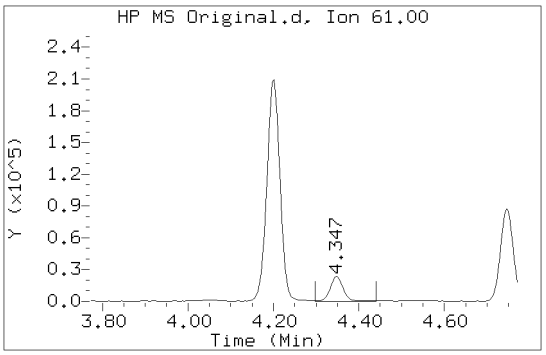
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pham



BEFORE

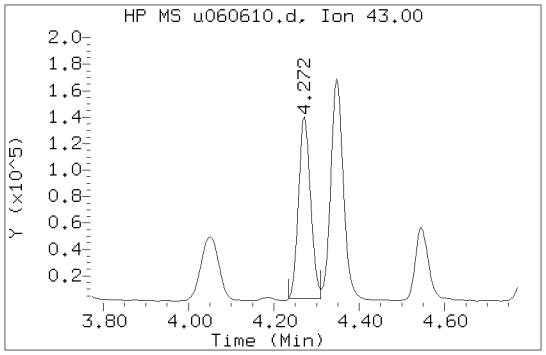
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08-Jun-2023
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linh
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Reason Code:

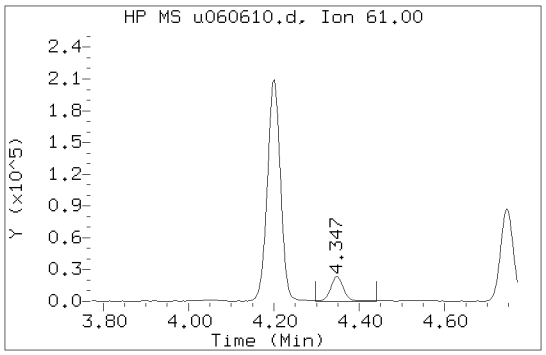
AFTER

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21-Jun-2023
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AFTER

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linh
pha



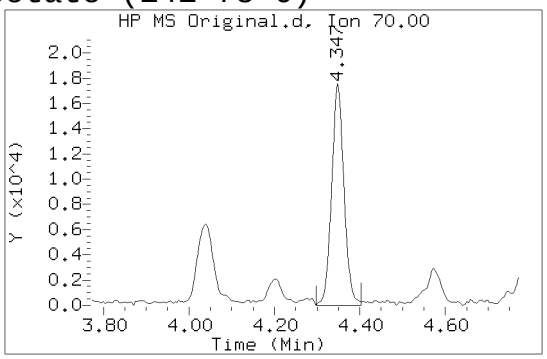
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Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

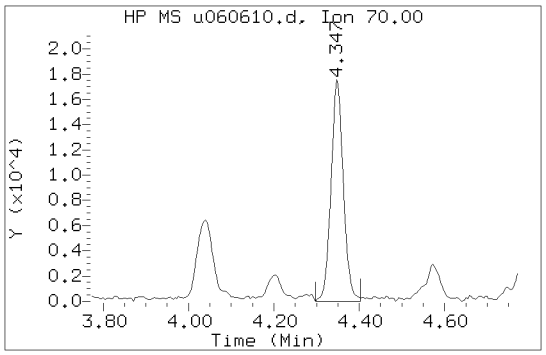
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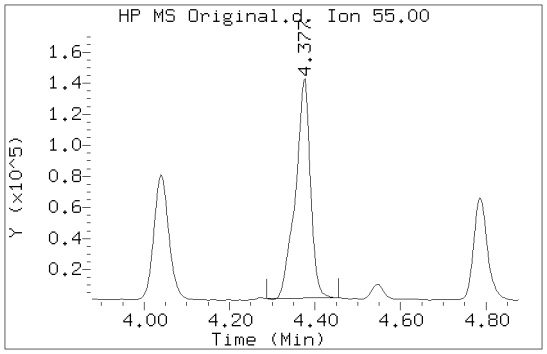


Methyl Acrylate (96-33-3)

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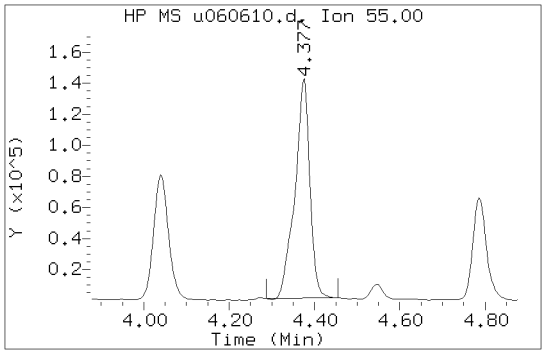
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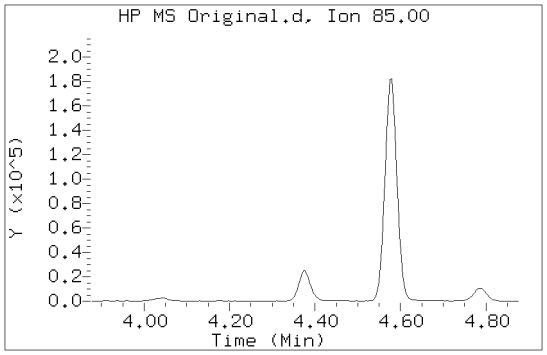
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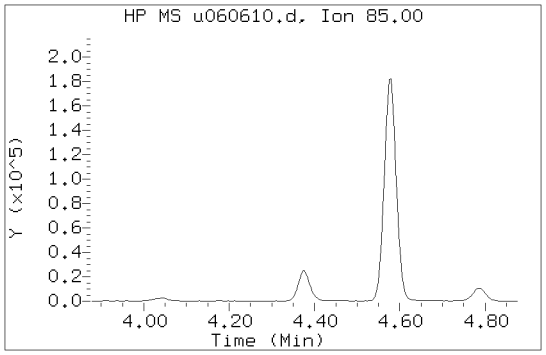
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AFTER

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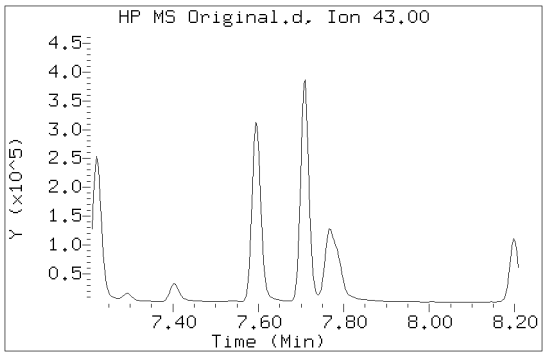


n-Butyl acetate (123-86-4)

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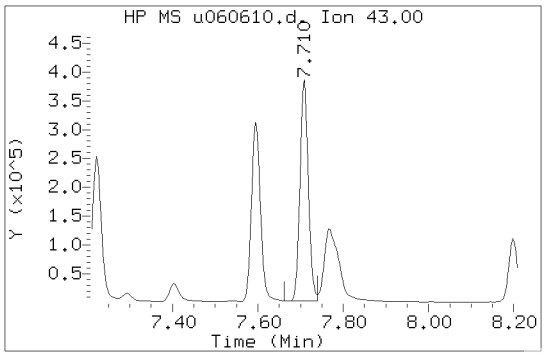
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pha



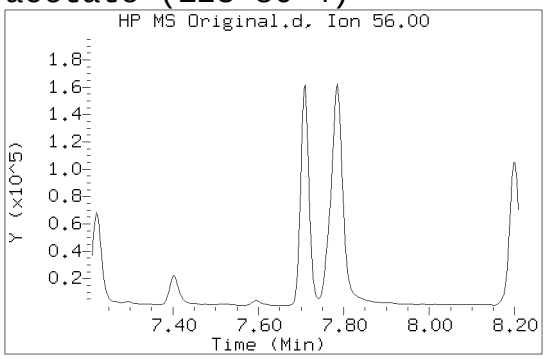
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Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

Reason Code:

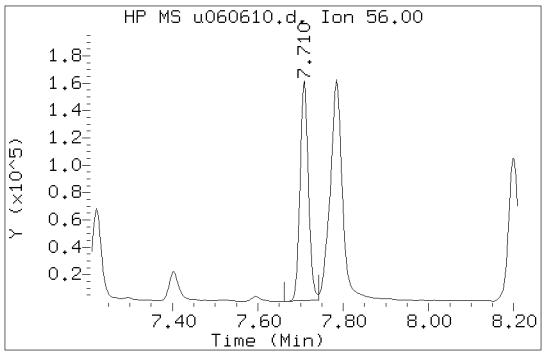
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08-Jun-2023
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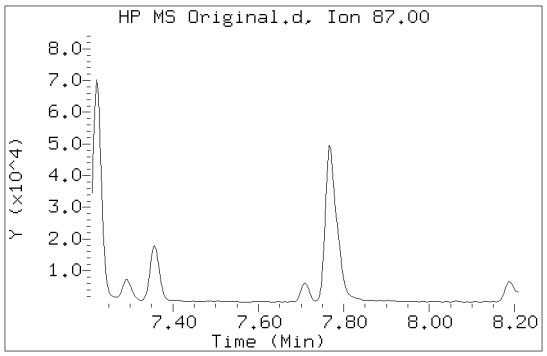
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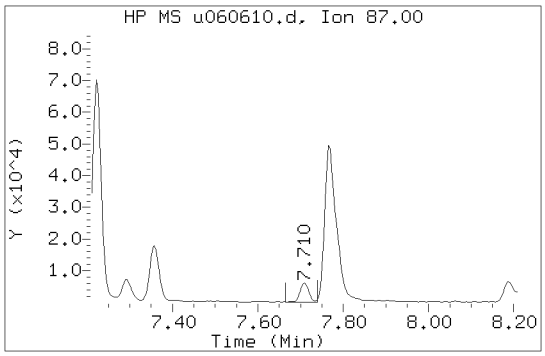
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AFTER

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21-Jun-2023
13:49
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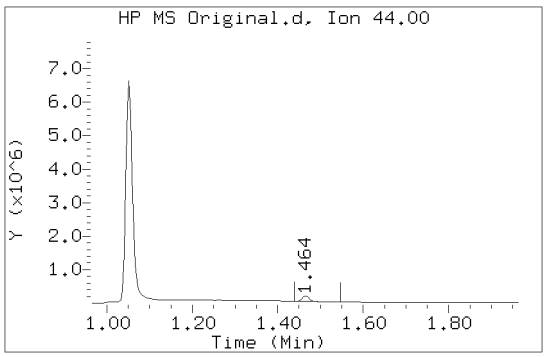


Acetaldehyde (75-07-0)

Reason Code:

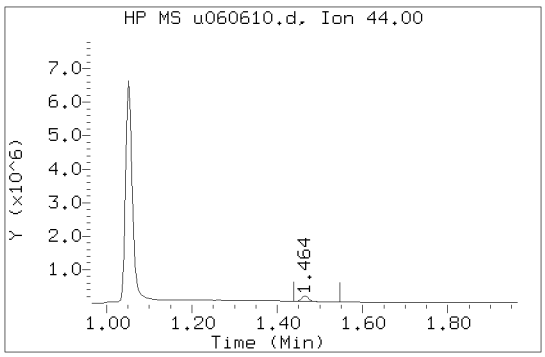
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14:56
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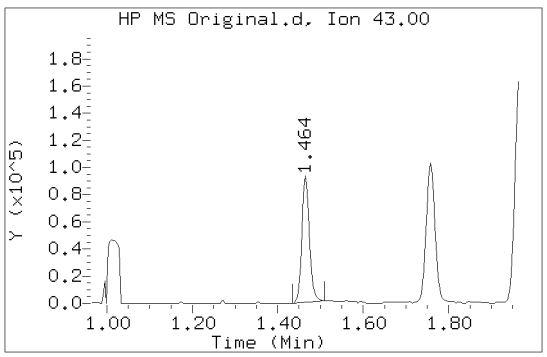
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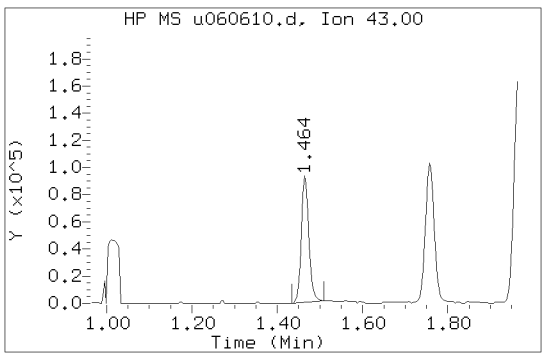
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AFTER

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21-Jun-2023
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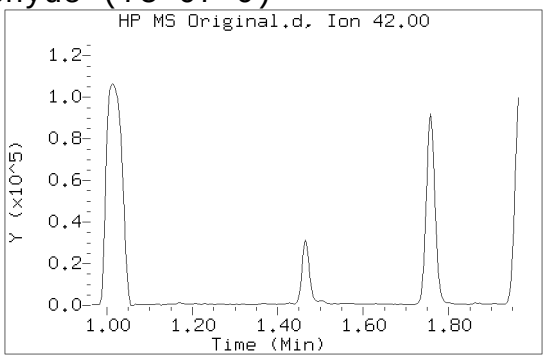
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Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

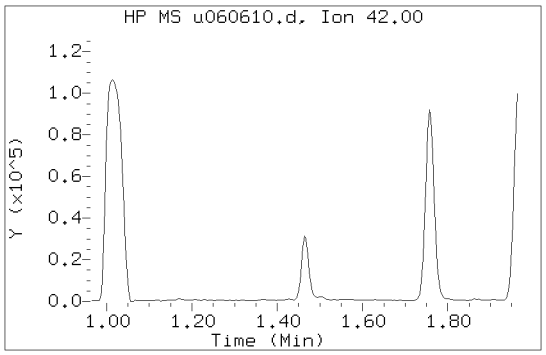
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AFTER

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21-Jun-2023
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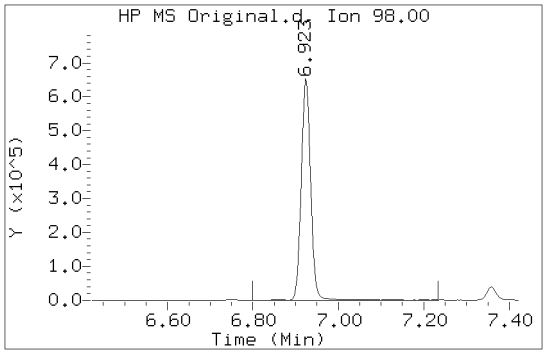


Toluene-d8 (2037-26-5)

Reason Code:

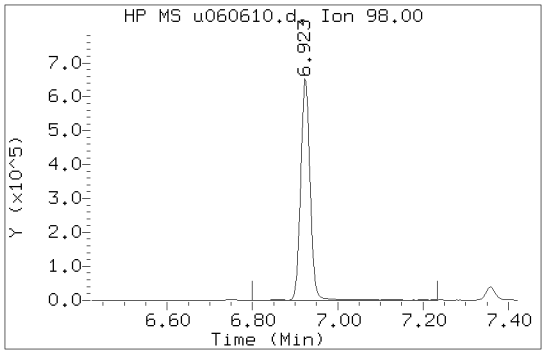
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HEIGHT
653990
08-Jun-2023
14:56
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pham



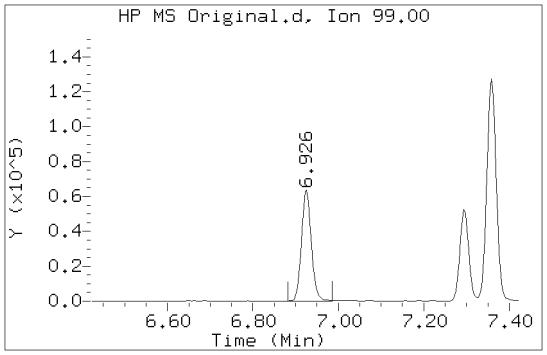
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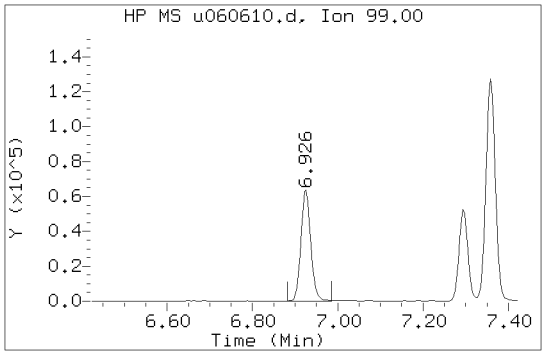
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14:56
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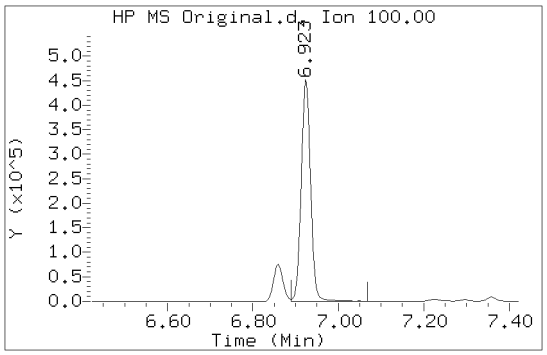
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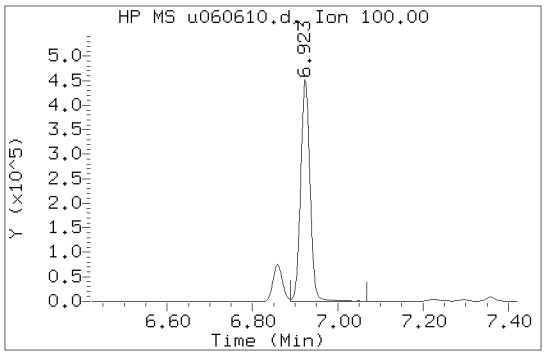
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08-Jun-2023
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pham



AFTER

MASS
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706605
HEIGHT
451766
21-Jun-2023
13:49
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060611.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060611.D
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Inj Date : 06-JUN-2023 14:57
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 14:57 Cal File: U060611.D
Als bottle: 12 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	670070	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	630744	100.000	101.79
3	Chloromethane	50	1.303	1.303	(0.270)	979734	100.000	98.21
5	Vinyl Chloride	62	1.385	1.385	(0.288)	740321	100.000	104.45
6	Bromomethane	94	1.621	1.621	(0.337)	362834	100.000	101.38
7	Chloroethane	64	1.704	1.704	(0.354)	467539	100.000	97.92
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	855761	100.000	105.12
9	Acrolein	56	2.274	2.274	(0.472)	67908	200.000	190.93
10	Acetone	43	2.416	2.416	(0.501)	467276	200.000	208.92
11	1,1-Dichloroethene	96	2.341	2.341	(0.486)	513614	100.000	100.98
15	Iodomethane	142	2.476	2.476	(0.514)	901104	200.000	199.55
16	Acrylonitrile	53	3.072	3.072	(0.638)	516348	200.000	207.79
17	Methylene Chloride	84	2.802	2.802	(0.582)	614571	100.000	101.61
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	1584444	100.000	101.58
19	Carbon Disulfide	76	2.528	2.528	(0.525)	2847374	200.000	209.40
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	568535	100.000	102.78
21	Vinyl Acetate	43	3.616	3.616	(0.750)	3561924	200.000	211.24
22	1,1-Dichloroethane	63	3.522	3.522	(0.731)	1000189	100.000	95.14
24	2-Butanone	43	4.272	4.272	(0.886)	586975	200.000	192.13
26	2,2-Dichloropropane	77	4.189	4.189	(0.869)	699035	100.000	100.17
27	cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	653745	100.000	98.79

28	Chloroform	83	4.579	4.579 (0.950)	1087668	100.000	99.41
29	Bromochloromethane	128	4.474	4.474 (0.928)	353937	100.000	95.61

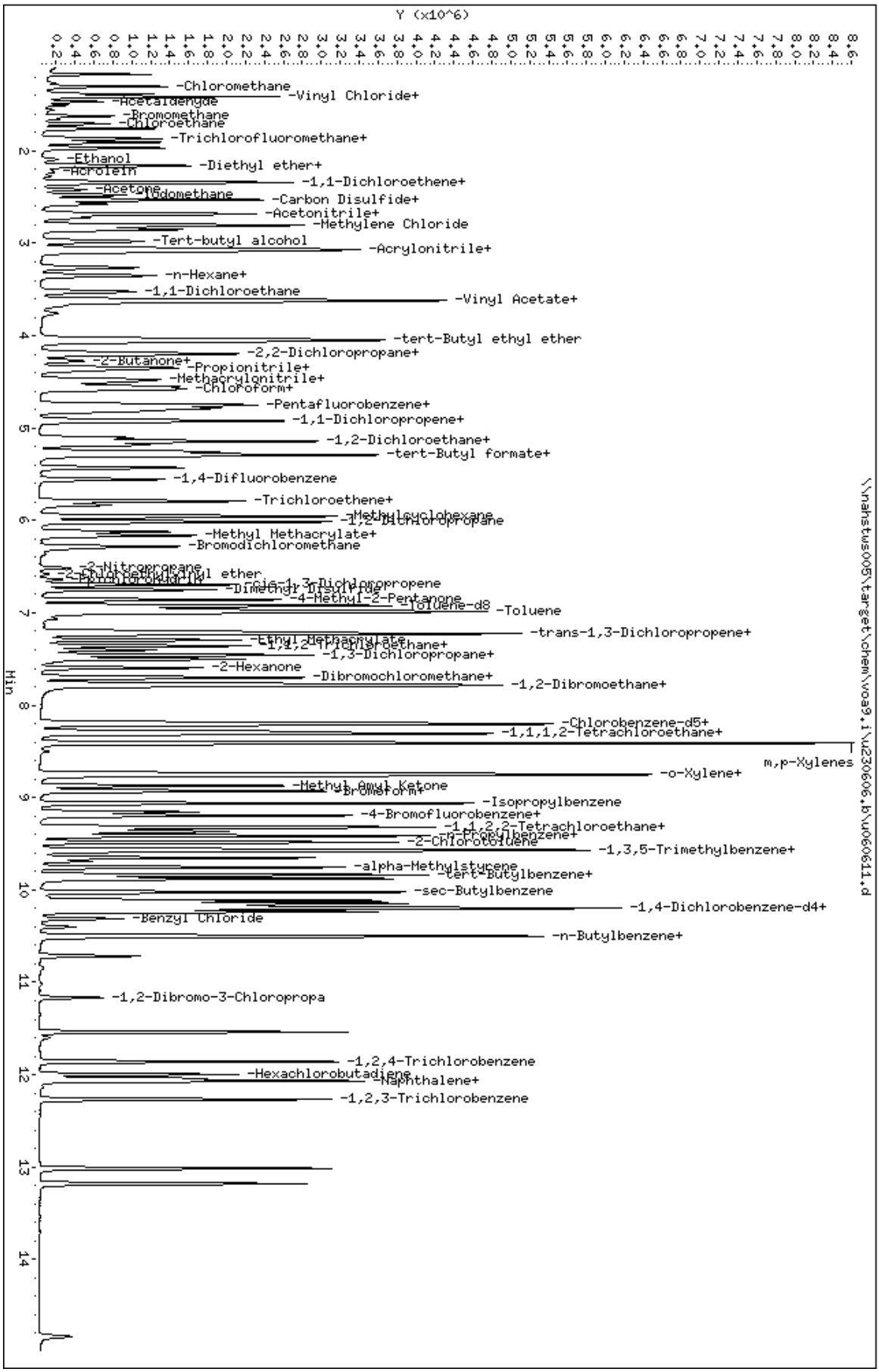
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.755	4.755	(0.987)	587291	100.000	104.76
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	877070	100.000	105.18
	32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	789905	100.000	106.49
	33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	859937	100.000	98.17
	34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	751459	100.000	110.29
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	630129	100.000	104.27
*	36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	1012041	50.0000	
	37 Benzene	78	5.141	5.141	(0.925)	2477058	100.000	101.57
	38 Trichloroethene	130	5.790	5.790	(1.042)	703907	100.000	99.58
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	818290	100.000	107.56
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.184)	40457	200.000	219.88
	42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	652200	100.000	100.16
	44 Dibromomethane	93	6.123	6.123	(1.102)	418327	100.000	100.55
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	1453246	200.000	201.66
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	1015887	100.000	97.77
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	989593	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	2212089	100.000	98.76
	50 Toluene	91	6.982	6.982	(0.853)	2683985	100.000	99.99
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	857257	100.000	98.18
	52 2-Hexanone	43	7.593	7.593	(0.928)	985396	200.000	196.34
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	529613	100.000	94.83
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	1115267	100.000	97.74
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	737148	100.000	111.24
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	639857	100.000	97.84
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	667663	100.000	96.91
	58 1-Chlorohexane	55	8.196	8.196	(1.475)	524953	100.000	101.01
	59 Chlorobenzene	112	8.211	8.211	(1.003)	1872827	100.000	97.76
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	680431	100.000	103.34
	61 Ethylbenzene	106	8.309	8.309	(1.015)	943978	100.000	105.87
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	2348572	200.000	222.64
	63 o-Xylene	106	8.748	8.748	(1.069)	1136322	100.000	109.04
	64 Styrene	104	8.763	8.763	(1.071)	1895390	100.000	114.61
	66 Bromoform	173	8.920	8.920	(1.090)	516461	100.000	115.46
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	2761754	100.000	110.34
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	908699	100.000	94.04
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	923899	100.000	105.68
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	513703	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	846266	100.000	99.55
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	3014111	100.000	111.86
	74 Bromobenzene	156	9.317	9.317	(0.916)	845025	100.000	97.49
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	1940177	100.000	104.95
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	1931083	100.000	101.94
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	2158910	100.000	102.96
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	1926006	100.000	106.08
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	1885486	100.000	97.48
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	2529836	100.000	109.87
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	2089715	100.000	108.33
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	1428807	100.000	97.05
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	1475761	100.000	94.02
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	1713959	100.000	103.79
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	1414908	100.000	95.85
	89 1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	145818	100.000	103.41

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	1004776	100.000	98.96
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	399123	100.000	97.34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
92	Naphthalene	128	12.065	12.065	(1.186)	2448621	100.000	103.83
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	976842	100.000	98.42
M 94	1,2-Dichloroethylene (total)	96				1222280	200.000	201.57
M 95	Xylenes (total)	106				3484894	300.000	331.69
135	1,4-Dioxane	88	6.172	6.172	(1.281)	185267	2000.00	1392.45
141	Cyclohexane	56	4.785	4.785	(0.993)	872566	100.000	102.63
138	Freon TF	101	2.345	2.345	(0.487)	480519	100.000	106.77
140	1,3-Butadiene	54	1.411	1.411	(0.293)	678126	100.000	106.86
147	Methylcyclohexane	55	5.951	5.951	(1.071)	1558687	100.000	111.02(A)
146	Methyl Acetate	43	2.720	2.720	(0.564)	537399	100.000	95.24
148	Tert-Butyl alcohol	59	2.978	2.978	(0.618)	1263261	2000.00	2045.59
149	Isopropyl Alcohol	45	2.573	2.573	(0.534)	847444	2000.00	1934.60
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	125171	100.000	109.85(M)
12	Isobutyl Alcohol	43	5.291	5.291	(1.098)	1859195	2000.00	2135.51(M)
13	Acetonitrile	39	2.678	2.678	(0.556)	750162	1000.00	1034.05
14	Allyl Chloride	41	2.678	2.678	(0.556)	1757558	100.000	101.02
25	Methacrylonitrile	41	4.500	4.500	(0.934)	417519	100.000	105.46
40	Methyl Methacrylate	41	6.161	6.161	(1.278)	629718	100.000	109.29
4	Propionitrile	54	4.347	4.347	(0.902)	963710	1000.00	995.29
136	n-Hexane	57	3.349	3.349	(0.695)	595793	100.000	102.41
194	Acetaldehyde	44	1.468	1.468	(0.305)	401024	400.000	433.93(M)
131	Methyl Acrylate	55	4.377	4.377	(0.908)	743794	100.000	104.95(M)
200	Dimethyl Disulfide	94	6.749	6.749	(0.825)	843448	100.000	100.11
23	Chloroprene	53	2.165	2.165	(0.449)	214456	100.000	100.34(M)
49	Ethyl Methacrylate	69	7.293	7.293	(1.312)	960371	100.000	108.25
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	1877988	100.000	95.10
167	Ethanol	45	2.094	2.094	(0.435)	175232	2000.00	2120.76
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	2526635	100.000	100.82
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	939505	100.000	94.14
142	Tetrahydrofuran	42	4.549	4.549	(0.944)	246154	200.000	210.54
156	Diisopropyl ether	45	3.631	3.631	(0.753)	1887901	100.000	101.04
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.299)	3087346	2000.00	2051.50
150	Allyl alcohol	57	3.349	3.349	(0.695)	595793	2000.00	2048.16
86	Benzyl Chloride	91	10.311	10.311	(1.260)	573982	100.000	93.75
162	Butyl acrylate	55	8.733	8.733	(1.067)	1240696	100.000	105.99
139	Diethyl ether	59	2.154	2.154	(0.447)	464259	100.000	102.54
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	534360	100.000	100.35
134	Cyclohexanone	55	9.156	9.156	(0.900)	605439	2000.00	1901.05
130	Ethyl Acetate	43	4.272	4.272	(0.886)	580165	100.000	96.86(M)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	1156578	100.000	102.64(M)
182	Epichlorohydrin	57	6.633	6.633	(1.194)	42530	400.000	396.34
132	n-Butanol	56	5.835	5.835	(1.211)	404429	2000.00	2120.43

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\u230606,b\u060611.d
Date : 06-JUN-2023 14:57
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

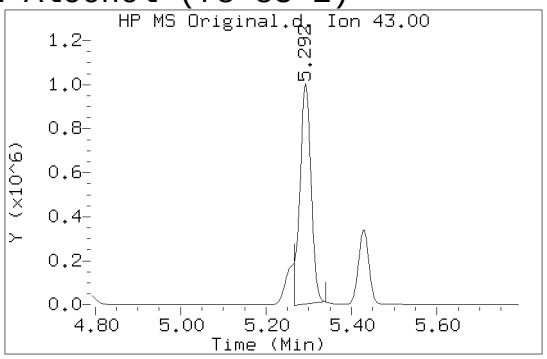
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Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

Isobutyl Alcohol (78-83-1)

Reason Code:

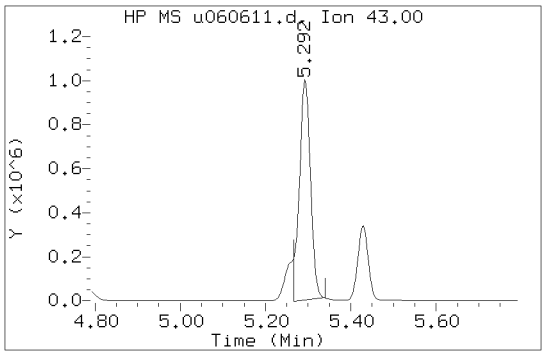
BEFORE

MASS
43
AREA
1859195
HEIGHT
1000873
08-Jun-2023
14:56
linh
pham



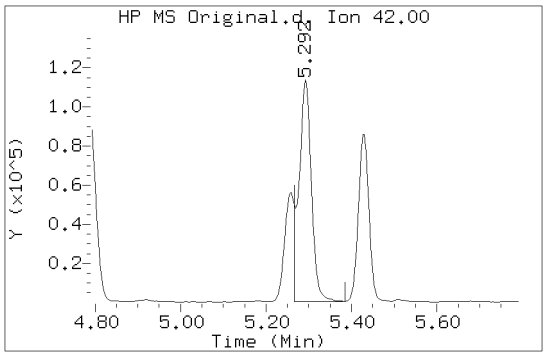
AFTER

MASS
43
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HEIGHT
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21-Jun-2023
13:48
linh
pha



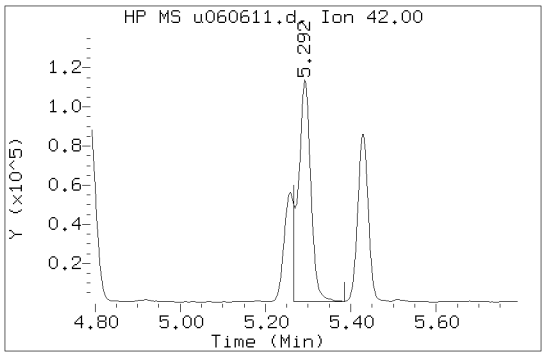
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08-Jun-2023
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pham



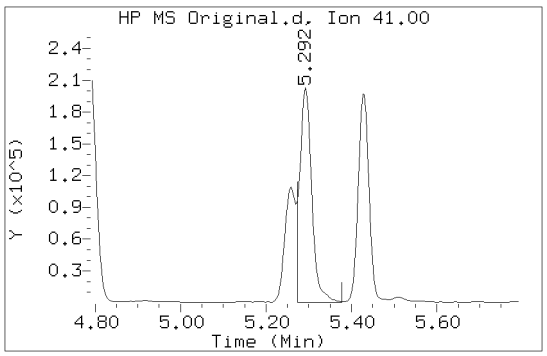
AFTER

MASS
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HEIGHT
113359
21-Jun-2023
13:48
linh
pha



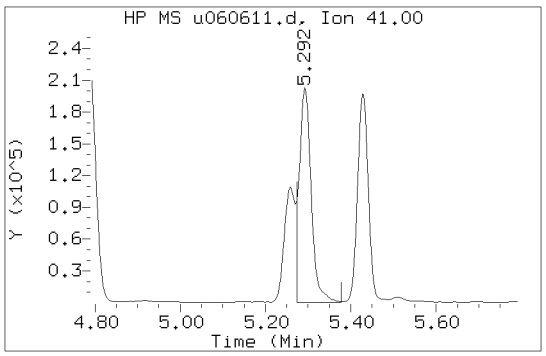
BEFORE

MASS
41
AREA
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202160
08-Jun-2023
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pham



AFTER

MASS
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AREA
402273
HEIGHT
202160
21-Jun-2023
13:48
linh
pha

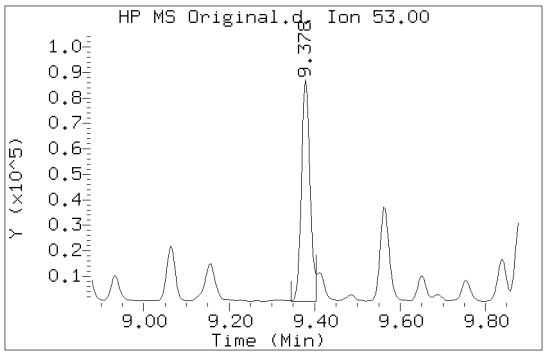


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

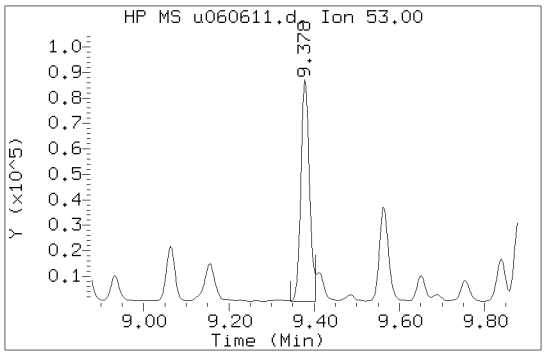
BEFORE

MASS
53
AREA
125171
HEIGHT
86900
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
125171
HEIGHT
86900
21-Jun-2023
13:48
linh
pha



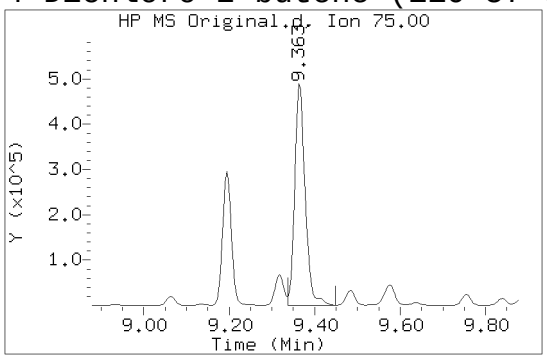
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Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

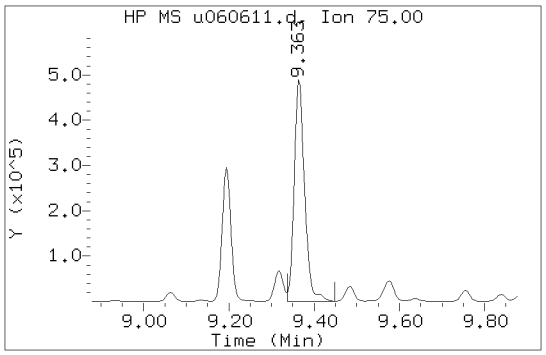
BEFORE

MASS
75
AREA
846266
HEIGHT
489169
08-Jun-2023
14:56
linh
pham



AFTER

MASS
75
AREA
846266
HEIGHT
489169
21-Jun-2023
13:48
linh
pha

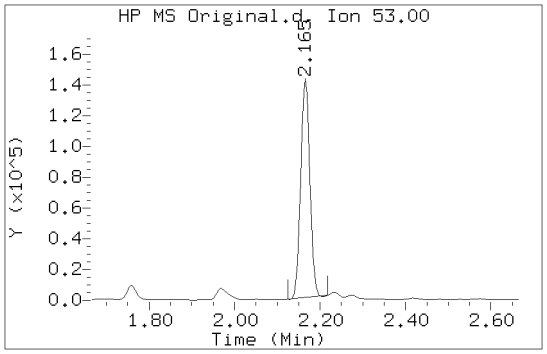


Chloroprene (126-99-8)

Reason Code:

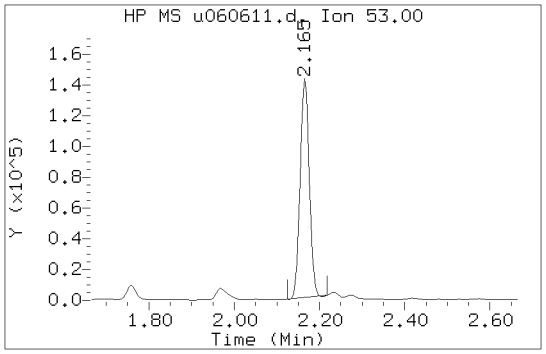
BEFORE

MASS
53
AREA
214456
HEIGHT
141961
08-Jun-2023
14:56
linh
pham



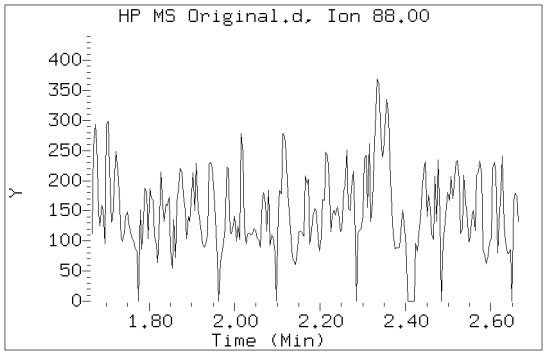
AFTER

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141961
21-Jun-2023
13:48
linh
pha



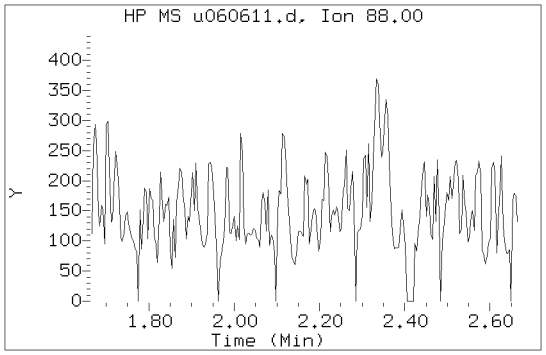
BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
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HEIGHT
0
21-Jun-2023
13:48
linh
pha

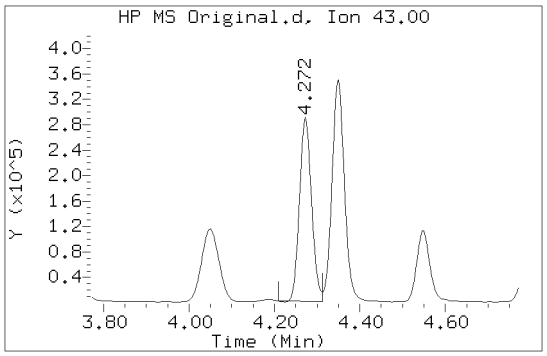


Ethyl Acetate (141-78-6)

Reason Code:

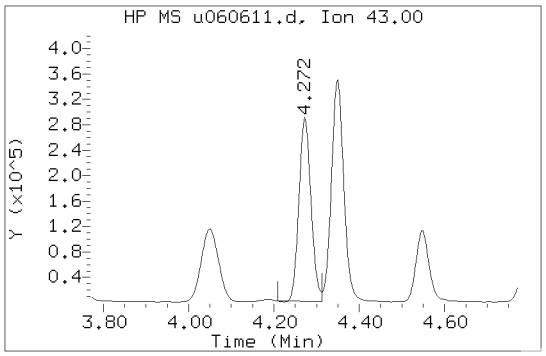
BEFORE

MASS
43
AREA
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HEIGHT
290116
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
580165
HEIGHT
290116
21-Jun-2023
13:48
linh
pha

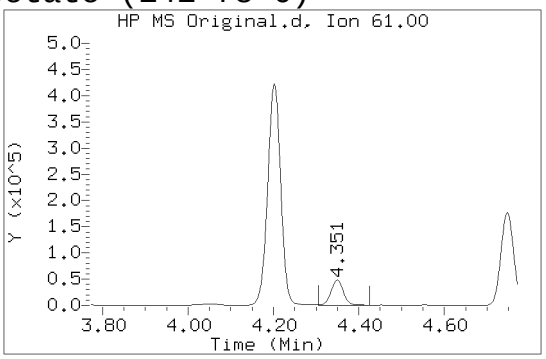


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Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

Ethyl Acetate (141-78-6)

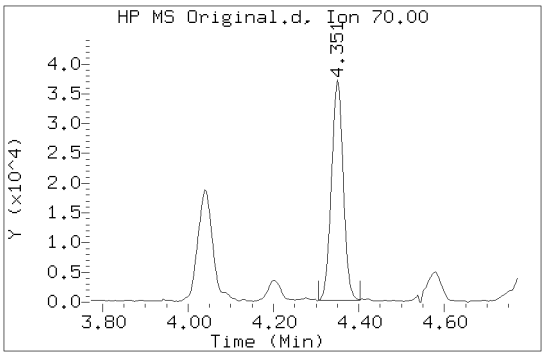
BEFORE

MASS
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AREA
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HEIGHT
48556
08-Jun-2023
14:56
linh
pham



BEFORE

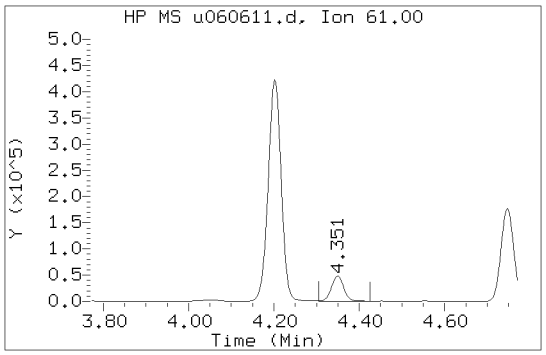
MASS
70
AREA
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HEIGHT
37034
08-Jun-2023
14:56
linh
pham



Reason Code:

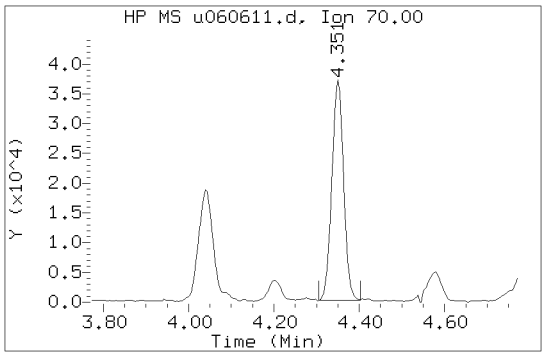
AFTER

MASS
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21-Jun-2023
13:48
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AFTER

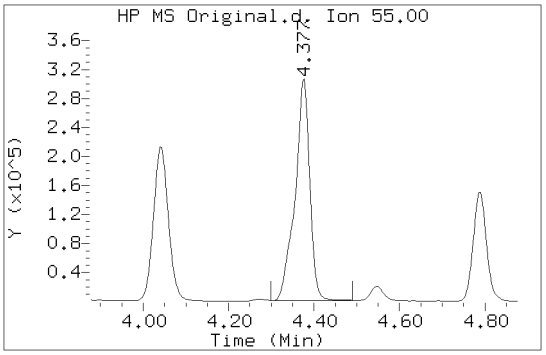
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HEIGHT
37034
21-Jun-2023
13:48
linh
pha



Methyl Acrylate (96-33-3)

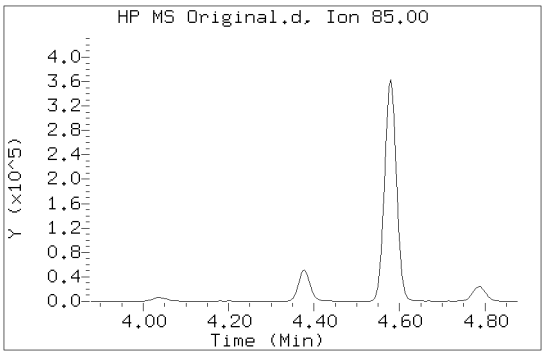
BEFORE

MASS
55
AREA
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HEIGHT
305715
08-Jun-2023
14:56
linh
pham



BEFORE

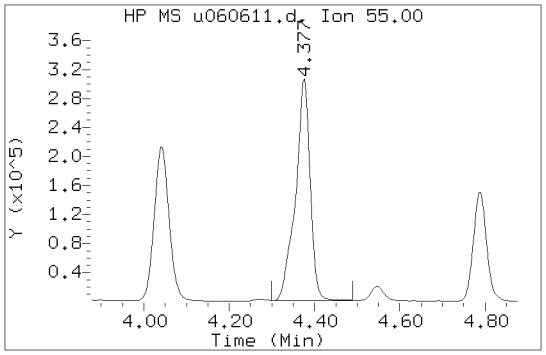
MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



Reason Code:

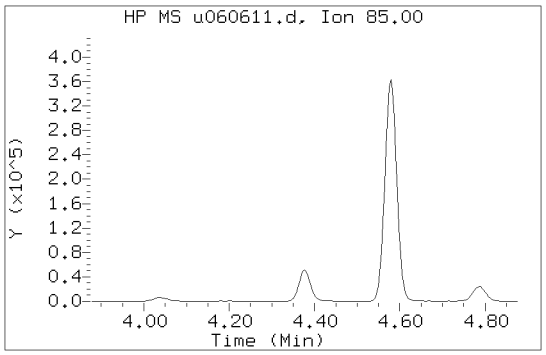
AFTER

MASS
55
AREA
743794
HEIGHT
305715
21-Jun-2023
13:48
linh
pha



AFTER

MASS
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0
HEIGHT
0
21-Jun-2023
13:48
linh
pha

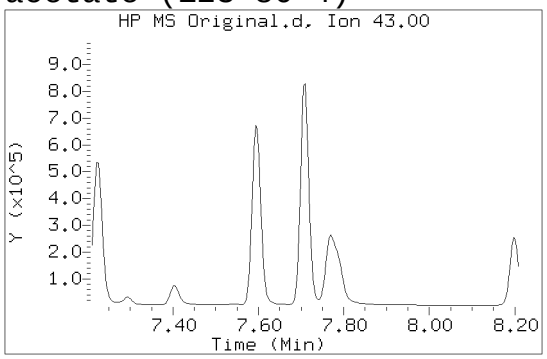


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InstruID : VOA9.i
LabSampID : VSTD100

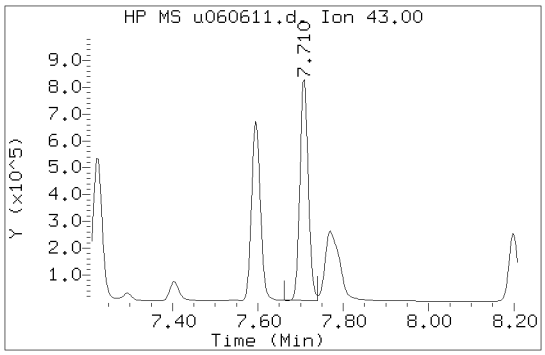
n-Butyl acetate (123-86-4)

Reason Code:

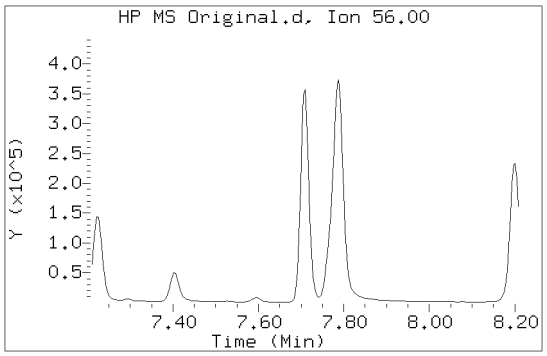
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08-Jun-2023
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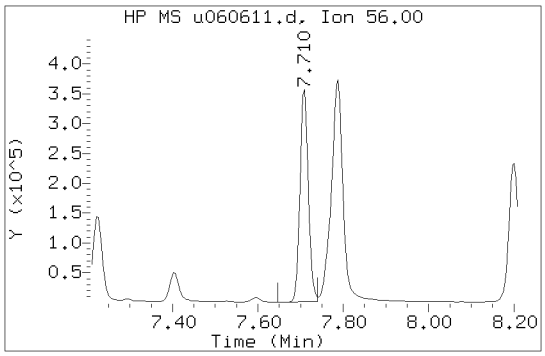
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13:48
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pha



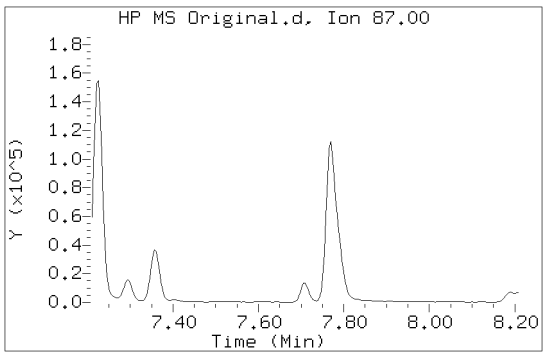
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08-Jun-2023
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pham



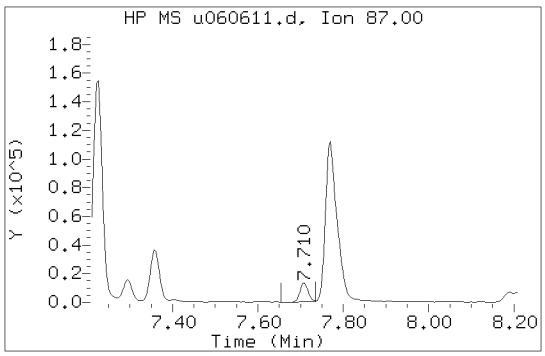
AFTER
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AREA
496978
HEIGHT
356084
21-Jun-2023
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pha



BEFORE
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87
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HEIGHT
0
08-Jun-2023
14:56
linh
pham



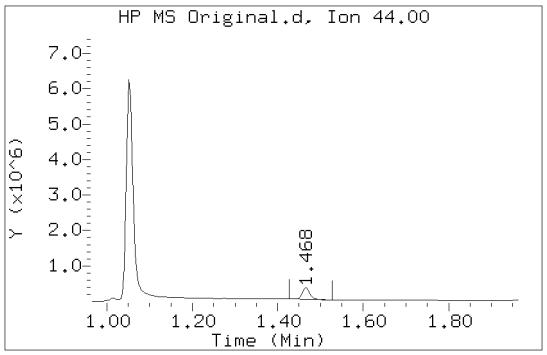
AFTER
MASS
87
AREA
18396
HEIGHT
13363
21-Jun-2023
13:48
linh
pha



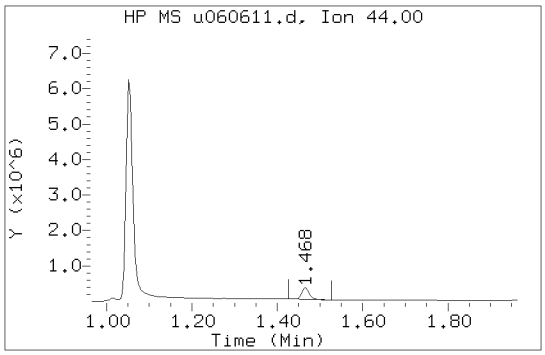
Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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44
AREA
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HEIGHT
318277
08-Jun-2023
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AFTER
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HEIGHT
318277
21-Jun-2023
13:48
linh
pha

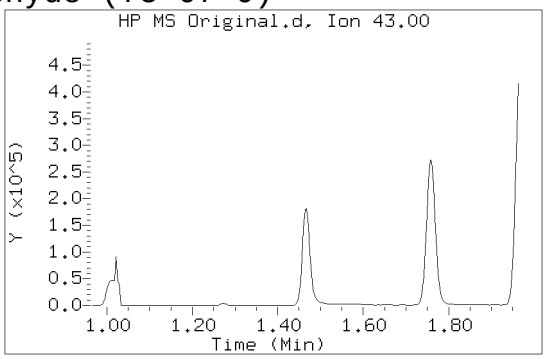


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Inj Date : 06-JUN-2023 14:57
InstruID : VOA9.i
LabSampID : VSTD100

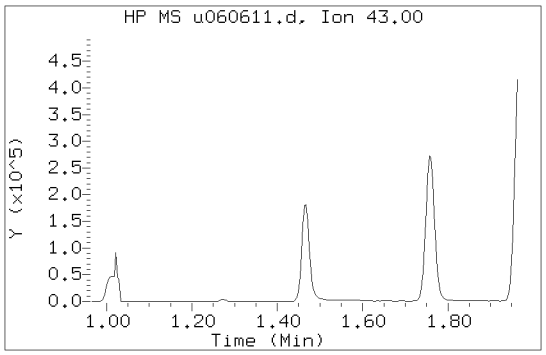
Acetaldehyde (75-07-0)

Reason Code:

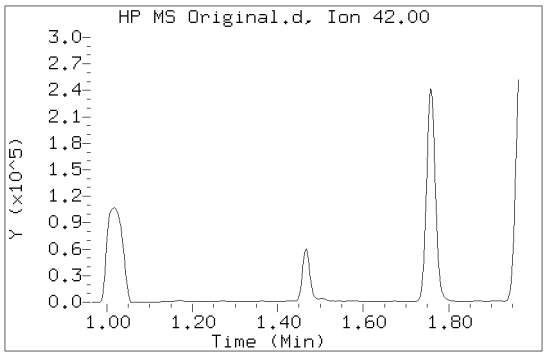
BEFORE
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AREA
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HEIGHT
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08-Jun-2023
14:56
linh
pham



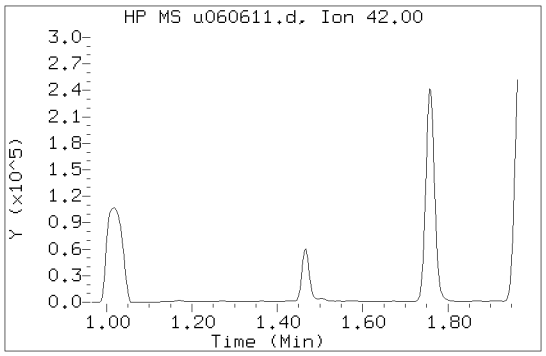
AFTER
MASS
43
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



BEFORE
MASS
42
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER
MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060612.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060612.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 06-JUN-2023 15:19
Operator : PC Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 15:19 Cal File: U060612.D
Als bottle: 13 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	693393	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	960667	150.000	149.79
3	Chloromethane	50	1.299	1.299	(0.270)	1383207	150.000	134.48
5	Vinyl Chloride	62	1.378	1.378	(0.286)	1135719	150.000	154.84
6	Bromomethane	94	1.614	1.614	(0.335)	572508	150.000	155.55
7	Chloroethane	64	1.700	1.700	(0.353)	710334	150.000	143.77
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	1306396	150.000	155.08
9	Acrolein	56	2.270	2.270	(0.471)	101869	300.000	276.78
10	Acetone	43	2.412	2.412	(0.501)	669020	300.000	291.26
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	792951	150.000	150.65
15	Iodomethane	142	2.472	2.472	(0.513)	1654094	300.000	314.13
16	Acrylonitrile	53	3.068	3.068	(0.637)	777948	300.000	302.53
17	Methylene Chloride	84	2.799	2.799	(0.581)	934598	150.000	149.80
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	2427294	150.000	150.38
19	Carbon Disulfide	76	2.525	2.525	(0.524)	4369759	300.000	310.56
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	854280	150.000	149.24
21	Vinyl Acetate	43	3.612	3.612	(0.750)	5494788	300.000	314.91
22	1,1-Dichloroethane	63	3.518	3.518	(0.730)	1535399	150.000	141.14
24	2-Butanone	43	4.272	4.272	(0.886)	886610	300.000	280.44
26	2,2-Dichloropropane	77	4.186	4.186	(0.869)	1080274	150.000	149.40
27	cis-1,2-Dichloroethene	96	4.201	4.201	(0.872)	1008606	150.000	147.29

28	Chloroform	83	4.575	4.575 (0.949)	1661391	150.000	146.74
29	Bromochloromethane	128	4.474	4.474 (0.928)	547129	150.000	142.83

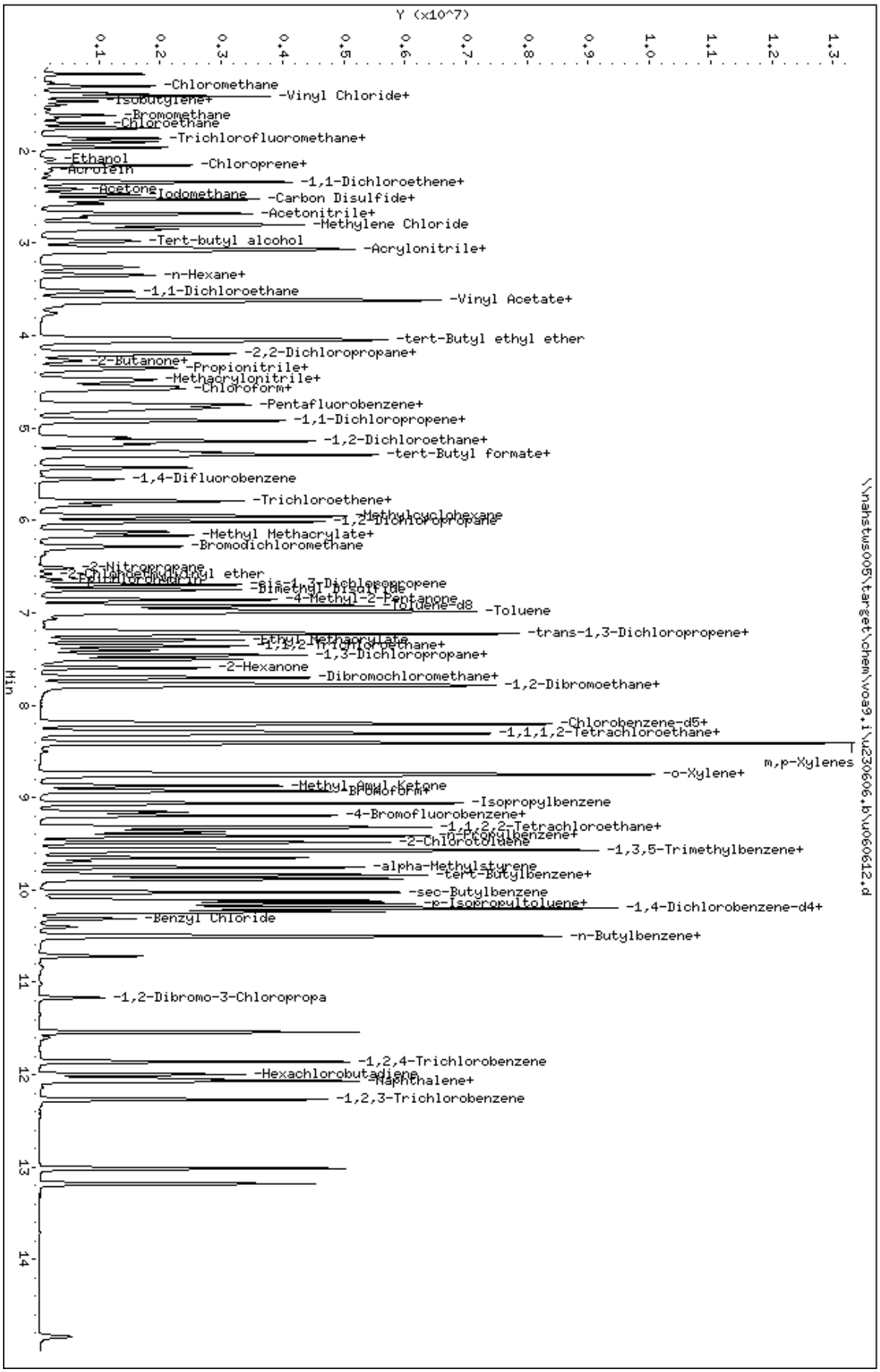
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	869167	150.000	149.96
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	1344181	150.000	155.77
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	1205862	150.000	156.12
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	1309746	150.000	143.58
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	1159204	150.000	163.38
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	944002	150.000	151.26
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	1053901	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	3801057	150.000	149.67
	38 Trichloroethene	130	5.790	5.790	(1.043)	1087941	150.000	147.80
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	1283901	150.000	162.07
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	81461	300.000	425.14(A)
	42 1,2-Dichloropropane	63	6.015	6.015	(1.083)	1011740	150.000	149.21
	44 Dibromomethane	93	6.124	6.124	(1.103)	644143	150.000	148.67
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	2275634	300.000	307.02
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	1649908	150.000	151.42
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	1017824	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	3265170	150.000	141.74
	50 Toluene	91	6.982	6.982	(0.853)	4084070	150.000	147.94
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	1382903	150.000	150.98
	52 2-Hexanone	43	7.597	7.597	(0.928)	1507185	300.000	291.99
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	820894	150.000	142.91
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	1724053	150.000	146.90
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	1165162	150.000	170.96
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	979028	150.000	145.56
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	1030570	150.000	145.44
	58 1-Chlorohexane	55	8.200	8.200	(1.476)	831688	150.000	153.68
	59 Chlorobenzene	112	8.212	8.212	(1.003)	2875380	150.000	145.94
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	1071450	150.000	158.22
	61 Ethylbenzene	106	8.309	8.309	(1.015)	1466582	150.000	159.93
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	3636671	300.000	335.20
	63 o-Xylene	106	8.748	8.748	(1.069)	1775674	150.000	165.67
	64 Styrene	104	8.763	8.763	(1.071)	2956532	150.000	173.82
	66 Bromoform	173	8.920	8.920	(1.090)	819014	150.000	178.03
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	4235878	150.000	164.54
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1374039	150.000	140.32
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	1355424	150.000	151.13
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	520569	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1312413	150.000	152.35
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	4668789	150.000	170.98
	74 Bromobenzene	156	9.317	9.317	(0.916)	1305028	150.000	148.57
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	3068129	150.000	163.78
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	2928853	150.000	152.58
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	3299464	150.000	155.29
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	2957735	150.000	160.75
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	2991253	150.000	152.61
	81 sec-Butylbenzene	105	10.026	10.026	(0.986)	3927022	150.000	168.30
	82 p-Isopropyltoluene	119	10.150	10.150	(0.998)	3334448	150.000	170.58
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	2191876	150.000	146.92
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	2268941	150.000	142.64
	87 n-Butylbenzene	91	10.495	10.495	(1.032)	2750567	150.000	164.36
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2171343	150.000	145.16
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	234556	150.000	164.15

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	1581317	150.000	153.70
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	641183	150.000	154.32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
92	Naphthalene	128	12.069	12.069	(1.186)	3777446	150.000	158.06
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	1515436	150.000	150.67
M 94	1,2-Dichloroethylene (total)	96				1862886	300.000	296.53
M 95	Xylenes (total)	106				5412345	450.000	500.87
135	1,4-Dioxane	88	6.172	6.172	(1.281)	279013	3000.00	2026.50
141	Cyclohexane	56	4.785	4.785	(0.993)	1346053	150.000	148.66
138	Freon TF	101	2.337	2.337	(0.485)	744713	150.000	159.91
140	1,3-Butadiene	54	1.408	1.408	(0.292)	1026660	150.000	156.34
147	Methylcyclohexane	55	5.951	5.951	(1.072)	2435816	150.000	166.61(A)
146	Methyl Acetate	43	2.720	2.720	(0.564)	806323	150.000	138.10
148	Tert-Butyl alcohol	59	2.975	2.975	(0.617)	1948328	3000.00	3051.23
149	Isopropyl Alcohol	45	2.574	2.574	(0.534)	1284183	3000.00	2833.01
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	204272	150.000	174.30(M)
12	Isobutyl Alcohol	43	5.291	5.291	(1.098)	2767410	3000.00	3071.79(M)
13	Acetonitrile	39	2.675	2.675	(0.555)	1141243	1500.00	1520.22
14	Allyl Chloride	41	2.679	2.679	(0.556)	2678647	150.000	148.79
25	Methacrylonitrile	41	4.500	4.500	(0.934)	649391	150.000	158.51
40	Methyl Methacrylate	41	6.161	6.161	(1.278)	969658	150.000	162.64
4	Propionitrile	54	4.347	4.347	(0.902)	1447622	1500.00	1444.77
136	n-Hexane	57	3.346	3.346	(0.694)	933406	150.000	149.31
194	Acetaldehyde	44	1.460	1.460	(0.303)	604743	600.000	632.36(M)
131	Methyl Acrylate	55	4.373	4.373	(0.907)	1119010	150.000	152.59(M)
200	Dimethyl Disulfide	94	6.750	6.750	(0.825)	1542342	150.000	156.55
23	Chloroprene	53	2.161	2.161	(0.449)	341381	150.000	154.36
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	1503706	150.000	162.76
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	2909415	150.000	145.39
167	Ethanol	45	2.090	2.090	(0.434)	261491	3000.00	3068.37
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	3912009	150.000	154.05
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	1521945	150.000	148.37
142	Tetrahydrofuran	42	4.549	4.549	(0.944)	364883	300.000	302.61
156	Diisopropyl ether	45	3.627	3.627	(0.753)	2879455	150.000	148.92
151	4-Methyl-2-pentanol	45	7.226	7.226	(1.301)	4710347	3000.00	3005.64
150	Allyl alcohol	57	3.346	3.346	(0.694)	933406	3000.00	2986.18
86	Benzyl Chloride	91	10.311	10.311	(1.260)	988530	150.000	154.64
162	Butyl acrylate	55	8.733	8.733	(1.067)	1959643	150.000	162.76
139	Diethyl ether	59	2.150	2.150	(0.446)	716609	150.000	152.95
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	905239	150.000	153.98
134	Cyclohexanone	55	9.156	9.156	(0.900)	877279	3000.00	2718.28
130	Ethyl Acetate	43	4.272	4.272	(0.886)	876170	150.000	141.35(M)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	1856486	150.000	160.19(M)
182	Epichlorohydrin	57	6.633	6.633	(1.194)	78090	600.000	617.79
132	n-Butanol	56	5.835	5.835	(1.211)	629851	3000.00	3191.24

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD150
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Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

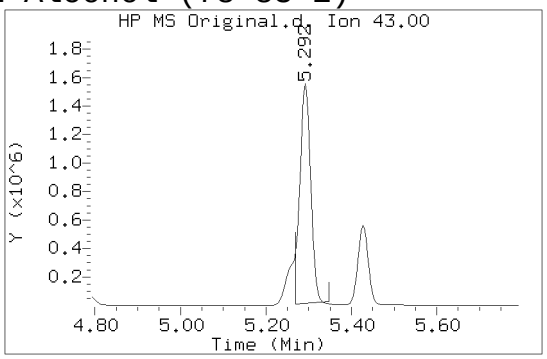
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LabSampID : VSTD150

Isobutyl Alcohol (78-83-1)

Reason Code:

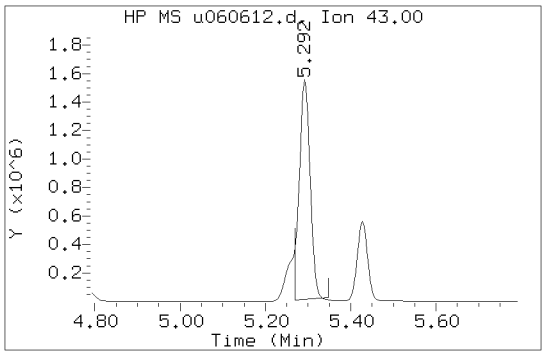
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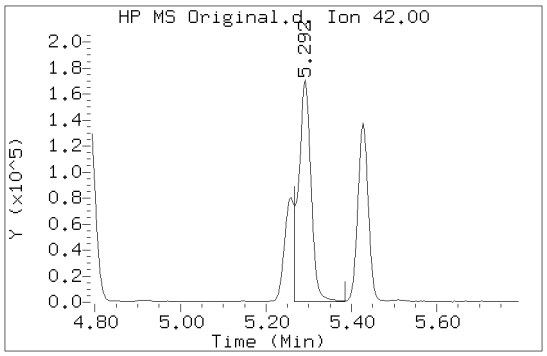
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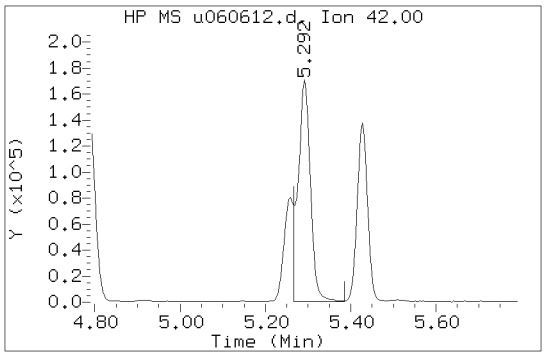
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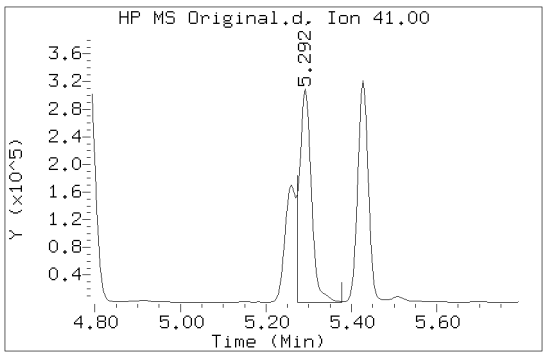
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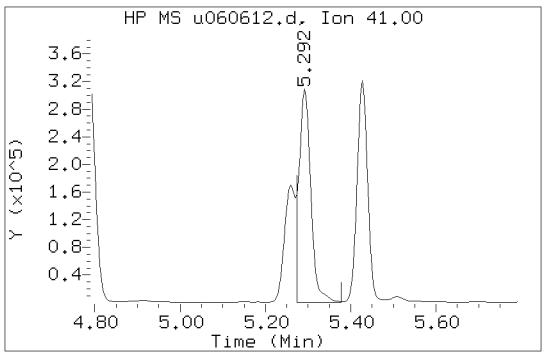
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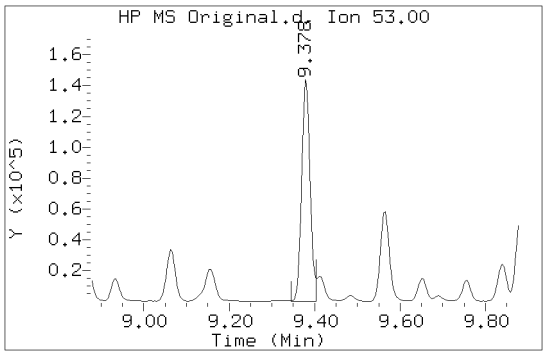


trans-1,4-Dichloro-2-butene (110-57-6)

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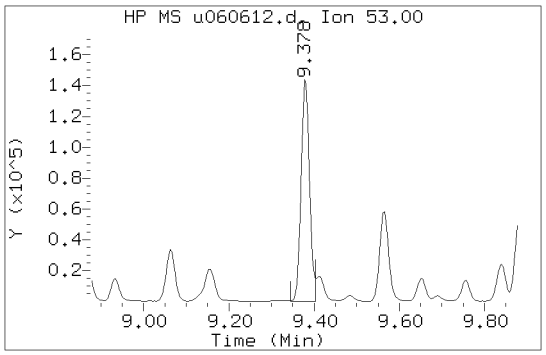
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AFTER

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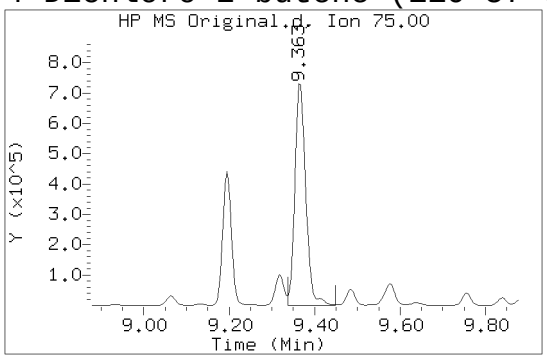
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InstruID : VOA9.i
LabSampID : VSTD150

trans-1,4-Dichloro-2-butene (110-57-6)

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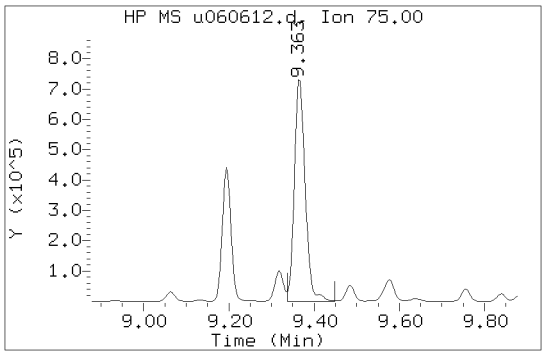
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AFTER

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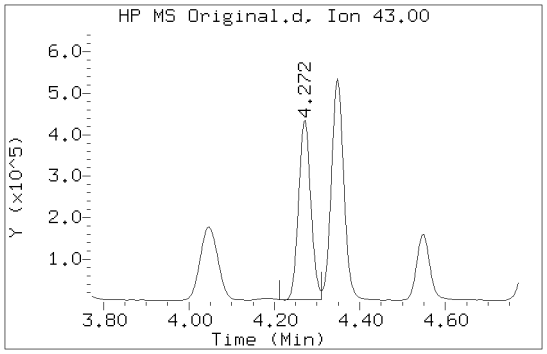


Ethyl Acetate (141-78-6)

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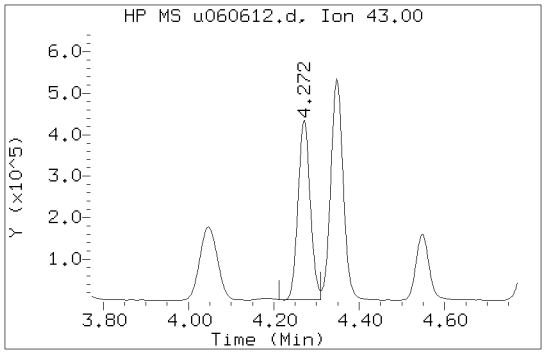
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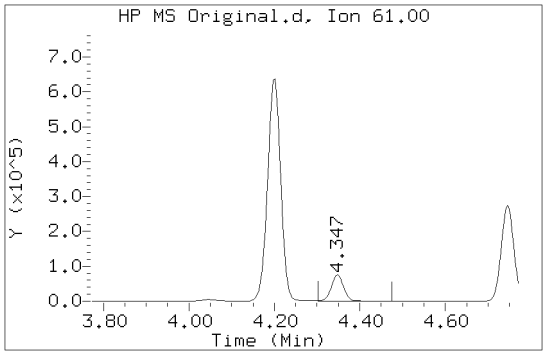
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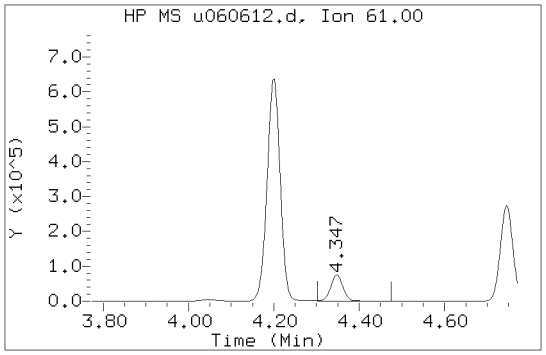
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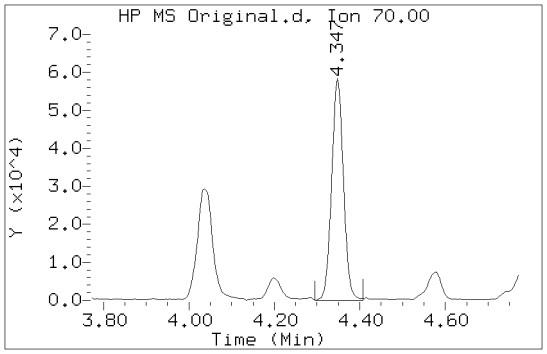
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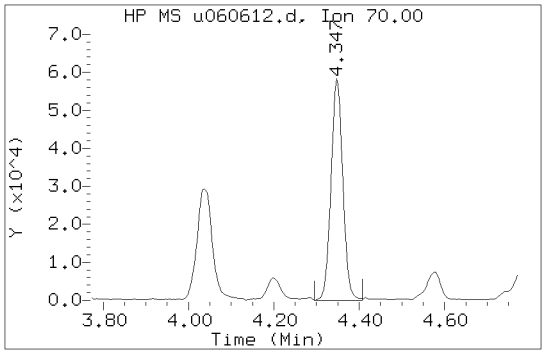
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AFTER

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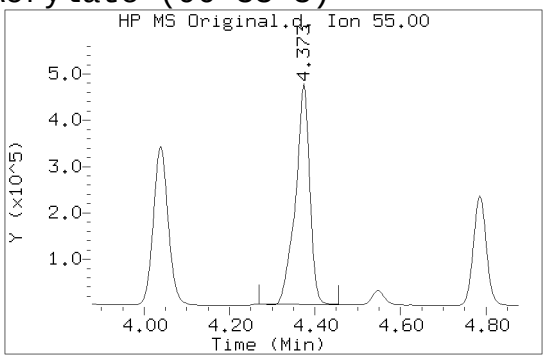


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InstruID : VOA9.i
LabSampID : VSTD150

Methyl Acrylate (96-33-3)

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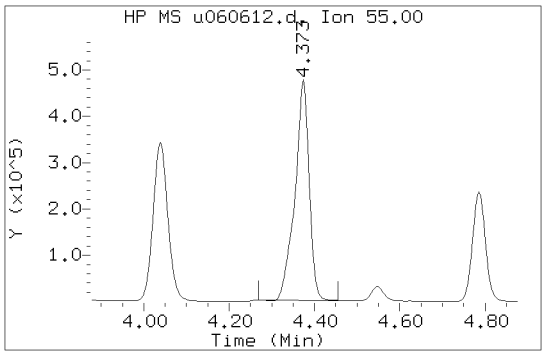
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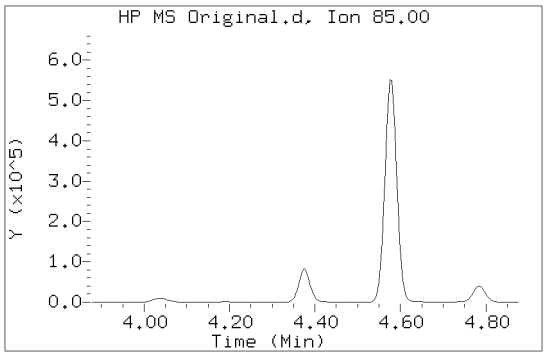
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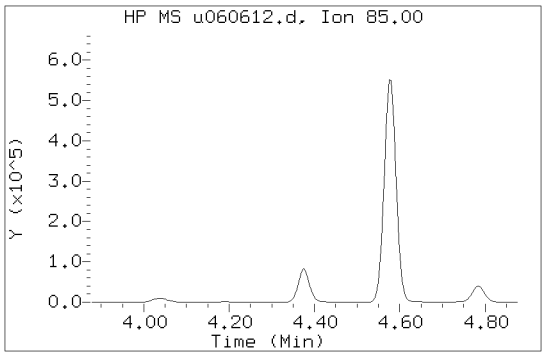
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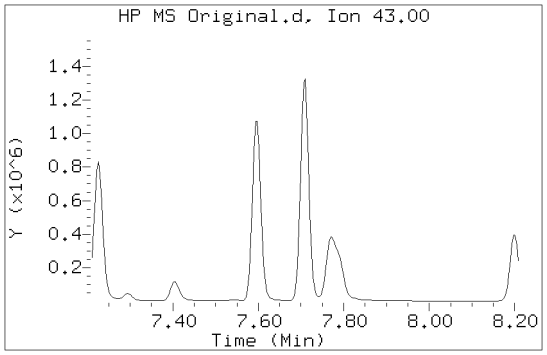
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n-Butyl acetate (123-86-4)

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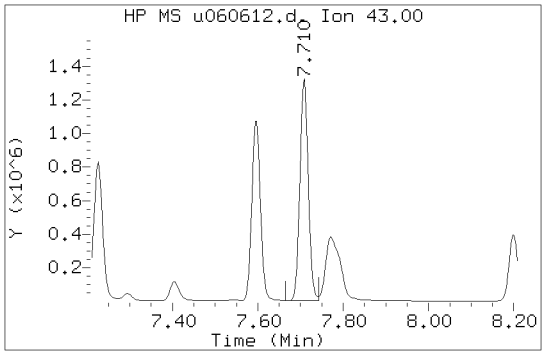
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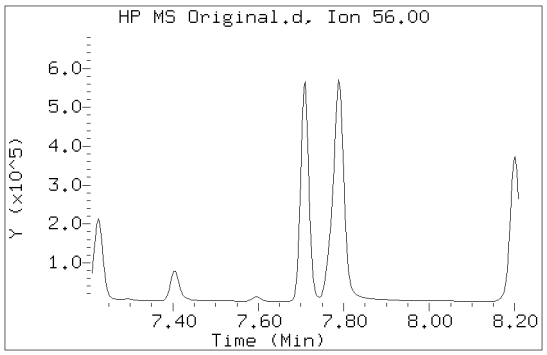
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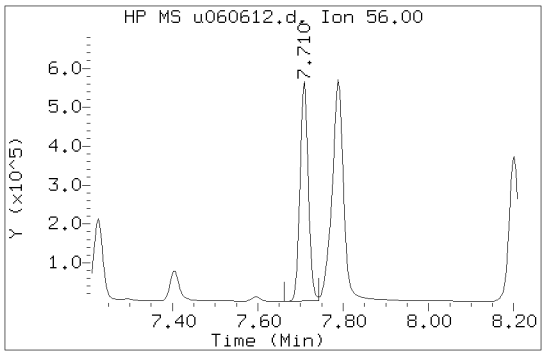
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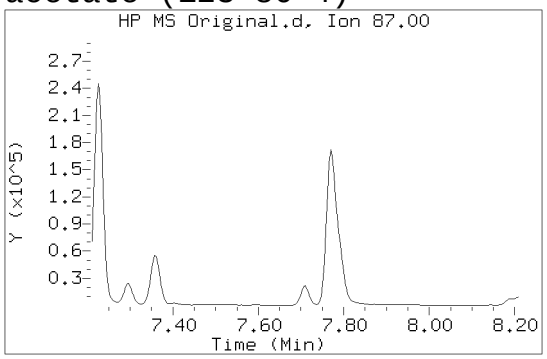
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n-Butyl acetate (123-86-4)

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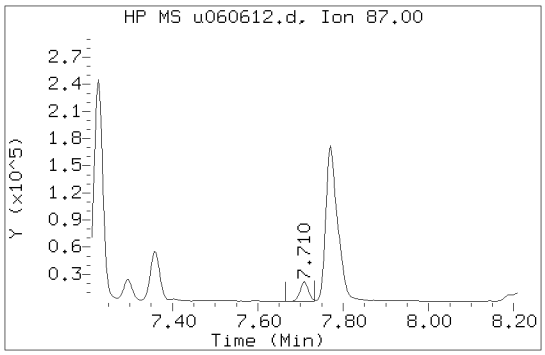
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AFTER

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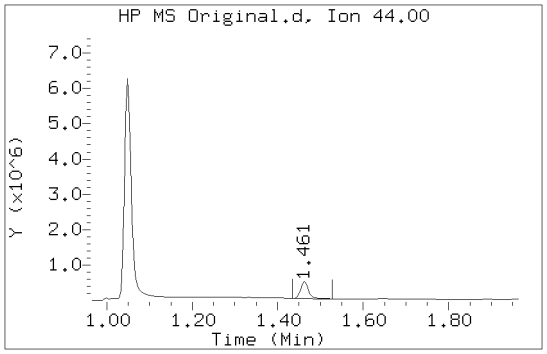


Acetaldehyde (75-07-0)

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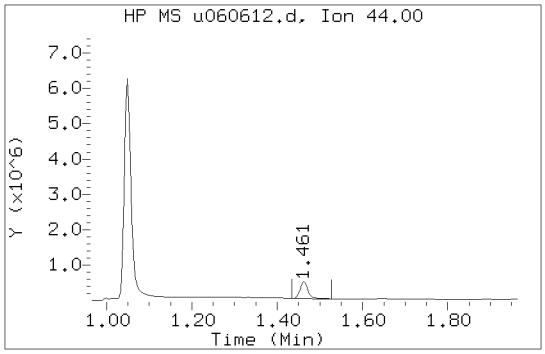
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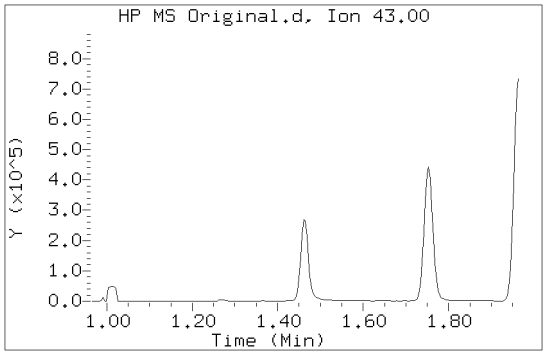
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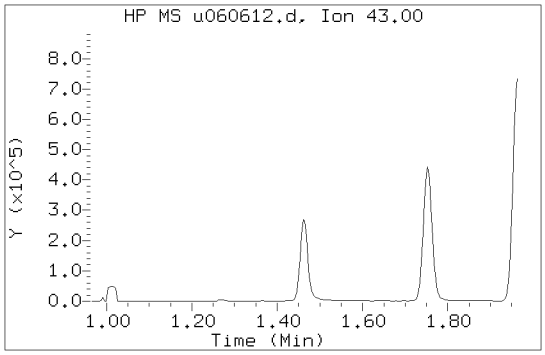
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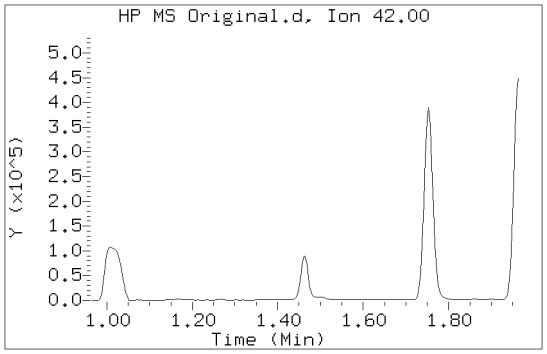
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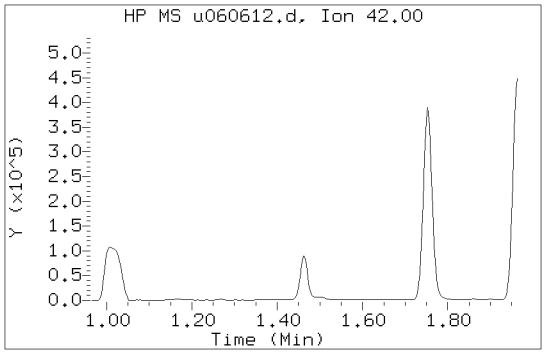
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AFTER

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21-Jun-2023
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060613.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060613.D
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Operator : PC Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10;
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Cal Date : 06-JUN-2023 15:41 Cal File: U060613.D
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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)	719289	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	1327832	200.000	199.55
3	Chloromethane	50	1.303	1.303	(0.270)	1811207	200.000	170.11
5	Vinyl Chloride	62	1.382	1.382	(0.287)	1577666	200.000	207.36(A)
6	Bromomethane	94	1.614	1.614	(0.335)	739966	200.000	194.26
7	Chloroethane	64	1.700	1.700	(0.353)	966868	200.000	188.65
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	1797881	200.000	205.74(A)
9	Acrolein	56	2.270	2.270	(0.471)	145745	400.000	381.74
10	Acetone	43	2.416	2.416	(0.501)	921553	400.000	388.62
11	1,1-Dichloroethene	96	2.341	2.341	(0.486)	1106671	200.000	202.69(A)
15	Iodomethane	142	2.472	2.472	(0.513)	2389174	400.000	393.17
16	Acrylonitrile	53	3.072	3.072	(0.638)	1044690	400.000	391.64
17	Methylene Chloride	84	2.799	2.799	(0.581)	1286266	200.000	199.09
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	3267974	200.000	195.18
19	Carbon Disulfide	76	2.525	2.525	(0.524)	6034238	400.000	413.41(A)
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	1205698	200.000	203.05(A)
21	Vinyl Acetate	43	3.616	3.616	(0.750)	7382189	400.000	407.85(A)
22	1,1-Dichloroethane	63	3.522	3.522	(0.731)	2108962	200.000	186.89
24	2-Butanone	43	4.272	4.272	(0.886)	1191616	400.000	363.35
26	2,2-Dichloropropane	77	4.189	4.189	(0.869)	1505657	200.000	200.60(A)
27	cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	1388156	200.000	195.41

28	Chloroform	83	4.579	4.579 (0.950)	2274175	200.000	193.63
29	Bromochloromethane	128	4.474	4.474 (0.928)	727780	200.000	183.15

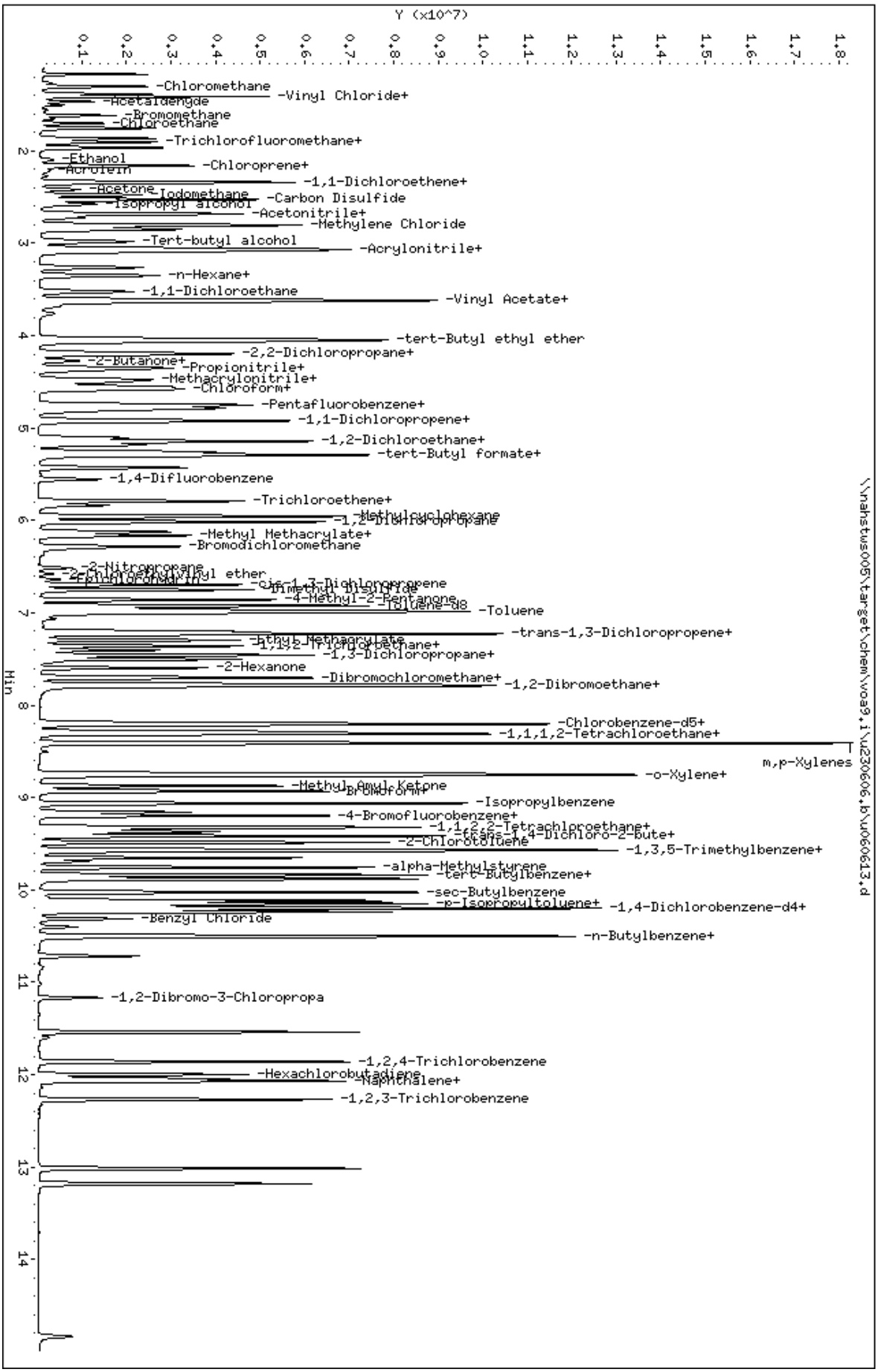
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	30 Dibromofluoromethane	113	4.755	4.755	(0.987)	1189943	200.000	198.02
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	1886386	200.000	210.74(A)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	1700729	200.000	212.75(A)
	33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	1771626	200.000	187.66
	34 Carbon Tetrachloride	117	4.917	4.917	(0.885)	1637950	200.000	223.06(A)
$	35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	1273587	200.000	196.93
*	36 1,4-Difluorobenzene	114	5.558	5.558	(1.000)	1090740	50.0000	
	37 Benzene	78	5.141	5.141	(0.925)	5184803	200.000	197.26
	38 Trichloroethene	130	5.790	5.790	(1.042)	1521502	200.000	199.72
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	1771493	200.000	216.07(A)
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.184)	132164	400.000	666.47(A)
	42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	1391632	200.000	198.30
	44 Dibromomethane	93	6.124	6.124	(1.102)	883833	200.000	197.11
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	3098336	400.000	401.08(A)
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	2272308	200.000	200.87(A)
*	47 Chlorobenzene-d5	117	8.189	8.189	(1.000)	1060812	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	4434953	200.000	184.71
	50 Toluene	91	6.982	6.982	(0.853)	5549820	200.000	192.89
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	1913130	200.000	201.14(A)
	52 2-Hexanone	43	7.597	7.597	(0.928)	2078685	400.000	386.39
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.898)	1110628	200.000	185.51
	54 1,3-Dichloropropane	76	7.503	7.503	(0.916)	2327172	200.000	190.26
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	1606540	200.000	226.17(A)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	1393824	200.000	198.83
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	1398022	200.000	189.30
	58 1-Chlorohexane	55	8.200	8.200	(1.475)	1197273	200.000	213.76(A)
	59 Chlorobenzene	112	8.212	8.212	(1.003)	3927200	200.000	191.25
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	1485967	200.000	210.54(A)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	2034447	200.000	212.86(A)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	5028837	400.000	444.73(A)
	63 o-Xylene	106	8.748	8.748	(1.068)	2445057	200.000	218.88(A)
	64 Styrene	104	8.763	8.763	(1.070)	4009853	200.000	226.19(A)
	66 Bromoform	173	8.920	8.920	(1.089)	1122084	200.000	234.02(A)
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	5892020	200.000	219.60(A)
	68 1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	1811573	200.000	181.35
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	1832443	200.000	196.31
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	531037	50.0000	
	71 1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	1763864	200.000	200.72(A)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	6509511	200.000	233.69(A)
	74 Bromobenzene	156	9.321	9.321	(0.916)	1773376	200.000	197.92
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	4383254	200.000	229.37(A)
	76 2-Chlorotoluene	91	9.486	9.486	(0.933)	3980132	200.000	203.26(A)
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	4532900	200.000	209.14(A)
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	4141351	200.000	220.65(A)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	4284336	200.000	214.27(A)
	81 sec-Butylbenzene	105	10.026	10.026	(0.986)	5530698	200.000	232.36(A)
	82 p-Isopropyltoluene	119	10.150	10.150	(0.998)	4785361	200.000	239.98(A)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	3007133	200.000	197.60
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	3094412	200.000	190.71
	87 n-Butylbenzene	91	10.495	10.495	(1.032)	3970657	200.000	232.59(A)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2966505	200.000	194.42
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	327879	200.000	224.94(A)

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	2208303	200.000	210.41(A)
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	915431	200.000	215.98(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	5090967	200.000	208.82(A)
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	2101950	200.000	204.86(A)
M	94 1,2-Dichloroethylene (total)	96				2593854	400.000	398.47
M	95 Xylenes (total)	106				7473894	600.000	663.61
	135 1,4-Dioxane	88	6.172	6.172	(1.281)	359619	4000.00	2517.91
	141 Cyclohexane	56	4.785	4.785	(0.993)	1948136	200.000	200.21(A)
	138 Freon TF	101	2.341	2.341	(0.486)	1062416	200.000	219.92(A)
	140 1,3-Butadiene	54	1.412	1.412	(0.293)	1426460	200.000	209.40(A)
	147 Methylcyclohexane	55	5.951	5.951	(1.071)	3311608	200.000	218.86(A)
	146 Methyl Acetate	43	2.720	2.720	(0.564)	1087855	200.000	179.61
	148 Tert-Butyl alcohol	59	2.978	2.978	(0.618)	2615413	4000.00	3949.93
	149 Isopropyl Alcohol	45	2.577	2.577	(0.535)	1712648	4000.00	3642.22
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	280535	200.000	229.67(A)
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	3974379	4000.00	4252.69(AM)
	13 Acetonitrile	39	2.679	2.679	(0.556)	1502696	2000.00	1929.63
	14 Allyl Chloride	41	2.679	2.679	(0.556)	3531503	200.000	189.10
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	862110	200.000	202.86(A)
	40 Methyl Methacrylate	41	6.161	6.161	(1.278)	1311723	200.000	212.09(A)
	4 Propionitrile	54	4.350	4.350	(0.903)	1943419	2000.00	1869.76
	136 n-Hexane	57	3.350	3.350	(0.695)	1358253	200.000	199.96
	194 Acetaldehyde	44	1.464	1.464	(0.304)	813402	800.000	819.92(AM)
	131 Methyl Acrylate	55	4.377	4.377	(0.908)	1518708	200.000	199.64(M)
	200 Dimethyl Disulfide	94	6.750	6.750	(0.824)	2303909	200.000	196.98
	23 Chloroprene	53	2.165	2.165	(0.449)	488469	200.000	212.92(A)
	49 Ethyl Methacrylate	69	7.297	7.297	(1.313)	2085234	200.000	218.09(A)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	4057323	200.000	198.76
	167 Ethanol	45	2.098	2.098	(0.435)	342926	4000.00	3885.10
	164 Dicyclopentadiene	66	10.202	10.202	(1.003)	5181324	200.000	200.01(A)
	145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	2162870	200.000	205.31(A)
	142 Tetrahydrofuran	42	4.549	4.549	(0.944)	488623	400.000	391.34
	156 Diisopropyl ether	45	3.631	3.631	(0.753)	3891038	200.000	194.00
	151 4-Methyl-2-pentanol	45	7.226	7.226	(1.300)	6448455	4000.00	3975.75
	150 Allyl alcohol	57	3.350	3.350	(0.695)	1358253	4000.00	3999.38
	86 Benzyl Chloride	91	10.311	10.311	(1.259)	1346925	200.000	201.11(A)
	162 Butyl acrylate	55	8.733	8.733	(1.066)	2685275	200.000	213.99(A)
	139 Diethyl ether	59	2.154	2.154	(0.447)	970215	200.000	199.62
	203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	1300346	200.000	198.09
	134 Cyclohexanone	55	9.156	9.156	(0.900)	1223605	4000.00	3716.65
	130 Ethyl Acetate	43	4.272	4.272	(0.886)	1152217	200.000	179.20(M)
	189 n-Butyl acetate	43	7.709	7.709	(0.941)	2542322	200.000	210.47(AM)
	182 Epichlorohydrin	57	6.633	6.633	(1.194)	120896	800.000	793.08
	132 n-Butanol	56	5.835	5.835	(1.211)	859488	4000.00	4197.96(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\nahstus005\target\chem\voa9,i\u230606,b\u060613,d
Date : 06-JUN-2023 15:41
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

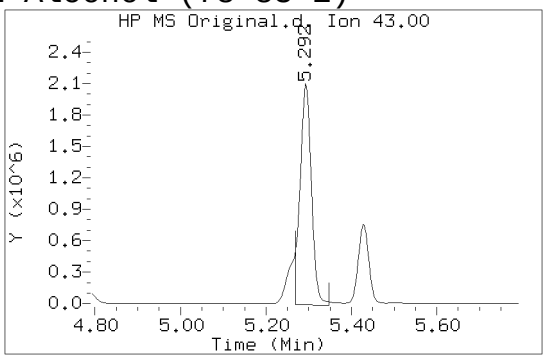
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Inj Date : 06-JUN-2023 15:41
InstruID : VOA9.i
LabSampID : VSTD200

Isobutyl Alcohol (78-83-1)

Reason Code:

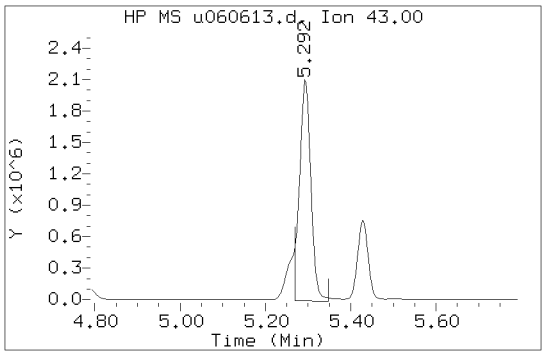
BEFORE

MASS
43
AREA
3974379
HEIGHT
2109402
08-Jun-2023
14:56
linh
pham



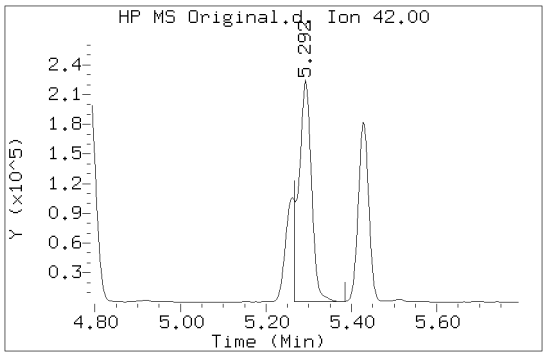
AFTER

MASS
43
AREA
3974379
HEIGHT
2109402
21-Jun-2023
13:48
linh
pha



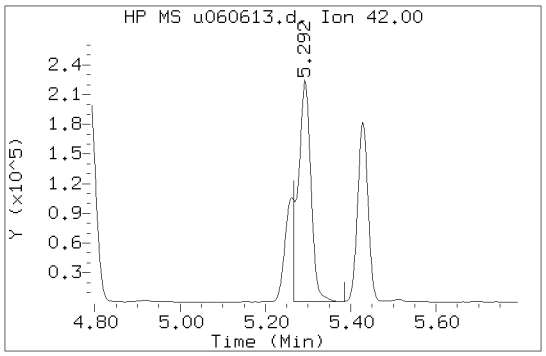
BEFORE

MASS
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AREA
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HEIGHT
223986
08-Jun-2023
14:56
linh
pham



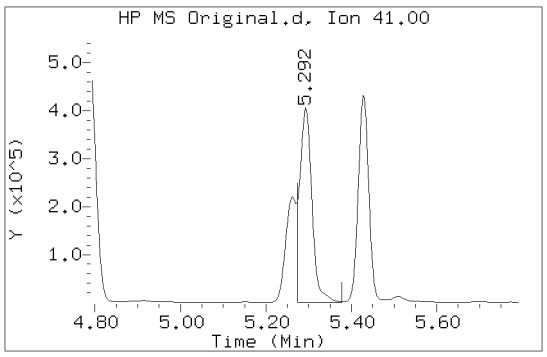
AFTER

MASS
42
AREA
479426
HEIGHT
223986
21-Jun-2023
13:48
linh
pha



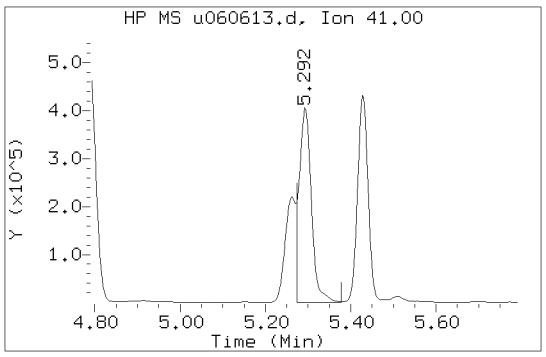
BEFORE

MASS
41
AREA
826091
HEIGHT
405295
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
826091
HEIGHT
405295
21-Jun-2023
13:48
linh
pha

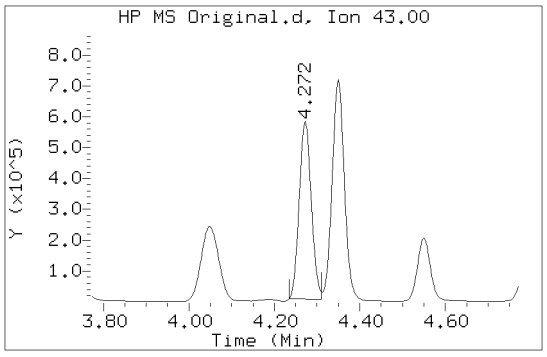


Ethyl Acetate (141-78-6)

Reason Code:

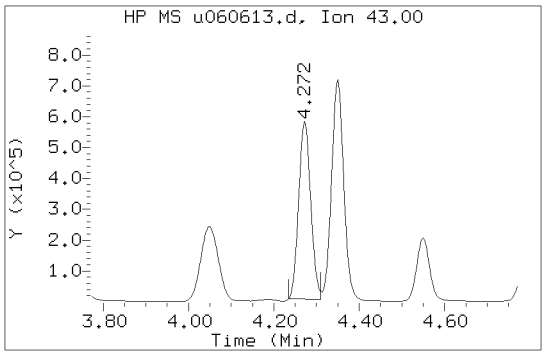
BEFORE

MASS
43
AREA
1152217
HEIGHT
575568
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
1152217
HEIGHT
575568
21-Jun-2023
13:48
linh
pha



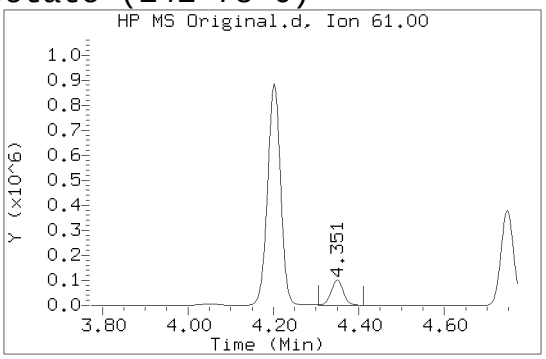
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Inj Date : 06-JUN-2023 15:41
InstruID : VOA9.i
LabSampID : VSTD200

Ethyl Acetate (141-78-6)

Reason Code:

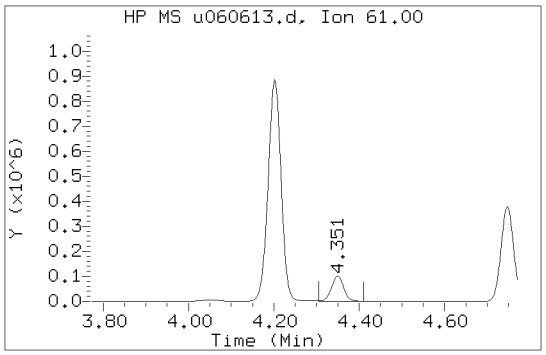
BEFORE

MASS
61
AREA
198877
HEIGHT
100974
08-Jun-2023
14:56
linh
pham



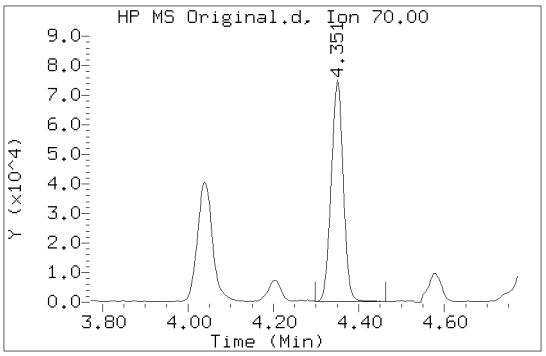
AFTER

MASS
61
AREA
198877
HEIGHT
100974
21-Jun-2023
13:48
linh
pha



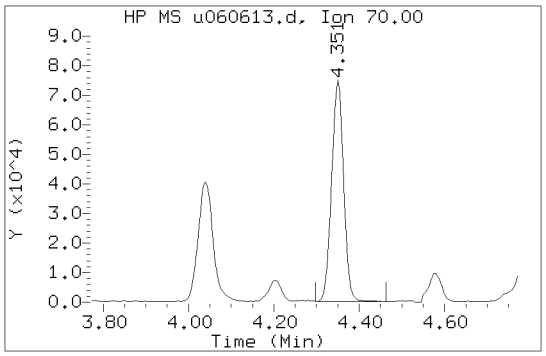
BEFORE

MASS
70
AREA
146444
HEIGHT
74996
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
146444
HEIGHT
74996
21-Jun-2023
13:48
linh
pha

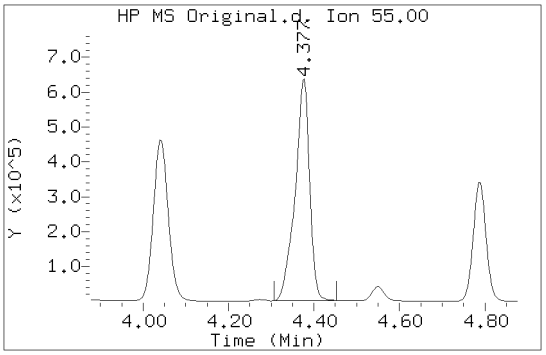


Methyl Acrylate (96-33-3)

Reason Code:

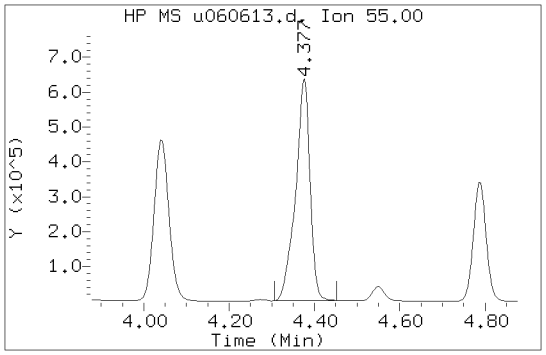
BEFORE

MASS
55
AREA
1518708
HEIGHT
635347
08-Jun-2023
14:56
linh
pham



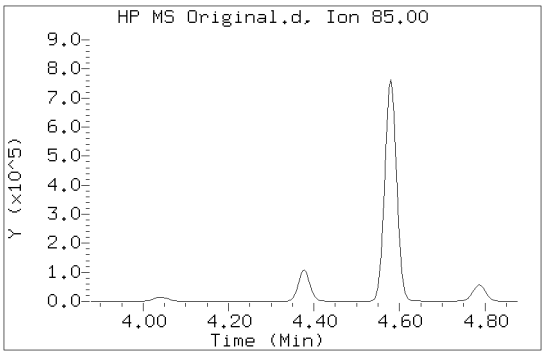
AFTER

MASS
55
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1518708
HEIGHT
635347
21-Jun-2023
13:48
linh
pha



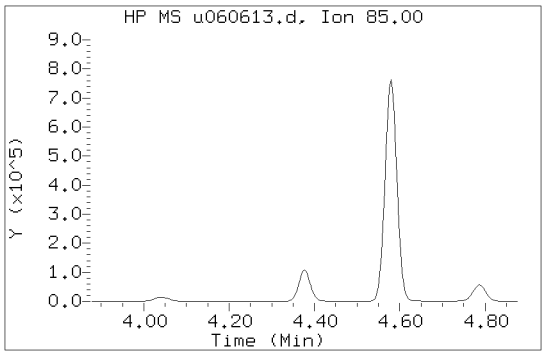
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha

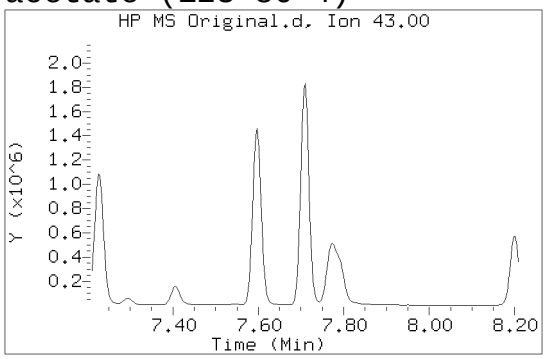


Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060613.d
Inj Date : 06-JUN-2023 15:41
InstruID : VOA9.i
LabSampID : VSTD200

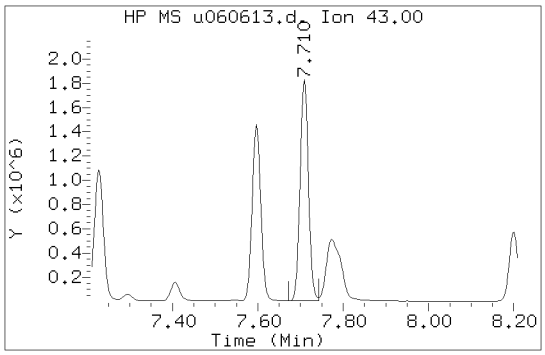
n-Butyl acetate (123-86-4)

Reason Code:

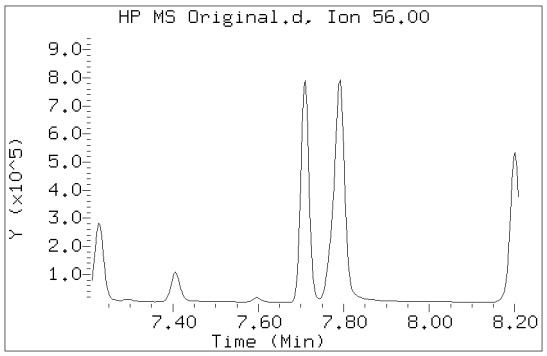
BEFORE
MASS
43
AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
pham



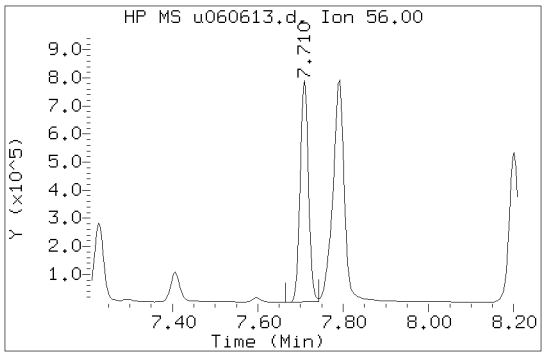
AFTER
MASS
43
AREA
2542322
HEIGHT
1823538
21-Jun-2023
13:48
linh
pha



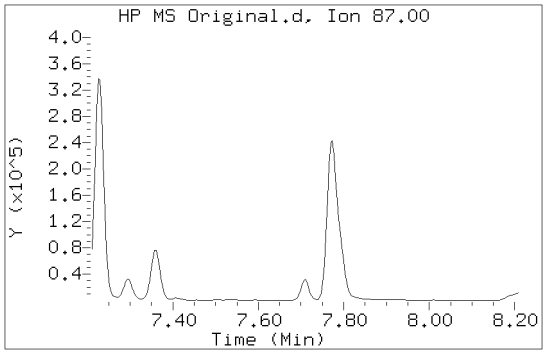
BEFORE
MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



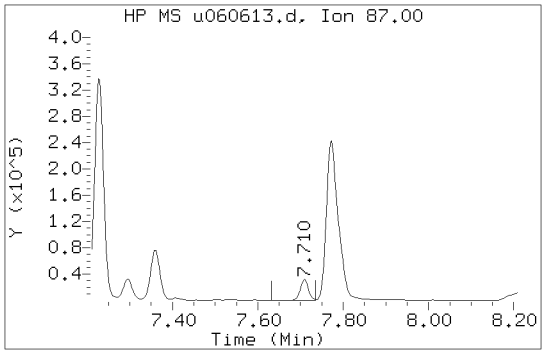
AFTER
MASS
56
AREA
1092382
HEIGHT
789863
21-Jun-2023
13:48
linh
pha



BEFORE
MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



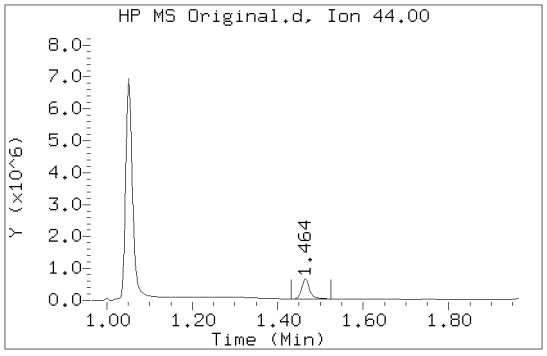
AFTER
MASS
87
AREA
41411
HEIGHT
31427
21-Jun-2023
13:48
linh
pha



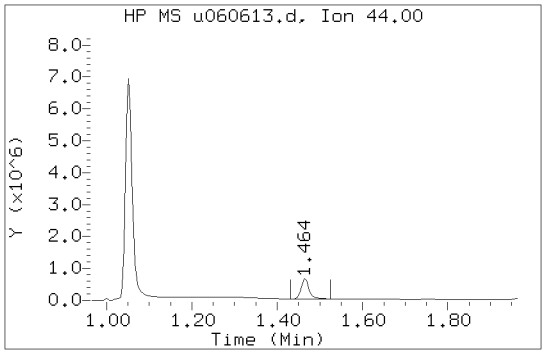
Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
813402
HEIGHT
630783
08-Jun-2023
14:56
linh
pham



AFTER
MASS
44
AREA
813402
HEIGHT
630783
21-Jun-2023
13:48
linh
pha



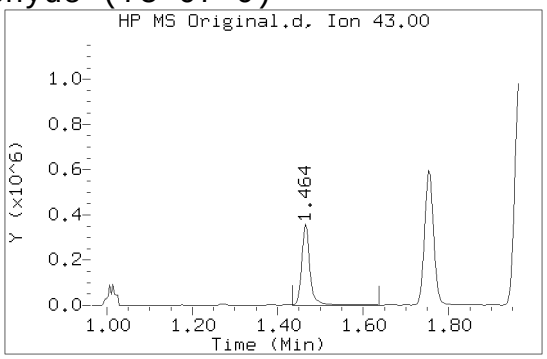
Data File : \\nahstws005\target\chem\voa9.i\u230606.b\u060613.d
Inj Date : 06-JUN-2023 15:41
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

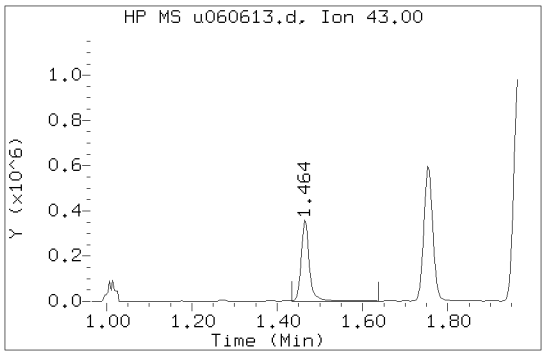
BEFORE

MASS
43
AREA
501173
HEIGHT
359936
08-Jun-2023
14:56
linh
pham



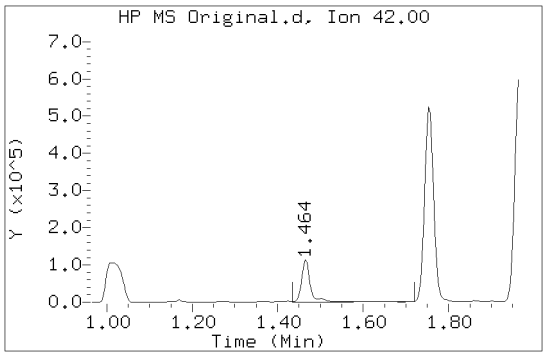
AFTER

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HEIGHT
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21-Jun-2023
13:48
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pha



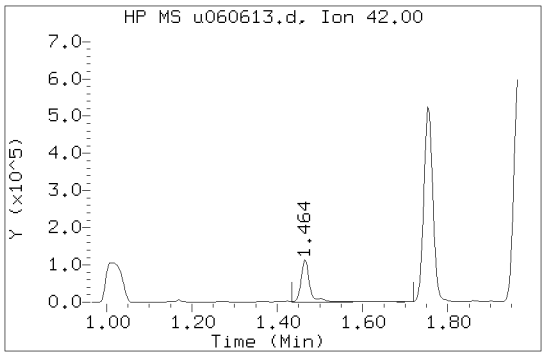
BEFORE

MASS
42
AREA
161560
HEIGHT
113645
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
161560
HEIGHT
113645
21-Jun-2023
13:48
linh
pha



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060616.D Page 1
Report Date: 21-Jun-2023 13:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060616.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 06-JUN-2023 16:48
Operator : PC Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;ICV
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
Meth Date : 21-Jun-2023 13:45 pcabasca Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 17 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

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	4.819	(1.000)	780826	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.168	(0.241)	313326	43.4411	43.44
3 Chloromethane	50	1.295	1.303	(0.269)	478723	40.3986	40.39
5 Vinyl Chloride	62	1.374	1.382	(0.285)	368340	44.5978	44.59
6 Bromomethane	94	1.618	1.614	(0.336)	232986	55.0399	55.03
7 Chloroethane	64	1.696	1.700	(0.352)	239922	43.1235	43.12
8 Trichlorofluoromethane	101	1.895	1.903	(0.394)	416947	43.9550	43.95
9 Acrolein	56	2.263	2.270	(0.470)	36231	87.4197	87.41
10 Acetone	43	2.409	2.416	(0.500)	256579	95.4315	95.43
11 1,1-Dichloroethene	96	2.334	2.341	(0.485)	257583	43.4598	43.45
15 Iodomethane	142	2.469	2.472	(0.513)	390544	85.8965	85.89
16 Acrylonitrile	53	3.065	3.072	(0.636)	264231	91.2502	91.25
17 Methylene Chloride	84	2.795	2.799	(0.580)	325441	45.6146	45.61
18 Methyl tert-butyl ether	73	3.080	3.087	(0.640)	820662	45.1527	45.15
19 Carbon Disulfide	76	2.521	2.525	(0.524)	1475776	93.1400	93.13
20 trans-1,2-Dichloroethene	96	3.057	3.065	(0.635)	292795	45.4251	45.42
21 Vinyl Acetate	43	3.605	3.616	(0.749)	1831639	93.2206	93.22
22 1,1-Dichloroethane	63	3.515	3.522	(0.730)	503967	41.1420	41.14
24 2-Butanone	43	4.264	4.272	(0.886)	310116	87.1102	87.11
26 2,2-Dichloropropane	77	4.182	4.189	(0.868)	371756	45.9347	45.93
27 cis-1,2-Dichloroethene	96	4.197	4.204	(0.872)	341415	44.2752	44.27

28	Chloroform	83	4.572	4.579 (0.949)	560655	43.9760	43.97
29	Bromochloromethane	128	4.470	4.474 (0.928)	193817	44.9336	44.93

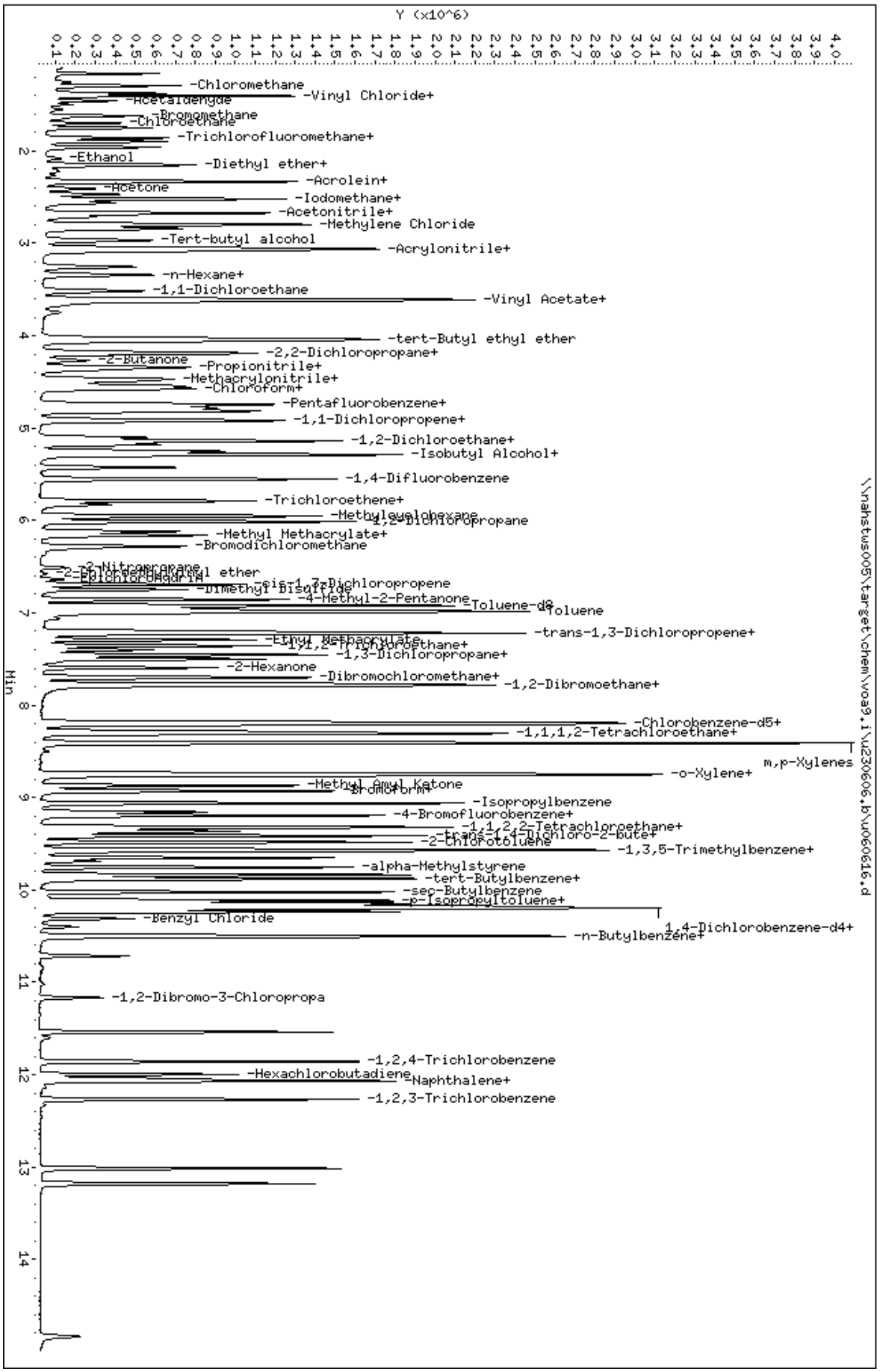
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
$	30 Dibromofluoromethane	113	4.748	4.755	(0.986)	318316	48.5594	48.55
	31 1,1,1-Trichloroethane	97	4.740	4.748	(0.984)	428686	44.1171	44.11
	32 1,1-Dichloropropene	75	4.920	4.924	(0.886)	386704	45.6635	45.66
	33 1,2-Dichloroethane	62	5.175	5.183	(0.932)	441937	44.1878	44.18
	34 Carbon Tetrachloride	117	4.909	4.917	(0.884)	345264	44.3847	44.38
$	35 1,2-Dichloroethane-d4	65	5.100	5.104	(1.059)	338506	47.7012	47.70
*	36 1,4-Difluorobenzene	114	5.554	5.558	(1.000)	1155525	50.0000	
	37 Benzene	78	5.138	5.141	(0.925)	1289605	46.3151	46.31
	38 Trichloroethene	130	5.790	5.790	(1.043)	360272	44.6411	44.64
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	414478	47.7201	47.72
	41 2-Chloroethylvinyl ether	63	6.577	6.581	(1.184)	17278	82.2441	82.24(M)
	42 1,2-Dichloropropane	63	6.011	6.015	(1.082)	336299	45.2354	45.23
	44 Dibromomethane	93	6.120	6.124	(1.102)	214846	45.2290	45.22
	45 4-Methyl-2-Pentanone	43	6.855	6.858	(0.837)	752796	97.7283	97.72
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	520852	44.9600	44.95
*	47 Chlorobenzene-d5	117	8.185	8.189	(1.000)	1057791	50.0000	
$	48 Toluene-d8	98	6.922	6.926	(0.846)	1235345	51.5999	51.59
	50 Toluene	91	6.982	6.982	(0.853)	1380191	48.1072	48.10
	51 trans-1,3-Dichloropropene	75	7.200	7.199	(1.296)	429650	44.2325	44.23
	52 2-Hexanone	43	7.593	7.597	(0.928)	496806	92.6111	92.61
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	272556	45.6579	45.65
	54 1,3-Dichloropropane	76	7.499	7.503	(0.916)	578247	47.4115	47.41
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	366836	51.7915	51.79
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	318249	45.5291	45.52
	57 1,2-Dibromoethane	107	7.784	7.788	(0.951)	335864	45.6094	45.60
	58 1-Chlorohexane	55	8.197	8.200	(1.476)	242405	40.8537	40.85
	59 Chlorobenzene	112	8.208	8.212	(1.003)	941715	45.9914	45.99
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.287	(1.012)	345385	49.0774	49.07
	61 Ethylbenzene	106	8.305	8.309	(1.015)	460758	48.3475	48.34
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	1140862	101.183	101.18
	63 o-Xylene	106	8.748	8.748	(1.069)	558477	50.1380	50.13
	64 Styrene	104	8.763	8.763	(1.071)	935490	52.9214	52.92
	66 Bromoform	173	8.920	8.920	(1.090)	243942	51.0235	51.02
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1308769	48.9183	48.91
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.332	(0.917)	454457	44.1598	44.15
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	483743	51.3065	51.30
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	547105	50.0000	
	71 1,2,3-Trichloropropane	75	9.363	9.366	(0.920)	415776	45.9243	45.92
	73 n-Propylbenzene	91	9.411	9.415	(0.925)	1420825	49.5106	49.51
	74 Bromobenzene	156	9.318	9.321	(0.916)	421969	45.7115	45.71
	75 1,3,5-Trimethylbenzene	105	9.561	9.565	(0.940)	949218	48.2136	48.21
	76 2-Chlorotoluene	91	9.482	9.486	(0.932)	943175	46.7536	46.75
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	1080779	48.4010	48.40
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	902133	46.6540	46.65
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	984625	47.7979	47.79
	81 sec-Butylbenzene	105	10.022	10.026	(0.985)	1146037	46.7345	46.73
	82 p-Isopropyltoluene	119	10.146	10.150	(0.997)	996804	48.5205	48.52
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	724727	46.2241	46.22
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	744273	44.5230	44.52
	87 n-Butylbenzene	91	10.491	10.495	(1.031)	805977	45.8271	45.82
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	711620	45.2687	45.26
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.169	(1.098)	71438	47.5707	47.57

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	514361	47.5706	47.57
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	185622	42.5095	42.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	92 Naphthalene	128	12.065	12.069	(1.186)	1281110	51.0072	51.00
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	500164	47.3173	47.31
M	94 1,2-Dichloroethylene (total)	96				634210	89.7003	89.70
M	95 Xylenes (total)	106				1699339	151.321	151.32
	135 1,4-Dioxane	88	6.169	6.172	(1.281)	94832	611.650	611.64(R)
	141 Cyclohexane	56	4.782	4.785	(0.993)	401902	42.0727	42.07
	138 Freon TF	101	2.334	2.341	(0.485)	222912	42.5073	42.50
	140 1,3-Butadiene	54	1.404	1.412	(0.292)	342878	46.3679	46.36
	147 Methylcyclohexane	55	5.947	5.951	(1.071)	742238	46.3048	46.30
	146 Methyl Acetate	43	2.712	2.720	(0.563)	267638	40.7078	40.70
	148 Tert-Butyl alcohol	59	2.967	2.978	(0.616)	653389	905.196	905.19
	149 Isopropyl Alcohol	45	2.562	2.577	(0.532)	432312	846.925	846.92
	72 trans-1,4-Dichloro-2-butene	53	9.378	9.381	(1.146)	66066	54.2434	54.24
	12 Isobutyl Alcohol	43	5.288	5.291	(1.098)	1078739	1063.31	1063.31
	13 Acetonitrile	39	2.671	2.679	(0.555)	369725	437.354	437.35
	14 Allyl Chloride	41	2.671	2.679	(0.555)	881221	43.4696	43.46
	25 Methacrylonitrile	41	4.497	4.500	(0.934)	220001	47.6887	47.68
	40 Methyl Methacrylate	41	6.157	6.161	(1.279)	319473	47.5853	47.58
	4 Propionitrile	54	4.339	4.350	(0.901)	504761	447.359	447.35
	136 n-Hexane	57	3.342	3.350	(0.694)	279959	43.1157	43.11
	194 Acetaldehyde	44	1.457	1.464	(0.303)	213458	198.213	198.21(M)
	131 Methyl Acrylate	55	4.369	4.377	(0.907)	376406	45.5808	45.58(M)
	200 Dimethyl Disulfide	94	6.746	6.750	(0.824)	342782	43.9278	43.92
	23 Chloroprene	53	2.158	2.165	(0.448)	106743	42.8616	42.86(M)
	49 Ethyl Methacrylate	69	7.293	7.297	(1.313)	493833	48.7533	48.75
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	946548	45.0091	45.00
	167 Ethanol	45	2.083	2.098	(0.433)	87414	894.820	894.81
	164 Dicyclopentadiene	66	10.198	10.202	(1.003)	1170894	43.8737	43.87
	145 alpha-Methylstyrene	118	9.752	9.756	(0.959)	456404	44.8638	44.86
	142 Tetrahydrofuran	42	4.545	4.549	(0.944)	124728	90.2172	90.21
	156 Diisopropyl ether	45	3.623	3.631	(0.752)	968924	44.5026	44.50
	151 4-Methyl-2-pentanol	45	7.222	7.226	(1.300)	1465561	852.923	852.92
	150 Allyl alcohol	57	3.342	3.350	(0.694)	279959	862.620	862.62
	86 Benzyl Chloride	91	10.311	10.311	(1.260)	308230	48.8252	48.82
	162 Butyl acrylate	55	8.733	8.733	(1.067)	606576	48.4779	48.47
	139 Diethyl ether	59	2.143	2.154	(0.445)	236202	44.7701	44.77
	203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	256043	48.8830	48.88
	134 Cyclohexanone	55	9.153	9.156	(0.900)	315426	929.955	929.95
	130 Ethyl Acetate	43	4.343	4.272	(0.902)	367738	52.6863	52.68
	189 n-Butyl acetate	43	7.706	7.709	(0.941)	585580	48.6187	48.61(M)
	182 Epichlorohydrin	57	6.633	6.633	(1.194)	19670	179.479	179.47
	132 n-Butanol	56	5.831	5.835	(1.211)	194822	876.568	876.56

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\nahstus005\target\chem\voa9.i\u230606.b\u060616.d
Date : 06-JUN-2023 16:48
Client ID: ICV
Sample Info: CCV;CCV;2;;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

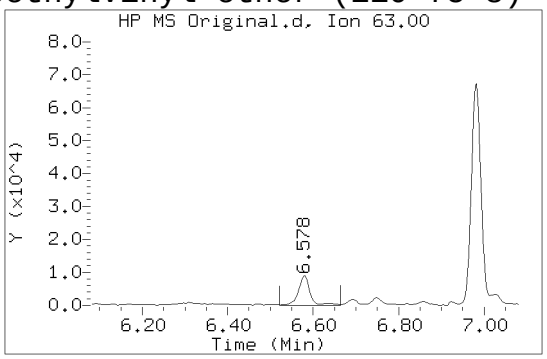
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InstruID : VOA9.i
LabSampID : ICV

2-Chloroethylvinyl ether (110-75-8)

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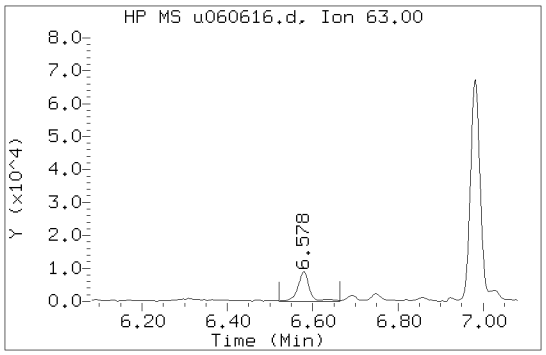
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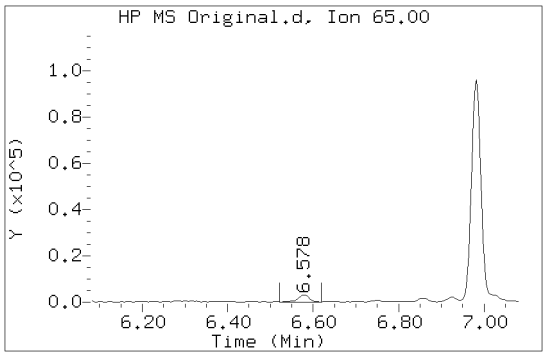
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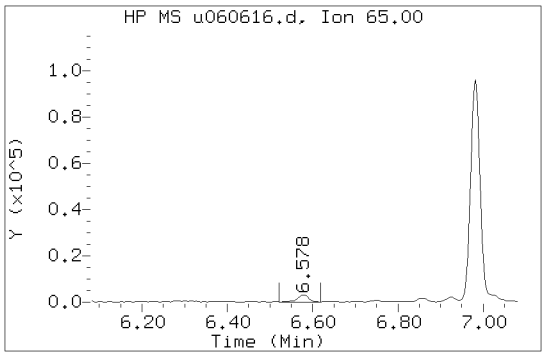
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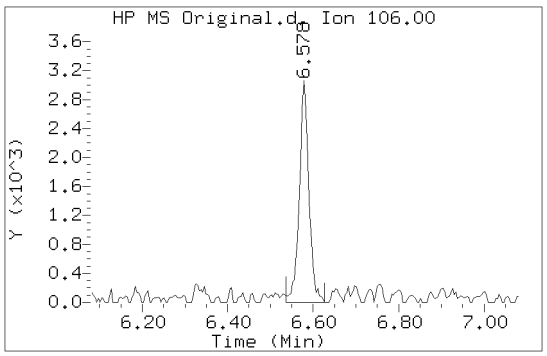
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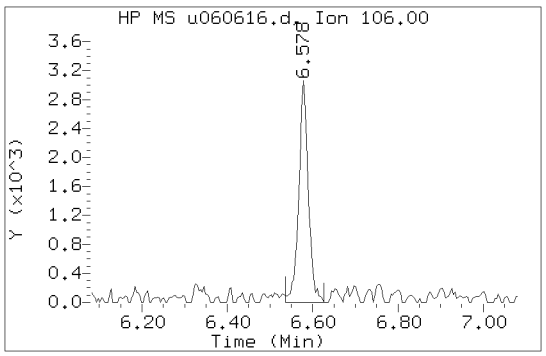
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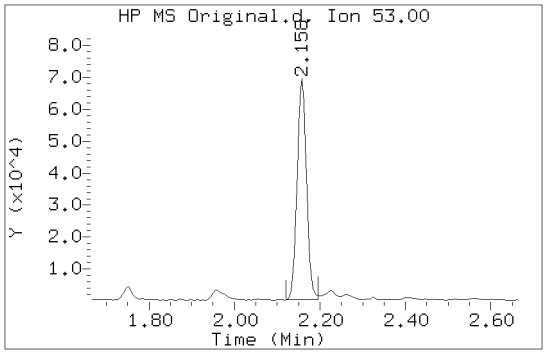


Chloroprene (126-99-8)

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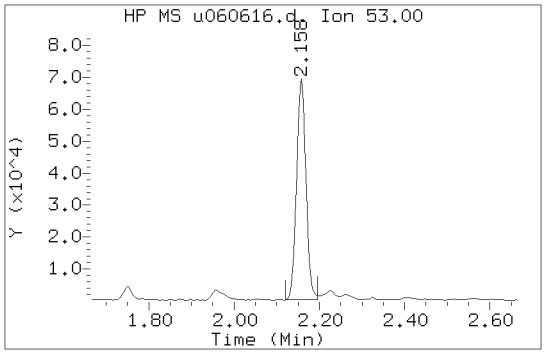
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AFTER

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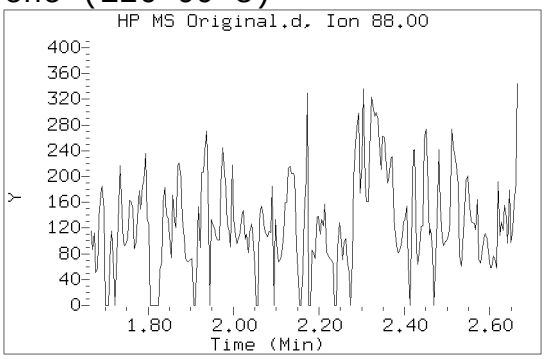
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InstruID : VOA9.i
LabSampID : ICV

Chloroprene (126-99-8)

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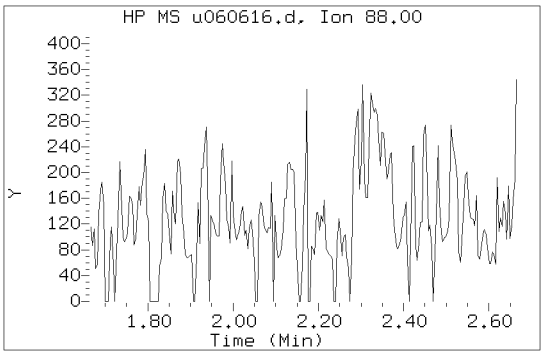
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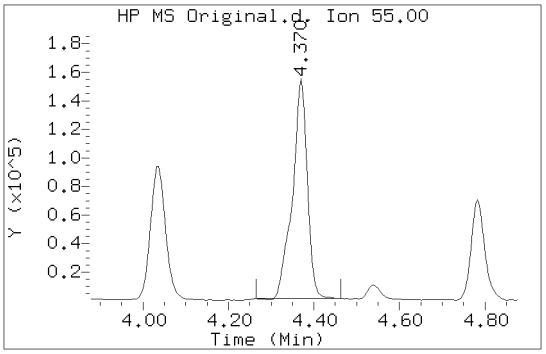


Methyl Acrylate (96-33-3)

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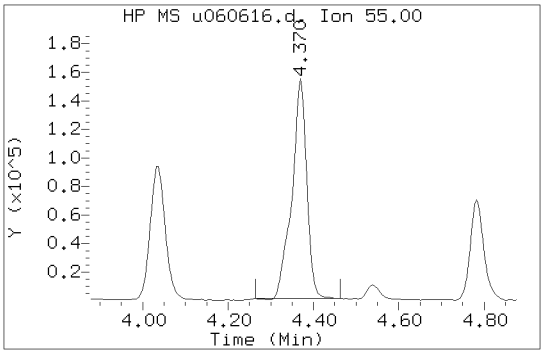
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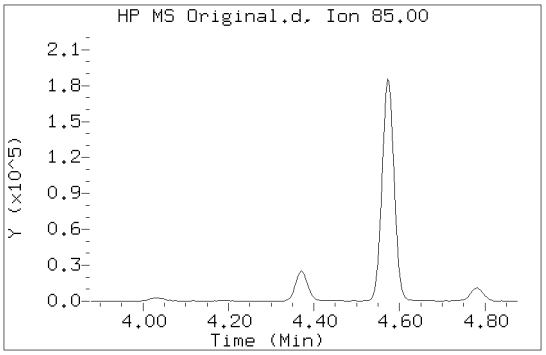
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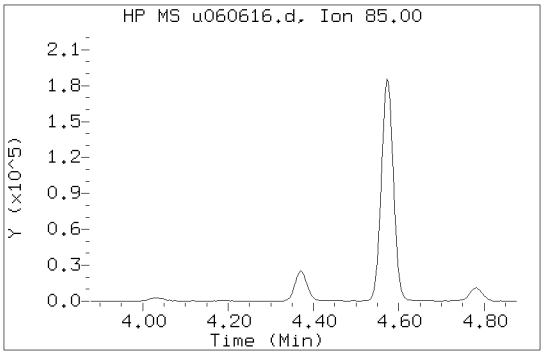
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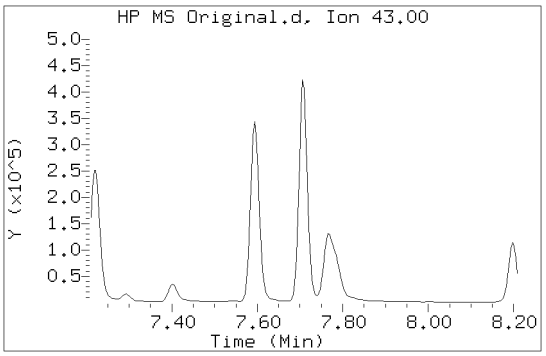


n-Butyl acetate (123-86-4)

Reason Code:

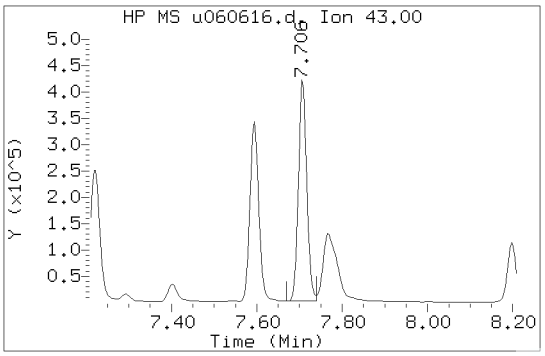
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AFTER

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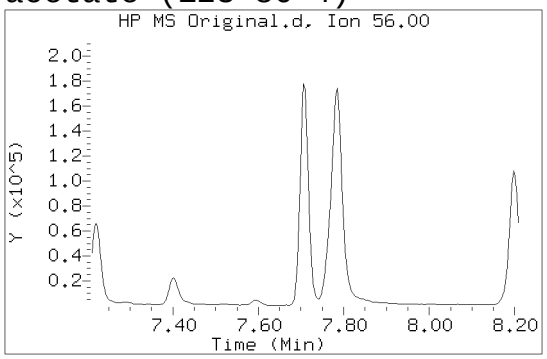


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InstruID : VOA9.i
LabSampID : ICV

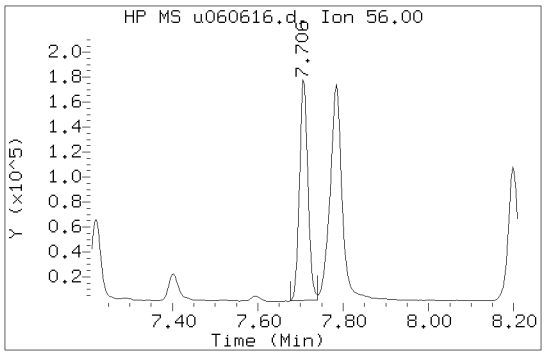
n-Butyl acetate (123-86-4)

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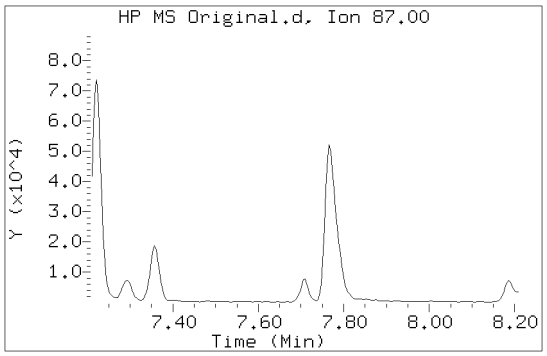
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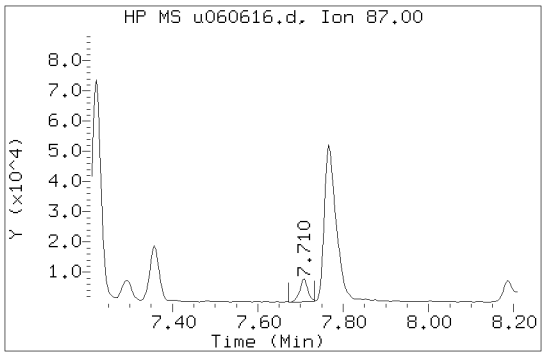
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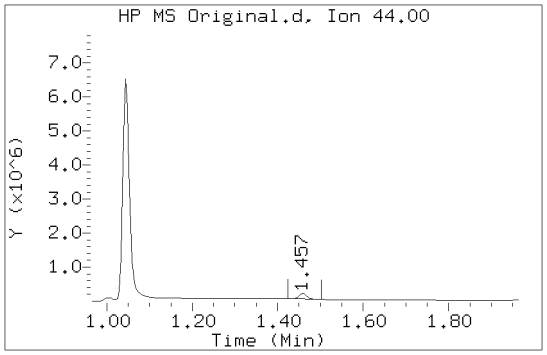
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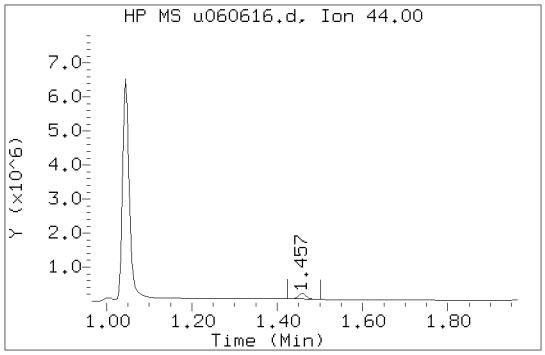
Acetaldehyde (75-07-0)

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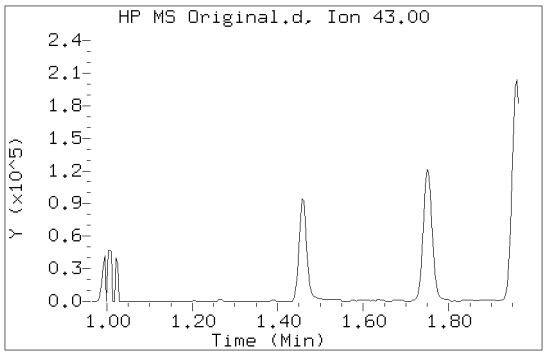
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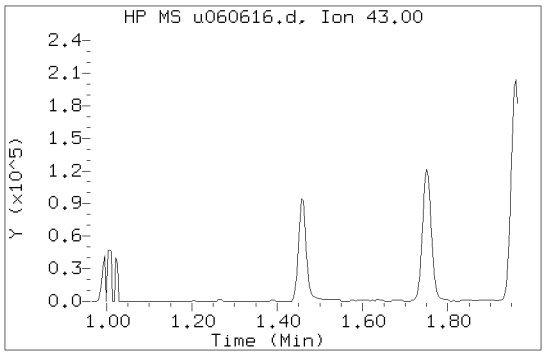
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BEFORE
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AFTER
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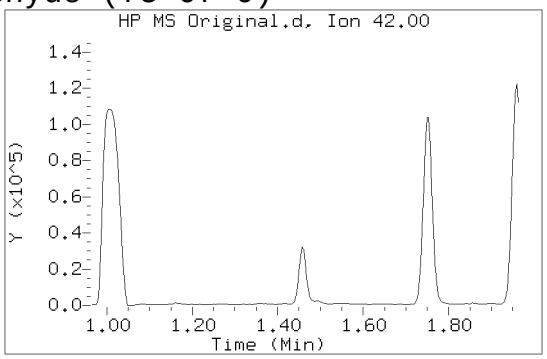
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Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

Acetaldehyde (75-07-0)

Reason Code:

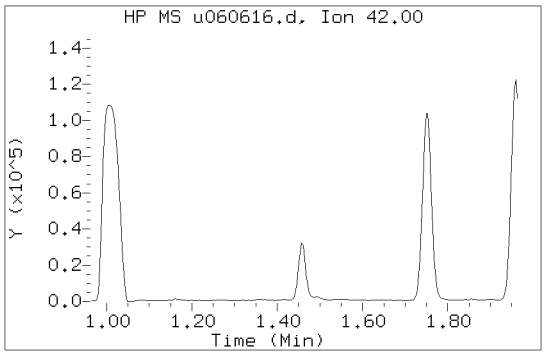
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08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2023
13:48
linh
pha



01199670

right solutions.
right partner.

Raw Data VOA9 439801

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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\U230624.b\U062401.D Page 1
Report Date: 24-Jun-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-JUN-2023 11:32
Operator : PC Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230624.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: NAHSTW7051

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)	CONCENTRATIONS 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	100712			0.00- 100.00	100.00
9.193	9.180	(0.000)	50	20936			15.00- 40.00	20.79
9.193	9.180	(0.000)	75	51488			30.00- 60.00	51.12
9.193	9.180	(0.000)	96	6932			5.00- 9.00	6.88
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	95848			50.00- 0.00	95.17
9.193	9.180	(0.000)	175	7928			5.00- 9.00	8.27
9.193	9.180	(0.000)	176	92184			95.00- 101.00	96.18
9.193	9.180	(0.000)	177	6539			5.00- 9.00	7.09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.79
75	30.00 - 60.00% of mass 95	51.12
96	5.00 - 9.00% of mass 95	6.88
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	95.17
175	5.00 - 9.00% of mass 174	7.87 (8.27)
176	95.00 - 101.00% of mass 174	91.53 (96.18)
177	5.00 - 9.00% of mass 176	6.49 (7.09)

Data File: U062401.D
Spectrum: Scan 2294 (9.19)
Location of Maximum: 95.00
Number of points: 182

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2695	81.90	827	124.80	154	180.20	187
37.00	5830	83.00	587	125.70	250	181.00	92
38.00	5941	84.20	213	126.80	800	184.30	68
39.00	4314	85.10	192	127.90	641	185.90	716
40.00	1190	86.10	223	128.80	326	186.80	121
41.00	2487	87.00	4306	129.80	441	187.50	66
42.00	3440	87.90	4429	130.90	259	189.40	63
43.00	2990	88.60	356	131.90	122	192.80	89
44.00	1981	89.20	95	134.90	297	193.80	59
45.00	2420	90.90	632	136.70	285	194.40	113
46.10	231	92.00	3142	138.00	73	195.80	115
47.00	1789	92.90	5025	138.80	169	197.80	53
47.90	696	94.00	13330	139.60	157	200.30	109
49.00	4657	95.00	100712	140.90	1341	201.30	76
50.00	20936	96.00	6932	141.90	783	203.00	68
51.00	6899	97.10	323	142.90	1242	206.90	77
52.00	554	98.00	1779	143.80	146	210.80	63
53.00	467	98.90	213	144.90	249	214.30	57
54.00	602	100.10	52	145.90	210	218.70	69
55.00	3931	101.30	162	146.80	158	228.70	86
56.00	2599	101.80	93	147.90	311	231.50	63
57.00	3510	102.90	237	148.90	201	235.90	129
58.00	1083	103.80	461	149.90	168	238.90	109
59.00	2732	104.80	381	151.80	91	239.40	62
59.90	1308	105.90	536	152.70	205	240.90	107
61.00	5274	106.70	357	153.70	149	255.00	59
62.00	5229	107.10	311	154.90	420	262.40	62
63.00	4443	107.70	151	155.90	161	269.80	69
64.00	690	108.80	518	156.80	271	271.00	69
65.10	542	109.70	197	157.70	54	274.40	58
66.20	180	110.50	110	158.80	296	283.60	74
67.00	796	111.80	166	160.90	137	287.00	79
68.00	11172	112.60	150	163.60	134	288.10	59
69.00	12553	113.40	93	164.80	67	296.20	55
70.00	2017	114.50	69	165.70	117	298.00	56
70.80	357	115.00	182	168.00	94	298.80	53
72.10	706	115.80	371	168.40	78	300.50	83
73.00	4995	116.90	914	169.00	122	302.00	77
74.00	18056	118.00	474	170.00	105	327.10	74
75.00	51488	118.80	575	170.80	476	327.80	64
76.00	4968	120.30	123	172.00	831	331.60	54
77.00	802	120.80	63	173.90	95848	333.00	52
77.70	525	121.60	118	175.00	7928	342.30	56
78.90	3579	122.40	54	175.90	92184	349.30	52
79.90	1139	123.40	104	176.90	6539		

80.90	3687	124.00	135	177.80	216		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062401.D

Date : 24-JUN-2023 11:32

Client ID: BFB

Instrument: VOA9.i

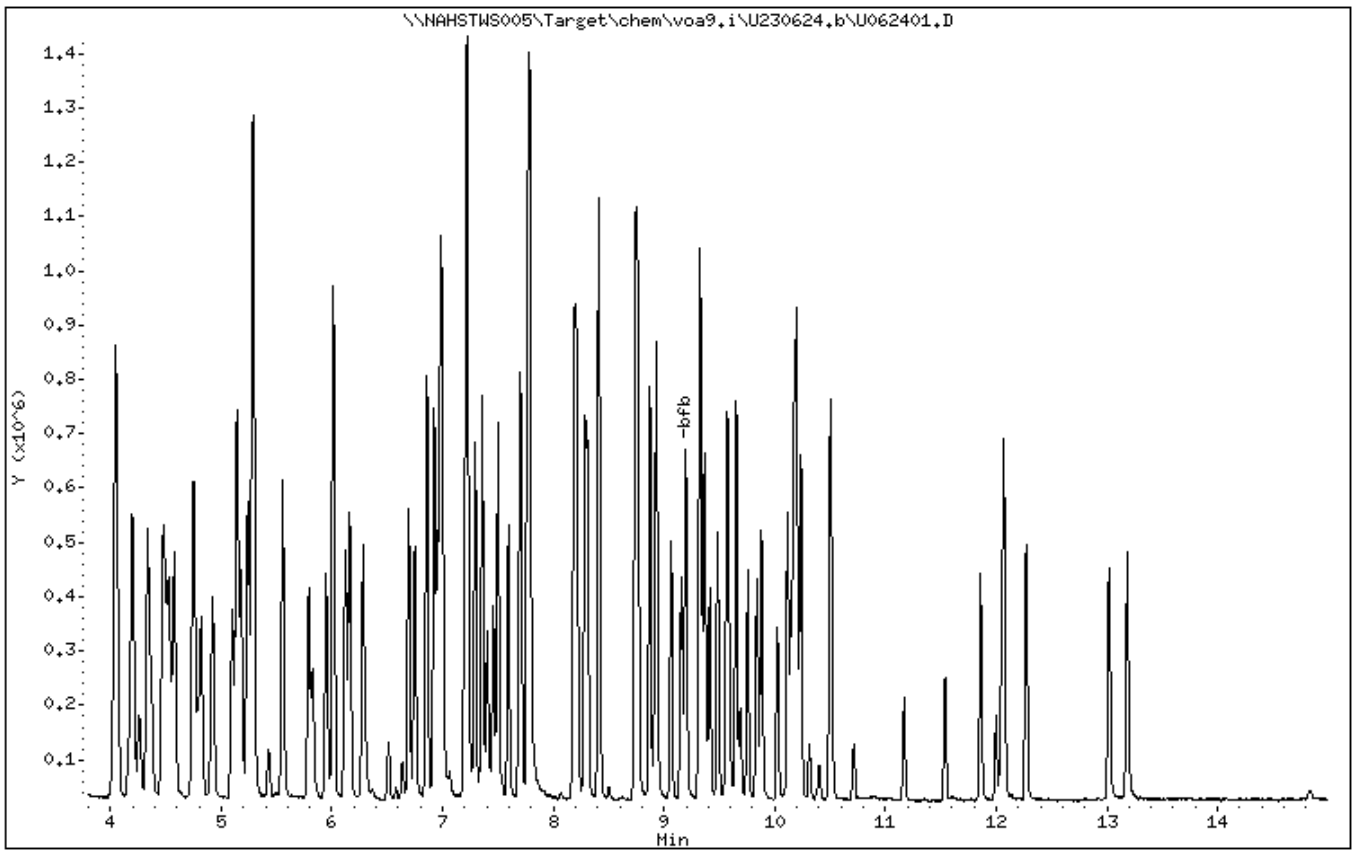
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062401.D

Date : 24-JUN-2023 11:32

Client ID: BFB

Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

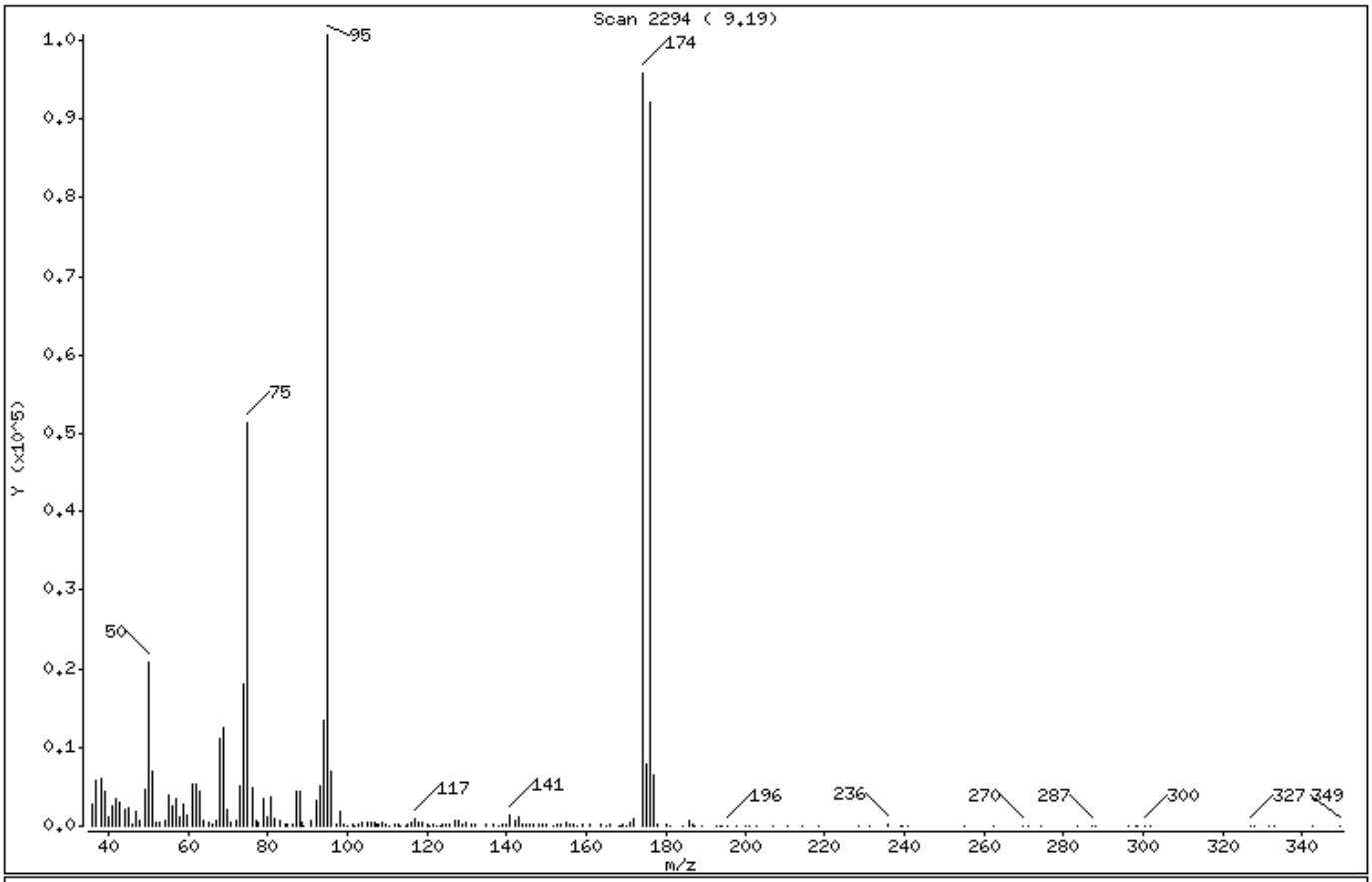
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.79
75	30.00 - 60.00% of mass 95	51.12
96	5.00 - 9.00% of mass 95	6.88
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	95.17
175	5.00 - 9.00% of mass 174	7.87 (8.27)
176	95.00 - 101.00% of mass 174	91.53 (96.18)
177	5.00 - 9.00% of mass 176	6.49 (7.09)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062401.D Page 3

Date : 24-JUN-2023 11:32

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U062401.D
Spectrum: Scan 2294 (9.19)
Location of Maximum: 95.00
Number of points: 182

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2695	81.90	827	124.80	154	180.20	187
37.00	5830	83.00	587	125.70	250	181.00	92
38.00	5941	84.20	213	126.80	800	184.30	68
39.00	4314	85.10	192	127.90	641	185.90	716
40.00	1190	86.10	223	128.80	326	186.80	121
41.00	2487	87.00	4306	129.80	441	187.50	66
42.00	3440	87.90	4429	130.90	259	189.40	63
43.00	2990	88.60	356	131.90	122	192.80	89
44.00	1981	89.20	95	134.90	297	193.80	59
45.00	2420	90.90	632	136.70	285	194.40	113
46.10	231	92.00	3142	138.00	73	195.80	115
47.00	1789	92.90	5025	138.80	169	197.80	53
47.90	696	94.00	13330	139.60	157	200.30	109
49.00	4657	95.00	100712	140.90	1341	201.30	76
50.00	20936	96.00	6932	141.90	783	203.00	68
51.00	6899	97.10	323	142.90	1242	206.90	77
52.00	554	98.00	1779	143.80	146	210.80	63
53.00	467	98.90	213	144.90	249	214.30	57
54.00	602	100.10	52	145.90	210	218.70	69
55.00	3931	101.30	162	146.80	158	228.70	86
56.00	2599	101.80	93	147.90	311	231.50	63
57.00	3510	102.90	237	148.90	201	235.90	129
58.00	1083	103.80	461	149.90	168	238.90	109
59.00	2732	104.80	381	151.80	91	239.40	62
59.90	1308	105.90	536	152.70	205	240.90	107
61.00	5274	106.70	357	153.70	149	255.00	59
62.00	5229	107.10	311	154.90	420	262.40	62
63.00	4443	107.70	151	155.90	161	269.80	69
64.00	690	108.80	518	156.80	271	271.00	69
65.10	542	109.70	197	157.70	54	274.40	58
66.20	180	110.50	110	158.80	296	283.60	74
67.00	796	111.80	166	160.90	137	287.00	79
68.00	11172	112.60	150	163.60	134	288.10	59
69.00	12553	113.40	93	164.80	67	296.20	55
70.00	2017	114.50	69	165.70	117	298.00	56

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062401.D

Date : 24-JUN-2023 11:32

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U062401.D
Spectrum: Scan 2294 (9.19)
Location of Maximum: 95.00
Number of points: 182

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.80	357	115.00	182	168.00	94	298.80	53
72.10	706	115.80	371	168.40	78	300.50	83
73.00	4995	116.90	914	169.00	122	302.00	77
74.00	18056	118.00	474	170.00	105	327.10	74
75.00	51488	118.80	575	170.80	476	327.80	64
76.00	4968	120.30	123	172.00	831	331.60	54
77.00	802	120.80	63	173.90	95848	333.00	52
77.70	525	121.60	118	175.00	7928	342.30	56
78.90	3579	122.40	54	175.90	92184	349.30	52
79.90	1139	123.40	104	176.90	6539		
80.90	3687	124.00	135	177.80	216		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062403.D Page 1
Report Date: 03-Jul-2023 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062403.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 24-JUN-2023 12:17
Operator : PC Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\8260C.m
Meth Date : 03-Jul-2023 12:30 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	557949	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	219132	50.0000	42.51
3	Chloromethane	50	1.303	1.303	(0.270)	348378	50.0000	41.16
5	Vinyl Chloride	62	1.381	1.381	(0.287)	270632	50.0000	45.85
6	Bromomethane	94	1.625	1.625	(0.337)	180264	50.0000	59.74
7	Chloroethane	64	1.704	1.704	(0.354)	197296	50.0000	49.62
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	364705	50.0000	53.80
9	Acrolein	56	2.270	2.270	(0.471)	30374	100.000	102.56
10	Acetone	43	2.412	2.412	(0.501)	210987	100.000	110.68
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	213048	50.0000	50.30
15	Iodomethane	142	2.472	2.472	(0.513)	382479	100.000	112.42
16	Acrylonitrile	53	3.068	3.068	(0.637)	221972	100.000	107.27
17	Methylene Chloride	84	2.798	2.798	(0.581)	268626	50.0000	52.85
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	709732	50.0000	54.64
19	Carbon Disulfide	76	2.525	2.525	(0.524)	1189214	100.000	105.03
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	241016	50.0000	52.32
21	Vinyl Acetate	43	3.612	3.612	(0.750)	1557291	100.000	110.91
22	1,1-Dichloroethane	63	3.518	3.518	(0.730)	440295	50.0000	50.30
24	2-Butanone	43	4.268	4.268	(0.886)	258005	100.000	101.42
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	346917	50.0000	59.86

27 cis-1,2-Dichloroethene	96	4.200	4.200 (0.872)	278638	50.0000	50.56
28 Chloroform	83	4.575	4.575 (0.949)	470668	50.0000	51.66

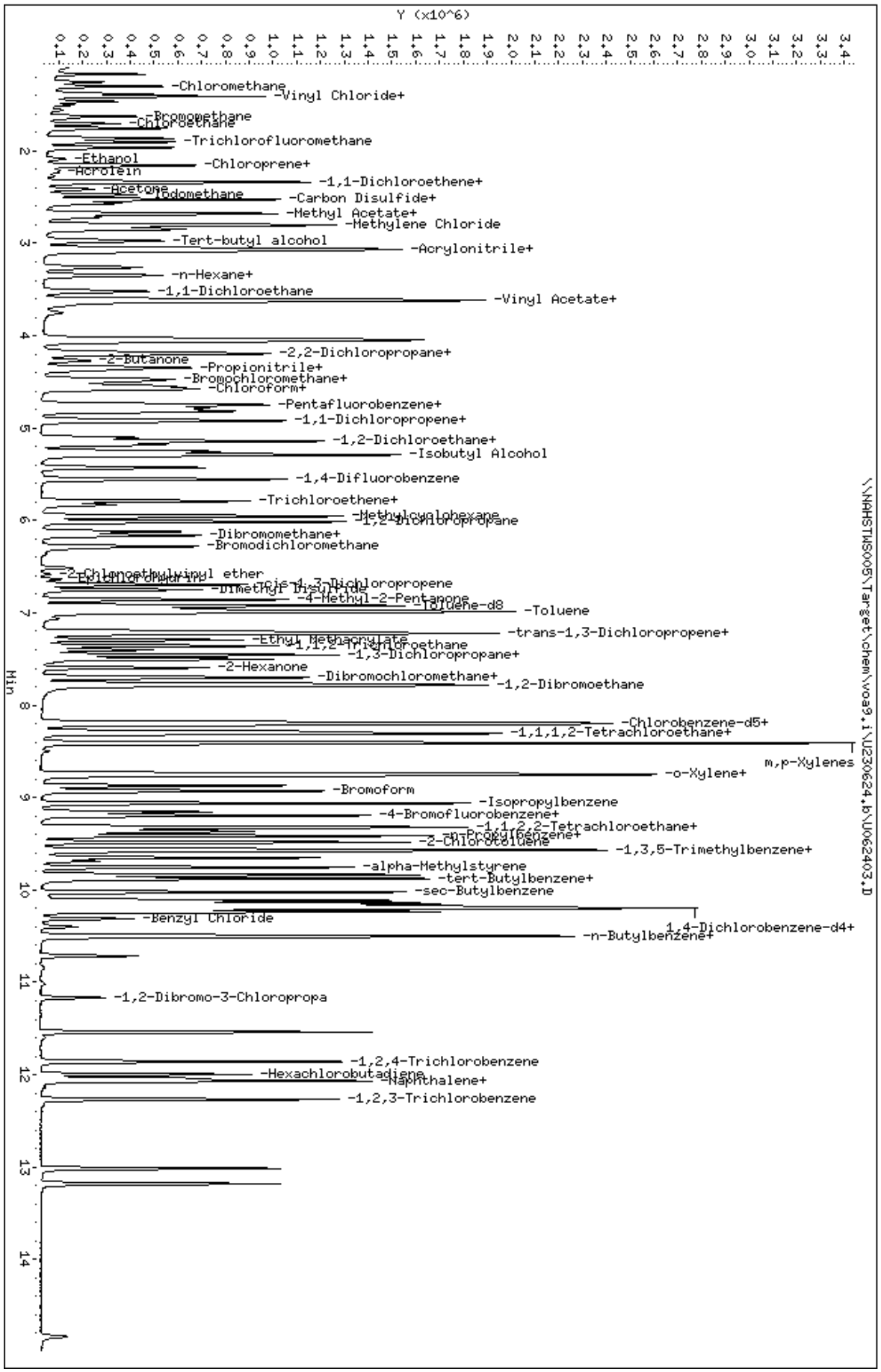
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	156329	50.0000	50.71
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	245432	50.0000	52.42
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	373347	50.0000	53.77
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	307564	50.0000	52.70
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	391132	50.0000	56.75
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	298140	50.0000	55.62
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	271594	50.0000	53.64
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	796215	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	984820	50.0000	51.33
	38 Trichloroethene	130	5.790	5.790	(1.043)	282582	50.0000	50.81
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	359063	50.0000	59.99
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	16905	100.000	116.78
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	269629	50.0000	52.63
	44 Dibromomethane	93	6.120	6.120	(1.102)	181513	50.0000	55.45
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	605535	100.000	106.05
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	426565	50.0000	53.07
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	784062	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	894895	50.0000	50.42
	50 Toluene	91	6.982	6.982	(0.853)	1102184	50.0000	51.82
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	370054	50.0000	54.78
	52 2-Hexanone	43	7.593	7.593	(0.928)	405990	100.000	102.10
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	222015	50.0000	50.17
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	478109	50.0000	52.88
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	313753	50.0000	59.76
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	269044	50.0000	51.92
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	294375	50.0000	53.93
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	206345	50.0000	50.46
	59 Chlorobenzene	112	8.211	8.211	(1.003)	777224	50.0000	51.20
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	286524	50.0000	54.92
	61 Ethylbenzene	106	8.305	8.305	(1.015)	368725	50.0000	52.19
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	920214	100.000	110.10
	63 o-Xylene	106	8.748	8.748	(1.069)	454831	50.0000	55.08
	64 Styrene	104	8.763	8.763	(1.071)	768866	50.0000	58.68
	66 Bromoform	173	8.920	8.920	(1.090)	212448	50.0000	59.94(M)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1064101	50.0000	53.65
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	383414	50.0000	48.41
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	385423	50.0000	55.21
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	421010	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	363298	50.0000	52.14
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1170230	50.0000	52.99
	74 Bromobenzene	156	9.317	9.317	(0.916)	353472	50.0000	49.75
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	808939	50.0000	53.39
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	782205	50.0000	50.38
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	886817	50.0000	51.60
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	738448	50.0000	49.62
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	838113	50.0000	52.87
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	961775	50.0000	50.96
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	833839	50.0000	52.74
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	588568	50.0000	48.78
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	616013	50.0000	47.88
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	697262	50.0000	51.51
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	586462	50.0000	48.48

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	58292	50.0000	50.44
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	391753	50.0000	47.08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	161734	50.0000	48.13
	92 Naphthalene	128	12.065	12.065	(1.186)	993698	50.0000	51.41
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	383244	50.0000	47.11
M	94 1,2-Dichloroethylene (total)	96				519654	100.000	(a)
	135 1,4-Dioxane	88	6.172	6.172	(1.281)	76206	1000.00	687.85
	141 Cyclohexane	56	4.785	4.785	(0.993)	309930	50.0000	45.31
	138 Freon TF	101	2.341	2.341	(0.486)	198263	50.0000	52.90
	140 1,3-Butadiene	54	1.408	1.408	(0.292)	242866	50.0000	45.96
	147 Methylcyclohexane	55	5.951	5.951	(1.072)	620779	50.0000	56.20
	146 Methyl Acetate	43	2.716	2.716	(0.564)	248385	50.0000	52.87
	148 Tert-Butyl alcohol	59	2.971	2.971	(0.617)	591551	1000.00	1148.21
	149 Isopropyl Alcohol	45	2.566	2.566	(0.533)	389481	1000.00	1067.80
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	60271	50.0000	66.76
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	920475	1000.00	1269.74
	13 Acetonitrile	39	2.675	2.675	(0.555)	334058	500.000	553.01
	14 Allyl Chloride	41	2.678	2.678	(0.556)	750617	50.0000	51.81
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	165955	50.0000	50.34
	40 Methyl Methacrylate	41	6.161	6.161	(1.278)	252350	50.0000	52.60
	4 Propionitrile	54	4.343	4.343	(0.901)	408202	500.000	506.29
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	872161	50.0000	53.89

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230624.b\U062403.D
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Client ID: CCV
Sample Info: CCV,CCV,2,,,
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

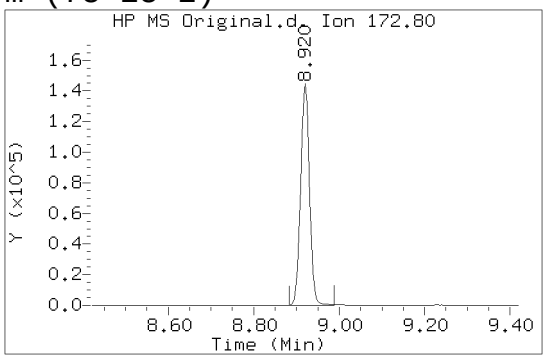
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InstruID : VOA9.i
LabSampID : CCV

Bromoform (75-25-2)

Reason Code:

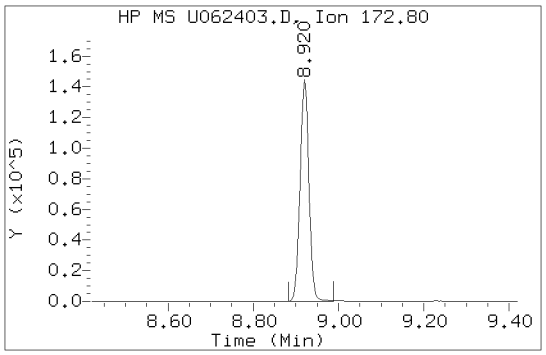
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HEIGHT
144599
03-Jul-2023
12:29
linh
pham



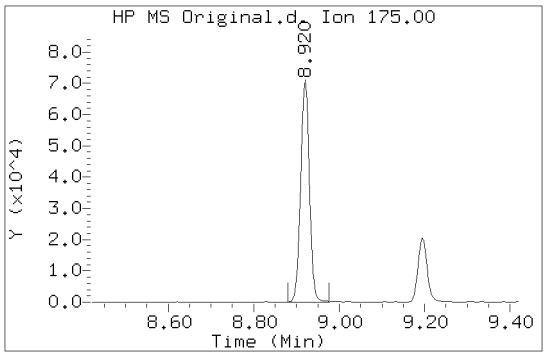
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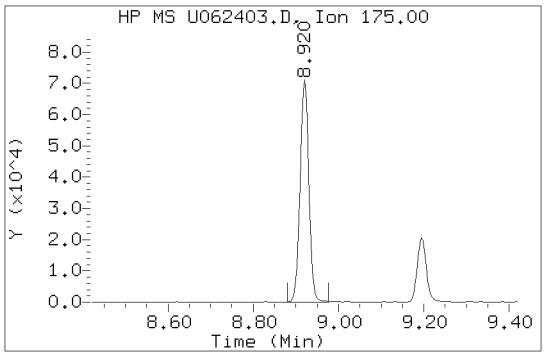
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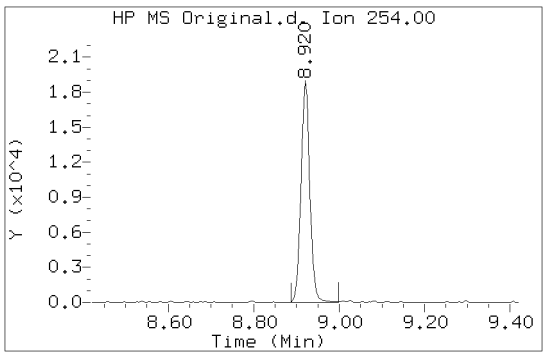
AFTER

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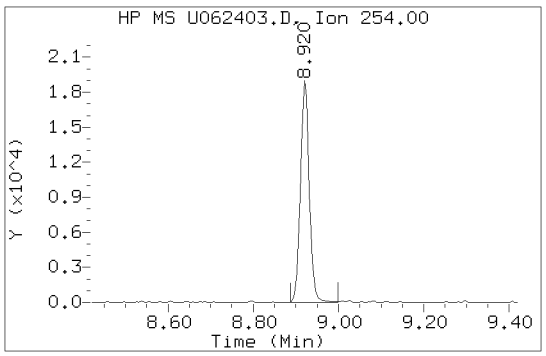
BEFORE

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03-Jul-2023
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AFTER

MASS
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HEIGHT
18984
03-Jul-2023
12:29
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062404.D Page 1
Report Date: 03-Jul-2023 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062404.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 24-JUN-2023 12:39
Operator : PC Inst ID: VOA9.i
Smp Info : CCB;CCB;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\8260C.m
Meth Date : 03-Jul-2023 12:30 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	(1.000)	687820	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.751	(0.986)	282182	48.8699	48.86
$ 35 1,2-Dichloroethane-d4	65	5.096	5.100	(1.059)	323154	51.7526	51.75
* 36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	927566	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	831426	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1032684	54.8787	54.87
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	355061	47.8512	47.85
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	407905	50.0000	

01199687

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062404.D

Date : 24-JUN-2023 12:39

Client ID: CCB

Instrument: VOA9.i

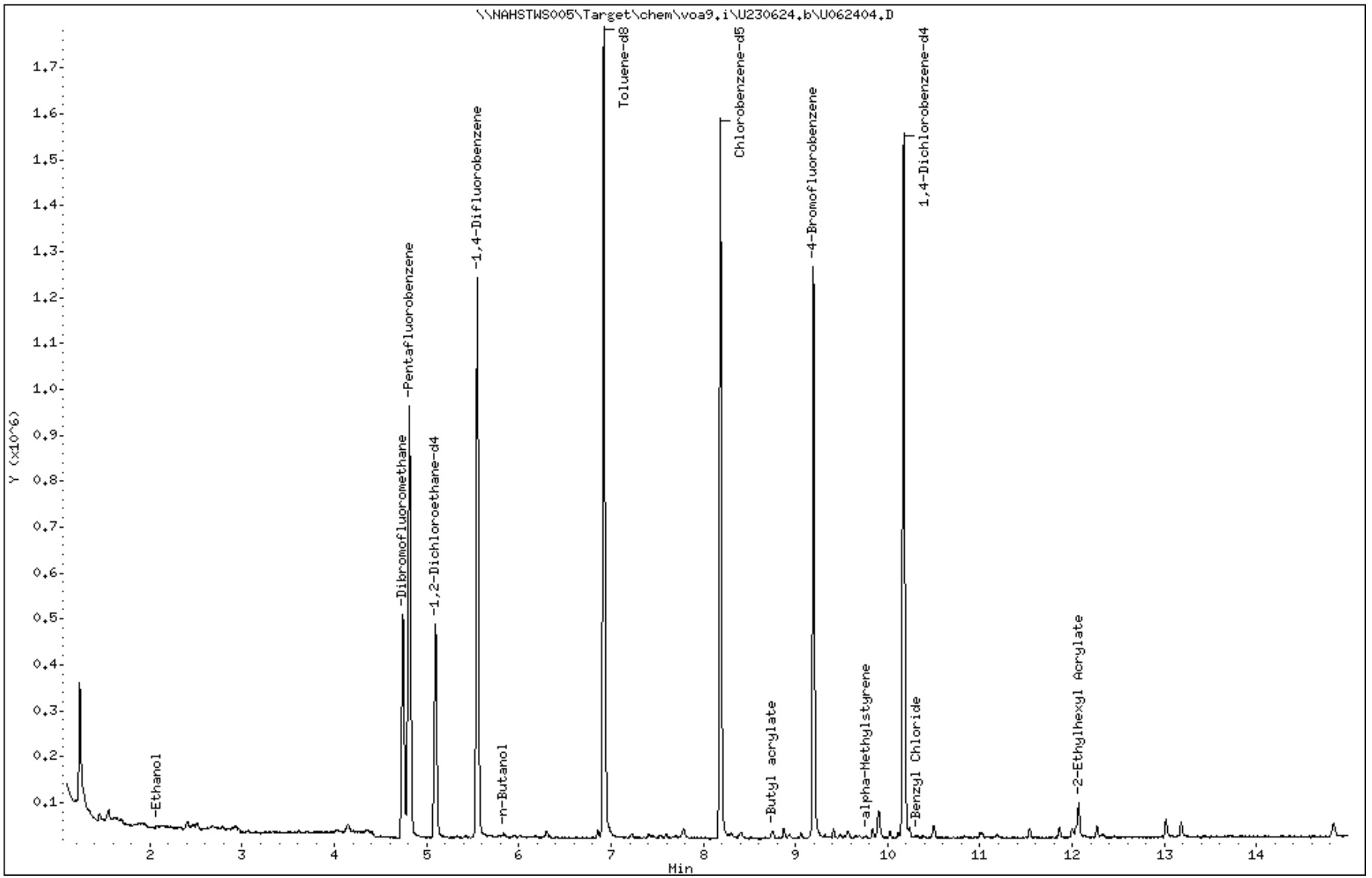
Sample Info: CCB:CCB:::

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062404.D
Inj Date : 24-JUN-2023 12:39
InstruID : VOA9.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062405.D Page 1
Report Date: 03-Jul-2023 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062405.D
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Inj Date : 24-JUN-2023 13:01
Operator : PC Inst ID: VOA9.i
Smp Info : VLCSW-230624;VLCSW-230624;3;;LCS
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\8260C.m
Meth Date : 03-Jul-2023 12:30 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	4.819	(1.000)	567046	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	103118	19.7305	19.73
3	Chloromethane	50	1.299	1.303	(0.270)	160438	17.9168	17.91
5	Vinyl Chloride	62	1.381	1.381	(0.287)	126486	21.0884	21.08
6	Bromomethane	94	1.625	1.625	(0.337)	87876	27.7021	27.70
7	Chloroethane	64	1.704	1.704	(0.354)	91170	22.5648	22.56
8	Trichlorofluoromethane	101	1.899	1.902	(0.394)	171856	24.9475	24.94
9	Acrolein	56	2.270	2.270	(0.471)	12498	41.5246	41.52
10	Acetone	43	2.412	2.412	(0.501)	95230	45.9829	45.98
11	1,1-Dichloroethene	96	2.333	2.337	(0.484)	98046	22.7791	22.77
15	Iodomethane	142	2.472	2.472	(0.513)	139575	48.0907	48.09
16	Acrylonitrile	53	3.068	3.068	(0.637)	96656	45.9637	45.96
17	Methylene Chloride	84	2.798	2.798	(0.581)	120112	22.6769	22.67
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	307828	23.3219	23.32
19	Carbon Disulfide	76	2.525	2.525	(0.524)	540390	46.9633	46.96
20	trans-1,2-Dichloroethene	96	3.061	3.065	(0.635)	107122	22.8848	22.88
21	Vinyl Acetate	43	3.612	3.612	(0.750)	649741	45.5353	45.53
22	1,1-Dichloroethane	63	3.518	3.518	(0.730)	194210	21.8318	21.83
24	2-Butanone	43	4.272	4.268	(0.886)	107500	41.5804	41.58
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	152587	26.1352	26.13

27 cis-1,2-Dichloroethene	96	4.200	4.200 (0.872)	124707	22.2692	22.26
28 Chloroform	83	4.575	4.575 (0.949)	206233	22.2748	22.27

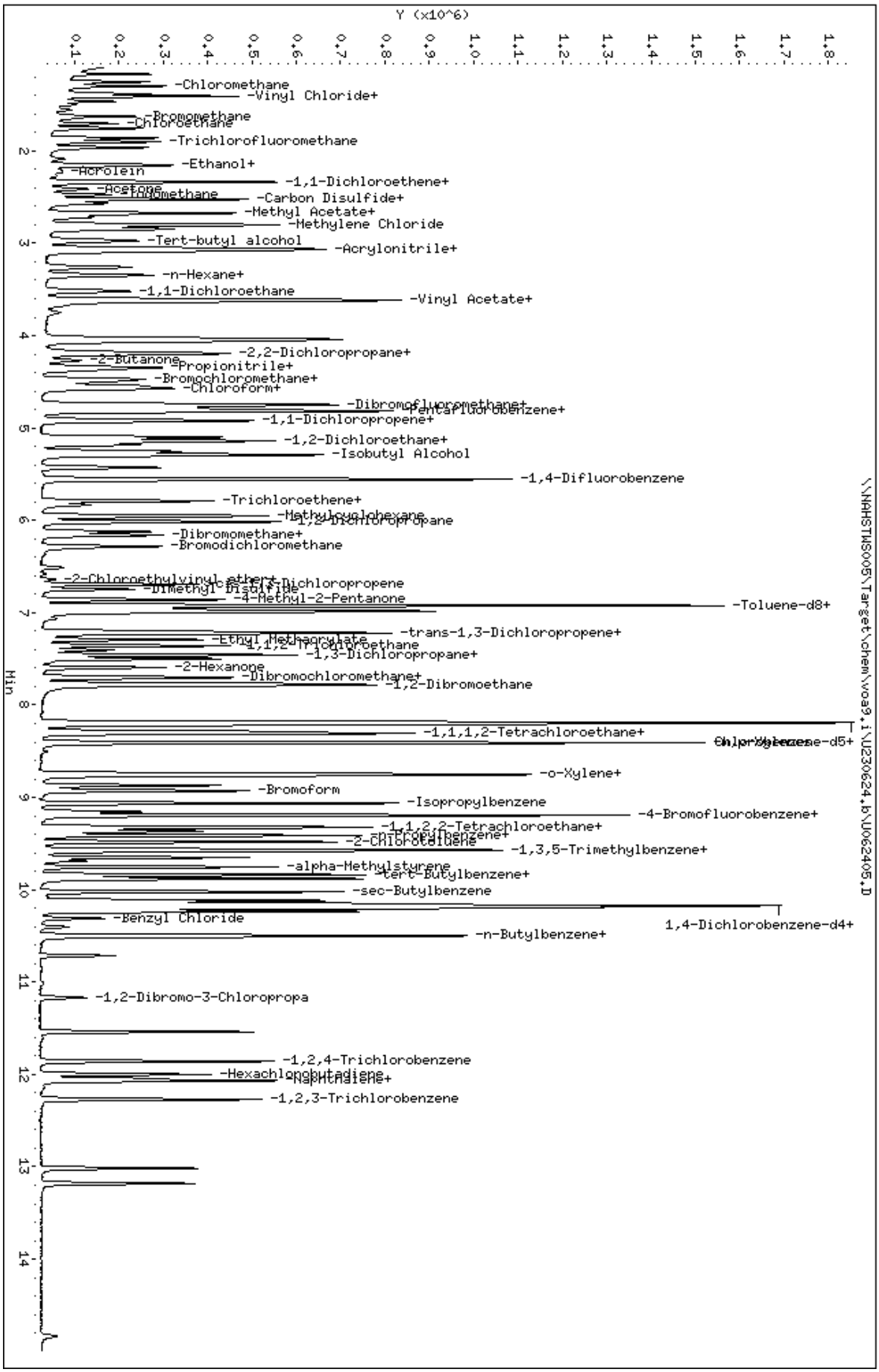
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	66258	21.1521	21.15
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	244510	51.3810	51.38
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	170457	24.1557	24.15
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	139568	23.1724	23.17
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	170716	24.0000	23.99
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	138934	25.1122	25.11
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	276741	53.7857	53.78
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	821835	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	433272	21.8787	21.87
	38 Trichloroethene	130	5.790	5.790	(1.043)	125708	21.9009	21.90
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	150776	24.4077	24.40
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	4818	32.2458	32.24
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	116492	22.0315	22.03
	44 Dibromomethane	93	6.123	6.120	(1.103)	76920	22.7679	22.76
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	245665	42.7549	42.75
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	173039	22.0202	22.02
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	789043	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	906962	50.7865	50.78
	50 Toluene	91	6.982	6.982	(0.853)	495160	23.1374	23.13
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	146083	22.2006	22.20
	52 2-Hexanone	43	7.593	7.593	(0.928)	165414	41.3378	41.33
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	97913	21.9887	21.98
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	201465	22.1447	22.14
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	128966	24.4096	24.40
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	123006	23.5911	23.59
	57 1,2-Dibromoethane	107	7.788	7.784	(0.951)	122409	22.2845	22.28
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	99488	23.5752	23.57
	59 Chlorobenzene	112	8.211	8.211	(1.003)	346748	22.7023	22.70
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	123991	23.6193	23.61
	61 Ethylbenzene	106	8.309	8.305	(1.015)	165024	23.2139	23.21
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	397722	47.2882	47.28
	63 o-Xylene	106	8.748	8.748	(1.069)	192076	23.1171	23.11
	64 Styrene	104	8.762	8.763	(1.071)	315747	23.9459	23.94
	66 Bromoform	173	8.920	8.920	(1.090)	82699	23.1890	23.18
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	473747	23.7385	23.73
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	154838	19.9255	19.92
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	368954	52.4804	52.48
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	413117	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	148649	21.7442	21.74
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	501076	23.1238	23.12
	74 Bromobenzene	156	9.317	9.317	(0.916)	150690	21.6186	21.61
	75 1,3,5-Trimethylbenzene	105	9.565	9.561	(0.940)	353900	23.8058	23.80
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	345205	22.6620	22.66
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	386643	22.9311	22.93
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	337990	23.1484	23.14
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	370690	23.8312	23.83
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	428996	23.1681	23.16
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	364500	23.4969	23.49
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	252660	21.3417	21.34
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	270638	21.4407	21.44
	87 n-Butylbenzene	91	10.494	10.491	(1.032)	301627	22.7127	22.71
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	251201	21.1626	21.16

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	22205	19.5821	19.58
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	164202	20.1116	20.11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	70708	21.4449	21.44
	92 Naphthalene	128	12.069	12.065	(1.186)	384881	20.2941	20.29
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	159038	19.9253	19.92
M	94 1,2-Dichloroethylene (total)	96				231829	45.1540	45.15
M	95 Xylenes (total)	106				589798	70.4053	70.40
	135 1,4-Dioxane	88	6.172	6.172	(1.281)	29955	266.044	266.04
	141 Cyclohexane	56	4.785	4.785	(0.993)	156071	22.8127	22.81
	138 Freon TF	101	2.337	2.341	(0.485)	93351	24.5123	24.51
	140 1,3-Butadiene	54	1.408	1.408	(0.292)	109586	20.4065	20.40
	147 Methylcyclohexane	55	5.951	5.951	(1.072)	252278	22.1287	22.12
	146 Methyl Acetate	43	2.716	2.716	(0.564)	103861	21.7529	21.75
	148 Tert-Butyl alcohol	59	2.971	2.971	(0.617)	251015	476.523	476.52
	149 Isopropyl Alcohol	45	2.566	2.566	(0.533)	152195	410.567	410.56
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	23431	25.7905	25.79
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	346939	470.905	470.90
	13 Acetonitrile	39	2.675	2.675	(0.555)	147422	240.133	240.13
	14 Allyl Chloride	41	2.675	2.678	(0.555)	322728	21.9216	21.92
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	72265	21.5702	21.57
	40 Methyl Methacrylate	41	6.161	6.161	(1.278)	107043	21.9550	21.95
	4 Propionitrile	54	4.343	4.343	(0.901)	179438	218.988	218.98(a)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	368281	23.1918	23.19

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230624.b\U062405.D
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Sample Info: VLCSW-230624;VLCSW-230624;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062405.D
Inj Date : 24-JUN-2023 13:01
InstruID : VOA9.i
LabSampID : VLCSW-230624

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062407.D Page 1
Report Date: 03-Jul-2023 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062407.D
Lab Smp Id: VBLKW-230624 Client Smp ID: VBLKW-230624
Inj Date : 24-JUN-2023 13:46
Operator : PC Inst ID: VOA9.i
Smp Info : VBLKW-230624;VBLKW-230624;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\8260C.m
Meth Date : 03-Jul-2023 12:30 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	(1.000)	629908	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.751	(0.986)	264713	50.0671	50.06
$ 35 1,2-Dichloroethane-d4	65	5.096	5.100	(1.059)	303301	53.0559	53.05
* 36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	863599	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	783334	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	975975	55.0493	55.04
$ 69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	334842	47.8976	47.89
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	383787	50.0000	

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062407.D

Date : 24-JUN-2023 13:46

Client ID: VBLKW-230624

Instrument: VOA9.i

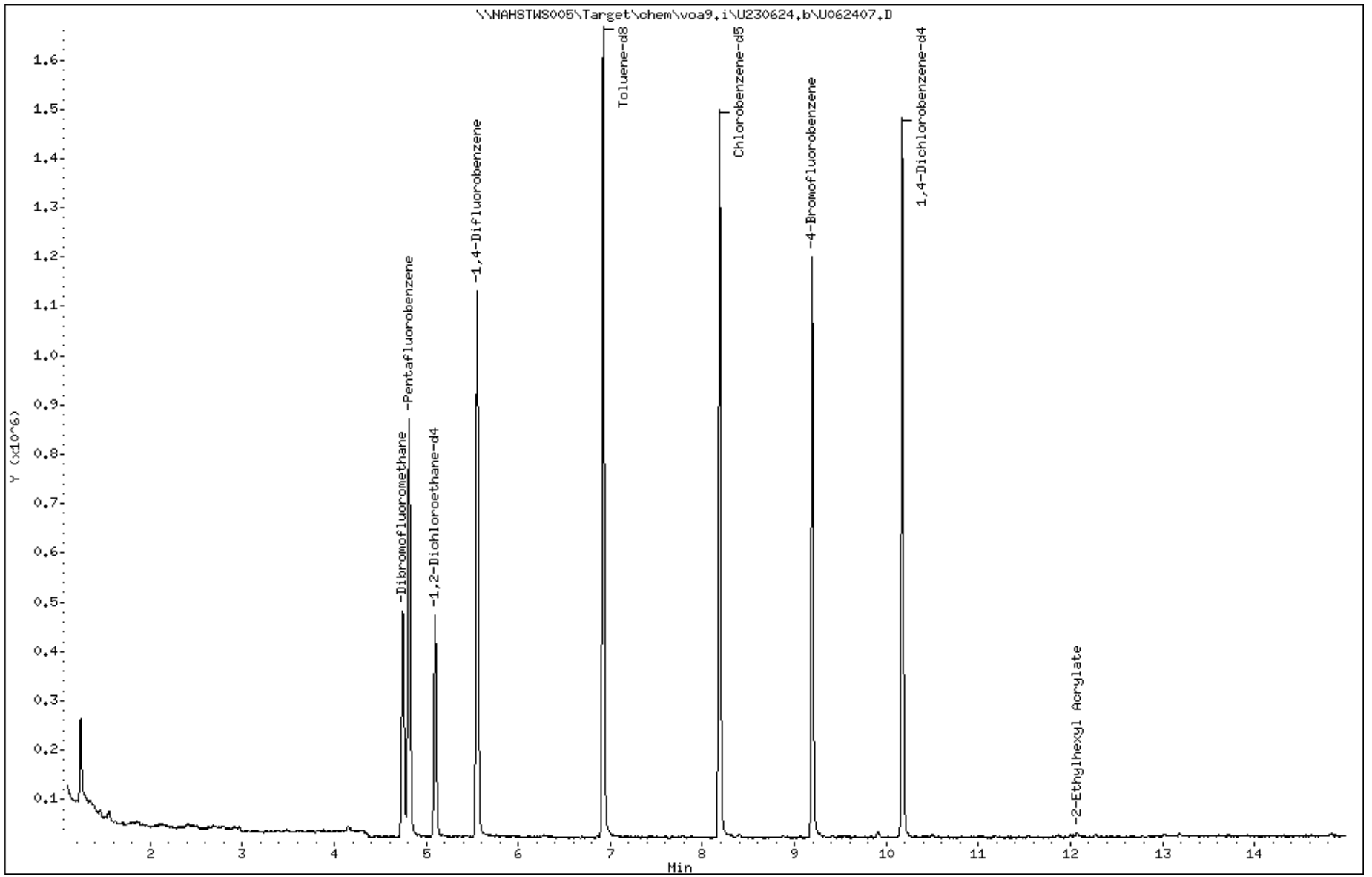
Sample Info: VBLKW-230624;VBLKW-230624;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062407.D
Inj Date : 24-JUN-2023 13:46
InstruID : VOA9.i
LabSampID : VBLKW-230624

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062409.D Page 1
Report Date: 03-Jul-2023 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062409.D
Lab Smp Id: HS23061372-03MS Client Smp ID: HS23061372-03MS
Inj Date : 24-JUN-2023 14:31
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061372-03MS;HS23061372-03MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\8260C.m
Meth Date : 03-Jul-2023 12:30 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	(1.000)	632681	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.168	(0.242)	104703	17.9627	17.96
3 Chloromethane	50	1.295	1.303	(0.269)	169224	16.8637	16.86
5 Vinyl Chloride	62	1.378	1.381	(0.286)	133067	19.8840	19.88
6 Bromomethane	94	1.618	1.625	(0.336)	92050	25.8951	25.89
7 Chloroethane	64	1.696	1.704	(0.352)	94922	21.0562	21.05
8 Trichlorofluoromethane	101	1.895	1.902	(0.394)	195270	25.4058	25.40
9 Acrolein	56	2.266	2.270	(0.471)	10299	30.6686	30.66
10 Acetone	43	2.409	2.412	(0.500)	84342	35.3238	35.32
11 1,1-Dichloroethene	96	2.330	2.337	(0.484)	106721	22.2223	22.22
15 Iodomethane	142	2.469	2.472	(0.513)	131621	42.2748	42.27
16 Acrylonitrile	53	3.065	3.068	(0.636)	95531	40.7159	40.71
17 Methylene Chloride	84	2.795	2.798	(0.580)	120209	20.2349	20.23
18 Methyl tert-butyl ether	73	3.080	3.083	(0.640)	312859	21.2440	21.24
19 Carbon Disulfide	76	2.521	2.525	(0.524)	601739	46.8698	46.86
20 trans-1,2-Dichloroethene	96	3.057	3.065	(0.635)	113481	21.7282	21.72
21 Vinyl Acetate	43	3.608	3.612	(0.749)	629317	39.5286	39.52
22 1,1-Dichloroethane	63	3.515	3.518	(0.730)	204106	20.5640	20.56
24 2-Butanone	43	4.268	4.268	(0.886)	103766	35.9724	35.97
26 2,2-Dichloropropane	77	4.182	4.185	(0.868)	169121	25.9647	25.96

27 cis-1,2-Dichloroethene	96	4.193	4.200 (0.871)	127169	20.3530	20.35
28 Chloroform	83	4.572	4.575 (0.949)	213678	20.6847	20.68

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062409.D Page 2
Report Date: 03-Jul-2023 12:30

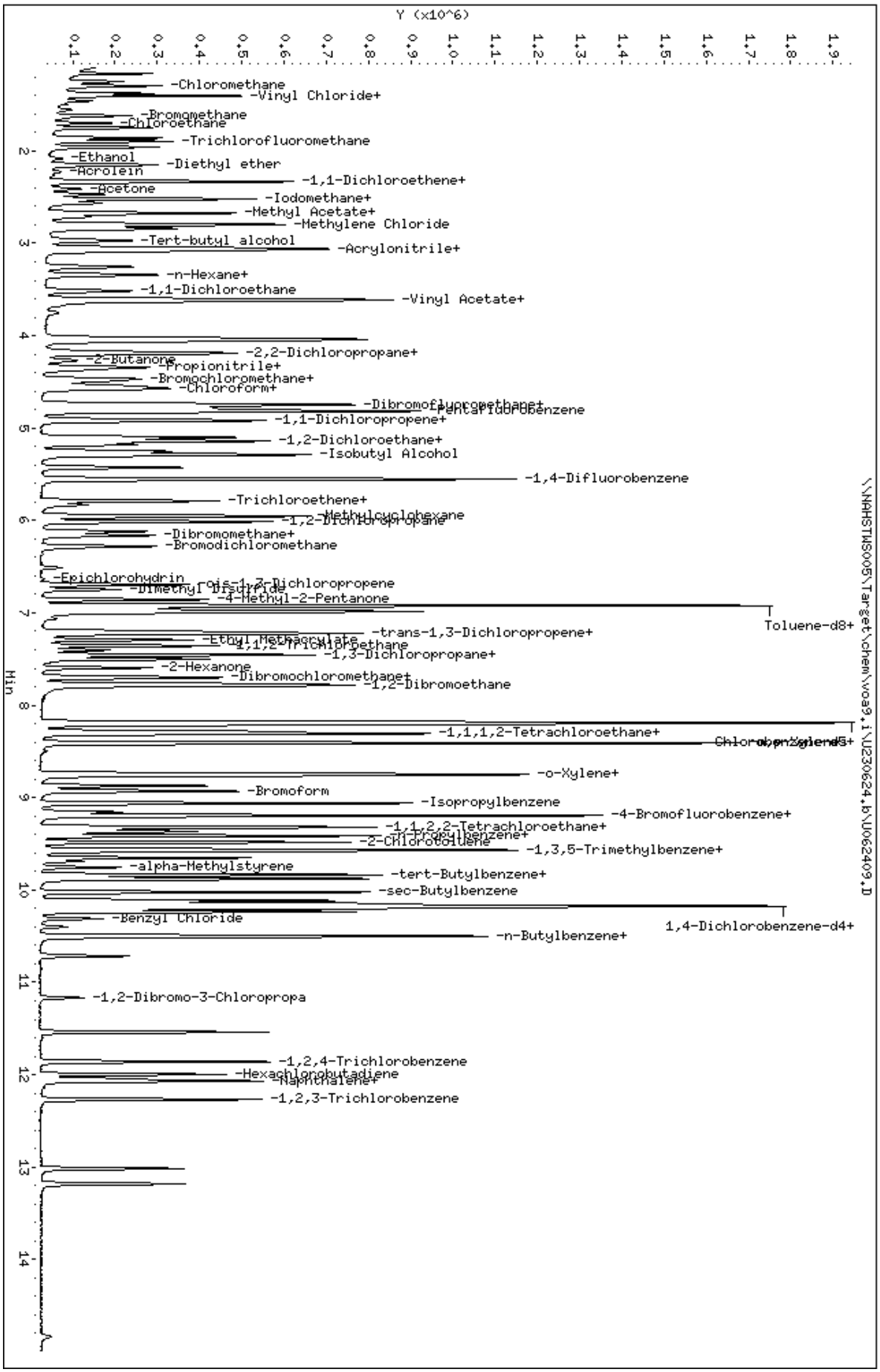
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	68582	19.6227	19.62
$	30 Dibromofluoromethane	113	4.748	4.751	(0.986)	268160	50.4995	50.49
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	188945	23.9979	23.99
	32 1,1-Dichloropropene	75	4.920	4.924	(0.886)	155159	24.5883	24.58
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	171438	23.0043	23.00
	34 Carbon Tetrachloride	117	4.909	4.913	(0.884)	158703	27.3796	27.37
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	307264	53.5194	53.51
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	861031	50.0000	
	37 Benzene	78	5.138	5.141	(0.925)	453043	21.8357	21.83
	38 Trichloroethene	130	5.790	5.790	(1.043)	137986	22.9456	22.94
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	153025	23.6441	23.64
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	116565	21.0417	21.04
	44 Dibromomethane	93	6.120	6.120	(1.102)	79137	22.3578	22.35
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	234544	39.1905	39.19
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	171513	20.9356	20.93
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	821838	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1008879	54.2392	54.23
	50 Toluene	91	6.982	6.982	(0.853)	513358	23.0306	23.03
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	146460	21.3317	21.33
	52 2-Hexanone	43	7.593	7.593	(0.928)	155192	37.2357	37.23
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	95804	20.6565	20.65
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	200638	21.1737	21.17
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	126119	22.9182	22.91
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	137793	25.3725	25.37
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	122819	21.4669	21.46
	58 1-Chlorohexane	55	8.197	8.196	(1.476)	112024	25.3374	25.33
	59 Chlorobenzene	112	8.212	8.211	(1.003)	360590	22.6665	22.66
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.286	(1.012)	125222	22.9020	22.90
	61 Ethylbenzene	106	8.309	8.305	(1.015)	174236	23.5317	23.53
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	432585	49.3809	49.38
	63 o-Xylene	106	8.748	8.748	(1.069)	204434	23.6226	23.62
	64 Styrene	104	8.763	8.763	(1.071)	309920	22.5661	22.56
	66 Bromoform	173	8.920	8.920	(1.090)	80575	21.6919	21.69
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	530648	25.5287	25.52
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	163256	19.9696	19.96
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	370153	50.5166	50.51
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	434616	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	146376	20.3525	20.35
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	560983	24.6078	24.60
	74 Bromobenzene	156	9.317	9.317	(0.916)	159200	21.7097	21.70
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	384457	24.5820	24.58
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	369959	23.0856	23.08
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	420826	23.7238	23.72
	78 tert-Butylbenzene	119	9.839	9.838	(0.967)	369381	24.0469	24.04
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	390234	23.8467	23.84
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	483700	24.8302	24.83
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	404903	24.8103	24.81
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	276537	22.2030	22.20
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	285390	21.4910	21.49
	87 n-Butylbenzene	91	10.495	10.491	(1.032)	337086	24.1271	24.12
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	270552	21.6654	21.66
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	21751	18.2328	18.23

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	170469	19.8464	19.84
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	84020	24.2217	24.22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	92 Naphthalene	128	12.069	12.065	(1.186)	378558	18.9733	18.97
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	163074	19.4203	19.42
M	94 1,2-Dichloroethylene (total)	96				240650	42.0812	42.08
M	95 Xylenes (total)	106				637019	73.0035	73.00
	135 1,4-Dioxane	88	6.172	6.172	(1.282)	29656	236.064	236.06
	141 Cyclohexane	56	4.782	4.785	(0.993)	170272	22.3164	22.31
	138 Freon TF	101	2.334	2.341	(0.485)	110060	25.9017	25.90
	140 1,3-Butadiene	54	1.404	1.408	(0.292)	115223	19.2303	19.23
	147 Methylcyclohexane	55	5.947	5.951	(1.071)	280054	23.4469	23.44
	146 Methyl Acetate	43	2.712	2.716	(0.563)	103557	19.4392	19.43
	148 Tert-Butyl alcohol	59	2.971	2.971	(0.617)	243150	413.052	413.05
	149 Isopropyl Alcohol	45	2.566	2.566	(0.533)	148035	357.916	357.91
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	23185	24.5013	24.50
	12 Isobutyl Alcohol	43	5.288	5.291	(1.098)	381449	464.034	464.03
	13 Acetonitrile	39	2.671	2.675	(0.555)	156117	227.915	227.91
	14 Allyl Chloride	41	2.671	2.678	(0.555)	332161	20.2217	20.22
	25 Methacrylonitrile	41	4.497	4.500	(0.934)	68499	18.3250	18.32
	40 Methyl Methacrylate	41	6.157	6.161	(1.279)	107445	19.7512	19.75
	4 Propionitrile	54	4.339	4.343	(0.901)	167033	182.701	182.70(a)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	382522	22.8970	22.89

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230624,b\U062409,D
Date : 24-JUN-2023 14:31
Client ID: HS230613372-03MS
Sample Info: HS230613372-03MS;HS230613372-03MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062409.D
Inj Date : 24-JUN-2023 14:31
InstruID : VOA9.i
LabSampID : HS23061372-03MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062410.D Page 1
Report Date: 03-Jul-2023 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062410.D
Lab Smp Id: HS23061372-03MSD Client Smp ID: HS23061372-03MSD
Inj Date : 24-JUN-2023 14:53
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061372-03MSD;HS23061372-03MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\8260C.m
Meth Date : 03-Jul-2023 12:30 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	4.819	(1.000)	641337	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	109558	18.5393	18.53
3 Chloromethane	50	1.299	1.303	(0.270)	168463	16.5371	16.53
5 Vinyl Chloride	62	1.382	1.381	(0.287)	136073	20.0588	20.05
6 Bromomethane	94	1.621	1.625	(0.337)	86767	23.9505	23.95
7 Chloroethane	64	1.704	1.704	(0.354)	95526	20.9042	20.90
8 Trichlorofluoromethane	101	1.899	1.902	(0.394)	196742	25.2518	25.25
9 Acrolein	56	2.266	2.270	(0.470)	11234	33.0013	33.00
10 Acetone	43	2.412	2.412	(0.501)	88080	36.5639	36.56
11 1,1-Dichloroethene	96	2.334	2.337	(0.484)	107806	22.1453	22.14
15 Iodomethane	142	2.472	2.472	(0.513)	154901	47.3883	47.38
16 Acrylonitrile	53	3.068	3.068	(0.637)	94840	39.8758	39.87
17 Methylene Chloride	84	2.799	2.798	(0.581)	124120	20.6304	20.63
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	318579	21.3405	21.34
19 Carbon Disulfide	76	2.525	2.525	(0.524)	606952	46.6378	46.63
20 trans-1,2-Dichloroethene	96	3.061	3.065	(0.635)	114932	21.7091	21.70
21 Vinyl Acetate	43	3.612	3.612	(0.750)	630749	39.0838	39.08
22 1,1-Dichloroethane	63	3.518	3.518	(0.730)	203499	20.2261	20.22
24 2-Butanone	43	4.268	4.268	(0.886)	103761	35.4852	35.48
26 2,2-Dichloropropane	77	4.186	4.185	(0.869)	170485	25.8231	25.82

27 cis-1,2-Dichloroethene	96	4.197	4.200 (0.871)	131670	20.7890	20.78
28 Chloroform	83	4.575	4.575 (0.949)	216479	20.6730	20.67

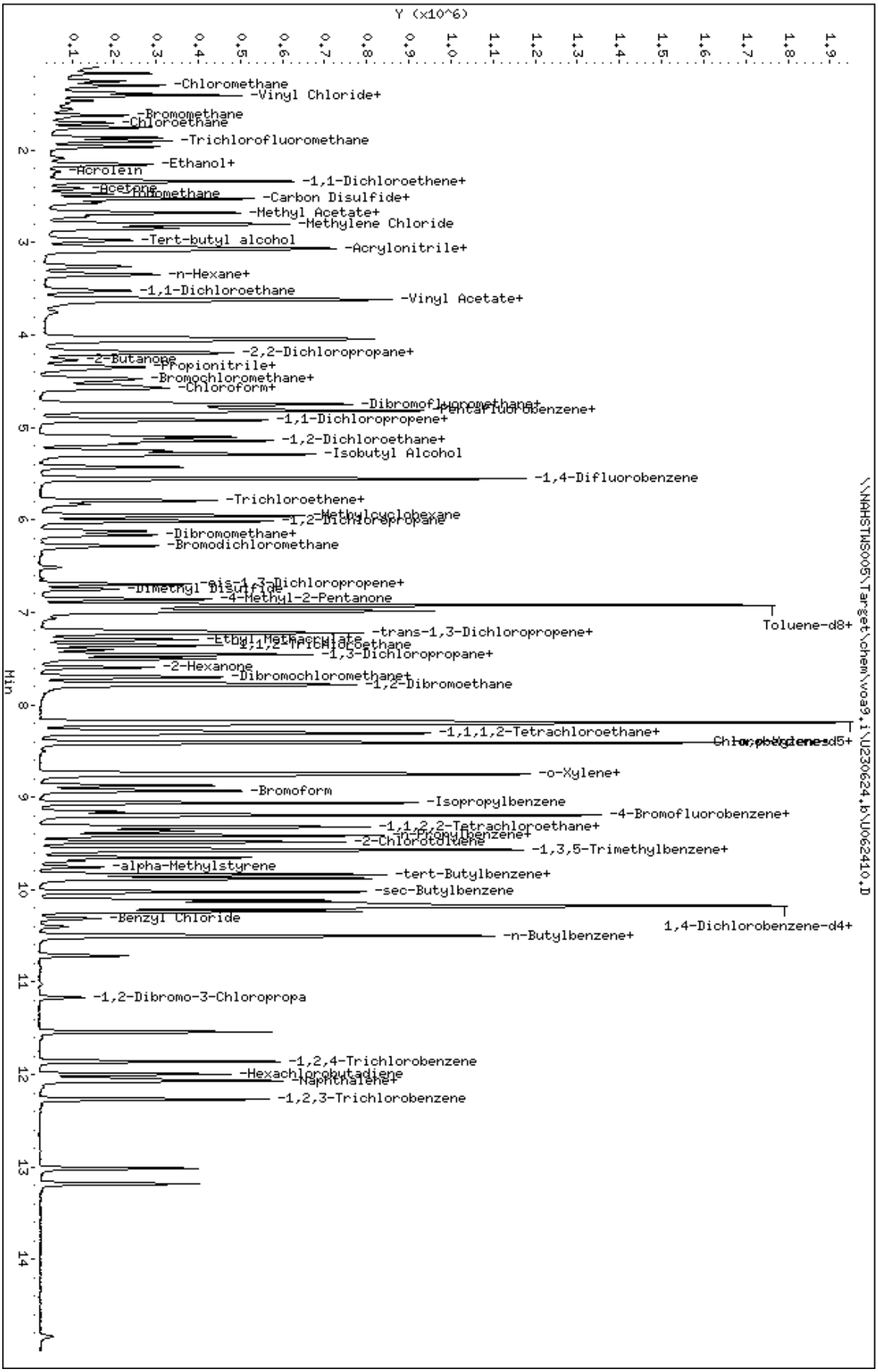
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	68083	19.2170	19.21
$	30 Dibromofluoromethane	113	4.752	4.751	(0.986)	268932	49.9579	49.95
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	187815	23.5324	23.53
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	156721	24.4667	24.46
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	173752	22.9683	22.96
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	160010	27.1949	27.19
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	308553	53.0122	53.01
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	874021	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	459274	21.8070	21.80
	38 Trichloroethene	130	5.790	5.790	(1.043)	137370	22.5037	22.50
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	152981	23.2860	23.28
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	120414	21.4135	21.41
	44 Dibromomethane	93	6.120	6.120	(1.102)	79412	22.1021	22.10
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	238154	39.6003	39.60
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	175938	21.1364	21.13
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	825852	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1028614	55.0314	55.03
	50 Toluene	91	6.982	6.982	(0.853)	516707	23.0681	23.06
	51 trans-1,3-Dichloropropene	75	7.200	7.199	(1.296)	148903	21.3621	21.36
	52 2-Hexanone	43	7.593	7.593	(0.928)	160207	38.2521	38.25
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	97521	20.9245	20.92
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	205346	21.5652	21.56
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	129881	23.4871	23.48
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	142864	26.1784	26.17
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	124565	21.6663	21.66
	58 1-Chlorohexane	55	8.197	8.196	(1.476)	113154	25.2126	25.21
	59 Chlorobenzene	112	8.212	8.211	(1.003)	356563	22.3044	22.30
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.286	(1.012)	126549	23.0322	23.03
	61 Ethylbenzene	106	8.309	8.305	(1.015)	179803	24.1655	24.16
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	433443	49.2383	49.23
	63 o-Xylene	106	8.748	8.748	(1.069)	203947	23.4518	23.45
	64 Styrene	104	8.763	8.763	(1.071)	314275	22.7719	22.77
	66 Bromoform	173	8.920	8.920	(1.090)	80585	21.5891	21.58
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	536872	25.7026	25.70
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	161035	19.3683	19.36
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	372244	50.5558	50.55
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	442012	50.0000	
	71 1,2,3-Trichloropropane	75	9.363	9.362	(0.920)	147623	20.1824	20.18
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	583829	25.1814	25.18
	74 Bromobenzene	156	9.318	9.317	(0.916)	159585	21.3980	21.39
	75 1,3,5-Trimethylbenzene	105	9.565	9.561	(0.940)	391121	24.5896	24.58
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	373096	22.8918	22.89
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	420871	23.3294	23.32
	78 tert-Butylbenzene	119	9.839	9.838	(0.967)	380826	24.3771	24.37
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	395399	23.7580	23.75
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	488401	24.6520	24.65
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	413316	24.9020	24.90
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	272321	21.4987	21.49
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	291084	21.5530	21.55
	87 n-Butylbenzene	91	10.495	10.491	(1.032)	352471	24.8062	24.80
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	269444	21.2156	21.21
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.169	(1.098)	22309	18.3877	18.38

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	182921	20.9397	20.93	
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	84277	23.8893	23.88	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	92 Naphthalene	128	12.069	12.065	(1.186)	411857	20.2968	20.29
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	169201	19.8128	19.81
M	94 1,2-Dichloroethylene (total)	96				246602	42.4980	42.49
M	95 Xylenes (total)	106				637390	72.6901	72.69
	135 1,4-Dioxane	88	6.172	6.172	(1.281)	29217	229.431	229.43
	141 Cyclohexane	56	4.785	4.785	(0.993)	172406	22.2916	22.29
	138 Freon TF	101	2.337	2.341	(0.485)	111516	25.8902	25.89
	140 1,3-Butadiene	54	1.408	1.408	(0.292)	119122	19.6127	19.61
	147 Methylcyclohexane	55	5.951	5.951	(1.072)	289979	23.9170	23.91
	146 Methyl Acetate	43	2.716	2.716	(0.564)	101040	18.7107	18.71
	148 Tert-Butyl alcohol	59	2.971	2.971	(0.617)	249495	418.171	418.17
	149 Isopropyl Alcohol	45	2.566	2.566	(0.533)	155716	371.406	371.40
	72 trans-1,4-Dichloro-2-butene	53	9.378	9.377	(1.146)	23829	25.0595	25.05
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	388844	466.646	466.64
	13 Acetonitrile	39	2.675	2.675	(0.555)	160075	230.540	230.53
	14 Allyl Chloride	41	2.675	2.678	(0.555)	340468	20.4477	20.44
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	76218	20.1148	20.11
	40 Methyl Methacrylate	41	6.161	6.161	(1.278)	108246	19.6299	19.62
	4 Propionitrile	54	4.343	4.343	(0.901)	166448	179.604	179.60(a)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	389285	22.9120	22.91

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230624,b\U062410,D
Date : 24-JUN-2023 14:53
Client ID: HS23061372-03MSD
Sample Info: HS23061372-03MSD;HS23061372-03MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062410.D
Inj Date : 24-JUN-2023 14:53
InstruID : VOA9.i
LabSampID : HS23061372-03MSD

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062427.D
Lab Smp Id: HS23061557-01 Client Smp ID: HS23061557-01
Inj Date : 24-JUN-2023 21:14
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-01;HS23061557-01;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\8260C.m
Meth Date : 03-Jul-2023 12:30 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	(1.000)	592824	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.751	(0.986)	251136	50.4730	50.47
$ 35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	294158	54.6962	54.69
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	811319	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	736005	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	912667	54.7888	54.78
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	308546	46.9568	46.95
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	362459	50.0000	

01199714

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062427.D

Date : 24-JUN-2023 21:14

Client ID: HS23061557-01

Instrument: VOA9.i

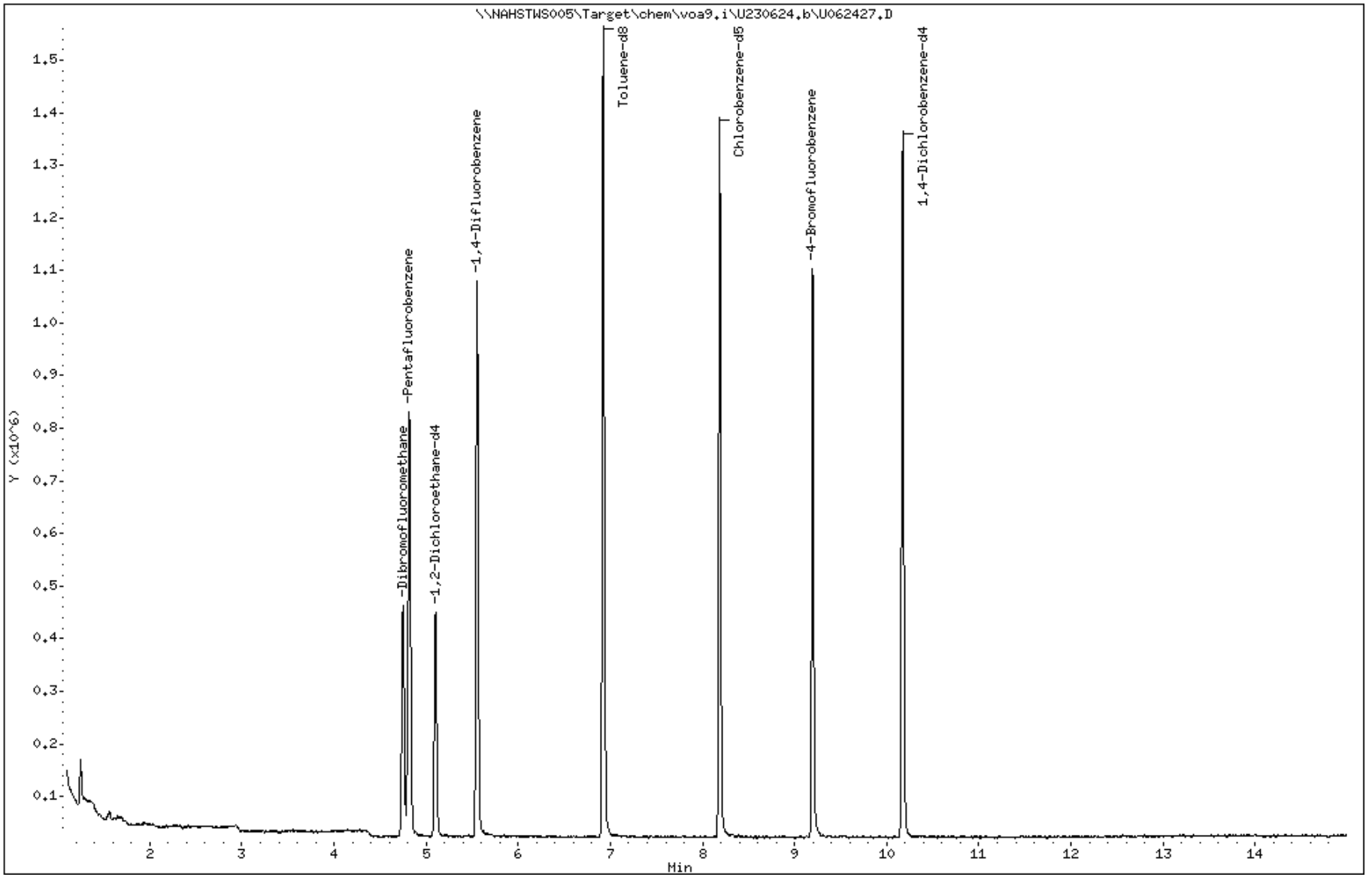
Sample Info: HS23061557-01;HS23061557-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062427.D
Inj Date : 24-JUN-2023 21:14
InstruID : VOA9.i
LabSampID : HS23061557-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062431.D Page 1
Report Date: 03-Jul-2023 12:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062431.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 24-JUN-2023 22:44
Operator : PC Inst ID: VOA9.i
Smp Info : CCV-END;CCV-END;2;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\8260C.m
Meth Date : 03-Jul-2023 12:31 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	515783	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	192400	50.0000	40.38
3	Chloromethane	50	1.292	1.292	(0.268)	320968	50.0000	41.02
5	Vinyl Chloride	62	1.374	1.374	(0.285)	241976	50.0000	44.35
6	Bromomethane	94	1.614	1.614	(0.335)	159271	50.0000	57.02
7	Chloroethane	64	1.696	1.696	(0.352)	169074	50.0000	46.00
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	323852	50.0000	51.68
9	Acrolein	56	2.262	2.262	(0.470)	24723	100.000	90.30
10	Acetone	43	2.405	2.405	(0.499)	171528	100.000	96.65
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	185272	50.0000	47.32
15	Iodomethane	142	2.465	2.465	(0.512)	259910	100.000	86.44
16	Acrylonitrile	53	3.065	3.065	(0.636)	212128	100.000	110.90
17	Methylene Chloride	84	2.791	2.791	(0.580)	238186	50.0000	50.65
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	707048	50.0000	58.89
19	Carbon Disulfide	76	2.517	2.517	(0.523)	1025316	100.000	97.96
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	208947	50.0000	49.07
21	Vinyl Acetate	43	3.604	3.604	(0.749)	1368119	100.000	105.41
22	1,1-Dichloroethane	63	3.511	3.511	(0.729)	383451	50.0000	47.38
24	2-Butanone	43	4.264	4.264	(0.886)	210238	100.000	89.40
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	250779	50.0000	46.90

27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	247883	50.0000	48.66
28 Chloroform	83	4.572	4.572 (0.949)	415430	50.0000	49.32

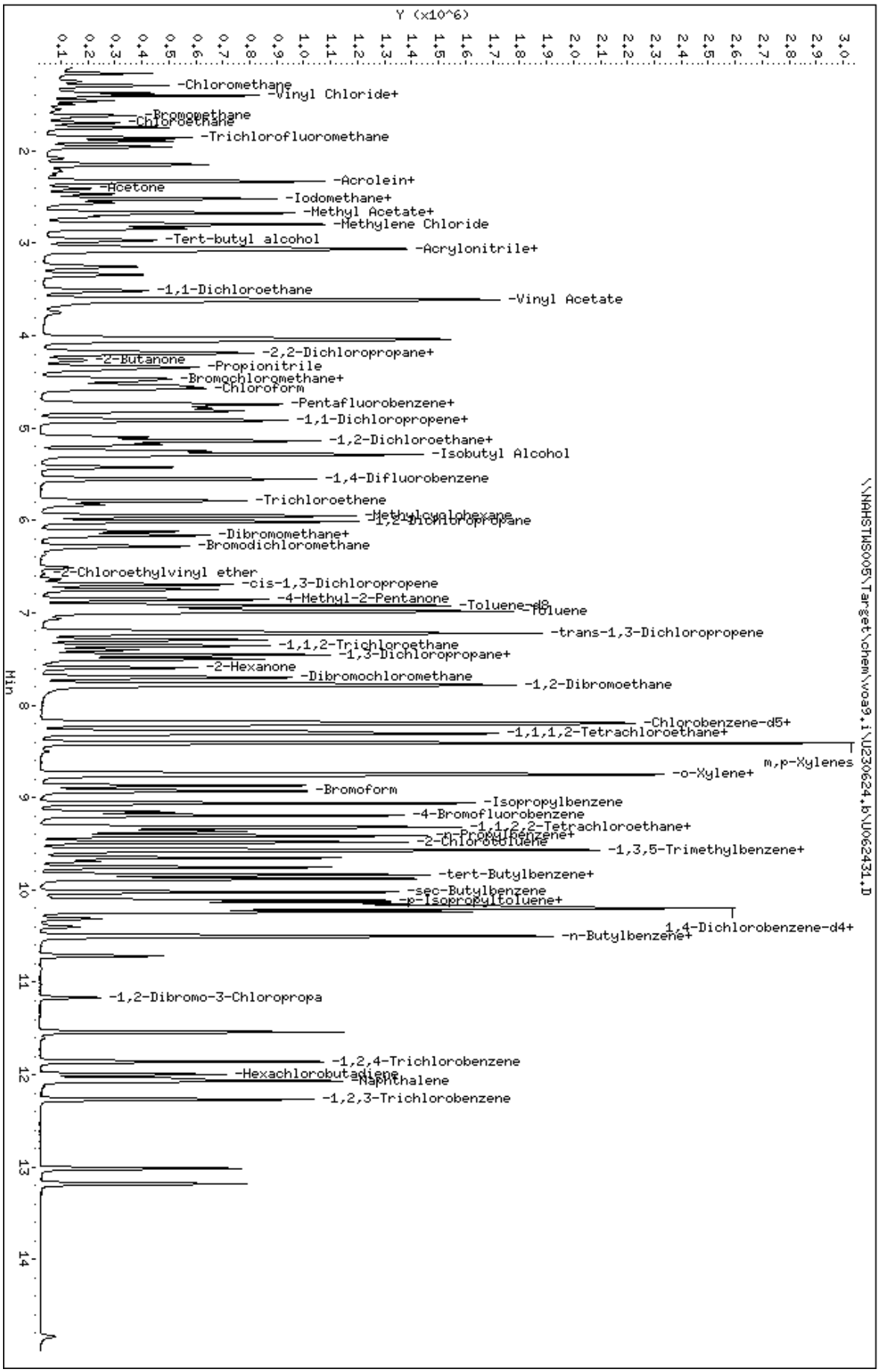
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.467	4.467	(0.928)	132961	50.0000	46.66
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	237646	50.0000	54.92
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	330121	50.0000	51.43
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	263573	50.0000	46.60
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	337533	50.0000	50.53
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	270424	50.0000	52.05
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	264888	50.0000	56.63
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	771761	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	861703	50.0000	46.33
	38 Trichloroethene	130	5.786	5.786	(1.042)	248688	50.0000	46.13
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	307318	50.0000	52.97
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	8245	100.000	58.76
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	228466	50.0000	46.01
	44 Dibromomethane	93	6.120	6.120	(1.102)	157789	50.0000	49.73
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	501292	100.000	89.42
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	344087	50.0000	44.49
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	769768	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	876332	50.0000	50.30
	50 Toluene	91	6.982	6.982	(0.853)	967104	50.0000	46.32
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	295256	50.0000	45.45
	52 2-Hexanone	43	7.593	7.593	(0.928)	331946	100.000	85.03
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	196359	50.0000	45.20
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	410344	50.0000	46.23
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	267627	50.0000	51.92
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	231894	50.0000	45.58
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	248888	50.0000	46.44
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	182774	50.0000	46.12
	59 Chlorobenzene	112	8.212	8.212	(1.003)	688685	50.0000	46.21
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	253416	50.0000	49.48
	61 Ethylbenzene	106	8.305	8.305	(1.015)	326637	50.0000	47.09
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	809082	100.000	98.60
	63 o-Xylene	106	8.748	8.748	(1.069)	401599	50.0000	49.54
	64 Styrene	104	8.763	8.763	(1.071)	647678	50.0000	50.34
	66 Bromoform	173	8.920	8.920	(1.090)	183055	50.0000	52.61
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	942506	50.0000	48.40
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	321691	50.0000	42.39
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	365837	50.0000	53.35
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	403436	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	306281	50.0000	45.87
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	989699	50.0000	46.76
	74 Bromobenzene	156	9.317	9.317	(0.916)	306599	50.0000	45.04
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	686421	50.0000	47.28
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	690562	50.0000	46.42
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	772841	50.0000	46.93
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	669653	50.0000	46.96
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	683290	50.0000	44.98
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	829582	50.0000	45.87
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	687788	50.0000	45.40
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	514624	50.0000	44.51
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	538894	50.0000	43.71
	87 n-Butylbenzene	91	10.491	10.491	(1.031)	565231	50.0000	43.58
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	515582	50.0000	44.47

89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166 (1.098)	47161	50.0000	42.58
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	329727	50.0000	41.35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	129688	50.0000	40.27	
	92 Naphthalene	128	12.065	12.065	(1.186)	775024	50.0000	41.84	
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	321097	50.0000	41.19	
M	94 1,2-Dichloroethylene (total)	96				456830	100.000		(a)
	135 1,4-Dioxane	88	6.169	6.169	(1.281)	60751	1000.00	593.18	
	141 Cyclohexane	56	4.782	4.782	(0.993)	273175	50.0000	43.25	
	138 Freon TF	101	2.330	2.330	(0.484)	189660	50.0000	54.75	
	140 1,3-Butadiene	54	1.400	1.400	(0.291)	207533	50.0000	42.48	
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	576137	50.0000	53.81	
	146 Methyl Acetate	43	2.712	2.712	(0.563)	205905	50.0000	47.41	
	148 Tert-Butyl alcohol	59	2.967	2.967	(0.616)	482641	1000.00	1012.82	
	149 Isopropyl Alcohol	45	2.562	2.562	(0.532)	309067	1000.00	916.61	
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	47881	50.0000	54.02	
	12 Isobutyl Alcohol	43	5.288	5.288	(1.098)	795874	1000.00	1187.61	
	13 Acetonitrile	39	2.671	2.671	(0.555)	319989	500.000	573.02	
	14 Allyl Chloride	41	2.671	2.671	(0.555)	709982	50.0000	53.01	
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	162856	50.0000	53.44	
	40 Methyl Methacrylate	41	6.157	6.157	(1.279)	243716	50.0000	54.95	
	4 Propionitrile	54	4.339	4.339	(0.901)	399346	500.000	535.80	
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	822492	50.0000	53.03	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230624.b\U062431.D
Date : 24-JUN-2023 22:44
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230624.b\U062431.D
Inj Date : 24-JUN-2023 22:44
InstruID : VOA9.i
LabSampID : CCV-END

NO MANUAL INTEGRATIONS

01199723

right solutions.
right partner.

Raw Data VOA9 439904

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062601.D Page 1
Report Date: 26-Jun-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 26-JUN-2023 12:37
Operator : PC Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230626.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: NAHSTW7051

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)	CONCENTRATIONS 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	158656			0.00- 100.00	100.00
9.193	9.180	(0.000)	50	30456			15.00- 40.00	19.20
9.193	9.180	(0.000)	75	79392			30.00- 60.00	50.04
9.193	9.180	(0.000)	96	10471			5.00- 9.00	6.60
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	155840			50.00- 0.00	98.23
9.193	9.180	(0.000)	175	12583			5.00- 9.00	8.07
9.193	9.180	(0.000)	176	148352			95.00- 101.00	95.20
9.193	9.180	(0.000)	177	10281			5.00- 9.00	6.93

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.20
75	30.00 - 60.00% of mass 95	50.04
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	98.23
175	5.00 - 9.00% of mass 174	7.93 (8.07)
176	95.00 - 101.00% of mass 174	93.51 (95.20)
177	5.00 - 9.00% of mass 176	6.48 (6.93)

Data File: U062601.D
Spectrum: Scan 2294 (9.19)
Location of Maximum: 95.00
Number of points: 181

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2103	81.90	1030	128.90	396	185.90	866
37.00	8139	82.90	514	129.90	671	193.10	63
38.00	8236	84.10	175	131.10	269	193.90	70
39.00	5159	85.00	203	131.80	109	196.80	74
40.00	1374	85.90	294	132.80	64	198.10	63
41.10	2879	87.00	7074	133.90	143	203.70	57
42.00	3273	87.90	6482	134.90	402	204.00	52
43.00	4025	89.80	123	135.50	96	204.90	93
44.00	2171	90.90	797	136.90	371	205.80	68
45.00	2809	92.00	4596	138.90	155	207.20	80
46.00	343	93.00	6744	139.70	287	208.10	101
47.00	2170	94.00	19704	140.90	2081	208.90	83
47.90	1204	95.00	158656	141.80	1152	214.10	63
49.00	7388	96.00	10471	142.90	2018	218.10	99
50.00	30456	97.10	529	143.80	183	218.70	91
51.00	9792	98.00	1479	144.90	469	219.60	74
52.00	762	99.00	254	145.80	274	224.40	73
53.10	381	99.50	84	146.80	155	224.90	61
54.10	551	100.80	57	147.80	582	226.40	92
55.00	4217	101.20	82	148.80	199	226.70	92
56.00	2801	101.80	82	149.80	241	230.10	55
57.00	4731	102.60	195	150.70	51	233.90	148
58.00	1162	103.90	814	151.90	112	235.60	114
59.00	4084	104.90	403	152.80	367	236.70	65
59.90	1842	105.90	753	153.60	111	240.90	53
61.00	7526	106.80	474	153.90	105	244.80	80
62.00	7954	107.70	74	154.90	598	249.20	73
63.00	5947	108.90	331	155.70	135	250.00	85
64.00	779	109.70	250	156.80	390	261.10	83
64.90	573	110.60	157	157.90	113	264.30	65
66.20	297	111.10	132	158.90	169	266.90	71
66.90	941	111.90	220	160.90	191	277.40	81
68.00	17664	112.90	305	166.00	89	285.10	82
69.00	18352	114.80	245	167.90	141	287.50	60
70.00	2211	115.90	628	168.30	157	292.40	66
70.90	304	116.80	1168	169.10	103	292.90	75
71.90	925	117.90	707	169.90	163	293.50	60
73.00	7761	118.90	910	170.90	889	295.60	61
74.00	27352	120.00	193	172.00	842	301.10	66
75.00	79392	121.80	57	173.90	155840	310.40	64
76.00	6708	122.70	67	175.00	12583	331.30	60
76.90	1183	123.80	200	175.90	148352	333.50	62
77.90	731	124.90	156	176.90	10281	338.80	68
78.90	4510	125.70	110	177.80	296		
80.00	1658	126.90	1036	182.90	60		

80.90	4872	127.90	852	184.90	159		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062603.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062603.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 26-JUN-2023 13:42
Operator : PC Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	532462	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	211006	50.0000	42.90
3 Chloromethane	50	1.295	1.295	(0.269)	430536	50.0000	53.70
5 Vinyl Chloride	62	1.378	1.378	(0.286)	258282	50.0000	45.85
6 Bromomethane	94	1.621	1.621	(0.337)	147208	50.0000	50.86
7 Chloroethane	64	1.700	1.700	(0.353)	186475	50.0000	49.15
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	371506	50.0000	57.43
9 Acrolein	56	2.262	2.262	(0.470)	24611	100.000	87.08
10 Acetone	43	2.405	2.405	(0.499)	239623	100.000	132.80
11 1,1-Dichloroethene	96	2.333	2.333	(0.485)	208385	50.0000	51.55
15 Iodomethane	142	2.468	2.468	(0.513)	253281	100.000	82.32
16 Acrylonitrile	53	3.061	3.061	(0.636)	208247	100.000	105.46
17 Methylene Chloride	84	2.795	2.795	(0.580)	272129	50.0000	56.16
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	705468	50.0000	56.91
19 Carbon Disulfide	76	2.521	2.521	(0.524)	1290822	100.000	119.46
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	241776	50.0000	55.00
21 Vinyl Acetate	43	3.604	3.604	(0.749)	1554979	100.000	116.05
22 1,1-Dichloroethane	63	3.514	3.514	(0.730)	435514	50.0000	52.13
24 2-Butanone	43	4.257	4.257	(0.884)	250984	100.000	103.38
26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	331777	50.0000	59.99(M)

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	286297	50.0000	54.44
28 Chloroform	83	4.571	4.571 (0.949)	461703	50.0000	53.10

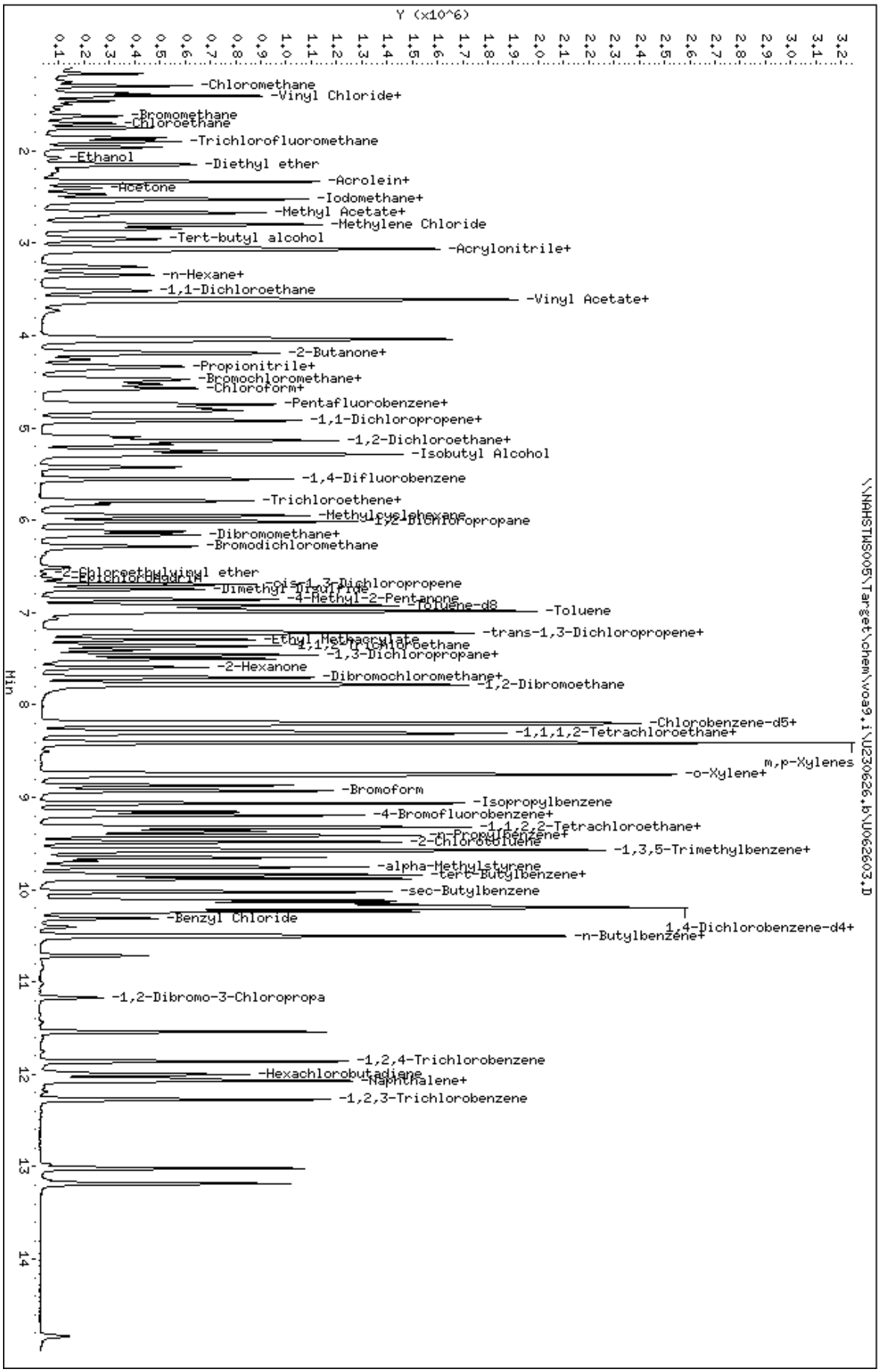
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	152710	50.0000	51.91
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	231758	50.0000	51.86
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	360111	50.0000	54.34
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	305933	50.0000	54.62
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	390890	50.0000	59.09
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	291756	50.0000	56.70
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	257781	50.0000	53.34
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	764238	50.0000	
	37 Benzene	78	5.137	5.137	(0.925)	975498	50.0000	52.97
	38 Trichloroethene	130	5.790	5.790	(1.043)	277266	50.0000	51.94
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	341269	50.0000	59.40
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	9227	100.000	66.40
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	263607	50.0000	53.61
	44 Dibromomethane	93	6.120	6.120	(1.102)	174141	50.0000	55.42
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	557869	100.000	101.55
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	411727	50.0000	53.36
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	754373	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	831059	50.0000	48.67
	50 Toluene	91	6.982	6.982	(0.853)	1059502	50.0000	51.78
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	356162	50.0000	54.92
	52 2-Hexanone	43	7.593	7.593	(0.928)	379187	100.000	99.11
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	218988	50.0000	51.43
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	457056	50.0000	52.54
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	298657	50.0000	59.12
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	235903	50.0000	47.32
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	277965	50.0000	52.92
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	205526	50.0000	52.37
	59 Chlorobenzene	112	8.211	8.211	(1.003)	750382	50.0000	51.38
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	279575	50.0000	55.70
	61 Ethylbenzene	106	8.309	8.309	(1.015)	344743	50.0000	50.72
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	866703	100.000	107.78
	63 o-Xylene	106	8.747	8.747	(1.069)	425078	50.0000	53.51
	64 Styrene	104	8.762	8.762	(1.071)	734136	50.0000	58.23
	66 Bromoform	173	8.920	8.920	(1.090)	195276	50.0000	57.27
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	988900	50.0000	51.82
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	359055	50.0000	47.64
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	350821	50.0000	52.18
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	400677	50.0000	
	71 1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	351430	50.0000	53.00
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	1085074	50.0000	51.62
	74 Bromobenzene	156	9.317	9.317	(0.916)	337368	50.0000	49.90
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	737764	50.0000	51.16
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	731268	50.0000	49.49
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	846462	50.0000	51.76
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	683979	50.0000	48.29
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	741155	50.0000	49.12
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	883500	50.0000	49.19
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	748369	50.0000	49.74
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	563345	50.0000	49.06
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	597114	50.0000	48.77
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	634903	50.0000	49.29
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	566046	50.0000	49.16

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	54424	50.0000	49.48
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	379490	50.0000	47.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	154425	50.0000	48.28
92	Naphthalene	128	12.069	12.069	(1.186)	907326	50.0000	49.32
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	368222	50.0000	47.56
M 94	1,2-Dichloroethylene (total)	96				528073	100.000	(a)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	63425	1000.00	599.89
141	Cyclohexane	56	4.785	4.785	(0.994)	293902	50.0000	45.03
138	Freon TF	101	2.333	2.333	(0.485)	197604	50.0000	55.25
140	1,3-Butadiene	54	1.404	1.404	(0.292)	233835	50.0000	46.37
147	Methylcyclohexane	55	5.947	5.947	(1.071)	556996	50.0000	52.53
146	Methyl Acetate	43	2.708	2.708	(0.563)	221768	50.0000	49.46
148	Tert-Butyl alcohol	59	2.956	2.956	(0.614)	547347	1000.00	1113.11
149	Isopropyl Alcohol	45	2.551	2.551	(0.530)	345083	1000.00	991.37
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	63613	50.0000	73.23
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	770791	1000.00	1114.15
13	Acetonitrile	39	2.671	2.671	(0.555)	306298	500.000	531.32
14	Allyl Chloride	41	2.671	2.671	(0.555)	680198	50.0000	49.20
25	Methacrylonitrile	41	4.493	4.493	(0.933)	273176	50.0000	86.83
40	Methyl Methacrylate	41	6.157	6.157	(1.279)	239557	50.0000	52.32
4	Propionitrile	54	4.331	4.331	(0.900)	381107	500.000	495.31
131	Methyl Acrylate	55	4.365	4.365	(0.907)	301362	50.0000	53.51
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	367851	50.0000	54.90
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	748024	50.0000	48.56
156	Diisopropyl ether	45	3.615	3.615	(0.751)	814541	50.0000	54.86

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230626.b\U062603.D
Date : 26-JUN-2023 13:42
Client ID: CCV
Sample Info: CCV;CCV;2;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

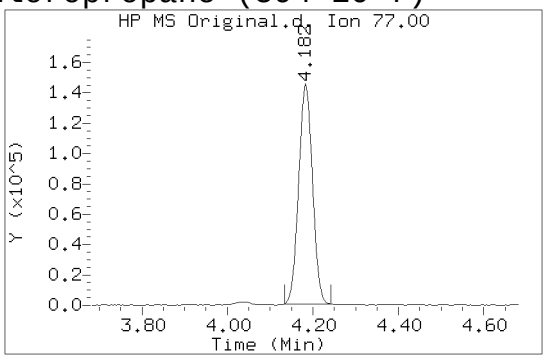
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Inj Date : 26-JUN-2023 13:42
InstruID : VOA9.i
LabSampID : CCV

2,2-Dichloropropane (594-20-7)

Reason Code:

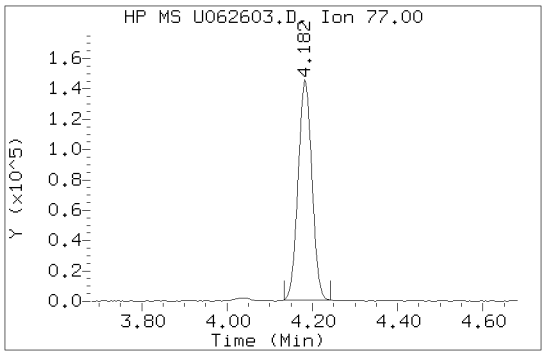
BEFORE

MASS
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AREA
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HEIGHT
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03-Jul-2023
12:31
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pham



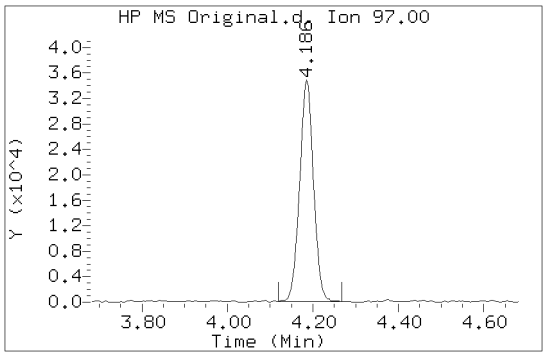
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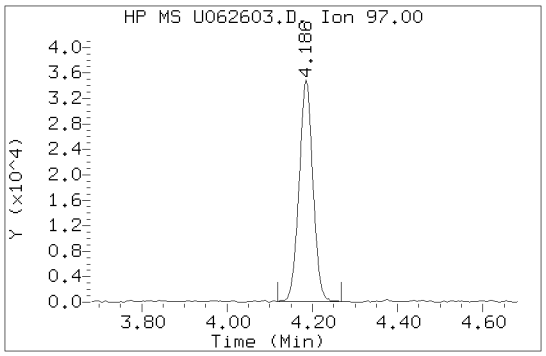
BEFORE

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03-Jul-2023
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pham



AFTER

MASS
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AREA
80153
HEIGHT
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03-Jul-2023
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ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062604.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 26-JUN-2023 14:04
Operator : PC Inst ID: VOA9.i
Smp Info : CCB;CCB;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	4.815	(1.000)	627946	50.0000	
$ 30 Dibromofluoromethane	113	4.751	4.748	(0.986)	257763	48.8976	48.89
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	294120	51.5920	51.59
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	846767	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	775132	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	951440	54.2333	54.23
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	330661	47.7982	47.79
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	387493	50.0000	

01199736

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062604.D

Page 1

Date : 26-JUN-2023 14:04

Client ID: CCB

Instrument: VOA9.i

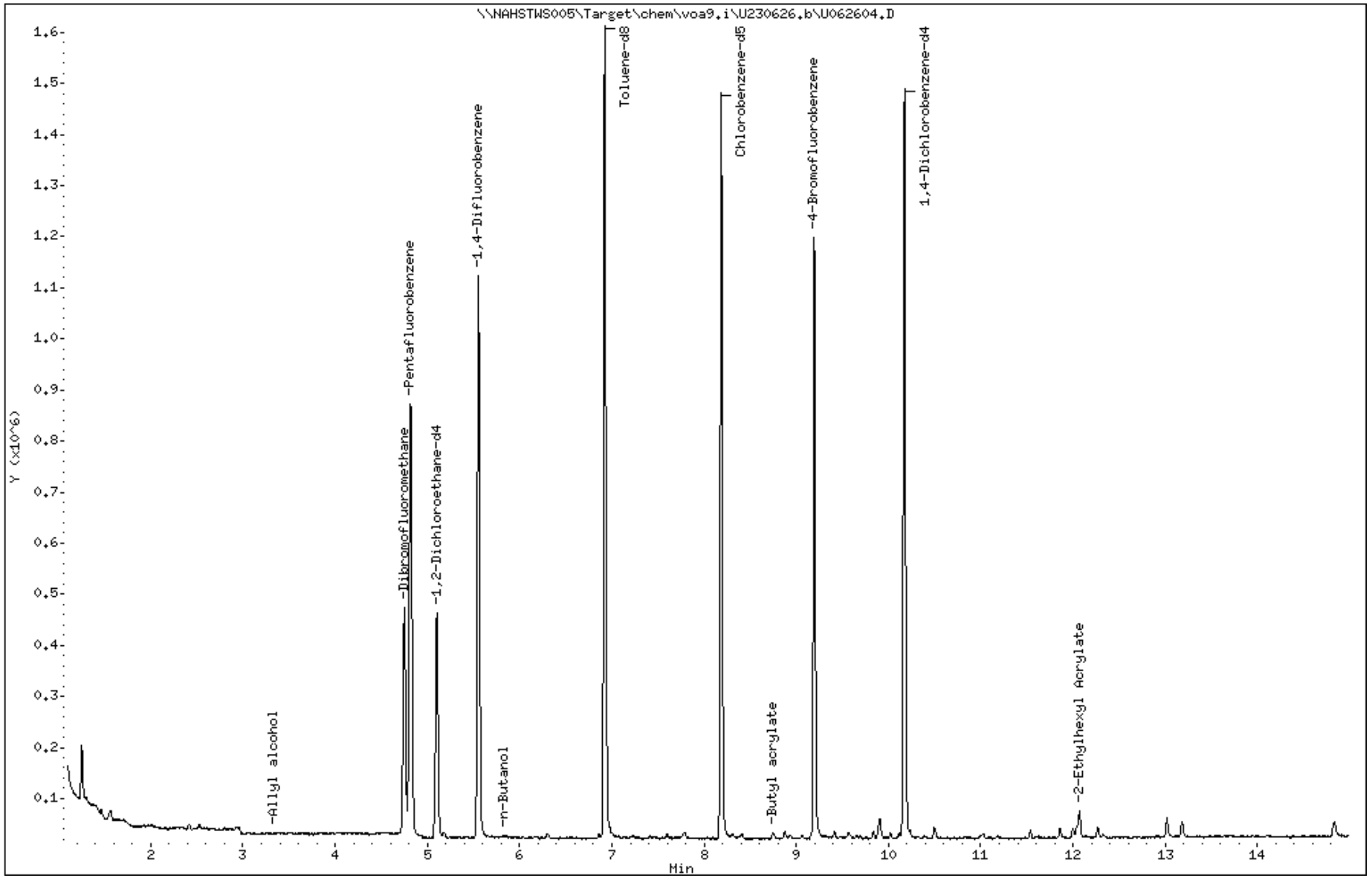
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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InstruID : VOA9.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062605.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062605.D
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Inj Date : 26-JUN-2023 14:27
Operator : PC Inst ID: VOA9.i
Smp Info : VLCSW-230626;VLCSW-230626;3;;LCS
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	529977	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	83135	17.0306	17.03
3	Chloromethane	50	1.295	1.295	(0.269)	177671	21.4785	21.47
5	Vinyl Chloride	62	1.378	1.378	(0.286)	106527	19.0030	19.00
6	Bromomethane	94	1.618	1.621	(0.336)	60865	20.0530	20.05
7	Chloroethane	64	1.700	1.700	(0.353)	76427	20.2390	20.23
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	147924	22.9754	22.97
9	Acrolein	56	2.262	2.262	(0.470)	12206	43.3910	43.39
10	Acetone	43	2.409	2.405	(0.500)	112989	59.9119	59.91
11	1,1-Dichloroethene	96	2.330	2.333	(0.484)	84613	21.0332	21.03
15	Iodomethane	142	2.469	2.468	(0.513)	79785	33.4290	33.42
16	Acrylonitrile	53	3.065	3.061	(0.636)	86715	44.1206	44.12
17	Methylene Chloride	84	2.795	2.795	(0.580)	107897	21.7556	21.75
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	292297	23.6941	23.69
19	Carbon Disulfide	76	2.521	2.521	(0.524)	518972	48.2566	48.25
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	97868	22.3702	22.37
21	Vinyl Acetate	43	3.608	3.604	(0.749)	593397	44.4954	44.49
22	1,1-Dichloroethane	63	3.514	3.514	(0.730)	173996	20.9276	20.92
24	2-Butanone	43	4.264	4.257	(0.886)	104917	43.4198	43.41
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	131969	24.2145	24.21

27	cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	113220	21.6321	21.63
28	Chloroform	83	4.572	4.571 (0.949)	186537	21.5567	21.55

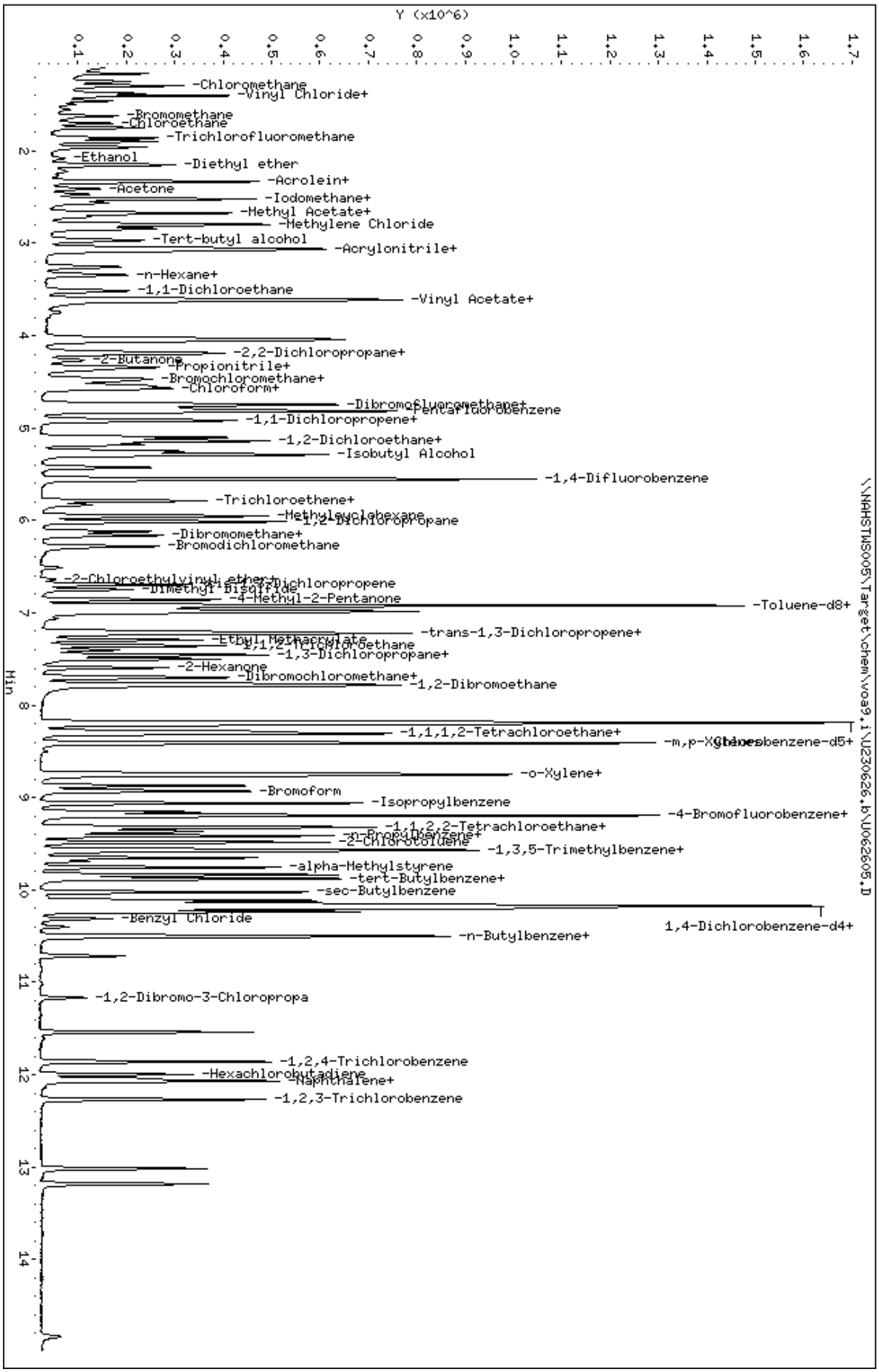
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	29 Bromochloromethane	128	4.467	4.470	(0.928)	62067	21.2001	21.20
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	231172	51.9796	51.97
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	147967	22.4352	22.43
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	119866	21.0526	21.05
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	161498	24.0175	24.01
	34 Carbon Tetrachloride	117	4.909	4.913	(0.884)	115196	22.0261	22.02
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	255143	53.0472	53.04
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	776892	50.0000	
	37 Benzene	78	5.138	5.137	(0.925)	390082	20.8373	20.83
	38 Trichloroethene	130	5.790	5.790	(1.043)	111602	20.5681	20.56
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	134645	23.0573	23.05
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	1921	13.6006	13.60(a)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	106516	21.3101	21.31
	44 Dibromomethane	93	6.120	6.120	(1.102)	71059	22.2498	22.24
	45 4-Methyl-2-Pentanone	43	6.858	6.854	(0.838)	223144	40.7992	40.79
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	150716	20.4393	20.43
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	751063	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	848520	49.9167	49.91
	50 Toluene	91	6.982	6.982	(0.853)	434303	21.3200	21.31
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	126494	20.5055	20.50
	52 2-Hexanone	43	7.593	7.593	(0.928)	157492	41.3484	41.34
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	86184	20.3334	20.33
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	183321	21.1693	21.16
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	114725	22.8123	22.81
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	100239	20.1968	20.19
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	110231	21.0823	21.08
	58 1-Chlorohexane	55	8.197	8.196	(1.476)	83757	20.9957	20.99
	59 Chlorobenzene	112	8.212	8.211	(1.003)	309607	21.2957	21.29
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.286	(1.012)	113502	22.7146	22.71
	61 Ethylbenzene	106	8.309	8.309	(1.015)	139355	20.5943	20.59
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	346125	43.2345	43.23
	63 o-Xylene	106	8.748	8.747	(1.069)	168624	21.3208	21.32
	64 Styrene	104	8.763	8.762	(1.071)	287195	22.8819	22.88
	66 Bromoform	173	8.920	8.920	(1.090)	74834	22.0448	22.04
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	396943	20.8958	20.89
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.328	(0.917)	147606	19.2939	19.29
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	353032	52.7597	52.75
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	406714	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.366	(0.920)	136123	20.2253	20.22
	73 n-Propylbenzene	91	9.411	9.415	(0.925)	430078	20.1598	20.15
	74 Bromobenzene	156	9.317	9.317	(0.916)	138055	20.1177	20.11
	75 1,3,5-Trimethylbenzene	105	9.561	9.565	(0.940)	297387	20.3192	20.31
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	301806	20.1248	20.12
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	351750	21.1901	21.19
	78 tert-Butylbenzene	119	9.839	9.838	(0.967)	283492	19.7216	19.72
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	315344	20.5923	20.59
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	352469	19.3349	19.33
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	298942	19.5742	19.57
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	230054	19.7381	19.73
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	245544	19.7589	19.75
	87 n-Butylbenzene	91	10.495	10.494	(1.032)	250233	19.1393	19.13
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	233140	19.9503	19.95

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	20444	18.3129	18.31
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	151468	18.8440	18.84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	58601	18.0528	18.05
	92 Naphthalene	128	12.069	12.069	(1.186)	353441	18.9297	18.92
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	147295	18.7446	18.74
M	94 1,2-Dichloroethylene (total)	96				211088	44.0023	44.00
M	95 Xylenes (total)	106				514749	64.5553	64.55
	135 1,4-Dioxane	88	6.172	6.168	(1.282)	29292	278.352	278.35
	141 Cyclohexane	56	4.782	4.785	(0.993)	117881	18.5128	18.51
	138 Freon TF	101	2.334	2.333	(0.485)	77261	21.7064	21.70
	140 1,3-Butadiene	54	1.400	1.404	(0.291)	93733	18.6753	18.67
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	230566	21.3942	21.39
	146 Methyl Acetate	43	2.712	2.708	(0.563)	89570	20.0719	20.07
	148 Tert-Butyl alcohol	59	2.967	2.956	(0.616)	231773	470.709	470.70
	149 Isopropyl Alcohol	45	2.562	2.551	(0.532)	144717	417.700	417.69
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	21524	24.8895	24.88
	12 Isobutyl Alcohol	43	5.288	5.284	(1.098)	356019	517.029	517.02
	13 Acetonitrile	39	2.671	2.671	(0.555)	131207	228.669	228.66
	14 Allyl Chloride	41	2.671	2.671	(0.555)	291566	21.1902	21.19
	25 Methacrylonitrile	41	4.497	4.493	(0.934)	66282	21.1682	21.16
	40 Methyl Methacrylate	41	6.157	6.157	(1.279)	95541	20.9665	20.96
	4 Propionitrile	54	4.339	4.331	(0.901)	164504	214.805	214.80(a)
	131 Methyl Acrylate	55	4.369	4.365	(0.907)	123303	21.9987	21.99
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	141453	20.7709	20.77
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	342207	21.8891	21.88
	156 Diisopropyl ether	45	3.619	3.615	(0.752)	339806	22.9945	22.99

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062605.D
Date : 26-JUN-2023 14:27
Client ID: VLCSW-230626
Sample Info: VLCSW-230626;VLCSW-230626;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062605.D
Inj Date : 26-JUN-2023 14:27
InstruID : VOA9.i
LabSampID : VLCSW-230626

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062607.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062607.D
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Inj Date : 26-JUN-2023 15:11
Operator : PC Inst ID: VOA9.i
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Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	4.815	(1.000)	602330	50.0000	
$ 30 Dibromofluoromethane	113	4.751	4.748	(0.986)	251487	49.7413	49.74
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	294149	53.8205	53.82
* 36 1,4-Difluorobenzene	114	5.557	5.554	(1.000)	814185	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	745377	50.0000	
$ 48 Toluene-d8	98	6.926	6.922	(0.846)	918325	54.4353	54.43
$ 69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	327169	49.2076	49.20
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	382401	50.0000	

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062607.D

Date : 26-JUN-2023 15:11

Client ID: VBLKW-230626

Instrument: VOA9.i

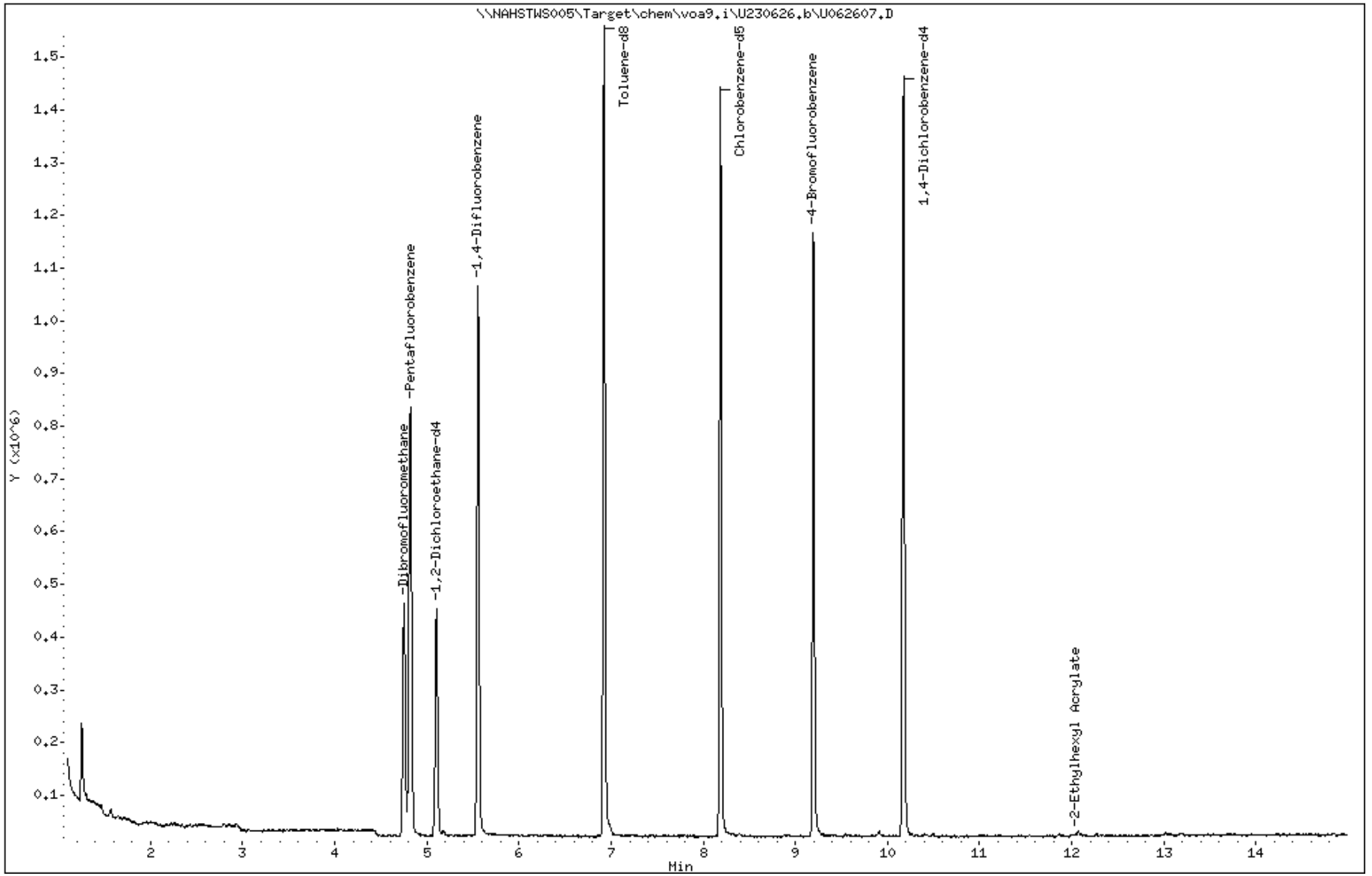
Sample Info: VBLKW-230626;VBLKW-230626;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062607.D
Inj Date : 26-JUN-2023 15:11
InstruID : VOA9.i
LabSampID : VBLKW-230626

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062608.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062608.D
Lab Smp Id: HS23061557-02 Client Smp ID: HS23061557-02
Inj Date : 26-JUN-2023 15:34
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-02;HS23061557-02;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	613000	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	254330	49.4261	49.42
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.059)	296943	53.3805	53.38
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	830999	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	764108	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	923701	53.4118	53.41
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	322556	47.2898	47.28
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	380153	50.0000	

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062608.D

Date : 26-JUN-2023 15:34

Client ID: HS23061557-02

Instrument: VOA9.i

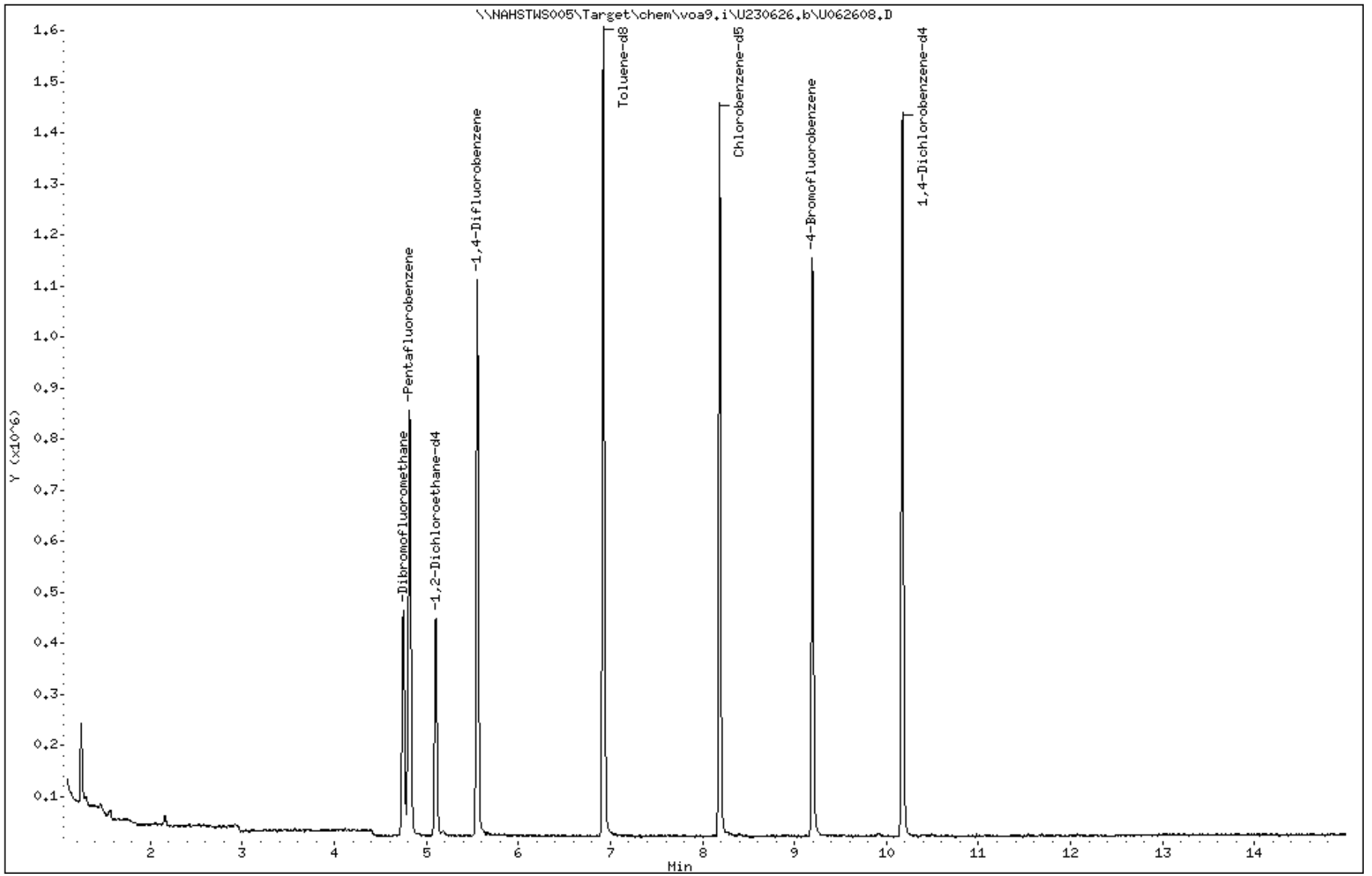
Sample Info: HS23061557-02;HS23061557-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062608.D
Inj Date : 26-JUN-2023 15:34
InstruID : VOA9.i
LabSampID : HS23061557-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062609.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062609.D
Lab Smp Id: HS23061557-02MS Client Smp ID: HS23061557-02MS
Inj Date : 26-JUN-2023 15:56
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-02MS;HS23061557-02MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	4.815	(1.000)	606413	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.164	(0.242)	99407	17.7936	17.79
3	Chloromethane	50	1.299	1.295	(0.270)	200389	21.1521	21.15
5	Vinyl Chloride	62	1.381	1.378	(0.287)	127860	19.9336	19.93
6	Bromomethane	94	1.621	1.621	(0.337)	69159	19.9007	19.90
7	Chloroethane	64	1.704	1.700	(0.354)	90254	20.8880	20.88
8	Trichlorofluoromethane	101	1.899	1.895	(0.394)	190934	25.9177	25.91
9	Acrolein	56	2.270	2.262	(0.471)	9661	30.0149	30.01
10	Acetone	43	2.412	2.405	(0.501)	75315	32.5194	32.51
11	1,1-Dichloroethene	96	2.337	2.333	(0.485)	103390	22.4613	22.46
15	Iodomethane	142	2.472	2.468	(0.513)	72940	28.7382	28.73
16	Acrylonitrile	53	3.068	3.061	(0.637)	93270	41.4742	41.47
17	Methylene Chloride	84	2.798	2.795	(0.581)	119993	21.1161	21.11
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	306611	21.7216	21.72
19	Carbon Disulfide	76	2.525	2.521	(0.524)	566056	46.0003	46.00
20	trans-1,2-Dichloroethene	96	3.061	3.057	(0.635)	114299	22.8328	22.83
21	Vinyl Acetate	43	3.612	3.604	(0.750)	627821	41.1428	41.14
22	1,1-Dichloroethane	63	3.518	3.514	(0.730)	199352	20.9551	20.95
24	2-Butanone	43	4.272	4.257	(0.886)	96711	34.9789	34.97
26	2,2-Dichloropropane	77	4.185	4.182	(0.869)	158980	25.4728	25.47

27 cis-1,2-Dichloroethene	96	4.200	4.197 (0.872)	127894	21.3557	21.35
28 Chloroform	83	4.575	4.571 (0.949)	208444	21.0521	21.05

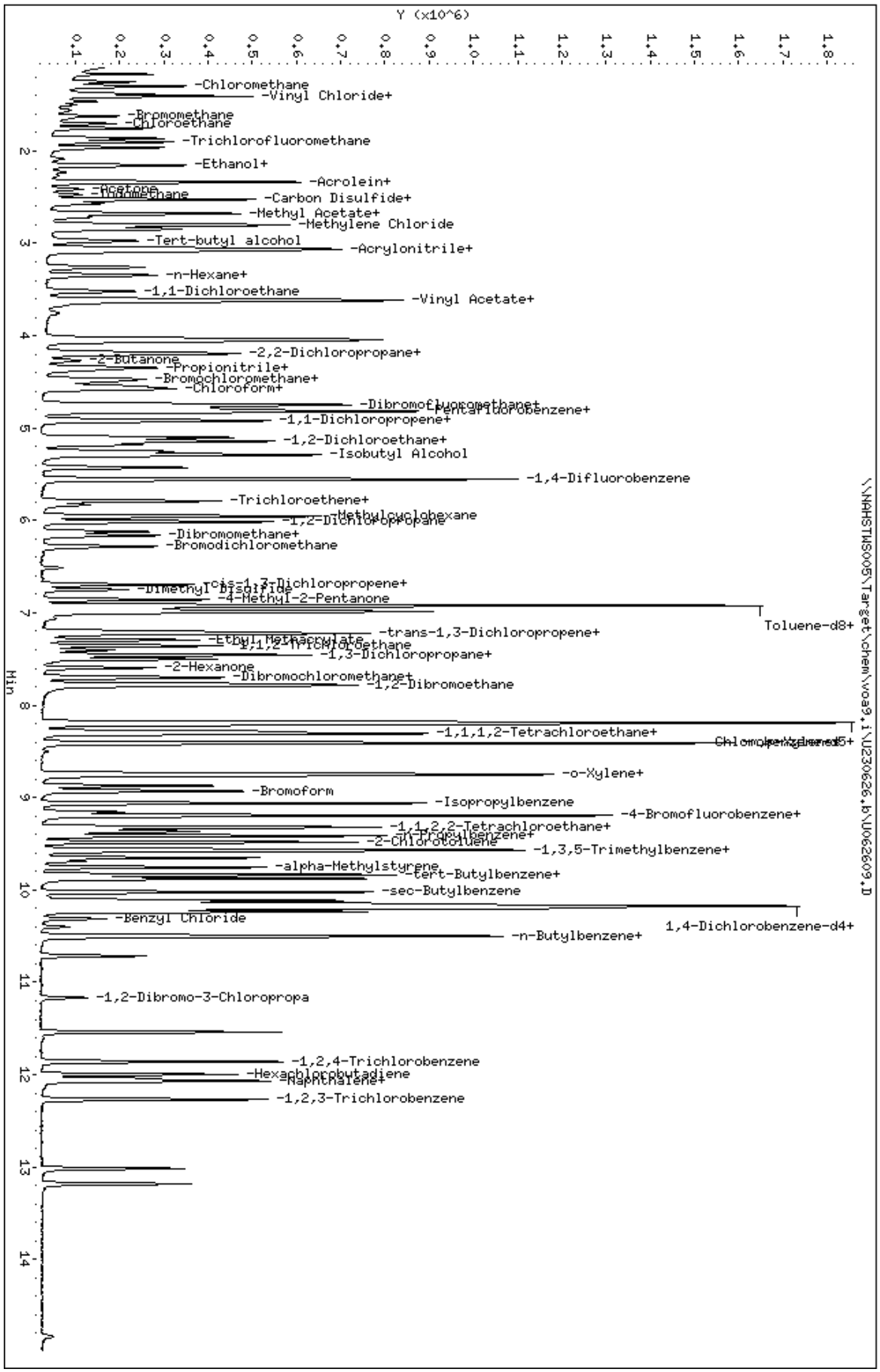
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	65820	19.6482	19.64
$	30 Dibromofluoromethane	113	4.752	4.748	(0.986)	256045	50.3054	50.30
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	178207	23.6145	23.61
	32 1,1-Dichloropropene	75	4.924	4.920	(0.887)	151624	25.3169	25.31
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	173693	24.5570	24.55
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	154476	28.0798	28.07
$	35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	286406	52.0285	52.02
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	817199	50.0000	
	37 Benzene	78	5.141	5.137	(0.926)	445875	22.6428	22.64
	38 Trichloroethene	130	5.790	5.790	(1.043)	132414	23.2001	23.20
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	144575	23.5366	23.53
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	114879	21.8497	21.84
	44 Dibromomethane	93	6.124	6.120	(1.103)	72624	21.6183	21.61
	45 4-Methyl-2-Pentanone	43	6.858	6.854	(0.838)	226213	39.8563	39.85
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	163641	21.0360	21.03
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	779405	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	957114	54.2576	54.25
	50 Toluene	91	6.982	6.982	(0.853)	501264	23.7123	23.71
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	138364	21.2428	21.24
	52 2-Hexanone	43	7.593	7.593	(0.928)	149339	37.7821	37.78
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	94052	21.3828	21.38
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	191074	21.2622	21.26
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	122991	23.5666	23.56
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	131579	25.5473	25.54
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	117163	21.5933	21.59
	58 1-Chlorohexane	55	8.197	8.196	(1.476)	107354	25.5835	25.58
	59 Chlorobenzene	112	8.212	8.211	(1.003)	344883	22.8595	22.85
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.286	(1.012)	124160	23.9440	23.94
	61 Ethylbenzene	106	8.309	8.309	(1.015)	169543	24.1445	24.14
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	422913	50.9051	50.90
	63 o-Xylene	106	8.748	8.747	(1.069)	201680	24.5731	24.57
	64 Styrene	104	8.763	8.762	(1.071)	314242	24.1264	24.12
	66 Bromoform	173	8.920	8.920	(1.090)	79661	22.6134	22.61
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	522124	26.4861	26.48
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.328	(0.917)	158785	20.0614	20.06
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	360265	51.8678	51.86
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	420779	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.366	(0.920)	141992	20.3922	20.39
	73 n-Propylbenzene	91	9.411	9.415	(0.925)	558559	25.3072	25.30
	74 Bromobenzene	156	9.317	9.317	(0.916)	155571	21.9124	21.91
	75 1,3,5-Trimethylbenzene	105	9.561	9.565	(0.940)	368467	24.3343	24.33
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	362392	23.3571	23.35
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	410200	23.8852	23.88
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	370678	24.9248	24.92
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	368728	23.2735	23.27
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	478732	25.3833	25.38
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	394184	24.9477	24.94
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	270728	22.4514	22.45
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	287049	22.3267	22.32
	87 n-Butylbenzene	91	10.495	10.494	(1.032)	334851	24.7553	24.75
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	268776	22.2309	22.23
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	21624	18.7224	18.72

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	174663	21.0033	21.00
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	83212	24.7776	24.77

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	370879	19.1997	19.19
	93 1,2,3-Trichlorobenzene	180	12.268	12.271	(1.206)	164058	20.1800	20.18
M	94 1,2-Dichloroethylene (total)	96				242193	44.1885	44.18
M	95 Xylenes (total)	106				624593	75.4782	75.47
	135 1,4-Dioxane	88	6.172	6.168	(1.281)	29175	242.295	242.29
	141 Cyclohexane	56	4.785	4.785	(0.993)	166183	22.7159	22.71
	138 Freon TF	101	2.337	2.333	(0.485)	107448	26.3824	26.38
	140 1,3-Butadiene	54	1.408	1.404	(0.292)	113562	19.7741	19.77
	147 Methylcyclohexane	55	5.951	5.947	(1.072)	279837	24.6854	24.68
	146 Methyl Acetate	43	2.716	2.708	(0.564)	101169	19.8136	19.81
	148 Tert-Butyl alcohol	59	2.971	2.956	(0.617)	234525	415.689	415.68
	149 Isopropyl Alcohol	45	2.566	2.551	(0.533)	147183	371.271	371.27
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	22965	25.5901	25.59
	12 Isobutyl Alcohol	43	5.291	5.284	(1.098)	366646	465.347	465.34
	13 Acetonitrile	39	2.675	2.671	(0.555)	152156	231.755	231.75
	14 Allyl Chloride	41	2.675	2.671	(0.555)	324647	20.6204	20.62
	25 Methacrylonitrile	41	4.500	4.493	(0.934)	73138	20.4136	20.41
	40 Methyl Methacrylate	41	6.157	6.157	(1.278)	103710	19.8905	19.89
	4 Propionitrile	54	4.343	4.331	(0.901)	169778	193.748	193.74(a)
	131 Methyl Acrylate	55	4.373	4.365	(0.907)	132452	20.6524	20.65
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	156787	21.8870	21.88
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	382003	23.6179	23.61
	156 Diisopropyl ether	45	3.623	3.615	(0.752)	362110	21.4152	21.41

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

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NO MANUAL INTEGRATIONS

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Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062610.D
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Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	644622	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.164	(0.241)	101774	17.1404	17.14
3	Chloromethane	50	1.295	1.295	(0.269)	209946	20.8279	20.82
5	Vinyl Chloride	62	1.374	1.378	(0.285)	138050	20.2465	20.24
6	Bromomethane	94	1.614	1.621	(0.335)	71145	19.1994	19.19
7	Chloroethane	64	1.696	1.700	(0.352)	94099	20.4870	20.48
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	194986	24.8989	24.89
9	Acrolein	56	2.262	2.262	(0.470)	11342	33.1488	33.14
10	Acetone	43	2.408	2.405	(0.500)	83276	34.0547	34.05
11	1,1-Dichloroethene	96	2.330	2.333	(0.484)	105643	21.5904	21.59
15	Iodomethane	142	2.465	2.468	(0.512)	91028	31.9850	31.98
16	Acrylonitrile	53	3.065	3.061	(0.636)	95767	40.0604	40.06
17	Methylene Chloride	84	2.791	2.795	(0.580)	121196	20.0124	20.01
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	317566	21.1642	21.16
19	Carbon Disulfide	76	2.517	2.521	(0.523)	592166	45.2698	45.26
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	115340	21.6751	21.67
21	Vinyl Acetate	43	3.604	3.604	(0.749)	644475	39.7308	39.73
22	1,1-Dichloroethane	63	3.514	3.514	(0.730)	198529	19.6316	19.63
24	2-Butanone	43	4.264	4.257	(0.886)	102166	34.7616	34.76
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	165021	24.8828	24.88

27 cis-1,2-Dichloroethene	96	4.193	4.197 (0.871)	127628	20.0481	20.04
28 Chloroform	83	4.571	4.571 (0.949)	212418	20.1818	20.18

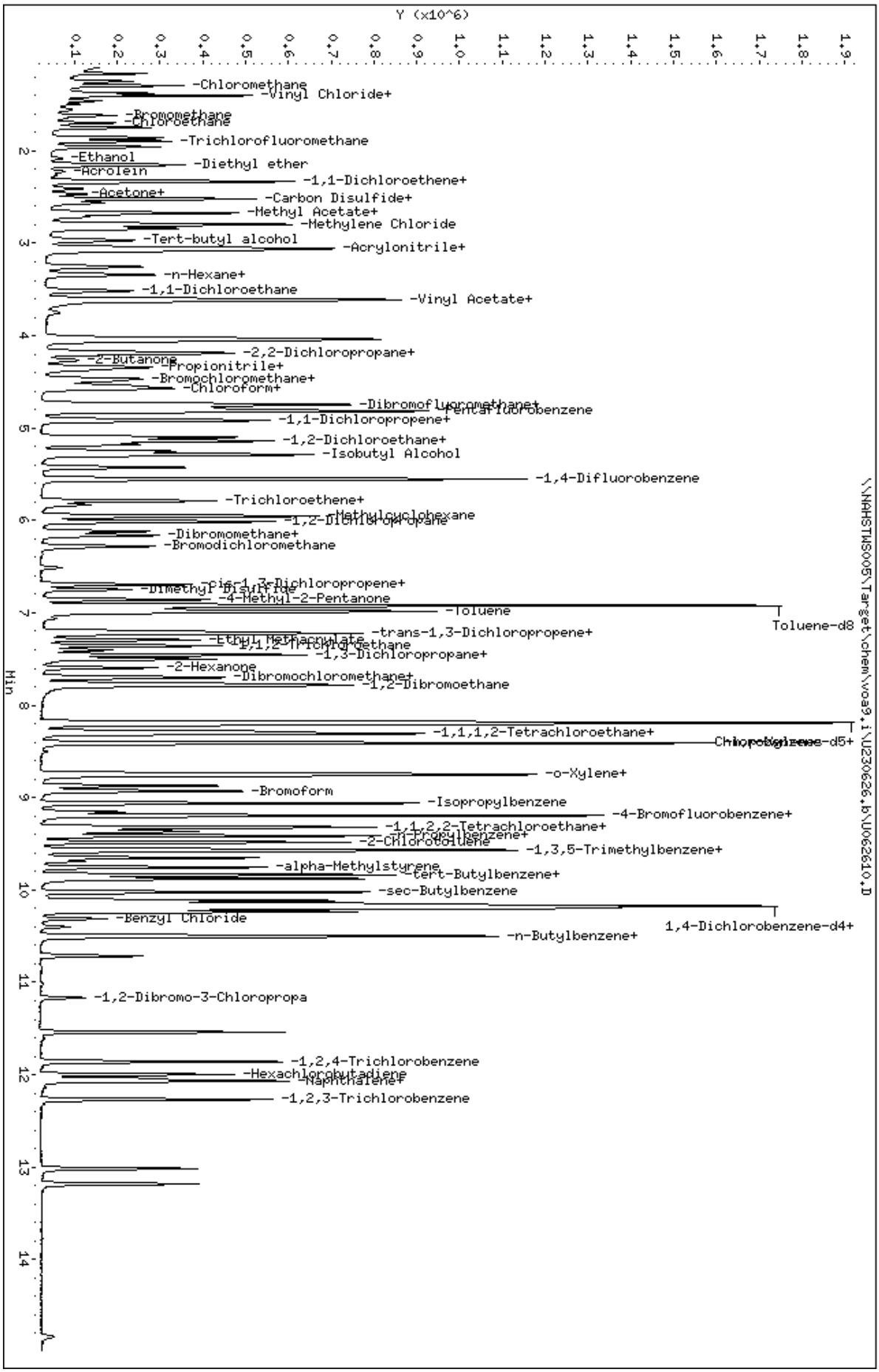
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	29 Bromochloromethane	128	4.467	4.470	(0.928)	67506	18.9570	18.95
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	268198	49.5652	49.56
	31 1,1,1-Trichloroethane	97	4.740	4.744	(0.984)	181542	22.6305	22.63
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	155608	24.4508	24.45
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	174674	23.2402	23.24
	34 Carbon Tetrachloride	117	4.909	4.913	(0.884)	155138	26.5382	26.53
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	299661	51.1990	51.19
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	868378	50.0000	
	37 Benzene	78	5.138	5.137	(0.925)	457027	21.8413	21.84
	38 Trichloroethene	130	5.790	5.790	(1.043)	134856	22.2354	22.23
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	148065	22.6842	22.68
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	118694	21.2448	21.24
	44 Dibromomethane	93	6.120	6.120	(1.102)	77541	21.7216	21.72
	45 4-Methyl-2-Pentanone	43	6.858	6.854	(0.838)	236106	39.5319	39.53
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	172324	20.8638	20.86
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	820167	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1014667	54.6615	54.66
	50 Toluene	91	6.982	6.982	(0.853)	520778	23.4111	23.41
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	143975	20.8435	20.84
	52 2-Hexanone	43	7.593	7.593	(0.928)	154815	37.2209	37.22
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	96032	20.7479	20.74
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	203050	21.4719	21.47
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	125393	22.8327	22.83
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	136072	25.1066	25.10
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	122829	21.5124	21.51
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	111343	24.9703	24.97
	59 Chlorobenzene	112	8.211	8.211	(1.003)	358958	22.6099	22.60
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	126694	23.2184	23.21
	61 Ethylbenzene	106	8.305	8.309	(1.015)	173256	23.4470	23.44
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	424707	48.5803	48.58
	63 o-Xylene	106	8.748	8.747	(1.069)	204777	23.7105	23.71
	64 Styrene	104	8.763	8.762	(1.071)	327712	23.9102	23.91
	66 Bromoform	173	8.920	8.920	(1.090)	81240	21.9155	21.91
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	528836	25.4933	25.49
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.328	(0.917)	160565	19.7376	19.73
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	372121	50.8954	50.89
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	432477	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.366	(0.920)	146137	20.4198	20.41
	73 n-Propylbenzene	91	9.411	9.415	(0.925)	570500	25.1490	25.14
	74 Bromobenzene	156	9.317	9.317	(0.916)	156410	21.4347	21.43
	75 1,3,5-Trimethylbenzene	105	9.561	9.565	(0.940)	378786	24.3391	24.33
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	366736	22.9977	22.99
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	417229	23.6374	23.63
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	380056	24.8642	24.86
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	380407	23.3612	23.36
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	487071	25.1269	25.12
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	402648	24.7941	24.79
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	272384	21.9778	21.97
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	287411	21.7502	21.75
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	348505	25.0678	25.06
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	267372	21.5166	21.51
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	23087	19.4485	19.44

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	180210	21.0842	21.08	
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	83820	24.2836	24.28	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	408799	20.5903	20.59
	93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	172242	20.6136	20.61
M	94 1,2-Dichloroethylene (total)	96				242968	41.7232	41.72
M	95 Xylenes (total)	106				629484	72.2908	72.29
	135 1,4-Dioxane	88	6.168	6.168	(1.281)	30313	236.824	236.82
	141 Cyclohexane	56	4.781	4.785	(0.993)	169966	21.8725	21.87
	138 Freon TF	101	2.334	2.333	(0.485)	107292	24.7826	24.78
	140 1,3-Butadiene	54	1.400	1.404	(0.291)	116482	19.0803	19.08
	147 Methylcyclohexane	55	5.947	5.947	(1.071)	290012	24.0752	24.07
	146 Methyl Acetate	43	2.712	2.708	(0.563)	98003	18.0559	18.05
	148 Tert-Butyl alcohol	59	2.967	2.956	(0.616)	244492	407.573	407.57
	149 Isopropyl Alcohol	45	2.562	2.551	(0.532)	152851	362.715	362.71
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	22553	23.8820	23.88
	12 Isobutyl Alcohol	43	5.287	5.284	(1.098)	379650	453.291	453.29
	13 Acetonitrile	39	2.671	2.671	(0.555)	156896	224.810	224.80
	14 Allyl Chloride	41	2.671	2.671	(0.555)	337038	20.1386	20.13
	25 Methacrylonitrile	41	4.497	4.493	(0.934)	67813	17.8055	17.80
	40 Methyl Methacrylate	41	6.157	6.157	(1.279)	110020	19.8499	19.84
	4 Propionitrile	54	4.339	4.331	(0.901)	175824	188.754	188.75(a)
	131 Methyl Acrylate	55	4.369	4.365	(0.907)	137501	20.1688	20.16
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	166563	21.8813	21.88
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	381600	22.9548	22.95
	156 Diisopropyl ether	45	3.619	3.615	(0.752)	383278	21.3235	21.32

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062610.D
Date : 26-JUN-2023 16:19
Client ID: HS23061557-02HSD
Sample Info: HS23061557-02HSD;HS23061557-02HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062610.D
Inj Date : 26-JUN-2023 16:19
InstruID : VOA9.i
LabSampID : HS23061557-02MSD

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062615.D
Lab Smp Id: HS23061557-09 Client Smp ID: HS23061557-09
Inj Date : 26-JUN-2023 18:11
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-09;HS23061557-09;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	607551	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	259188	50.8308	50.83
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	303822	55.1291	55.12
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	831718	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	770642	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	944666	54.1609	54.16
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	325048	47.2504	47.25
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	388008	50.0000	

01199766

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062615.D

Date : 26-JUN-2023 18:11

Client ID: HS23061557-09

Instrument: VOA9.i

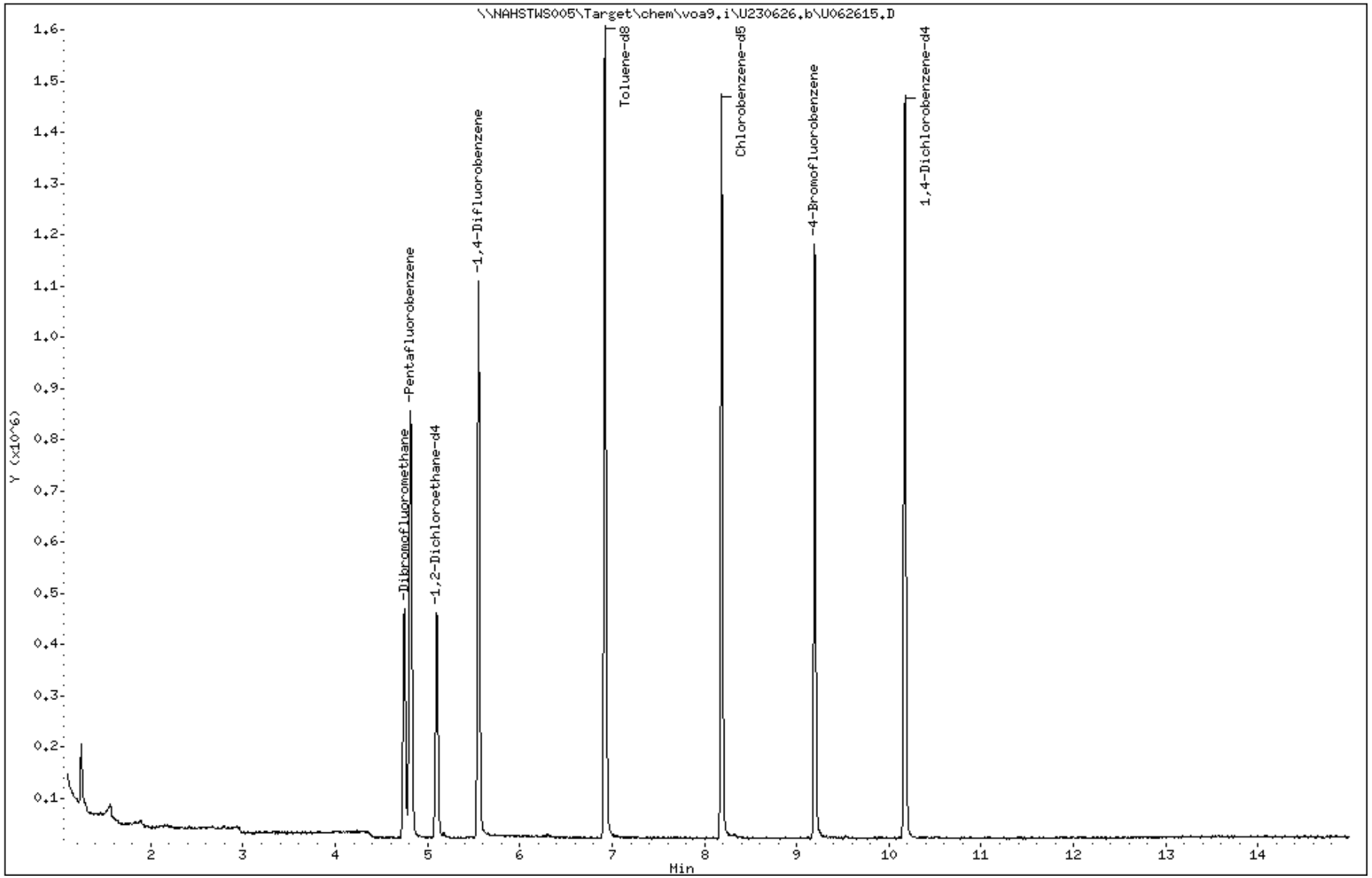
Sample Info: HS23061557-09;HS23061557-09;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062615.D
Inj Date : 26-JUN-2023 18:11
InstruID : VOA9.i
LabSampID : HS23061557-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062616.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062616.D
Lab Smp Id: HS23061557-05 Client Smp ID: HS23061557-05
Inj Date : 26-JUN-2023 18:33
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-05;HS23061557-05;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.812	4.815	(1.000)	612935	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.986)	253894	49.3460	49.34
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	298683	53.7031	53.70
* 36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	836576	50.0000	
38 Trichloroethene	130	5.786	5.790	(1.043)	9444	1.61634	1.61(a)
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	751709	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	935956	55.0131	55.01
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	316266	47.1294	47.12
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	369721	50.0000	
138 Freon TF	101	2.326	2.333	(0.484)	2107	0.51184	0.51(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01199769

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062616.D

Page 1

Date : 26-JUN-2023 18:33

Client ID: HS23061557-05

Instrument: VOA9.i

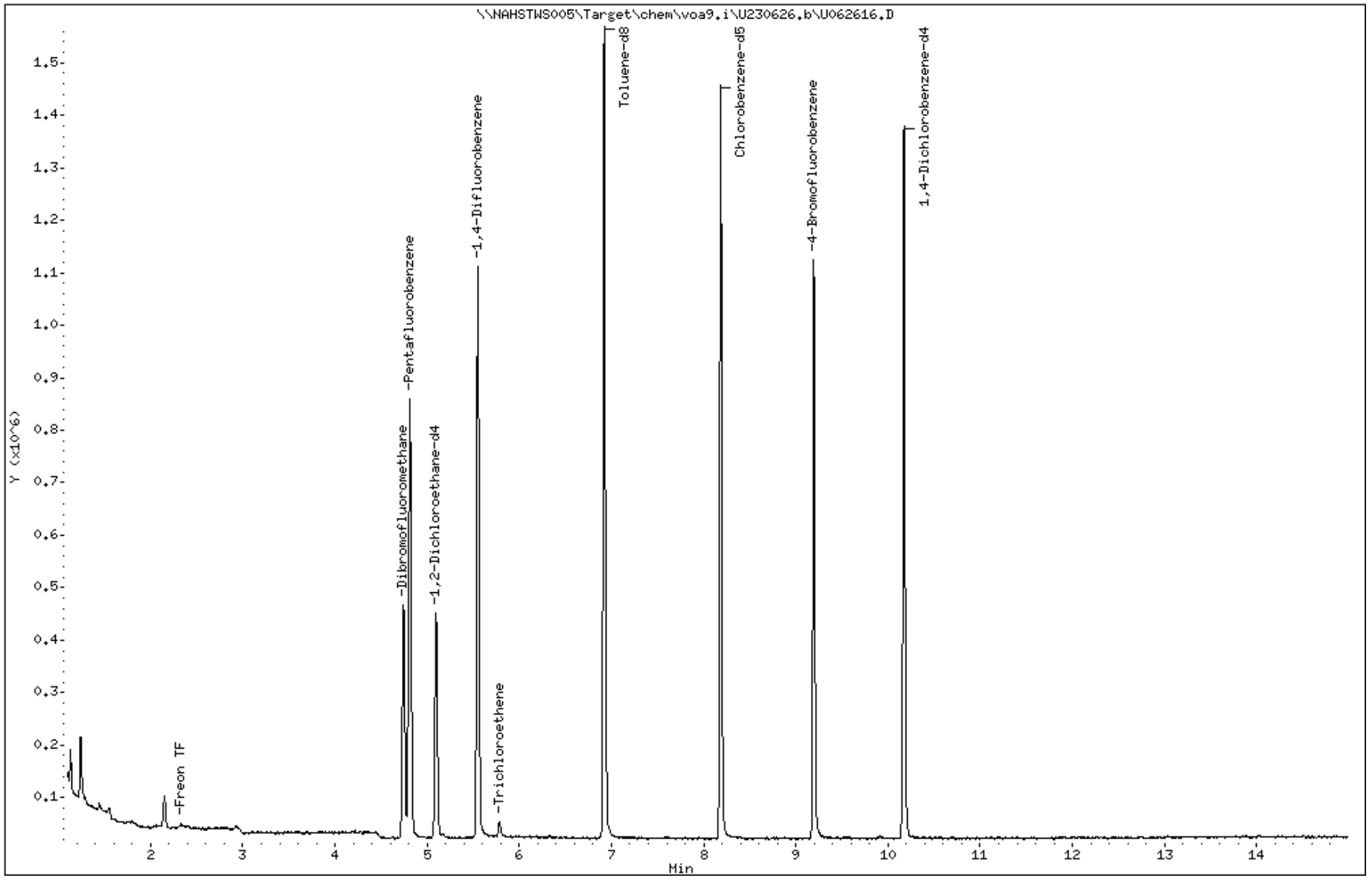
Sample Info: HS23061557-05;HS23061557-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062616.D

Date : 26-JUN-2023 18:33

Client ID: HS23061557-05

Instrument: VOA9.i

Sample Info: HS23061557-05;HS23061557-05;;;

Purge Volume: 5.0

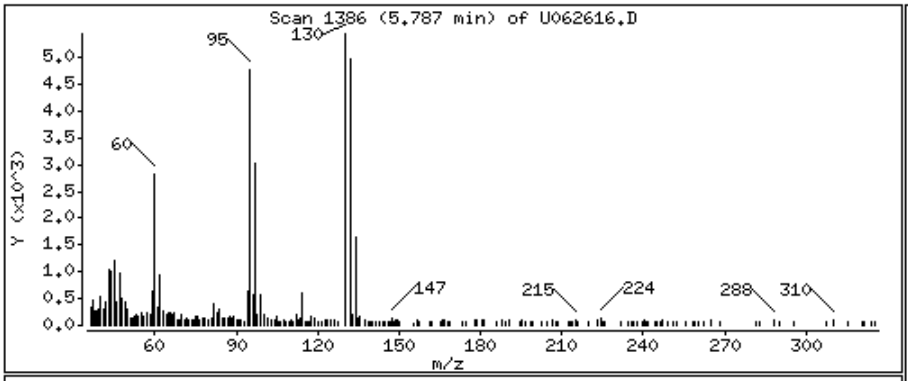
Operator: PC

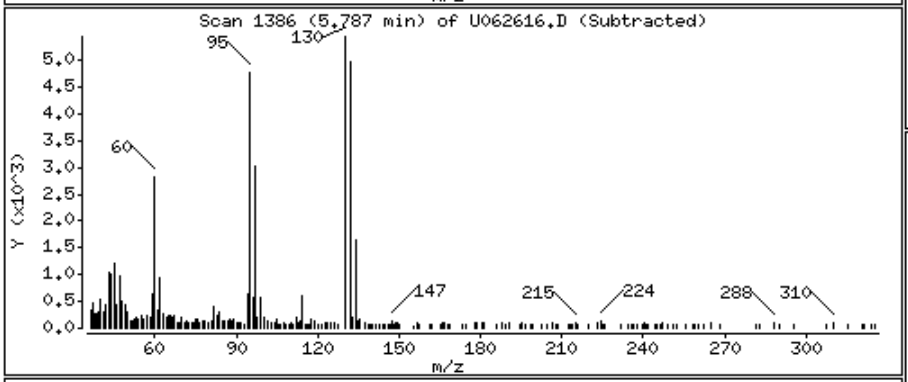
Column phase: DB624

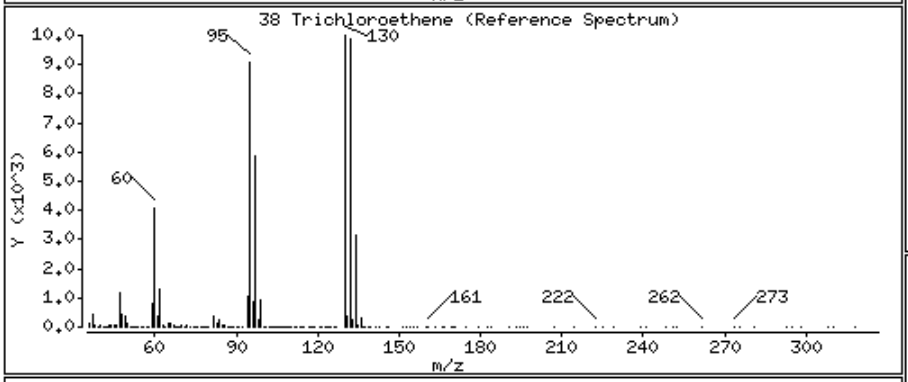
Column diameter: 0.18

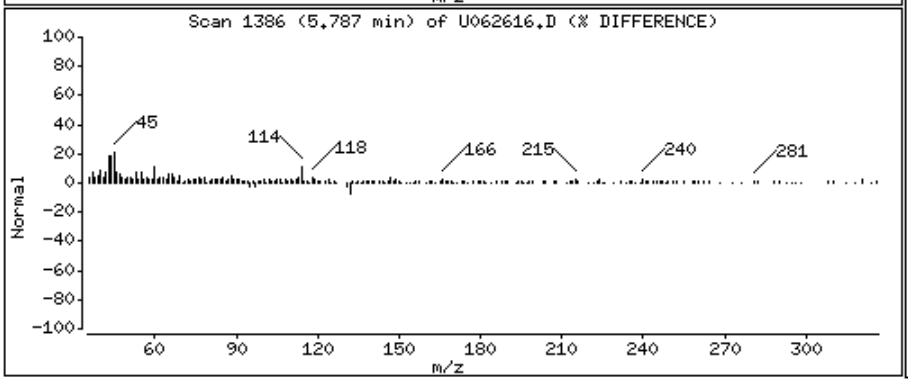
38 Trichloroethene

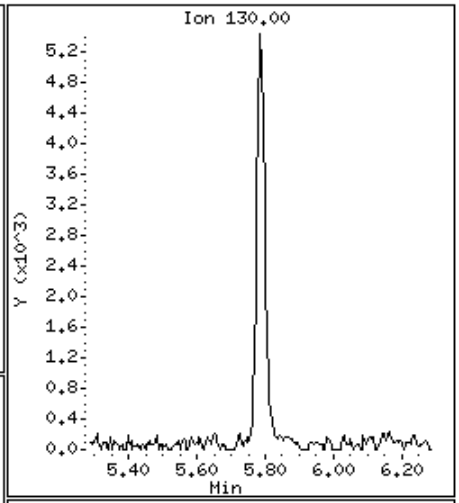
Concentration: 1.61 ug/l

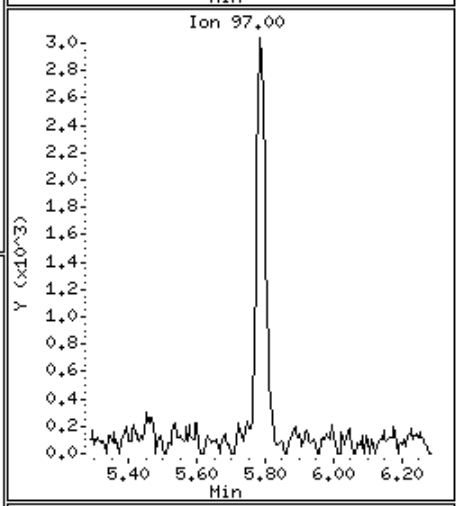


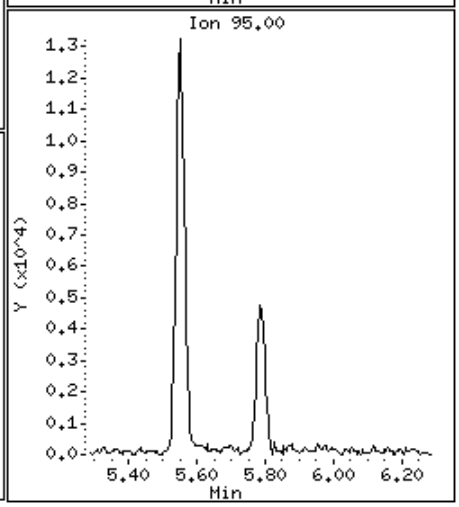












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062616.D

Date : 26-JUN-2023 18:33

Client ID: HS23061557-05

Instrument: VOA9.i

Sample Info: HS23061557-05;HS23061557-05;;;

Purge Volume: 5.0

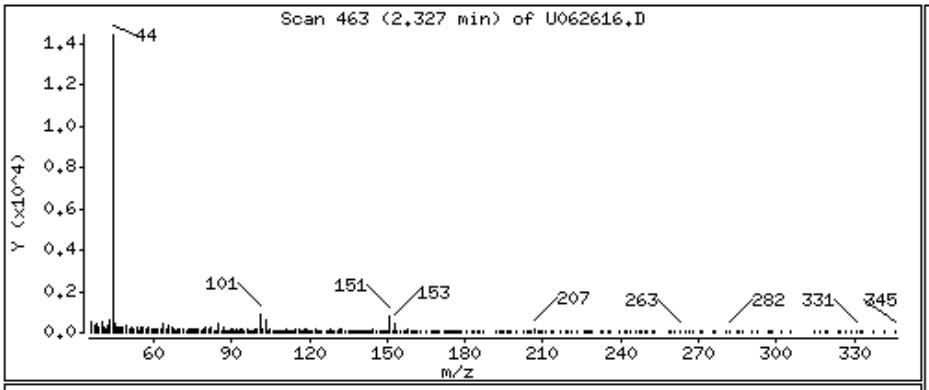
Operator: PC

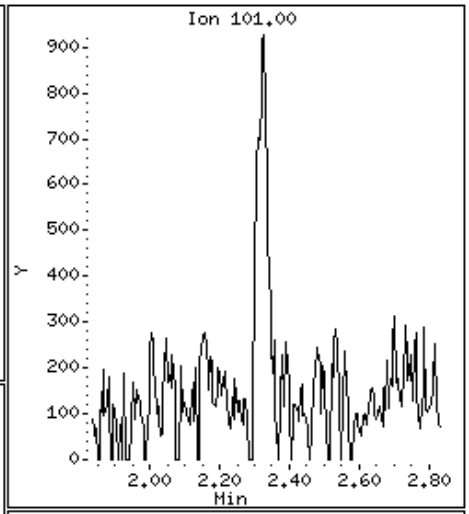
Column phase: DB624

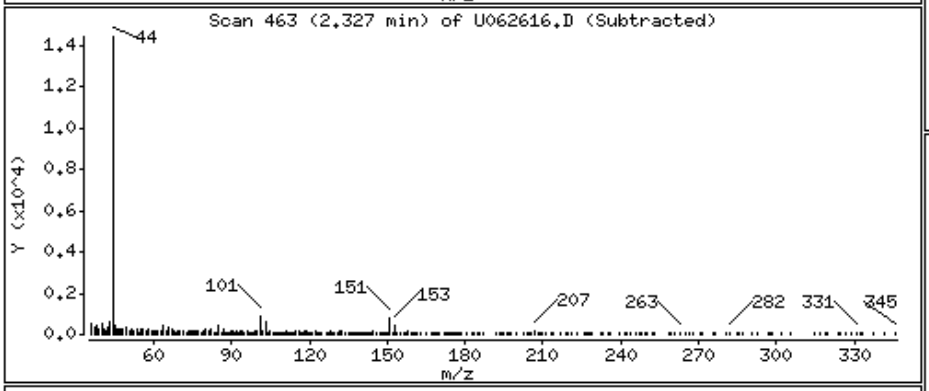
Column diameter: 0.18

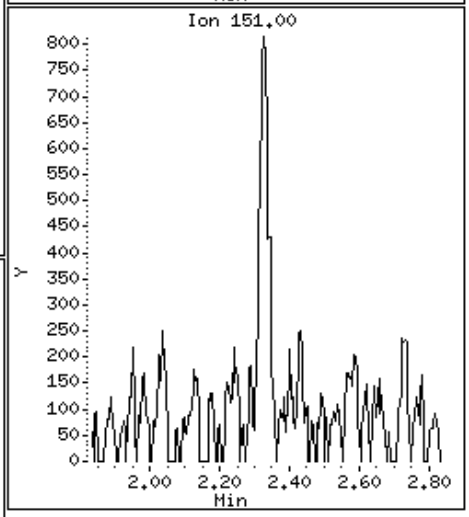
138 Freon TF

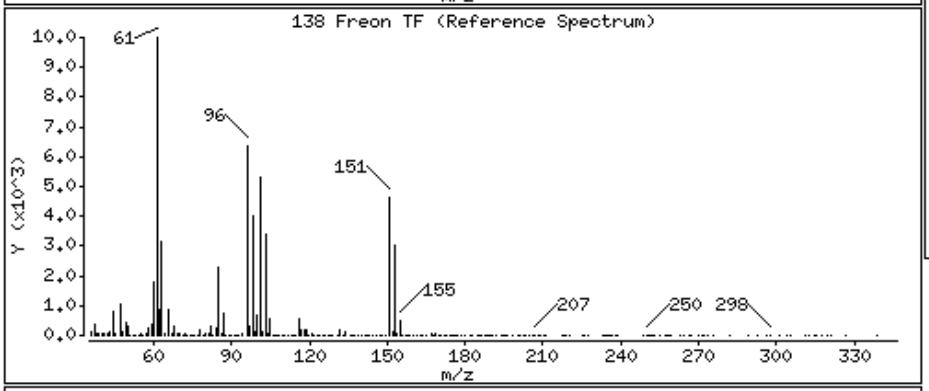
Concentration: 0.51 ug/l

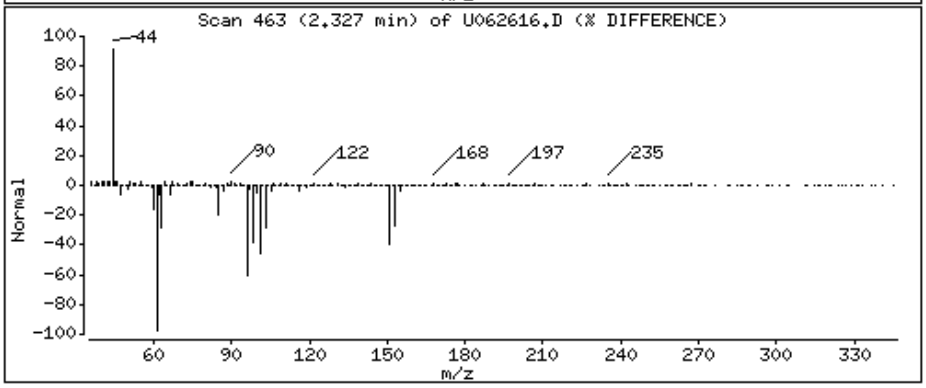












Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062616.D
Inj Date : 26-JUN-2023 18:33
InstruID : VOA9.i
LabSampID : HS23061557-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062617.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062617.D
Lab Smp Id: HS23061557-06 Client Smp ID: HS23061557-06
Inj Date : 26-JUN-2023 18:55
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-06;HS23061557-06;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	597197	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	253068	50.4890	50.48
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	297536	54.9220	54.92
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	813808	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	761752	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	912437	52.9236	52.92
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	321594	47.2947	47.29
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	385509	50.0000	

01199774

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062617.D

Page 1

Date : 26-JUN-2023 18:55

Client ID: HS23061557-06

Instrument: VOA9.i

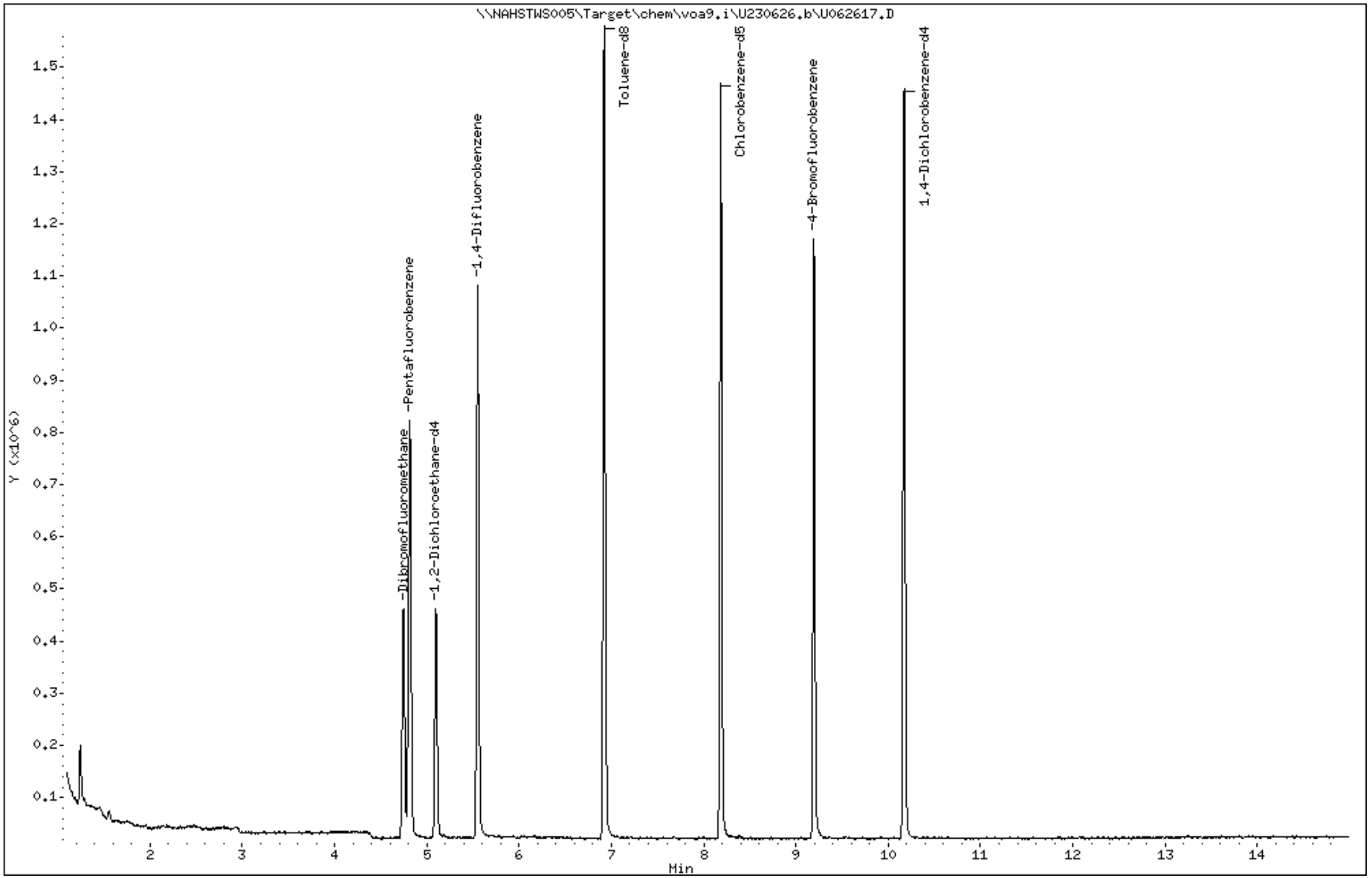
Sample Info: HS23061557-06;HS23061557-06;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062617.D
Inj Date : 26-JUN-2023 18:55
InstruID : VOA9.i
LabSampID : HS23061557-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062618.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062618.D
Lab Smp Id: HS23061557-07 Client Smp ID: HS23061557-07
Inj Date : 26-JUN-2023 19:18
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-07;HS23061557-07;;;
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.812	4.815	(1.000)	609719	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.986)	254792	49.7846	49.78
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	296587	53.6063	53.60
* 36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	819507	50.0000	
38 Trichloroethene	130	5.786	5.790	(1.043)	7432	1.29848	1.29(a)
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	745824	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	925707	54.8400	54.83
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	308581	46.3320	46.33
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	369646	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01199777

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062618.D

Date : 26-JUN-2023 19:18

Client ID: HS23061557-07

Instrument: VOA9.i

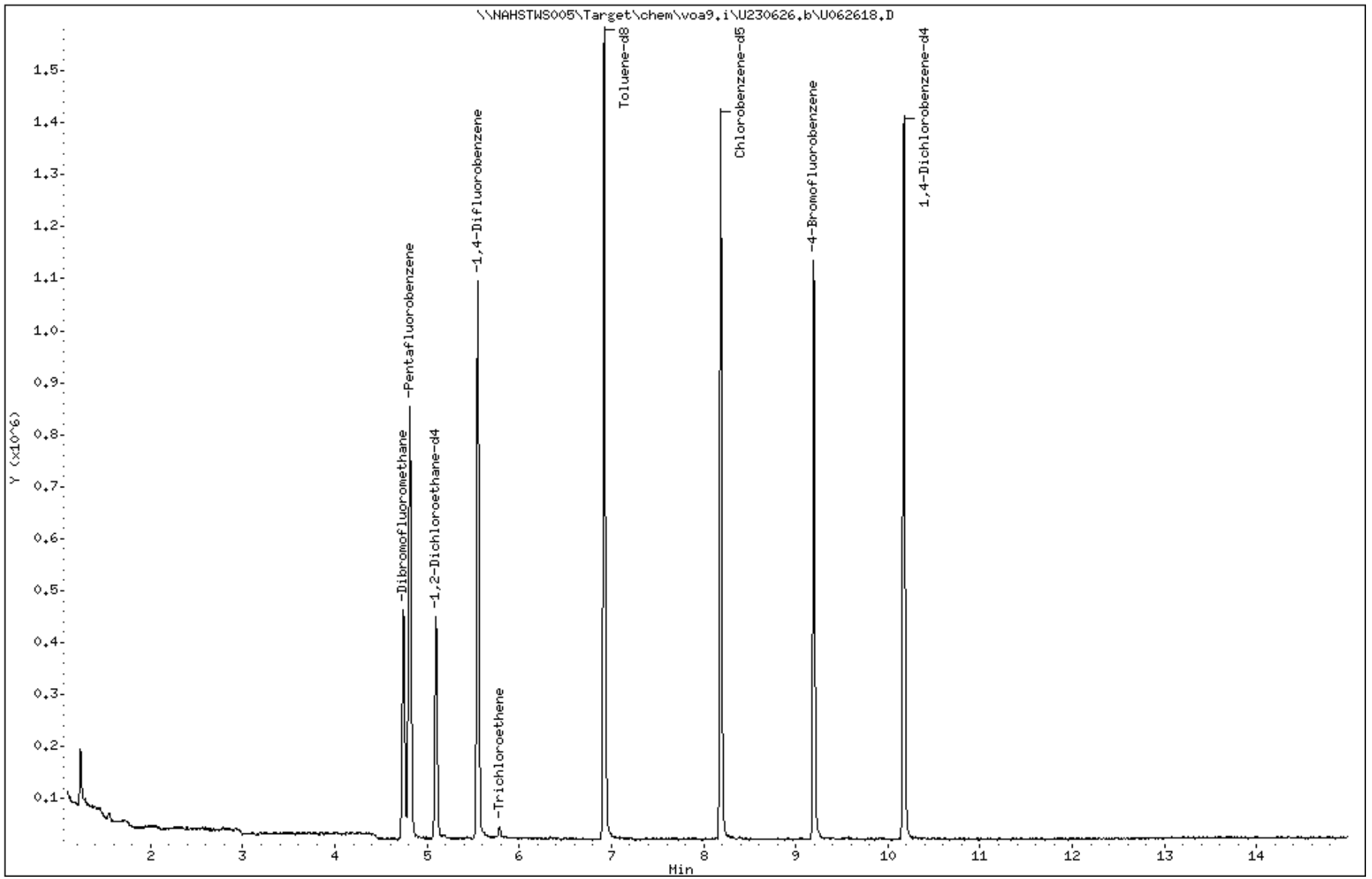
Sample Info: HS23061557-07;HS23061557-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062618.D

Date : 26-JUN-2023 19:18

Client ID: HS23061557-07

Instrument: VOA9.i

Sample Info: HS23061557-07;HS23061557-07;;;

Purge Volume: 5.0

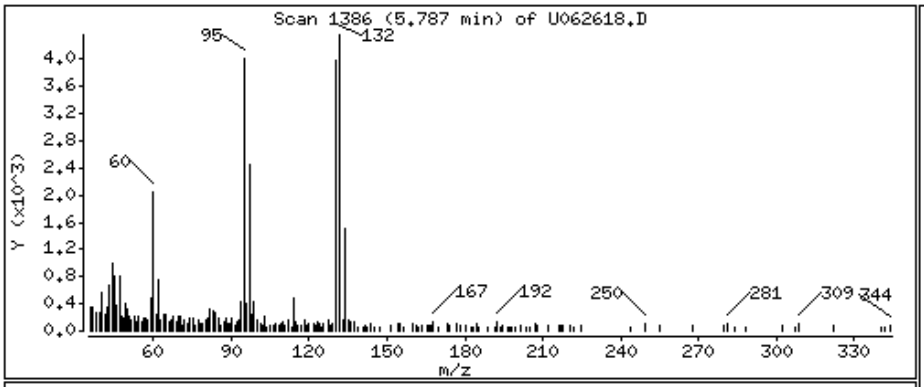
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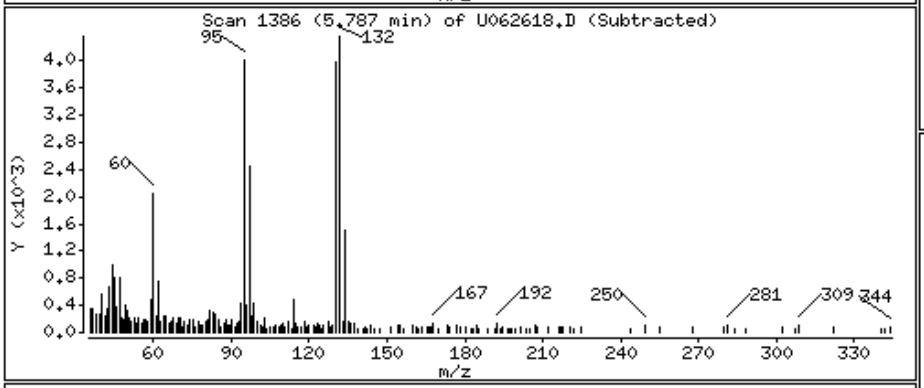
Column phase: DB624

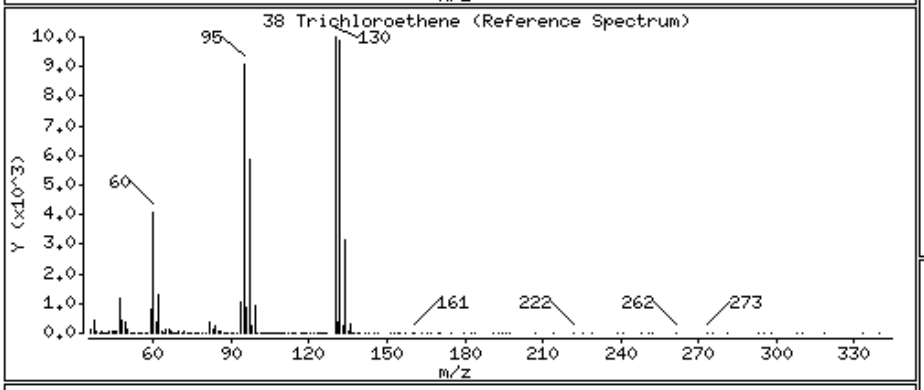
Column diameter: 0.18

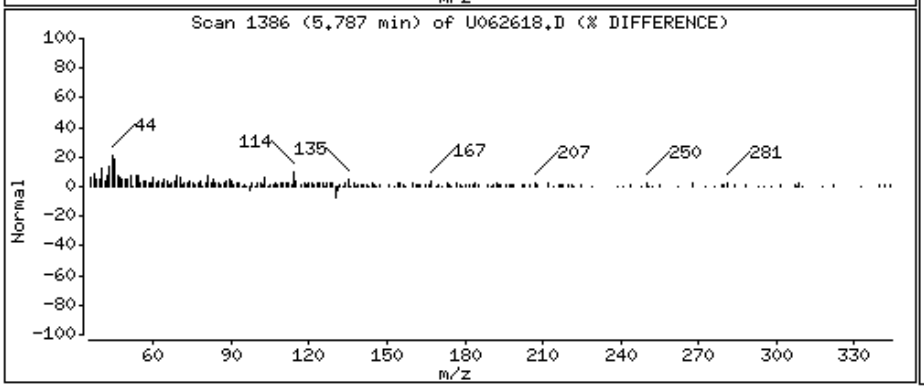
38 Trichloroethene

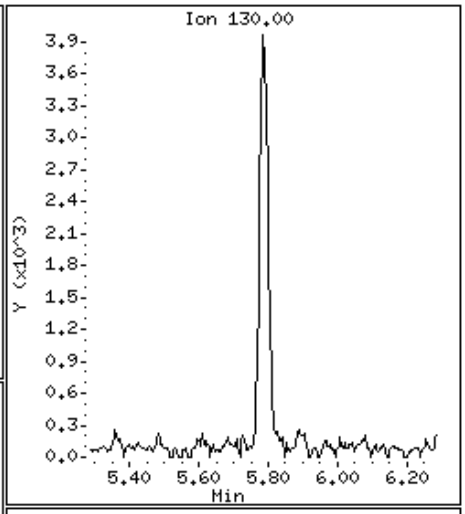
Concentration: 1.29 ug/l

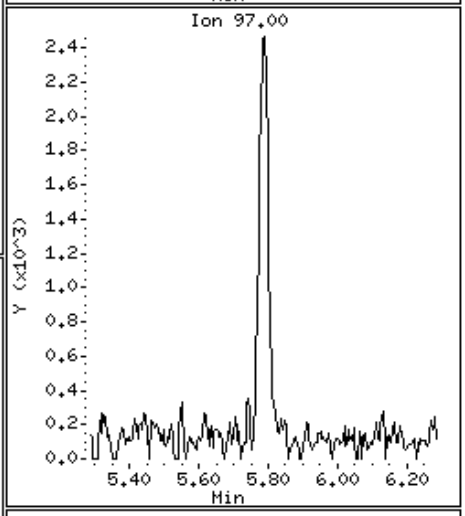


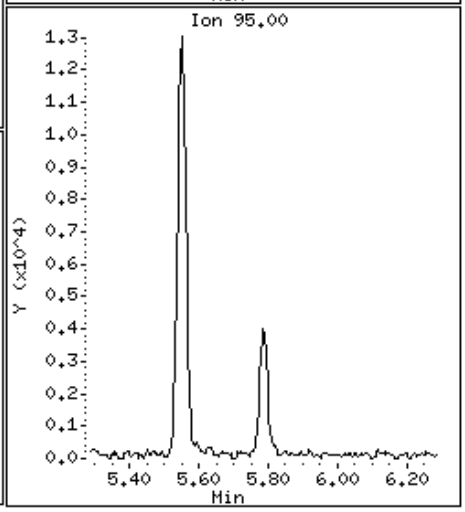












Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062618.D
Inj Date : 26-JUN-2023 19:18
InstruID : VOA9.i
LabSampID : HS23061557-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062619.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062619.D
Lab Smp Id: HS23061557-08 Client Smp ID: HS23061557-08
Inj Date : 26-JUN-2023 19:40
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-08;HS23061557-08;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.812	4.815	(1.000)	614840	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.987)	257663	49.9271	49.92
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	301985	54.1340	54.13
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	832747	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	762644	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	933612	54.0885	54.08
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	324250	47.6359	47.63
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	383573	50.0000	

01199781

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062619.D

Page 1

Date : 26-JUN-2023 19:40

Client ID: HS23061557-08

Instrument: VOA9.i

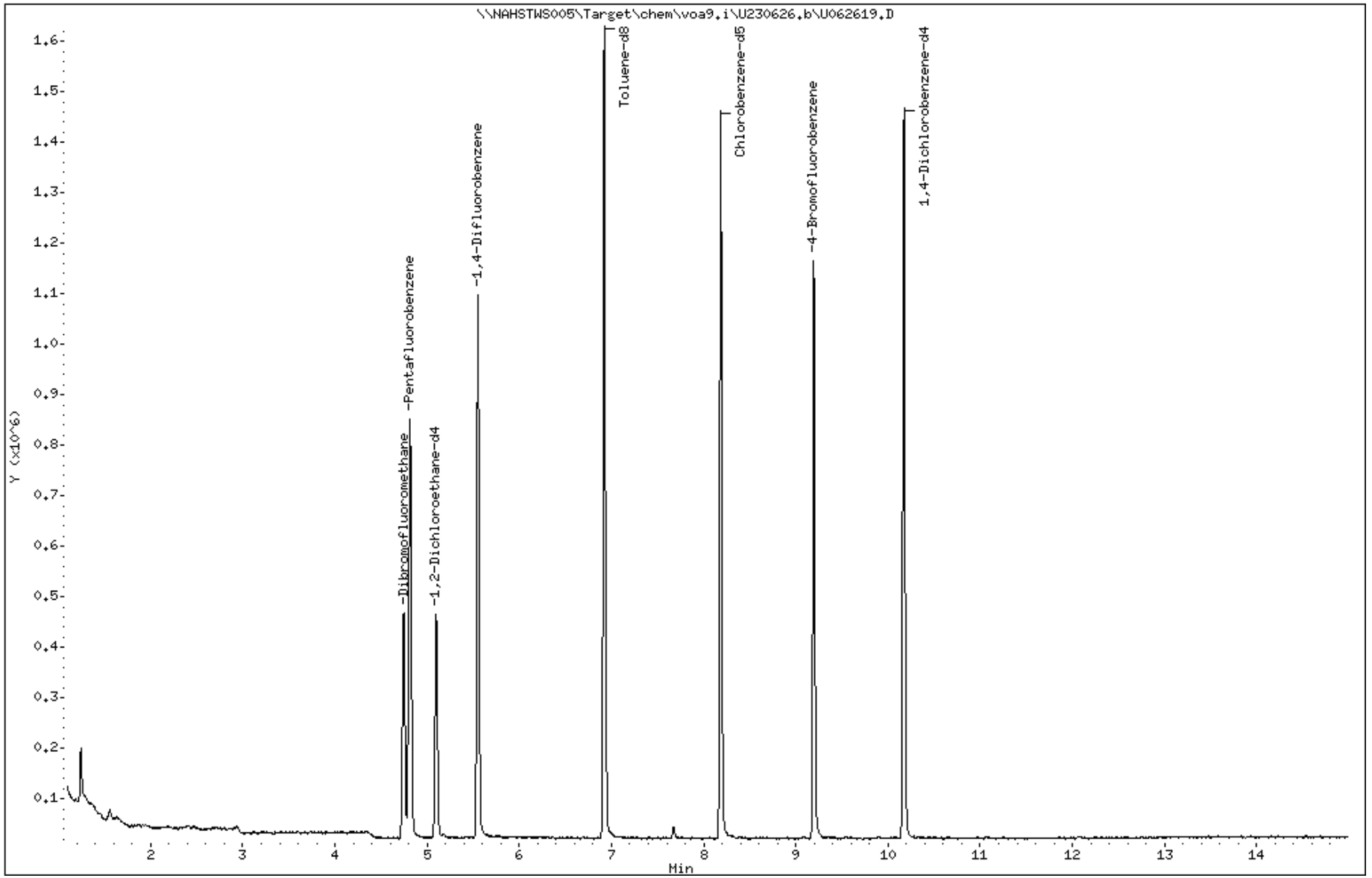
Sample Info: HS23061557-08;HS23061557-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062619.D
Inj Date : 26-JUN-2023 19:40
InstruID : VOA9.i
LabSampID : HS23061557-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062620.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062620.D
Lab Smp Id: HS23061557-04 Client Smp ID: HS23061557-04
Inj Date : 26-JUN-2023 20:03
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-04;HS23061557-04;;;
Misc Info : V9;WATER;0;5;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 18
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

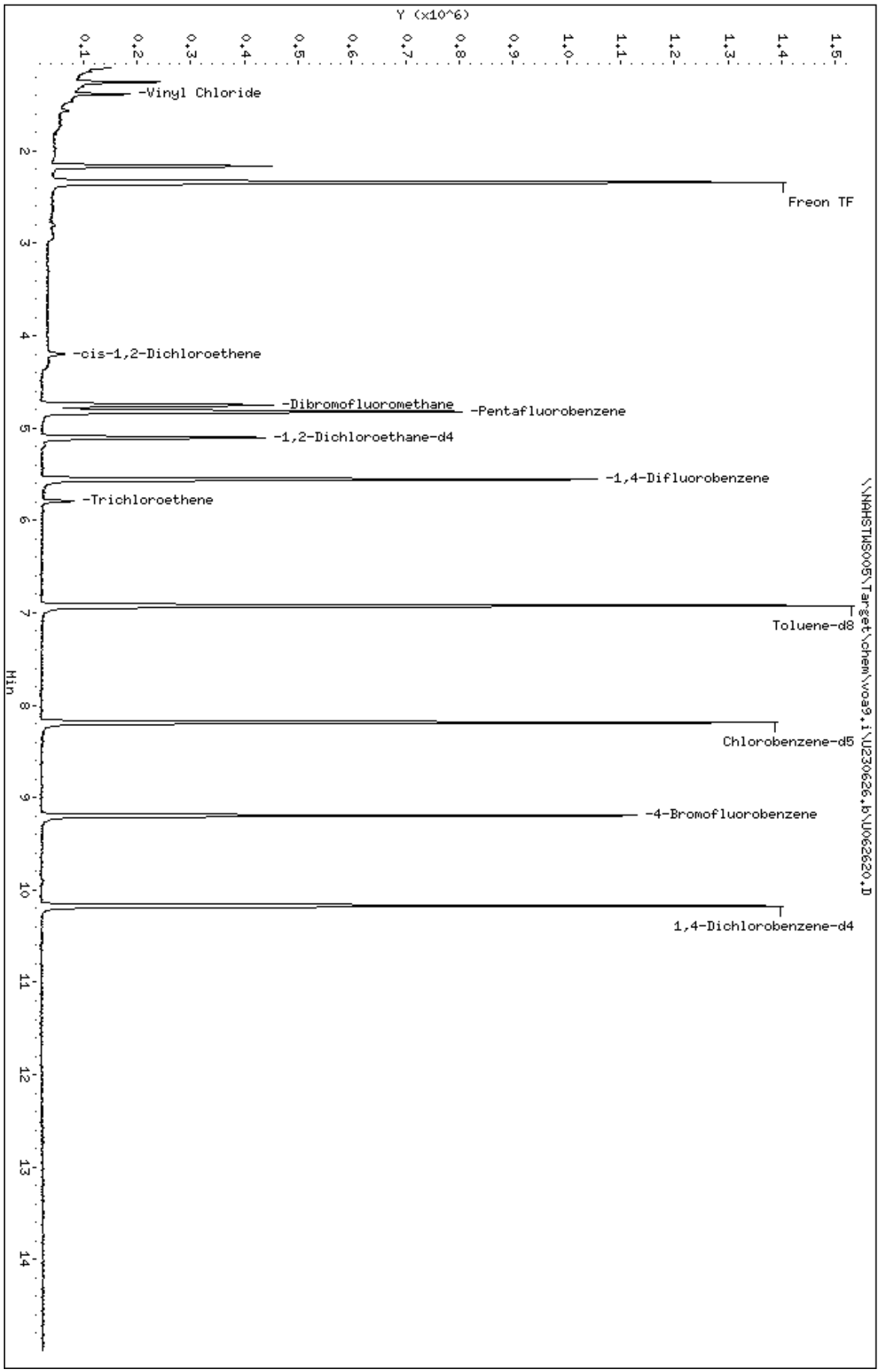
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1	Pentafluorobenzene	168	4.819	4.815	(1.000)	576294	50.0000	
	5	Vinyl Chloride	62	1.385	1.378	(0.288)	71429	11.7179	58.58
	27	cis-1,2-Dichloroethene	96	4.200	4.197	(0.872)	15105	2.65405	13.27(a)
$	30	Dibromofluoromethane	113	4.752	4.748	(0.986)	248296	51.3390	51.33
$	35	1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	286412	54.7845	54.78
*	36	1,4-Difluorobenzene	114	5.557	5.554	(1.000)	787134	50.0000	
	38	Trichloroethene	130	5.790	5.790	(1.042)	18189	3.30859	16.54(a)
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	727253	50.0000	
$	48	Toluene-d8	98	6.926	6.922	(0.846)	887526	53.9207	53.92
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	305297	47.0227	47.02
*	70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	363100	50.0000	
M	94	1,2-Dichloroethylene (total)	96				15105	2.65405	13.27(a)
	138	Freon TF	101	2.341	2.333	(0.486)	544316	140.634	703.17

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062620.D
Date : 26-JUN-2023 20:03
Client ID: HS23061557-04
Sample Info: HS23061557-04;HS23061557-04;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062620.D

Date : 26-JUN-2023 20:03

Client ID: HS23061557-04

Instrument: VOA9.i

Sample Info: HS23061557-04;HS23061557-04;;;

Purge Volume: 5.0

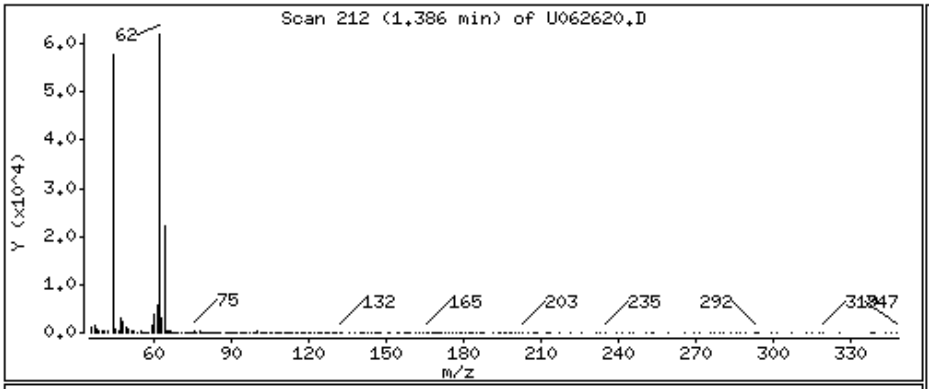
Operator: PC

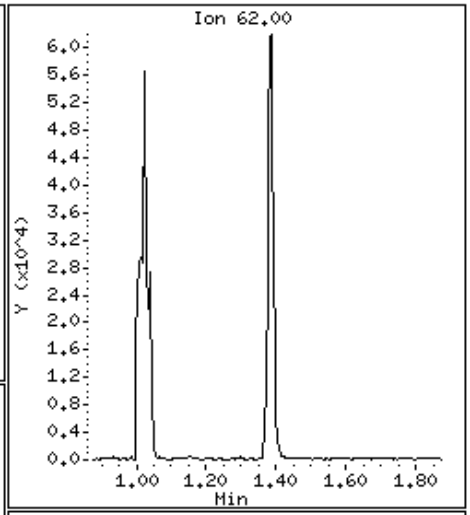
Column phase: DB624

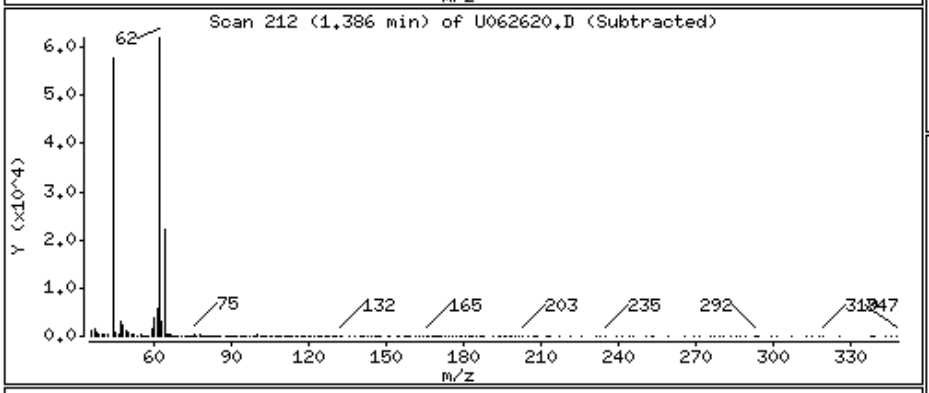
Column diameter: 0.18

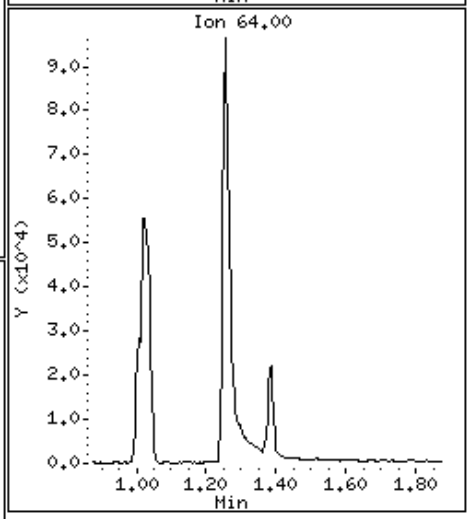
5 Vinyl Chloride

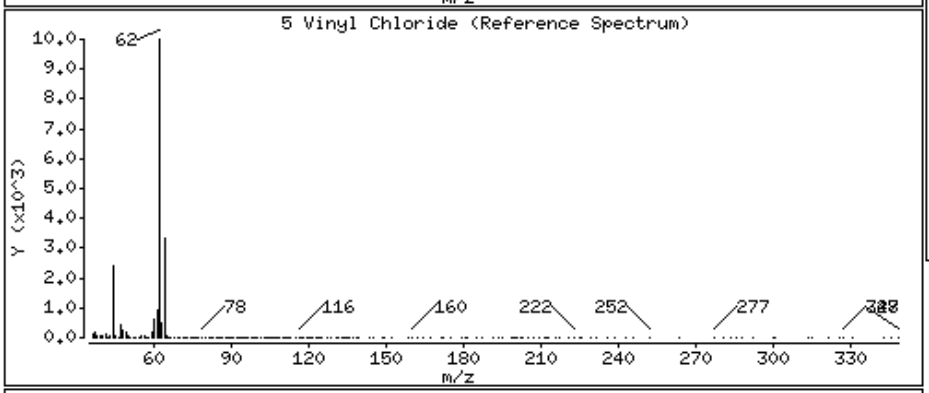
Concentration: 58.58 ug/l

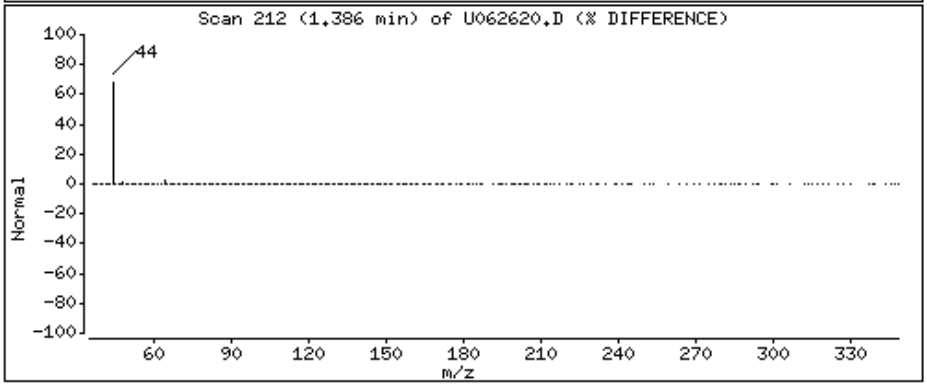












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062620.D

Date : 26-JUN-2023 20:03

Client ID: HS23061557-04

Instrument: VOA9.i

Sample Info: HS23061557-04;HS23061557-04;;;

Purge Volume: 5.0

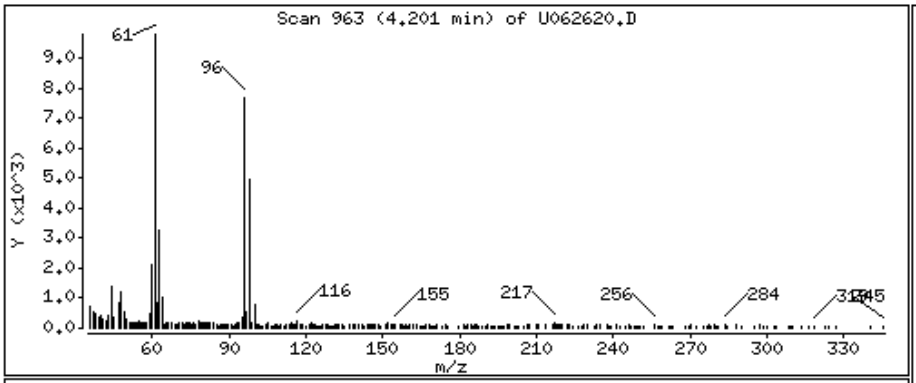
Operator: PC

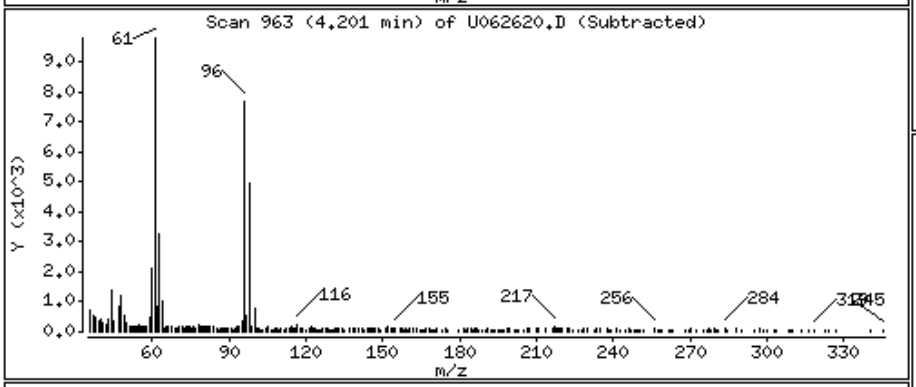
Column phase: DB624

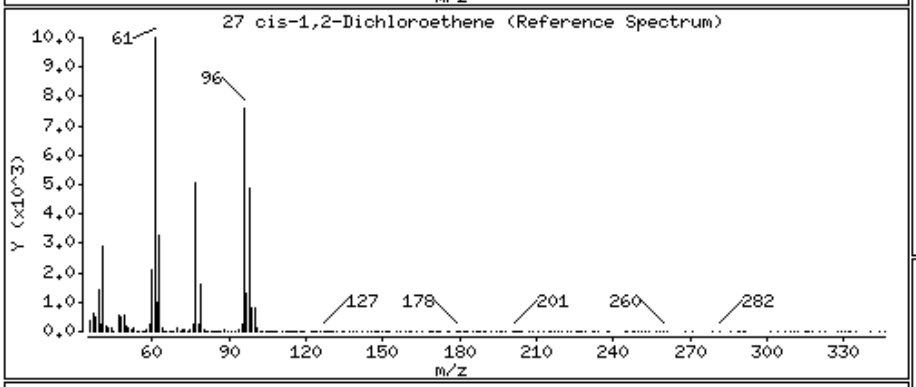
Column diameter: 0.18

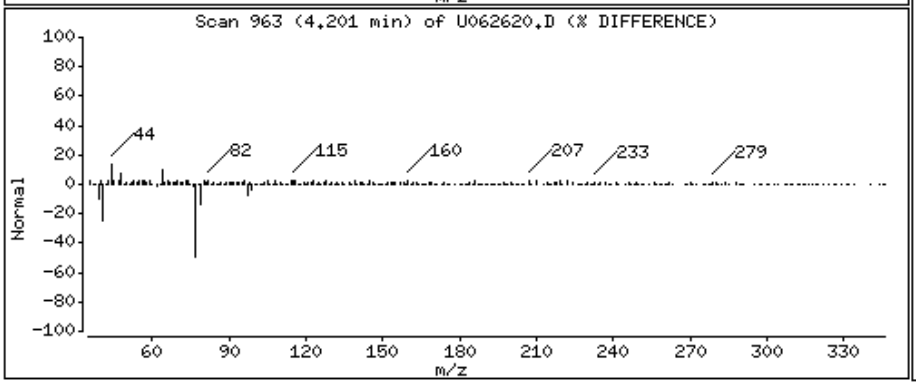
27 cis-1,2-Dichloroethene

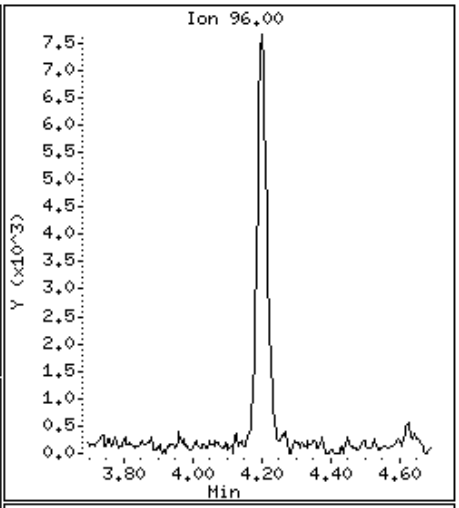
Concentration: 13.27 ug/l

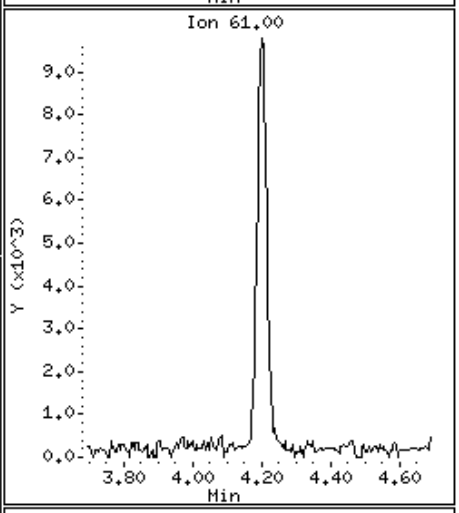


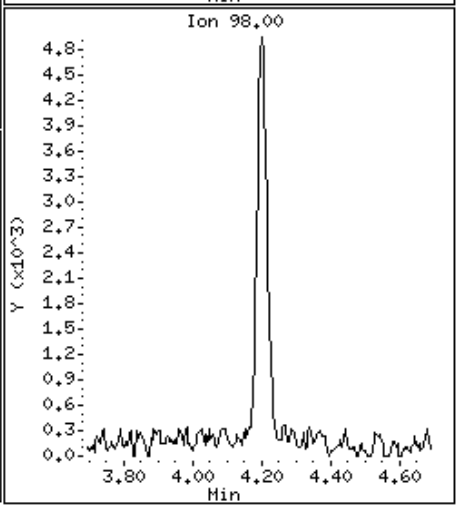












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062620.D

Date : 26-JUN-2023 20:03

Client ID: HS23061557-04

Instrument: VOA9.i

Sample Info: HS23061557-04;HS23061557-04;;;

Purge Volume: 5.0

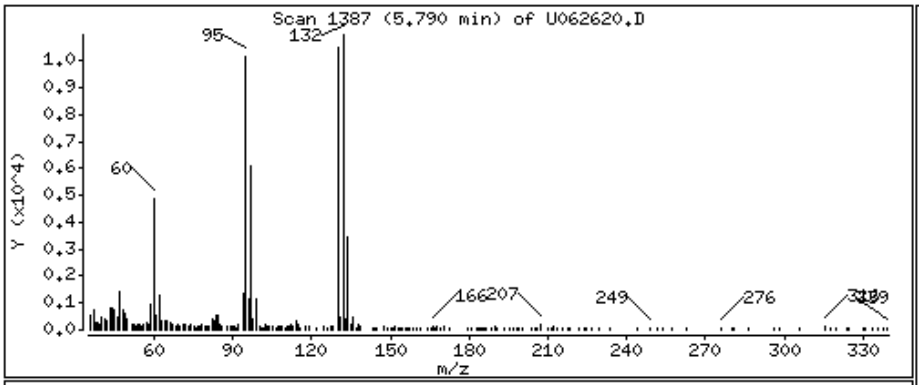
Operator: PC

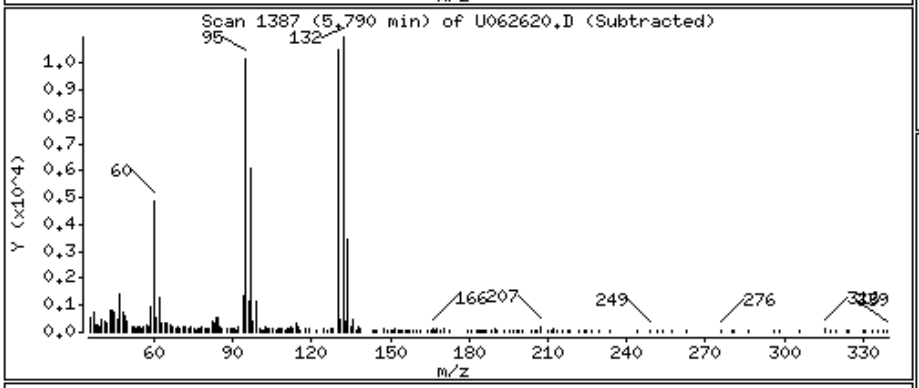
Column phase: DB624

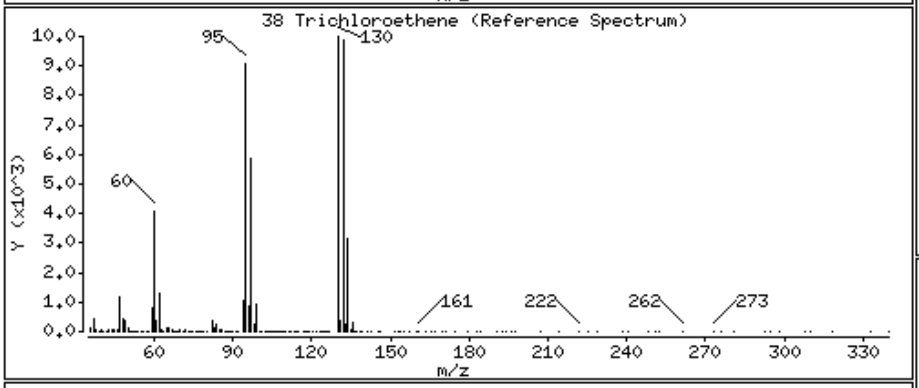
Column diameter: 0.18

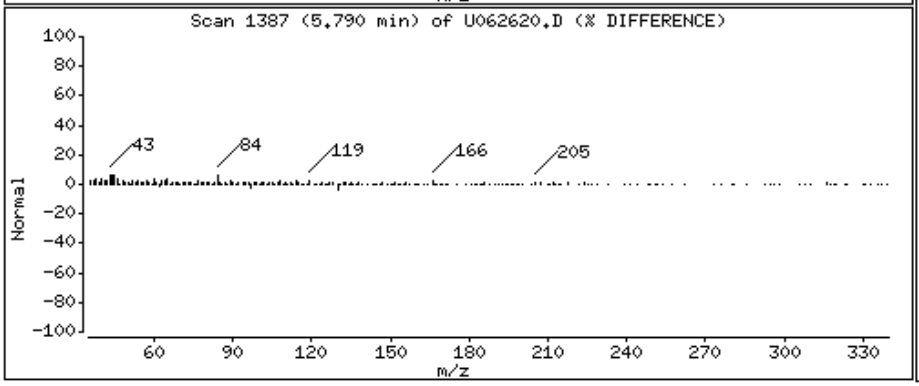
38 Trichloroethene

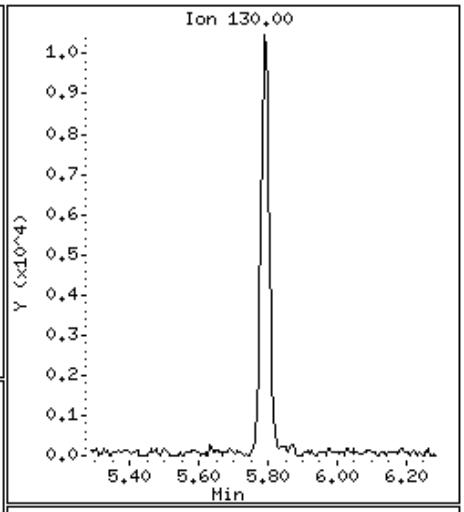
Concentration: 16.54 ug/l

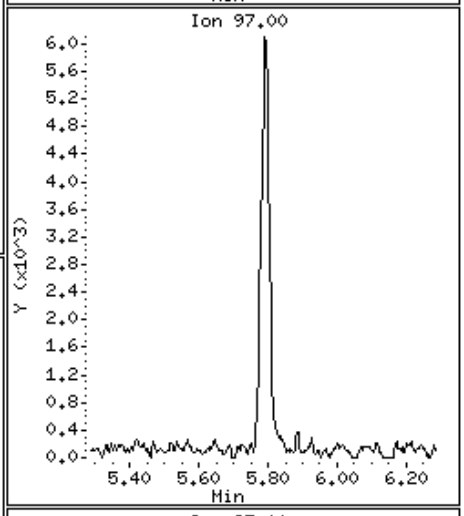


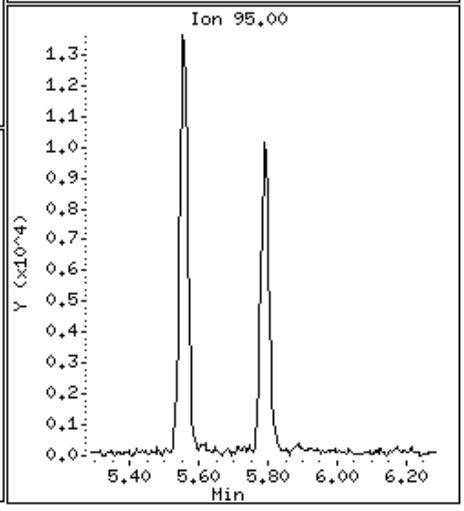












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062620.D Page 5

Date : 26-JUN-2023 20:03

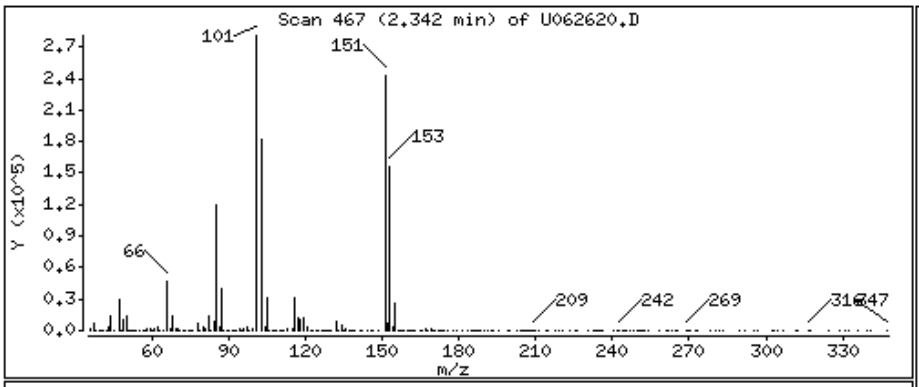
Client ID: HS23061557-04 Instrument: VOA9.i

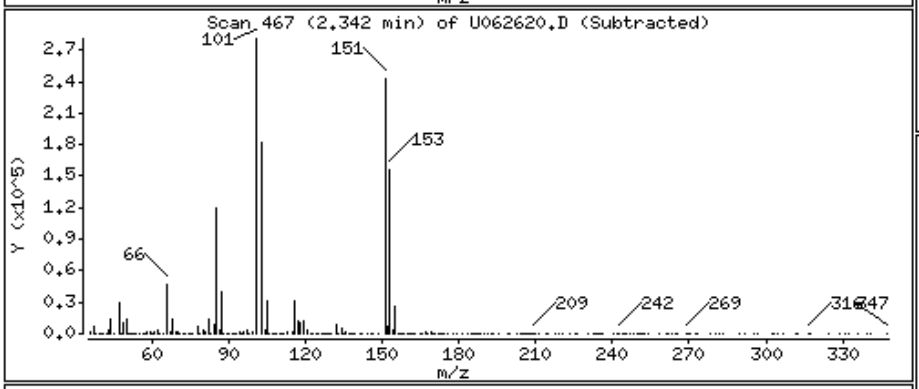
Sample Info: HS23061557-04;HS23061557-04;;;

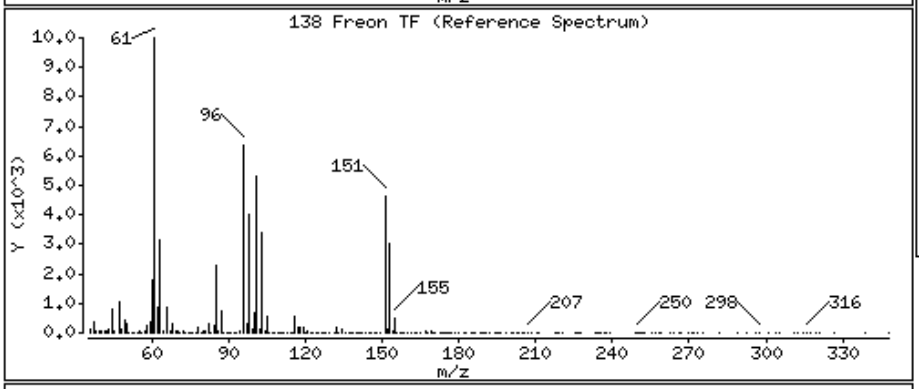
Purge Volume: 5.0 Operator: PC

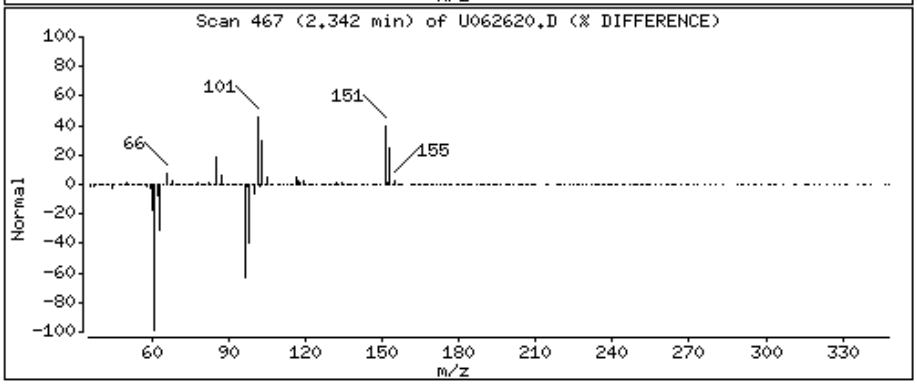
Column phase: DB624 Column diameter: 0.18

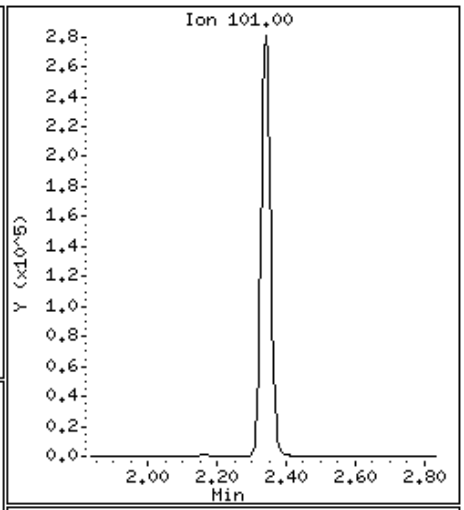
138 Freon TF Concentration: 703.17 ug/l

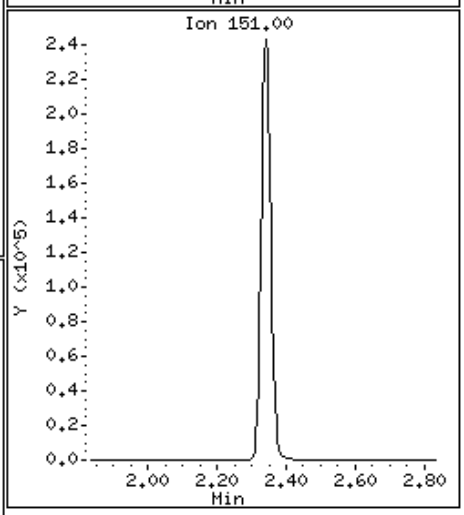












Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062620.D
Inj Date : 26-JUN-2023 20:03
InstruID : VOA9.i
LabSampID : HS23061557-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062621.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062621.D
Lab Smp Id: HS23061557-03 Client Smp ID: HS23061557-03
Inj Date : 26-JUN-2023 20:25
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-03;HS23061557-03;;;
Misc Info : V9;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 19
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
*	1 Pentafluorobenzene	168	4.811	4.815	(1.000)	571693	50.0000	
	27 cis-1,2-Dichloroethene	96	4.193	4.197	(0.871)	23929	4.23832	21.19(a)
	28 Chloroform	83	4.568	4.571	(0.949)	35737	3.82851	19.14(a)
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	245766	51.2241	51.22
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	16649	2.45912	12.29(a)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	283480	54.6585	54.65
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	782221	50.0000	
	37 Benzene	78	5.138	5.137	(0.926)	11509	0.61060	3.05(a)
	38 Trichloroethene	130	5.786	5.790	(1.043)	2122040	388.425	1942.12(A)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	723275	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	877570	53.6091	53.60
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	308793	47.8382	47.83
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	364483	50.0000	
M	94 1,2-Dichloroethylene (total)	96				23929	4.23832	21.19(a)
	138 Freon TF	101	2.330	2.333	(0.484)	1008961	262.782	1313.91(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.

01199792

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062621.D

Date : 26-JUN-2023 20:25

Client ID: HS23061557-03

Instrument: VOA9.i

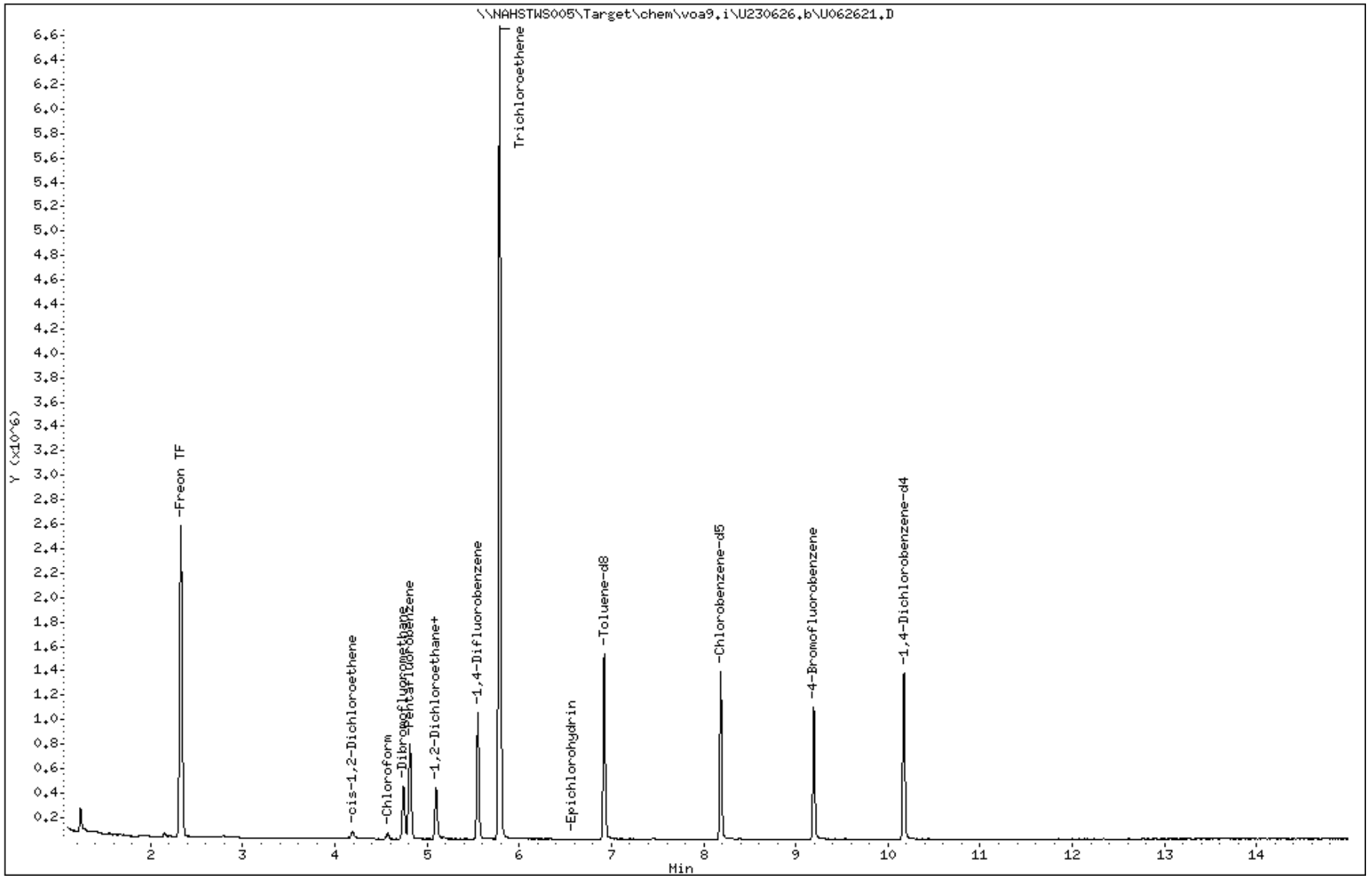
Sample Info: HS23061557-03;HS23061557-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062621.D

Date : 26-JUN-2023 20:25

Client ID: HS23061557-03

Instrument: VOA9.i

Sample Info: HS23061557-03;HS23061557-03;;;

Purge Volume: 5.0

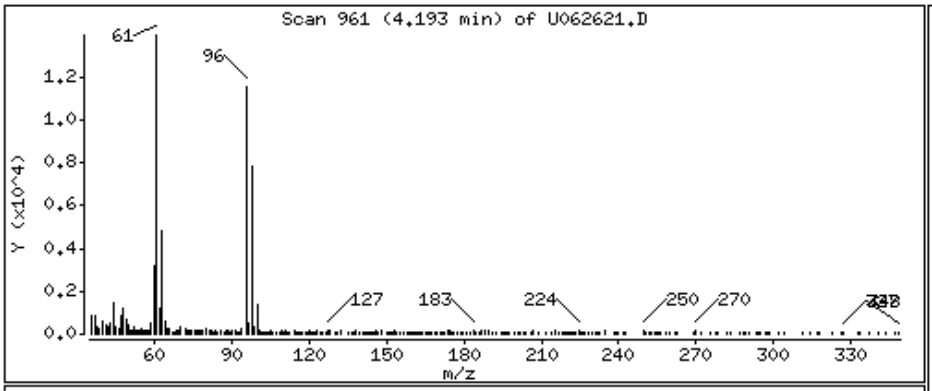
Operator: PC

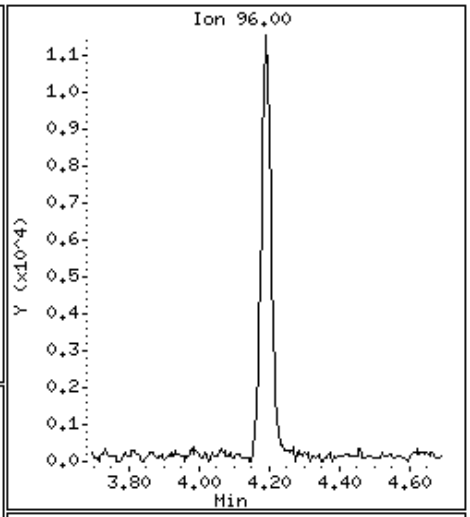
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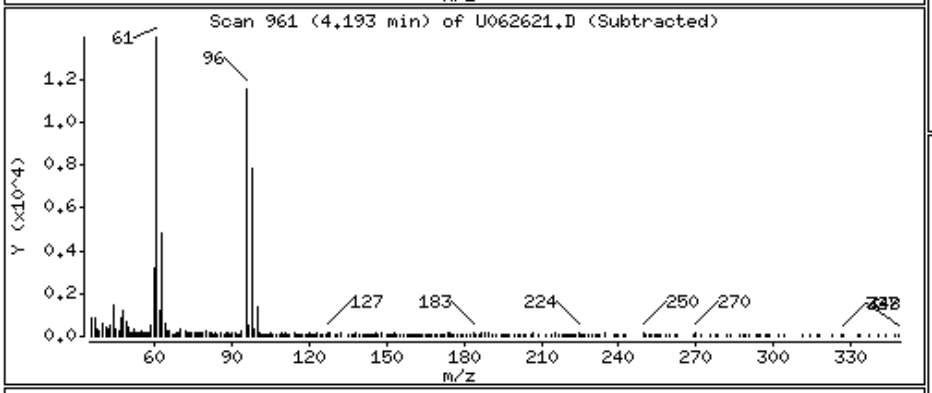
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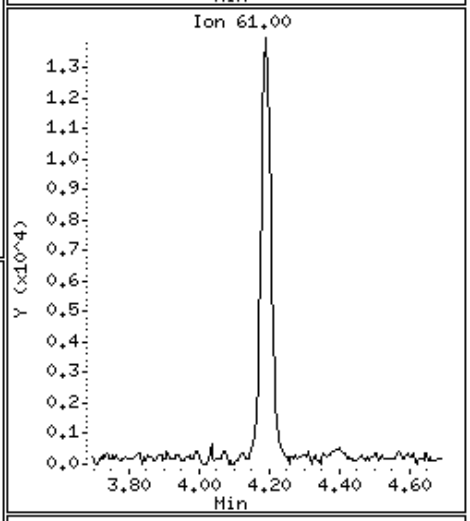
27 cis-1,2-Dichloroethene

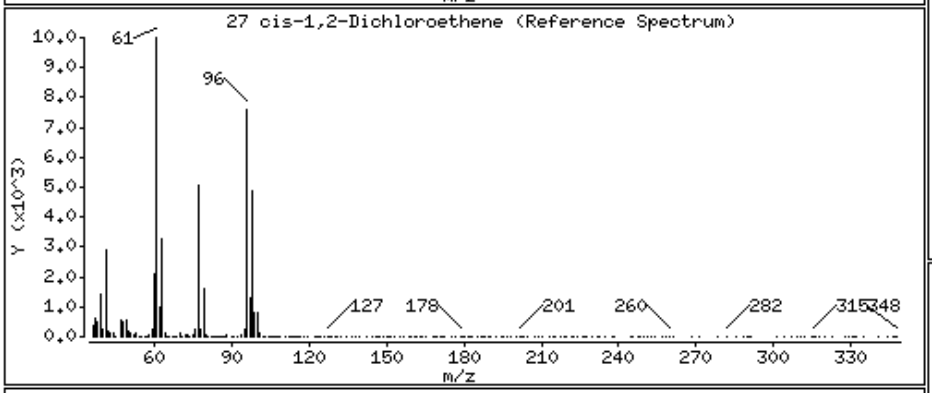
Concentration: 21.19 ug/l

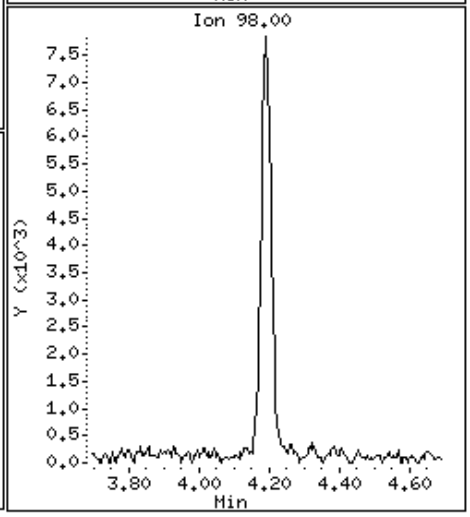


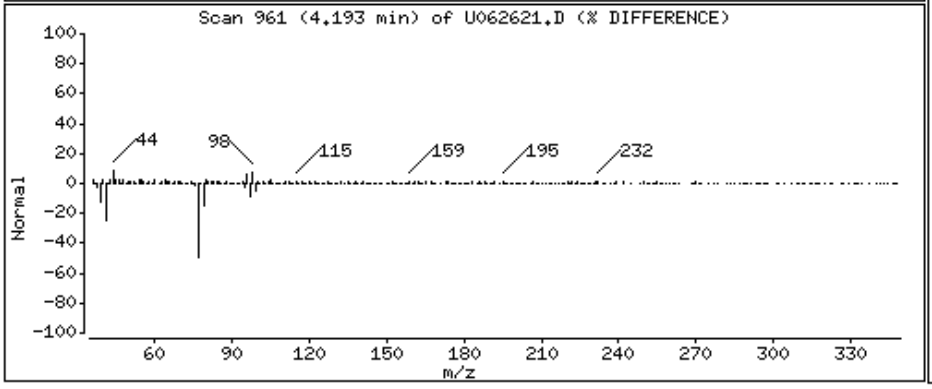












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062621.D

Date : 26-JUN-2023 20:25

Client ID: HS23061557-03

Instrument: VOA9.i

Sample Info: HS23061557-03;HS23061557-03;;;

Purge Volume: 5.0

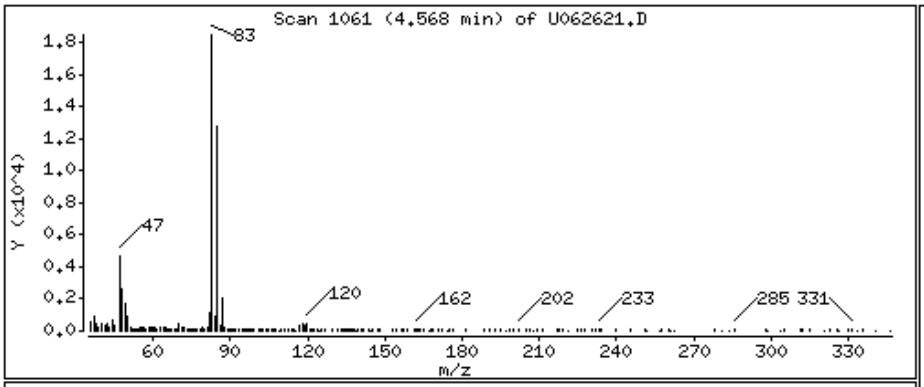
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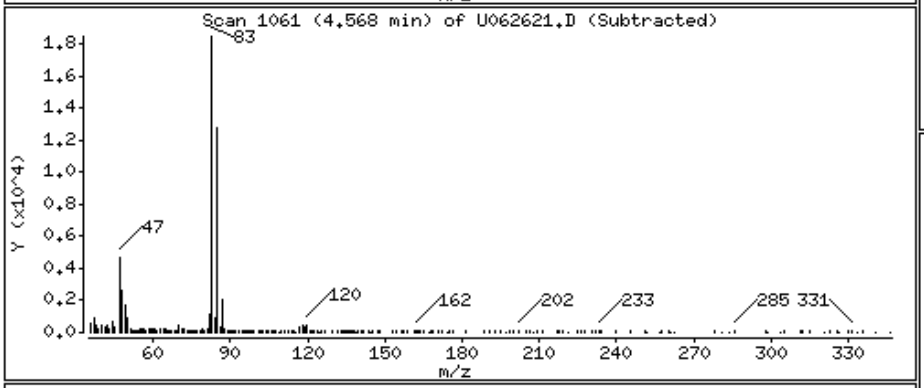
Column phase: DB624

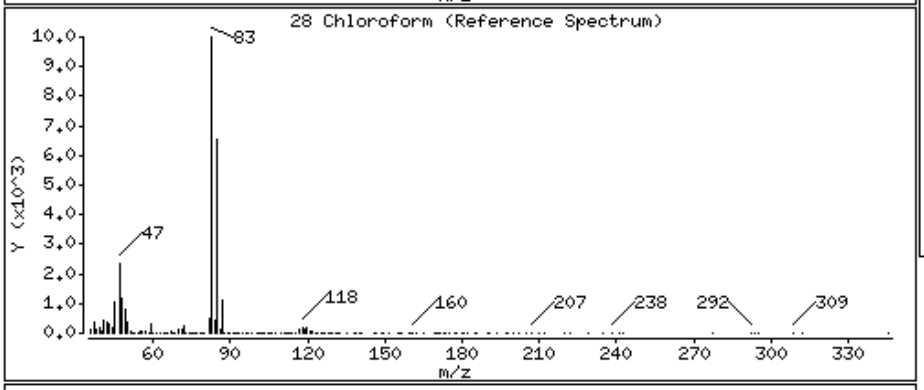
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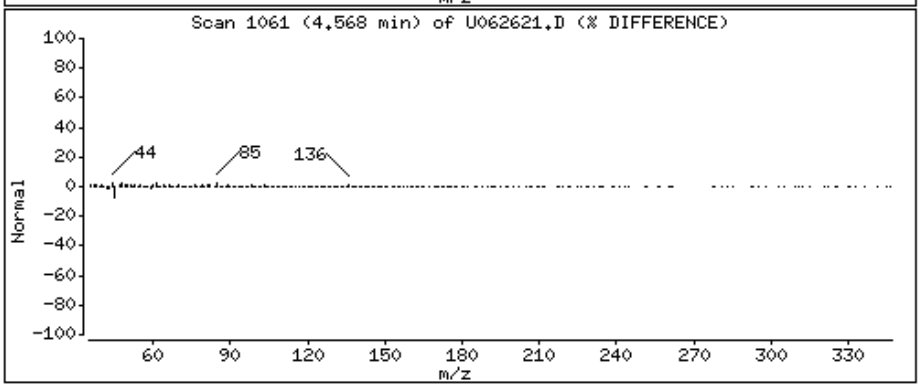
28 Chloroform

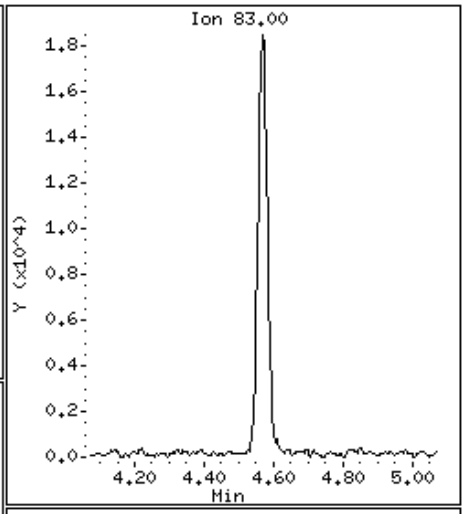
Concentration: 19.14 ug/l

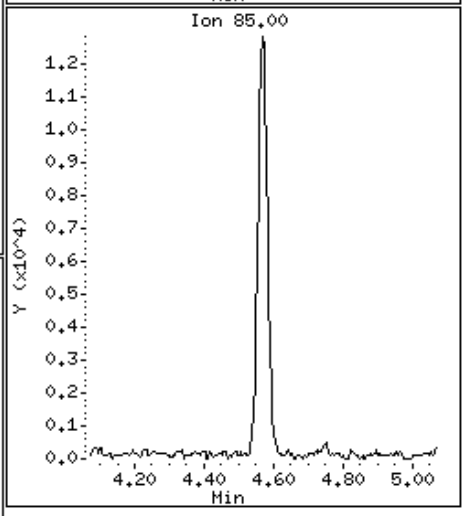












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062621.D Page 4

Date : 26-JUN-2023 20:25

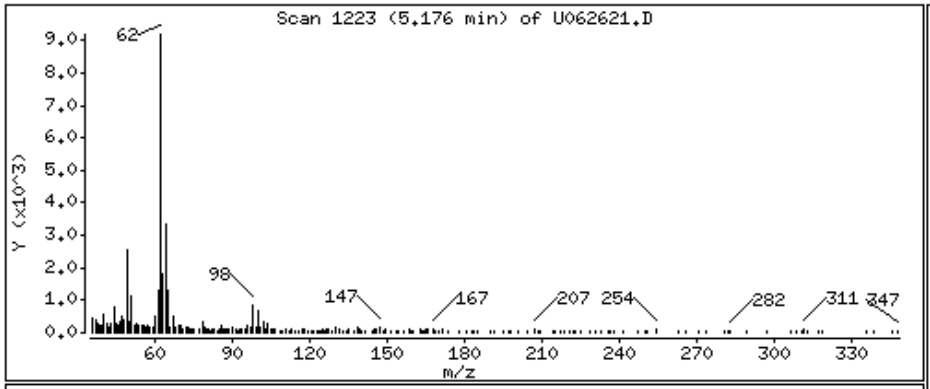
Client ID: HS23061557-03 Instrument: VOA9.i

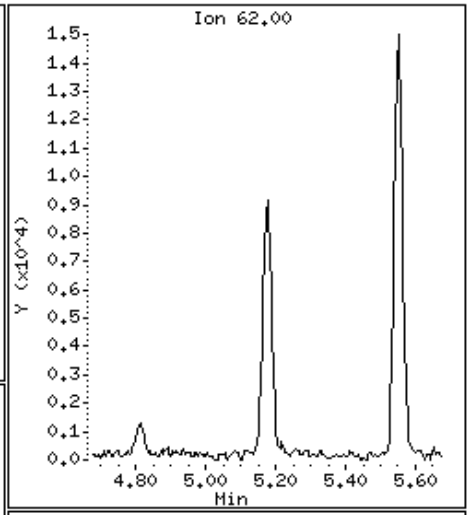
Sample Info: HS23061557-03;HS23061557-03;;;

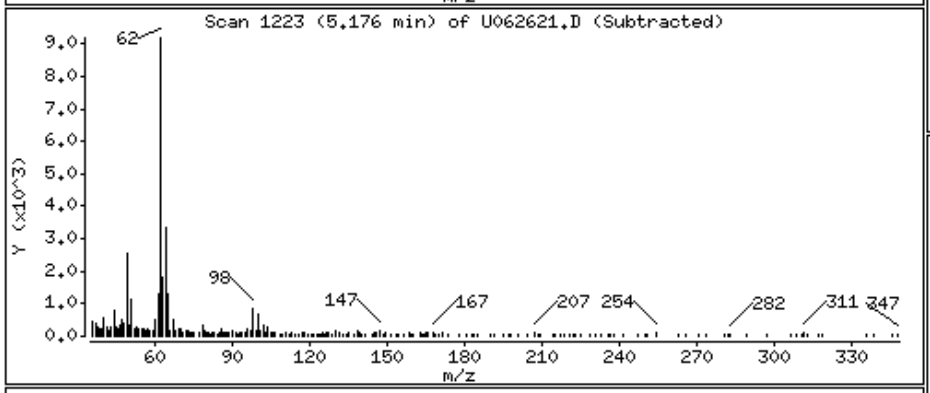
Purge Volume: 5.0 Operator: PC

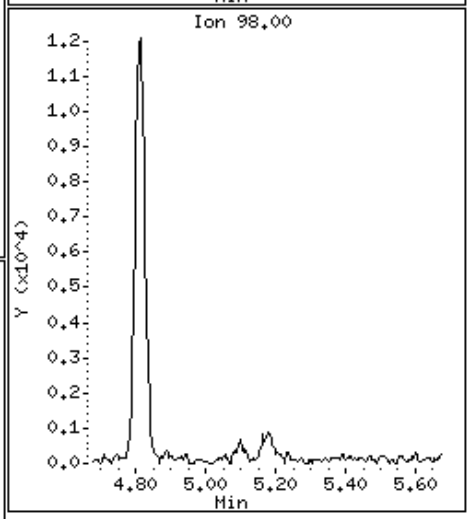
Column phase: DB624 Column diameter: 0.18

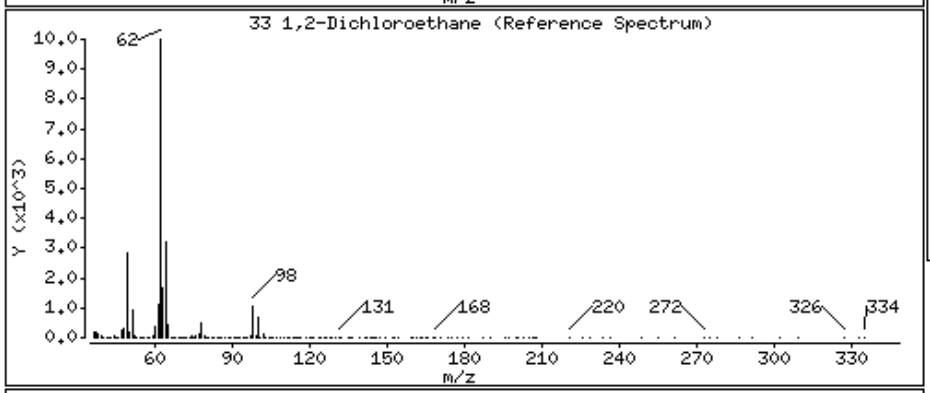
33 1,2-Dichloroethane Concentration: 12.29 ug/l

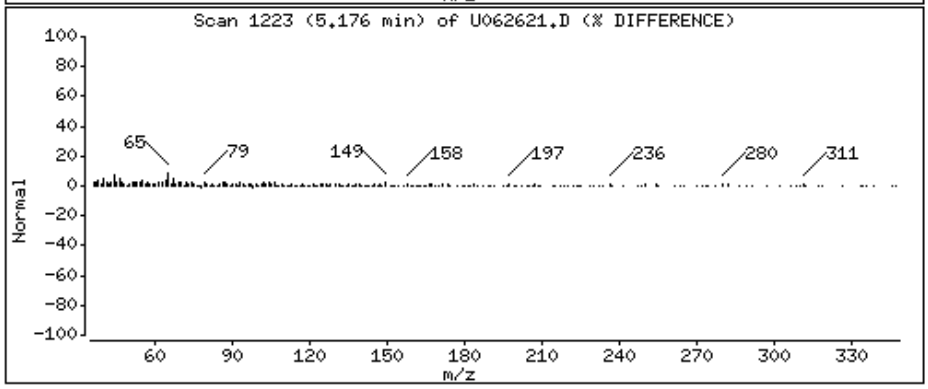












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062621.D Page 5

Date : 26-JUN-2023 20:25

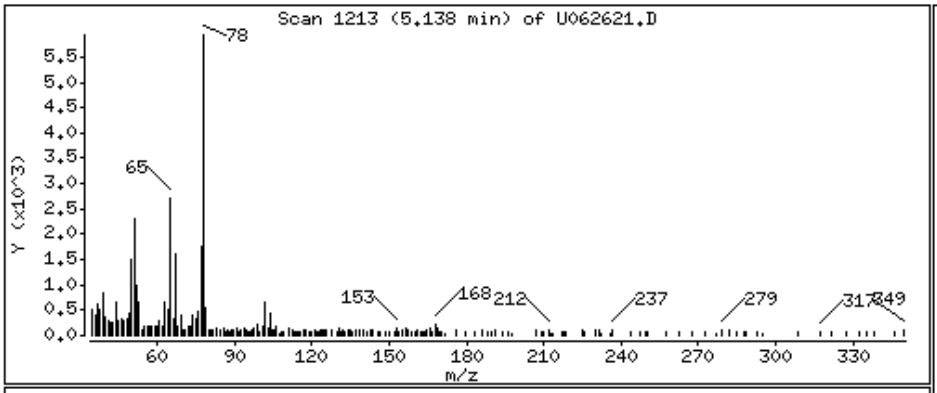
Client ID: HS23061557-03 Instrument: VOA9.i

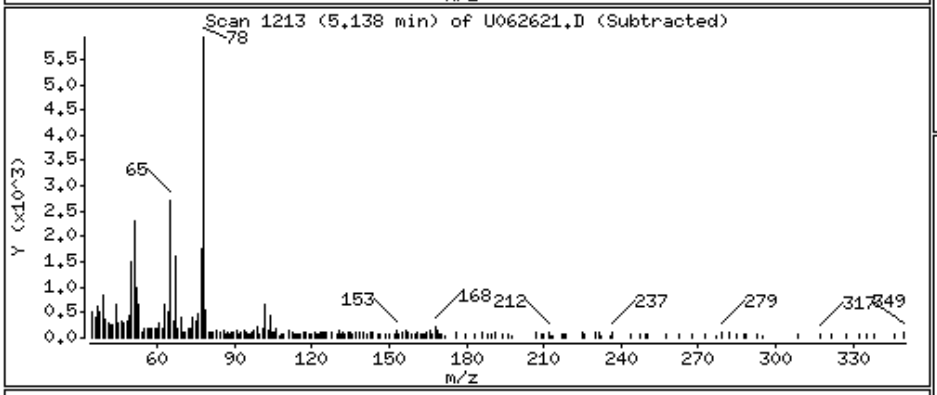
Sample Info: HS23061557-03;HS23061557-03;;;

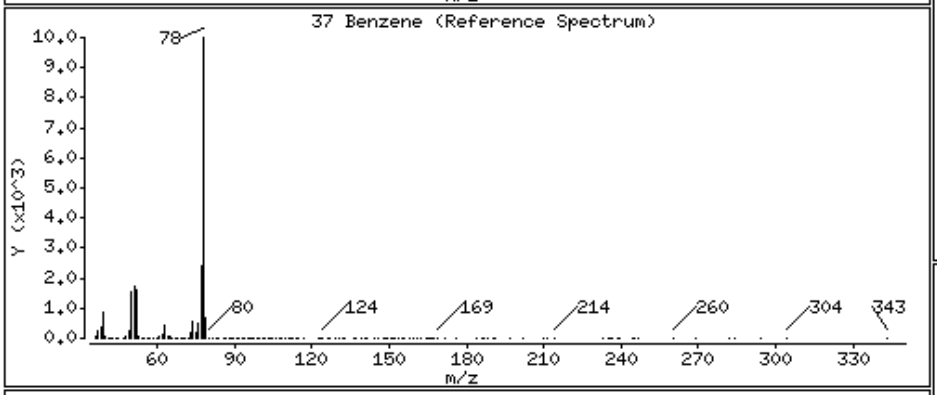
Purge Volume: 5.0 Operator: PC

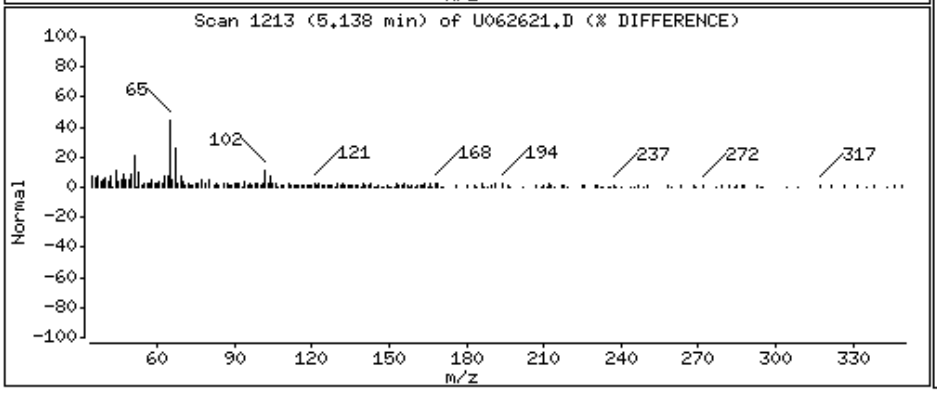
Column phase: DB624 Column diameter: 0.18

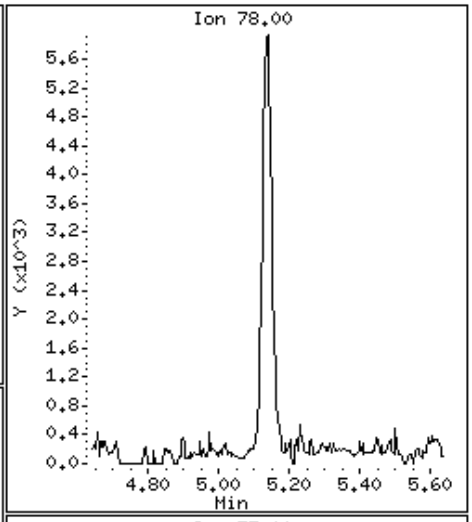
37 Benzene Concentration: 3.05 ug/l

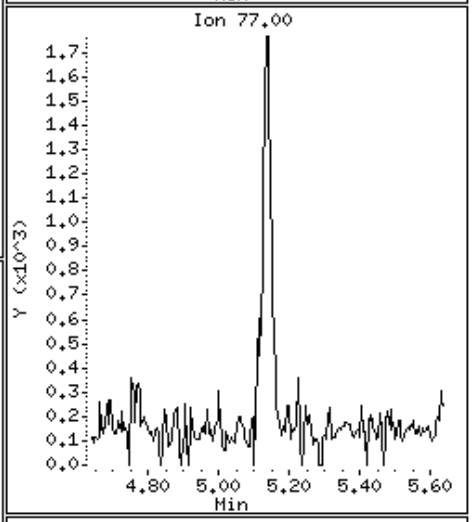


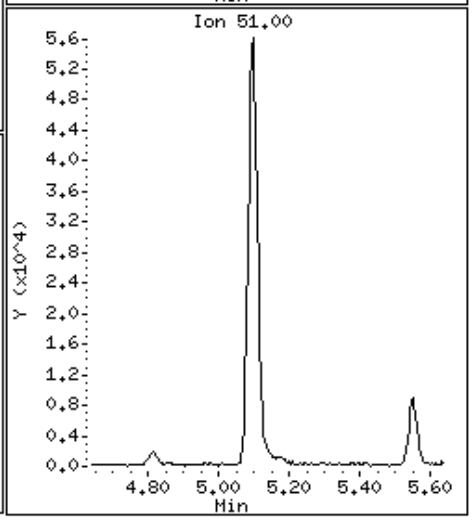












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062621.D

Date : 26-JUN-2023 20:25

Client ID: HS23061557-03

Instrument: VOA9.i

Sample Info: HS23061557-03;HS23061557-03;;;

Purge Volume: 5.0

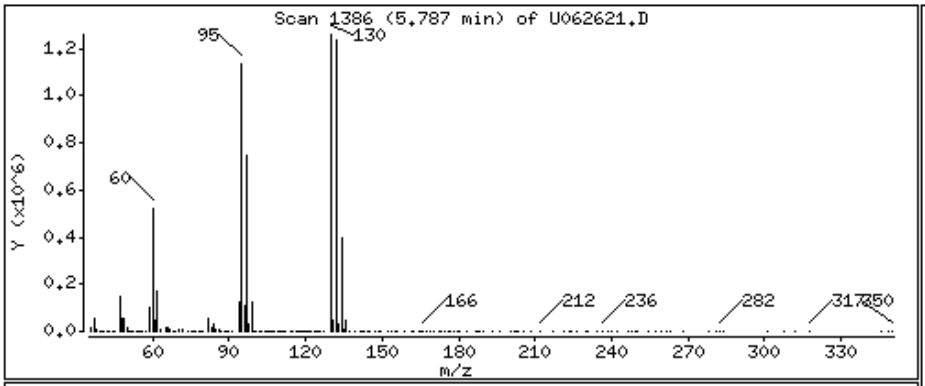
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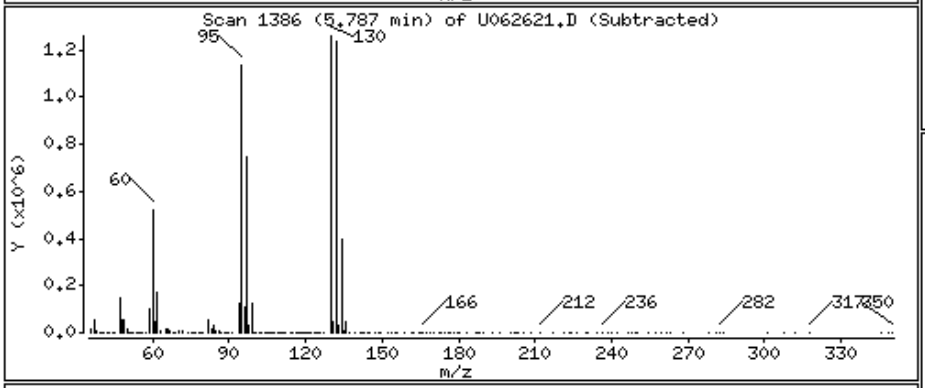
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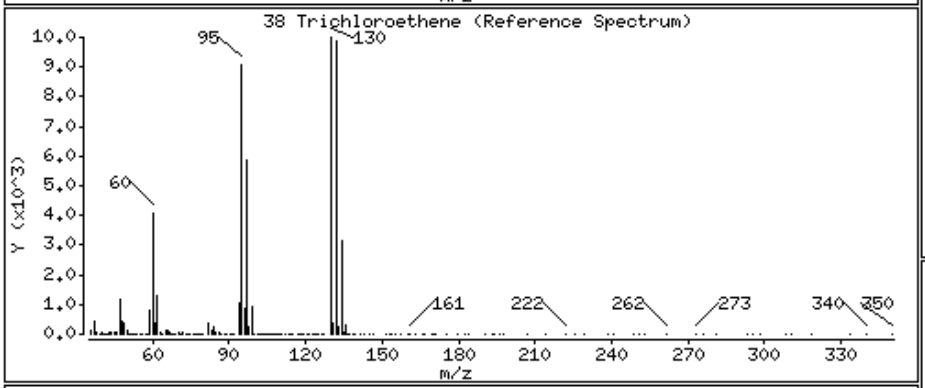
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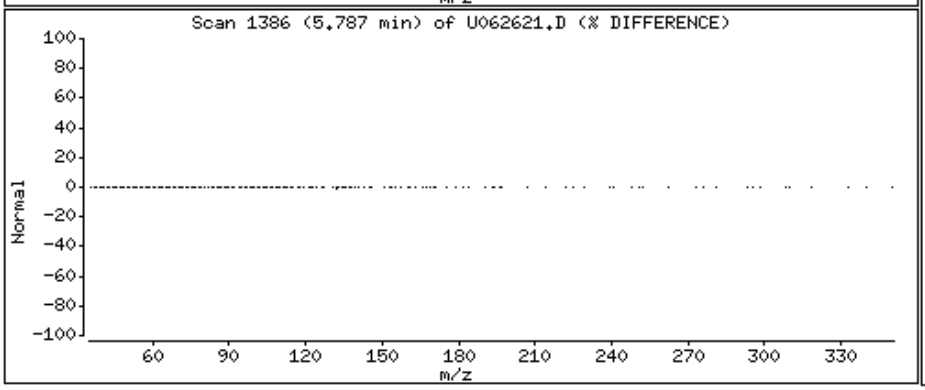
38 Trichloroethene

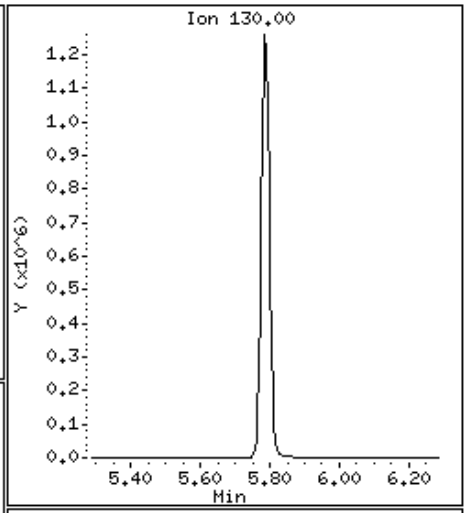
Concentration: 1942.12 ug/l

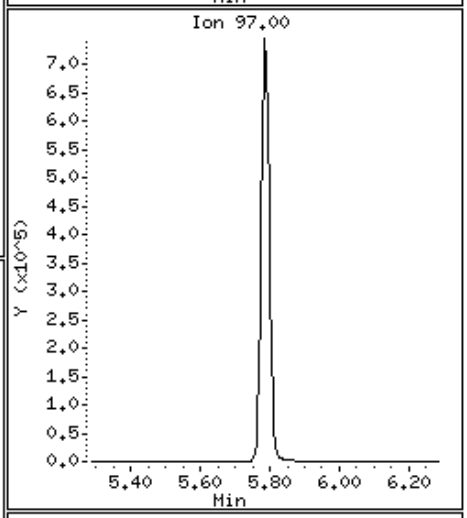


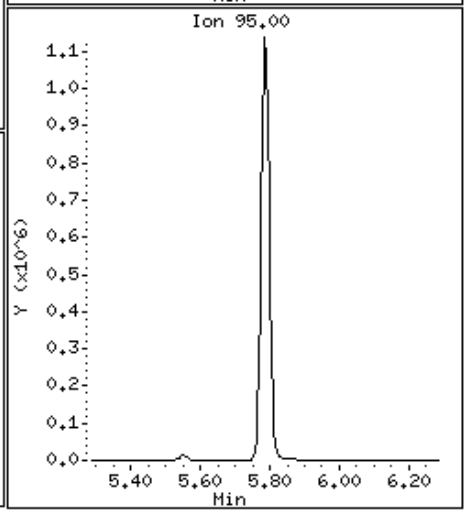












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062621.D

Date : 26-JUN-2023 20:25

Client ID: HS23061557-03

Instrument: VOA9.i

Sample Info: HS23061557-03;HS23061557-03;;;

Purge Volume: 5.0

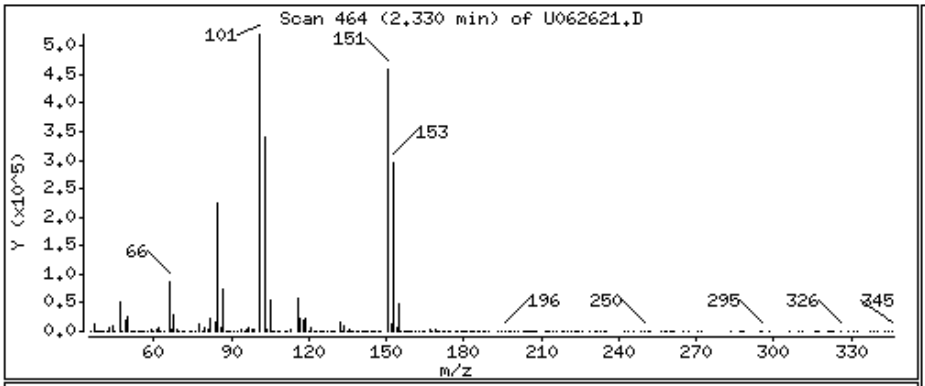
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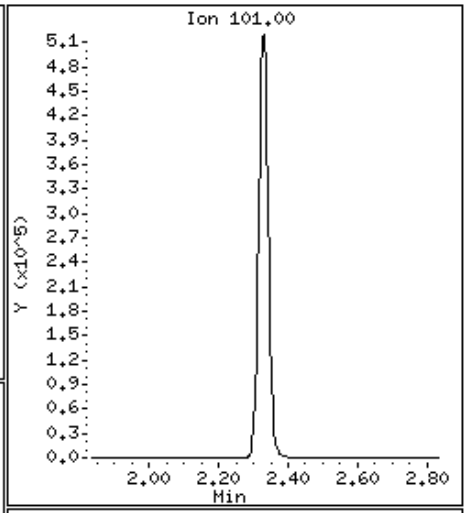
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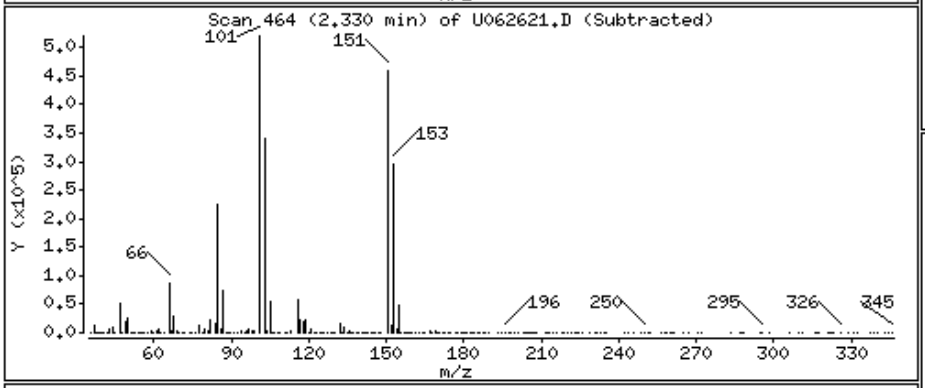
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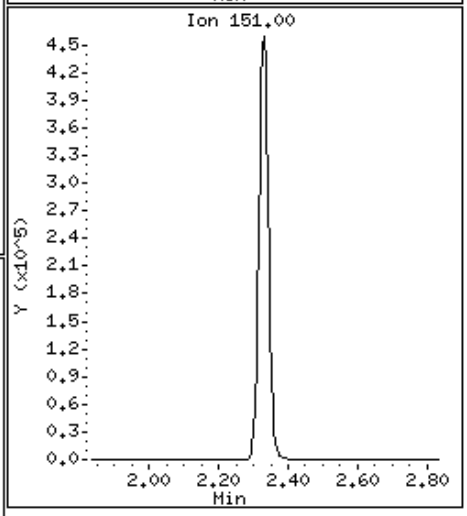
138 Freon TF

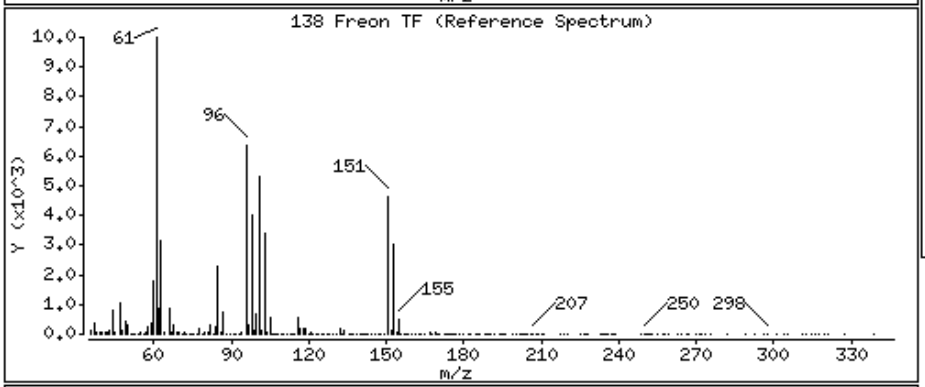
Concentration: 1313.91 ug/l

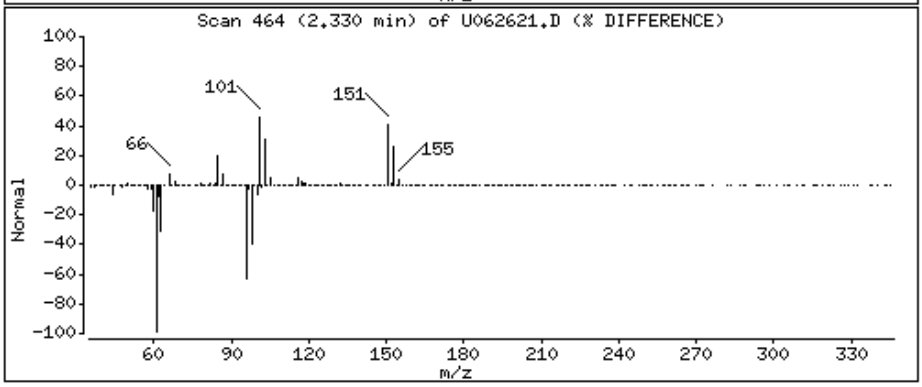












Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062621.D
Inj Date : 26-JUN-2023 20:25
InstruID : VOA9.i
LabSampID : HS23061557-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062622.D Page 1
Report Date: 03-Jul-2023 12:32

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062622.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 26-JUN-2023 20:47
Operator : PC Inst ID: VOA9.i
Smp Info : CCV-END;CCV-END;2;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\8260C.m
Meth Date : 03-Jul-2023 12:32 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 20 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	509969	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	205785	50.0000	43.68
3 Chloromethane	50	1.303	1.303	(0.270)	406378	50.0000	52.91
5 Vinyl Chloride	62	1.381	1.381	(0.287)	262588	50.0000	48.67
6 Bromomethane	94	1.625	1.625	(0.337)	142216	50.0000	51.32
7 Chloroethane	64	1.704	1.704	(0.354)	182548	50.0000	50.23
8 Trichlorofluoromethane	101	1.902	1.902	(0.395)	371925	50.0000	60.03
9 Acrolein	56	2.270	2.270	(0.471)	30257	100.000	111.78
10 Acetone	43	2.412	2.412	(0.501)	191015	100.000	109.57
11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	206489	50.0000	53.34
15 Iodomethane	142	2.472	2.472	(0.513)	207140	100.000	72.10
16 Acrylonitrile	53	3.072	3.072	(0.638)	204281	100.000	108.01
17 Methylene Chloride	84	2.798	2.798	(0.581)	262451	50.0000	56.56
18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	660398	50.0000	55.63
19 Carbon Disulfide	76	2.525	2.525	(0.524)	1141483	100.000	110.30
20 trans-1,2-Dichloroethene	96	3.064	3.064	(0.636)	230398	50.0000	54.72
21 Vinyl Acetate	43	3.612	3.612	(0.750)	1329216	100.000	103.58
22 1,1-Dichloroethane	63	3.518	3.518	(0.730)	421678	50.0000	52.70
24 2-Butanone	43	4.272	4.272	(0.886)	231517	100.000	99.57
26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	298784	50.0000	56.43

27	cis-1,2-Dichloroethene	96	4.200	4.200 (0.872)	271570	50.0000	53.92
28	Chloroform	83	4.575	4.575 (0.949)	459065	50.0000	55.13

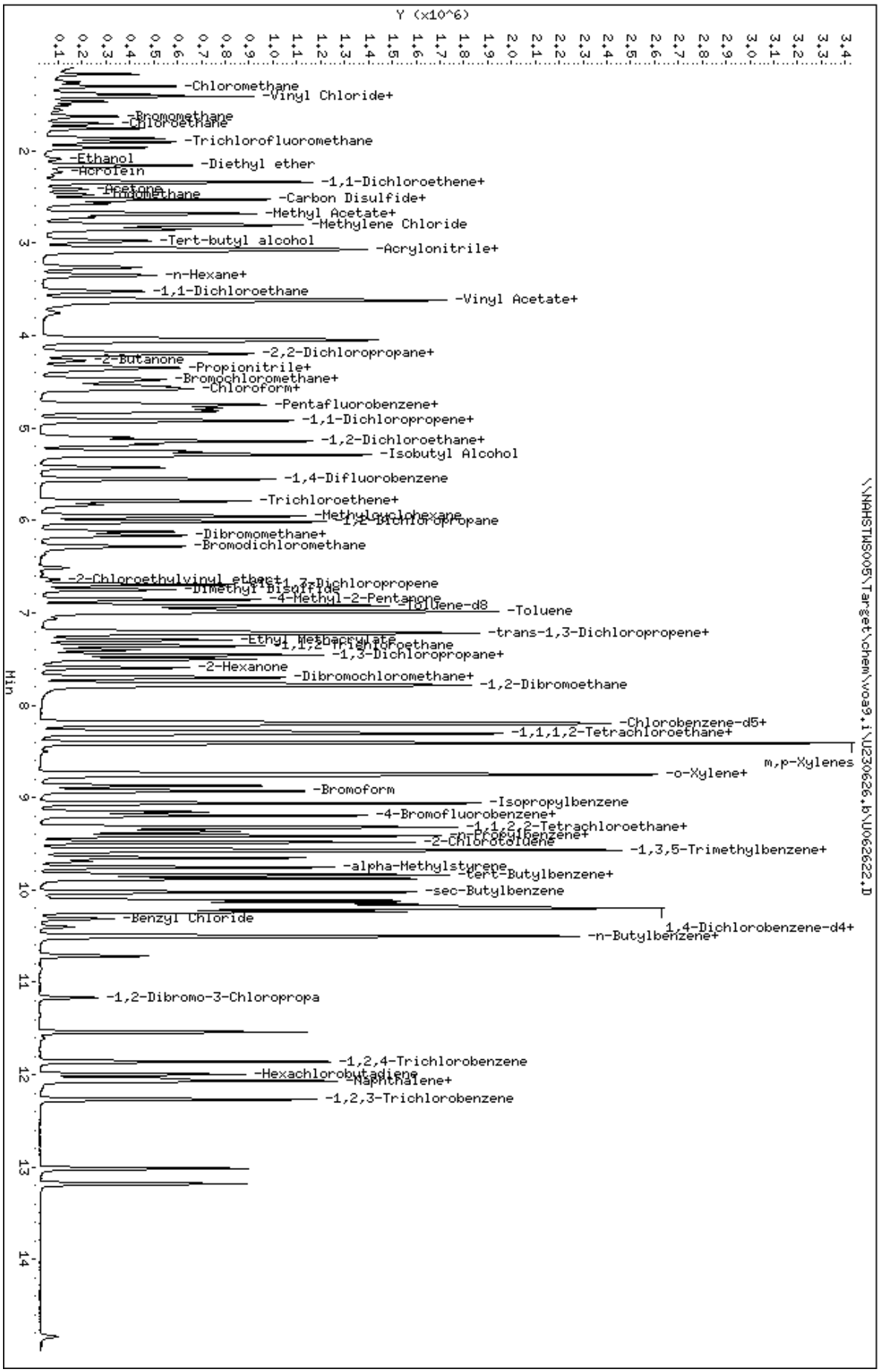
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.474	4.474	(0.928)	147505	50.0000	52.35
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	231743	50.0000	54.16
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	368847	50.0000	58.11
	32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	304810	50.0000	54.83
	33 1,2-Dichloroethane	62	5.179	5.179	(0.932)	372966	50.0000	56.81
	34 Carbon Tetrachloride	117	4.913	4.913	(0.884)	312428	50.0000	61.18
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	258578	50.0000	55.90
*	36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	758462	50.0000	
	37 Benzene	78	5.141	5.141	(0.925)	948727	50.0000	51.91
	38 Trichloroethene	130	5.790	5.790	(1.042)	281042	50.0000	53.05
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	333498	50.0000	58.49
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.184)	6364	100.000	46.15
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	257944	50.0000	52.85
	44 Dibromomethane	93	6.123	6.123	(1.102)	173885	50.0000	55.76
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	535077	100.000	96.80
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	379385	50.0000	49.68
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	759030	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	857344	50.0000	49.90
	50 Toluene	91	6.982	6.982	(0.853)	1076115	50.0000	52.27
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	328877	50.0000	51.24
	52 2-Hexanone	43	7.593	7.593	(0.928)	358454	100.000	93.12
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	213436	50.0000	49.82
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	442869	50.0000	50.60
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	295937	50.0000	58.22
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	255038	50.0000	50.84
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	271714	50.0000	51.42
	58 1-Chlorohexane	55	8.196	8.196	(1.475)	209969	50.0000	53.91
	59 Chlorobenzene	112	8.211	8.211	(1.003)	764767	50.0000	52.05
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	283283	50.0000	56.09
	61 Ethylbenzene	106	8.309	8.309	(1.015)	370410	50.0000	54.16
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	915414	100.000	113.14
	63 o-Xylene	106	8.747	8.747	(1.069)	450301	50.0000	56.33
	64 Styrene	104	8.762	8.762	(1.071)	736910	50.0000	58.09
	66 Bromoform	173	8.920	8.920	(1.090)	200160	50.0000	58.34
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1093609	50.0000	56.96
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	359706	50.0000	46.00
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	370050	50.0000	54.75
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	415688	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	344907	50.0000	50.14
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1186312	50.0000	54.40
	74 Bromobenzene	156	9.317	9.317	(0.916)	353387	50.0000	50.38
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	796752	50.0000	53.26
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	784257	50.0000	51.16
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	893200	50.0000	52.64
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	781614	50.0000	53.20
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	782243	50.0000	49.97
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	1001171	50.0000	53.73
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	812118	50.0000	52.02
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	591462	50.0000	49.65
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	616204	50.0000	48.51
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	682550	50.0000	51.07
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	591790	50.0000	49.54

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	52980	50.0000	46.43
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	377594	50.0000	45.96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	159474	50.0000	48.06
92	Naphthalene	128	12.065	12.065	(1.186)	880637	50.0000	46.14
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	367625	50.0000	45.77
M 94	1,2-Dichloroethylene (total)	96				501968	100.000	(a)
135	1,4-Dioxane	88	6.172	6.172	(1.281)	67536	1000.00	666.95
141	Cyclohexane	56	4.785	4.785	(0.993)	327974	50.0000	52.23
138	Freon TF	101	2.341	2.341	(0.486)	204717	50.0000	59.77
140	1,3-Butadiene	54	1.408	1.408	(0.292)	230834	50.0000	47.79
147	Methylcyclohexane	55	5.951	5.951	(1.071)	550163	50.0000	52.29
146	Methyl Acetate	43	2.720	2.720	(0.564)	224730	50.0000	52.33
148	Tert-Butyl alcohol	59	2.975	2.975	(0.617)	519523	1000.00	1103.09
149	Isopropyl Alcohol	45	2.570	2.570	(0.533)	334199	1000.00	1002.45
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	56792	50.0000	64.98
12	Isobutyl Alcohol	43	5.291	5.291	(1.098)	751430	1000.00	1134.07
13	Acetonitrile	39	2.678	2.678	(0.556)	304505	500.000	551.51
14	Allyl Chloride	41	2.678	2.678	(0.556)	673223	50.0000	50.84
25	Methacrylonitrile	41	4.500	4.500	(0.934)	158744	50.0000	52.68
40	Methyl Methacrylate	41	6.161	6.161	(1.278)	231910	50.0000	52.88
4	Propionitrile	54	4.343	4.343	(0.901)	385531	500.000	523.16
131	Methyl Acrylate	55	4.373	4.373	(0.907)	295682	50.0000	54.82
49	Ethyl Methacrylate	69	7.293	7.293	(1.312)	356562	50.0000	53.62
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	793408	50.0000	49.65
156	Diisopropyl ether	45	3.627	3.627	(0.753)	758792	50.0000	53.36

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230626,b\U062622,D
Date : 26-JUN-2023 20:47
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230626.b\U062622.D
Inj Date : 26-JUN-2023 20:47
InstruID : VOA9.i
LabSampID : CCV-END

NO MANUAL INTEGRATIONS

01199807

right solutions.
right partner.

Raw Data VOA9 440137

Volatiles by EPA 8260

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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\U230628.b\U062801.D Page 1
Report Date: 28-Jun-2023 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-JUN-2023 10:34
Operator : PC Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230628.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: NAHSTW7051

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	65872			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	12212			15.00- 40.00	18.54
9.194	9.180	(0.000)	75	32472			30.00- 60.00	49.30
9.194	9.180	(0.000)	96	4890			5.00- 9.00	7.42
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	59304			50.00- 0.00	90.03
9.194	9.180	(0.000)	175	4746			5.00- 9.00	8.00
9.194	9.180	(0.000)	176	58672			95.00- 101.00	98.93
9.194	9.180	(0.000)	177	4203			5.00- 9.00	7.16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.54
75	30.00 - 60.00% of mass 95	49.30
96	5.00 - 9.00% of mass 95	7.42
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	90.03
175	5.00 - 9.00% of mass 174	7.20 (8.00)
176	95.00 - 101.00% of mass 174	89.07 (98.93)
177	5.00 - 9.00% of mass 176	6.38 (7.16)

Data File: U062801.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 166

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1068	78.90	2234	118.90	409	168.90	131
37.00	3904	80.00	881	119.60	73	169.60	130
38.00	3689	80.90	2140	120.20	59	170.90	860
39.00	3995	81.90	492	122.10	91	171.90	360
39.90	1323	83.10	764	123.10	151	173.90	59304
41.00	3392	83.80	102	123.90	157	175.00	4746
42.00	4327	84.10	107	124.50	90	175.90	58672
43.00	5223	85.10	168	125.10	72	176.90	4203
43.90	2062	86.10	222	125.80	150	177.70	161
45.00	3196	87.00	2593	126.90	1698	179.00	55
46.00	278	87.90	2476	127.90	601	181.30	58
46.90	1022	88.60	125	128.70	211	183.00	52
48.00	728	89.10	111	129.70	327	183.90	61
49.00	2814	91.00	311	130.70	144	185.00	227
50.00	12212	92.00	1682	133.10	65	185.90	1493
51.00	4014	92.90	2659	135.00	137	187.10	97
51.90	444	94.00	9205	136.10	103	187.70	100
53.00	438	95.00	65872	136.90	209	188.70	53
53.90	587	96.00	4890	137.70	100	190.90	54
55.00	5247	96.90	466	138.70	189	193.50	58
56.00	1931	98.00	2530	139.70	205	195.00	66
57.00	2264	98.90	163	140.80	1419	197.70	66
58.00	1678	99.10	166	141.90	1596	204.50	59
59.00	6485	100.90	76	142.90	809	206.90	89
60.00	974	102.70	154	143.90	105	207.80	121
61.00	3034	103.90	449	145.00	120	211.40	81
62.00	3058	104.90	277	145.70	144	213.60	58
62.90	2560	105.70	315	146.60	86	214.70	74
63.90	425	105.90	318	147.80	204	218.20	56
65.00	420	107.00	235	148.60	60	226.90	53
66.00	185	108.90	321	149.80	97	227.80	57
68.00	7656	110.00	328	151.10	51	230.80	56
69.00	8029	110.80	239	152.10	59	234.90	53
70.00	1522	111.50	125	152.90	158	238.30	55
71.00	307	112.10	57	153.70	126	242.70	56
72.00	534	112.70	103	154.90	209	246.70	75
73.00	3142	113.50	54	157.00	184	270.00	55
74.00	11379	114.00	58	158.60	172	315.40	60
75.00	32472	114.90	129	160.80	162	322.20	79
76.00	3065	115.90	276	162.00	80	330.80	58
76.90	550	116.80	633	165.50	61		
77.90	448	117.70	309	167.70	137		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062801.D

Date : 28-JUN-2023 10:34

Client ID: BFB

Instrument: VOA9.i

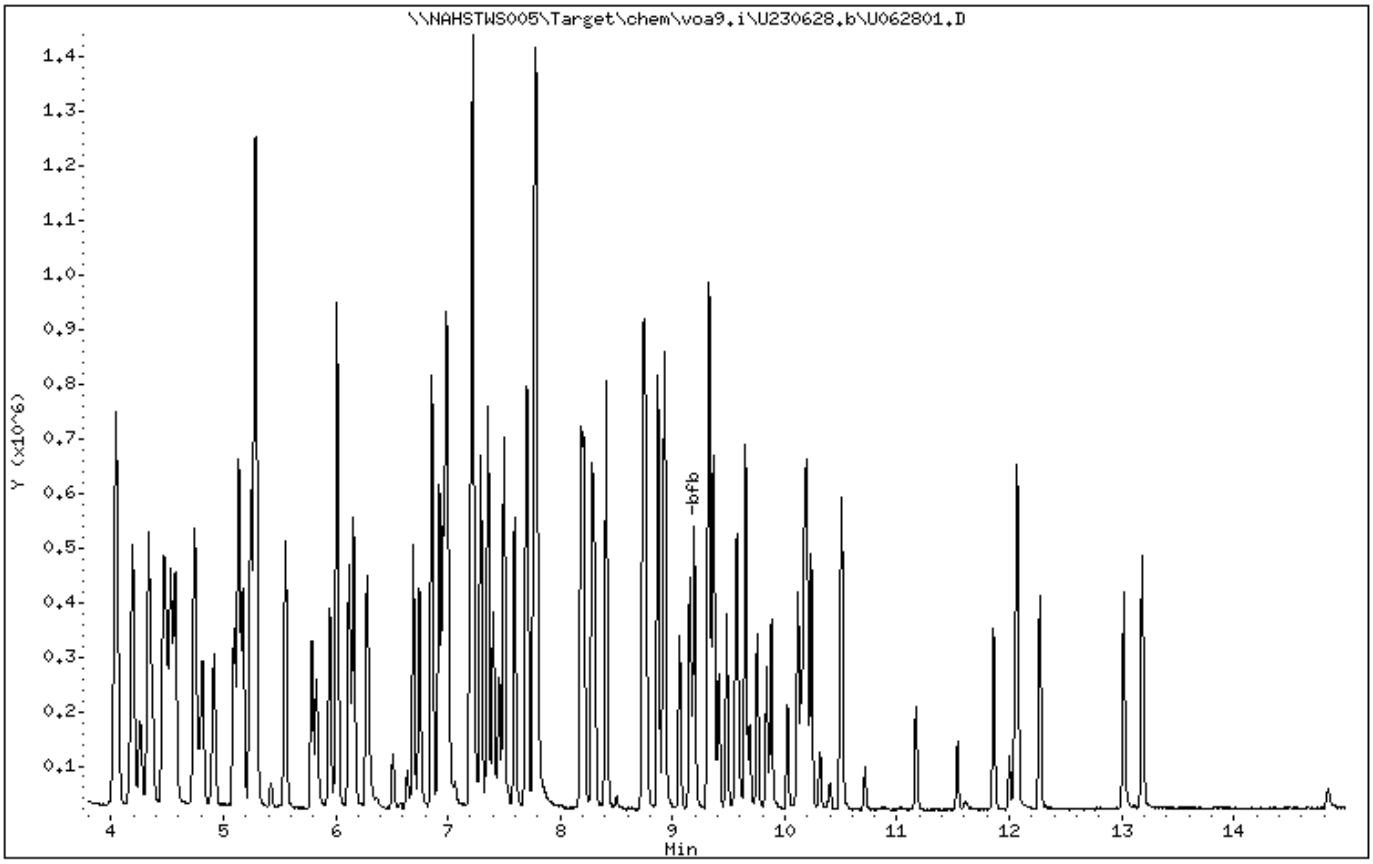
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062801.D

Date : 28-JUN-2023 10:34

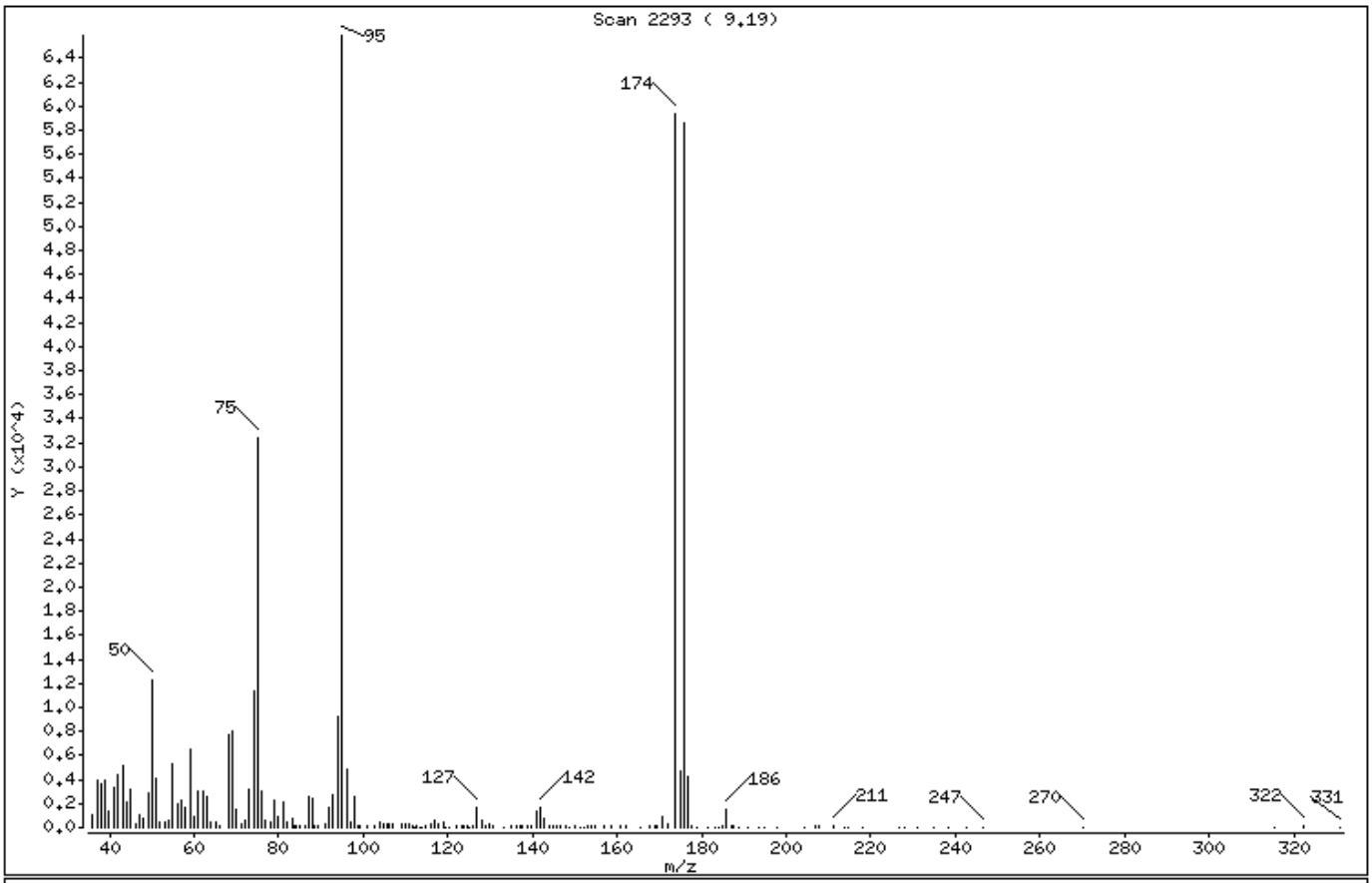
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.54
75	30.00 - 60.00% of mass 95	49.30
96	5.00 - 9.00% of mass 95	7.42
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	90.03
175	5.00 - 9.00% of mass 174	7.20 (8.00)
176	95.00 - 101.00% of mass 174	89.07 (98.93)
177	5.00 - 9.00% of mass 176	6.38 (7.16)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062801.D

Date : 28-JUN-2023 10:34

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U062801.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 166

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1068	78.90	2234	118.90	409	168.90	131
37.00	3904	80.00	881	119.60	73	169.60	130
38.00	3689	80.90	2140	120.20	59	170.90	860
39.00	3995	81.90	492	122.10	91	171.90	360
39.90	1323	83.10	764	123.10	151	173.90	59304
41.00	3392	83.80	102	123.90	157	175.00	4746
42.00	4327	84.10	107	124.50	90	175.90	58672
43.00	5223	85.10	168	125.10	72	176.90	4203
43.90	2062	86.10	222	125.80	150	177.70	161
45.00	3196	87.00	2593	126.90	1698	179.00	55
46.00	278	87.90	2476	127.90	601	181.30	58
46.90	1022	88.60	125	128.70	211	183.00	52
48.00	728	89.10	111	129.70	327	183.90	61
49.00	2814	91.00	311	130.70	144	185.00	227
50.00	12212	92.00	1682	133.10	65	185.90	1493
51.00	4014	92.90	2659	135.00	137	187.10	97
51.90	444	94.00	9205	136.10	103	187.70	100
53.00	438	95.00	65872	136.90	209	188.70	53
53.90	587	96.00	4890	137.70	100	190.90	54
55.00	5247	96.90	466	138.70	189	193.50	58
56.00	1931	98.00	2530	139.70	205	195.00	66
57.00	2264	98.90	163	140.80	1419	197.70	66
58.00	1678	99.10	166	141.90	1596	204.50	59
59.00	6485	100.90	76	142.90	809	206.90	89
60.00	974	102.70	154	143.90	105	207.80	121
61.00	3034	103.90	449	145.00	120	211.40	81
62.00	3058	104.90	277	145.70	144	213.60	58
62.90	2560	105.70	315	146.60	86	214.70	74
63.90	425	105.90	318	147.80	204	218.20	56
65.00	420	107.00	235	148.60	60	226.90	53
66.00	185	108.90	321	149.80	97	227.80	57
68.00	7656	110.00	328	151.10	51	230.80	56
69.00	8029	110.80	239	152.10	59	234.90	53
70.00	1522	111.50	125	152.90	158	238.30	55
71.00	307	112.10	57	153.70	126	242.70	56

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062801.D

Date : 28-JUN-2023 10:34

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: U062801.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 166

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	534	112.70	103	154.90	209	246.70	75
73.00	3142	113.50	54	157.00	184	270.00	55
74.00	11379	114.00	58	158.60	172	315.40	60
75.00	32472	114.90	129	160.80	162	322.20	79
76.00	3065	115.90	276	162.00	80	330.80	58
76.90	550	116.80	633	165.50	61		
77.90	448	117.70	309	167.70	137		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062803.D Page 1
Report Date: 29-Jun-2023 16:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062803.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 28-JUN-2023 11:19
Operator : PC Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\8260C.m
Meth Date : 29-Jun-2023 16:59 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	564266	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	261604	50.0000	50.17
3 Chloromethane	50	1.295	1.295	(0.269)	367875	50.0000	43.04
5 Vinyl Chloride	62	1.374	1.374	(0.285)	299310	50.0000	50.14
6 Bromomethane	94	1.617	1.617	(0.336)	168212	50.0000	54.98
7 Chloroethane	64	1.696	1.696	(0.352)	198400	50.0000	49.34
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	386863	50.0000	56.43
9 Acrolein	56	2.262	2.262	(0.470)	26199	100.000	87.47
10 Acetone	43	2.405	2.405	(0.499)	202443	100.000	104.71
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	221003	50.0000	51.59
15 Iodomethane	142	2.465	2.465	(0.512)	478048	100.000	134.83
16 Acrylonitrile	53	3.064	3.064	(0.636)	208532	100.000	99.65
17 Methylene Chloride	84	2.791	2.791	(0.580)	271312	50.0000	52.78
18 Methyl tert-butyl ether	73	3.079	3.079	(0.640)	697336	50.0000	53.09
19 Carbon Disulfide	76	2.517	2.517	(0.523)	1362959	100.000	119.03
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	241944	50.0000	51.94
21 Vinyl Acetate	43	3.604	3.604	(0.749)	1516686	100.000	106.81
22 1,1-Dichloroethane	63	3.514	3.514	(0.730)	436701	50.0000	49.33
24 2-Butanone	43	4.264	4.264	(0.886)	237342	100.000	92.25
26 2,2-Dichloropropane	77	4.181	4.181	(0.868)	341888	50.0000	58.34

27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	287559	50.0000	51.60
28 Chloroform	83	4.571	4.571 (0.949)	464335	50.0000	50.39

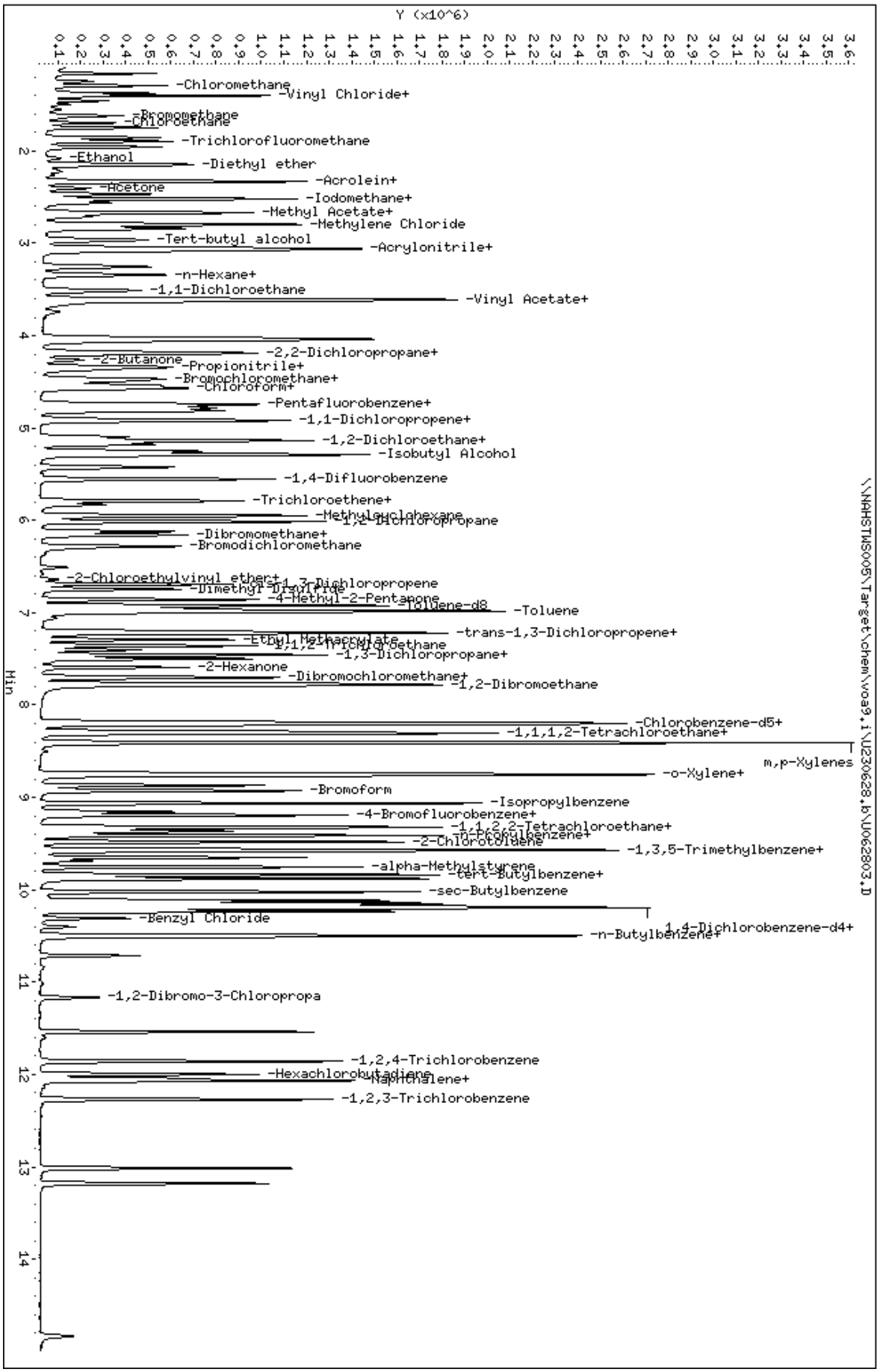
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
29	Bromochloromethane	128	4.470	4.470	(0.928)	156716	50.0000	50.27
$ 30	Dibromofluoromethane	113	4.747	4.747	(0.986)	243056	50.0000	51.32
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	381030	50.0000	54.26
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	324805	50.0000	54.59
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	378221	50.0000	53.82
34	Carbon Tetrachloride	117	4.909	4.909	(0.884)	316469	50.0000	57.90
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	259817	50.0000	50.70
* 36	1,4-Difluorobenzene	114	5.553	5.553	(1.000)	811834	50.0000	
37	Benzene	78	5.137	5.137	(0.925)	1022402	50.0000	52.26
38	Trichloroethene	130	5.790	5.790	(1.043)	291852	50.0000	51.47
39	Bromodichloromethane	83	6.281	6.281	(1.131)	344078	50.0000	56.38
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	6304	100.000	42.71
42	1,2-Dichloropropane	63	6.011	6.011	(1.082)	270868	50.0000	51.85
44	Dibromomethane	93	6.119	6.119	(1.102)	178099	50.0000	53.36
45	4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	565005	100.000	98.06
46	cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	417947	50.0000	51.07
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	791172	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	900063	50.0000	50.26
50	Toluene	91	6.982	6.982	(0.853)	1132024	50.0000	52.75
51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	352463	50.0000	51.30
52	2-Hexanone	43	7.593	7.593	(0.928)	371380	100.000	92.56
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	221422	50.0000	49.59
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	464199	50.0000	50.88
55	Dibromochloromethane	129	7.694	7.694	(0.940)	301778	50.0000	56.96
56	Tetrachloroethene	164	7.458	7.458	(0.911)	275754	50.0000	52.74
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	282025	50.0000	51.20
58	1-Chlorohexane	55	8.196	8.196	(1.476)	231668	50.0000	55.57
59	Chlorobenzene	112	8.211	8.211	(1.003)	794823	50.0000	51.89
60	1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	295649	50.0000	56.16
61	Ethylbenzene	106	8.305	8.305	(1.015)	389141	50.0000	54.59
62	m,p-Xylenes	106	8.410	8.410	(1.027)	975503	100.000	115.67
63	o-Xylene	106	8.747	8.747	(1.069)	474637	50.0000	56.97
64	Styrene	104	8.762	8.762	(1.071)	781540	50.0000	59.11
66	Bromoform	173	8.920	8.920	(1.090)	209281	50.0000	58.52
67	Isopropylbenzene	105	9.062	9.062	(1.107)	1158548	50.0000	57.89
68	1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	374036	50.0000	46.98
$ 69	4-Bromofluorobenzene	95	9.193	9.193	(1.123)	378401	50.0000	53.70
* 70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	423188	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	348738	50.0000	49.79
73	n-Propylbenzene	91	9.411	9.411	(0.925)	1233128	50.0000	55.55
74	Bromobenzene	156	9.317	9.317	(0.916)	361622	50.0000	50.64
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	853275	50.0000	56.03
76	2-Chlorotoluene	91	9.482	9.482	(0.932)	822186	50.0000	52.69
77	4-Chlorotoluene	91	9.576	9.576	(0.941)	929868	50.0000	53.83
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	826032	50.0000	55.22
79	1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	868631	50.0000	54.51
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	1072764	50.0000	56.55
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	916950	50.0000	57.70
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	615541	50.0000	50.75
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	641630	50.0000	49.62
87	n-Butylbenzene	91	10.490	10.490	(1.031)	772271	50.0000	56.76
88	1,2-Dichlorobenzene	146	10.505	10.505	(1.033)	610866	50.0000	50.23

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	55518	50.0000	47.79
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	427656	50.0000	51.13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
91	Hexachlorobutadiene	225	11.997	11.997	(1.179)	189117	50.0000	55.99	
92	Naphthalene	128	12.069	12.069	(1.186)	1014680	50.0000	52.22	
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	406578	50.0000	49.72	
M 94	1,2-Dichloroethylene (total)	96				529503	100.000		(a)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	72144	1000.00	643.89	
141	Cyclohexane	56	4.781	4.781	(0.993)	344756	50.0000	49.70	
138	Freon TF	101	2.333	2.333	(0.485)	210738	50.0000	55.60	
140	1,3-Butadiene	54	1.400	1.400	(0.291)	267220	50.0000	50.00	
147	Methylcyclohexane	55	5.947	5.947	(1.071)	593088	50.0000	52.66	
146	Methyl Acetate	43	2.712	2.712	(0.563)	219435	50.0000	46.18	
148	Tert-Butyl alcohol	59	2.967	2.967	(0.616)	548757	1000.00	1052.81	
149	Isopropyl Alcohol	45	2.558	2.558	(0.531)	355855	1000.00	964.69	
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	58276	50.0000	63.97	
12	Isobutyl Alcohol	43	5.287	5.287	(1.098)	864659	1000.00	1179.39	
13	Acetonitrile	39	2.671	2.671	(0.555)	315859	500.000	517.03	
14	Allyl Chloride	41	2.671	2.671	(0.555)	707358	50.0000	48.28	
25	Methacrylonitrile	41	4.493	4.493	(0.933)	172329	50.0000	51.69	
40	Methyl Methacrylate	41	6.157	6.157	(1.279)	252582	50.0000	52.06	
4	Propionitrile	54	4.339	4.339	(0.901)	380180	500.000	466.26	
162	Butyl acrylate	55	8.732	8.732	(1.067)	462984	50.0000	49.47	
203	2-Ethylhexyl Acrylate	55	12.042	12.042	(1.184)	214587	50.0000	52.61	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230628.b\U062803.D
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Sample Info: CCV,CCV,2,,,
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062803.D
Inj Date : 28-JUN-2023 11:19
InstruID : VOA9.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062804.D Page 1
Report Date: 29-Jun-2023 16:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062804.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 28-JUN-2023 12:21
Operator : PC Inst ID: VOA9.i
Smp Info : CCB;CCB;;;
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 29-Jun-2023 16:59 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	4.815	(1.000)	650565	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.747	(0.985)	265100	48.5386	48.53
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	299089	50.6269	50.62
* 36 1,4-Difluorobenzene	114	5.554	5.553	(1.000)	874711	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	795898	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	986570	54.7685	54.76
$ 69 4-Bromofluorobenzene	95	9.194	9.193	(1.123)	343494	48.3683	48.36
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	397840	50.0000	

01199823

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062804.D

Date : 28-JUN-2023 12:21

Client ID: CCB

Instrument: VOA9.i

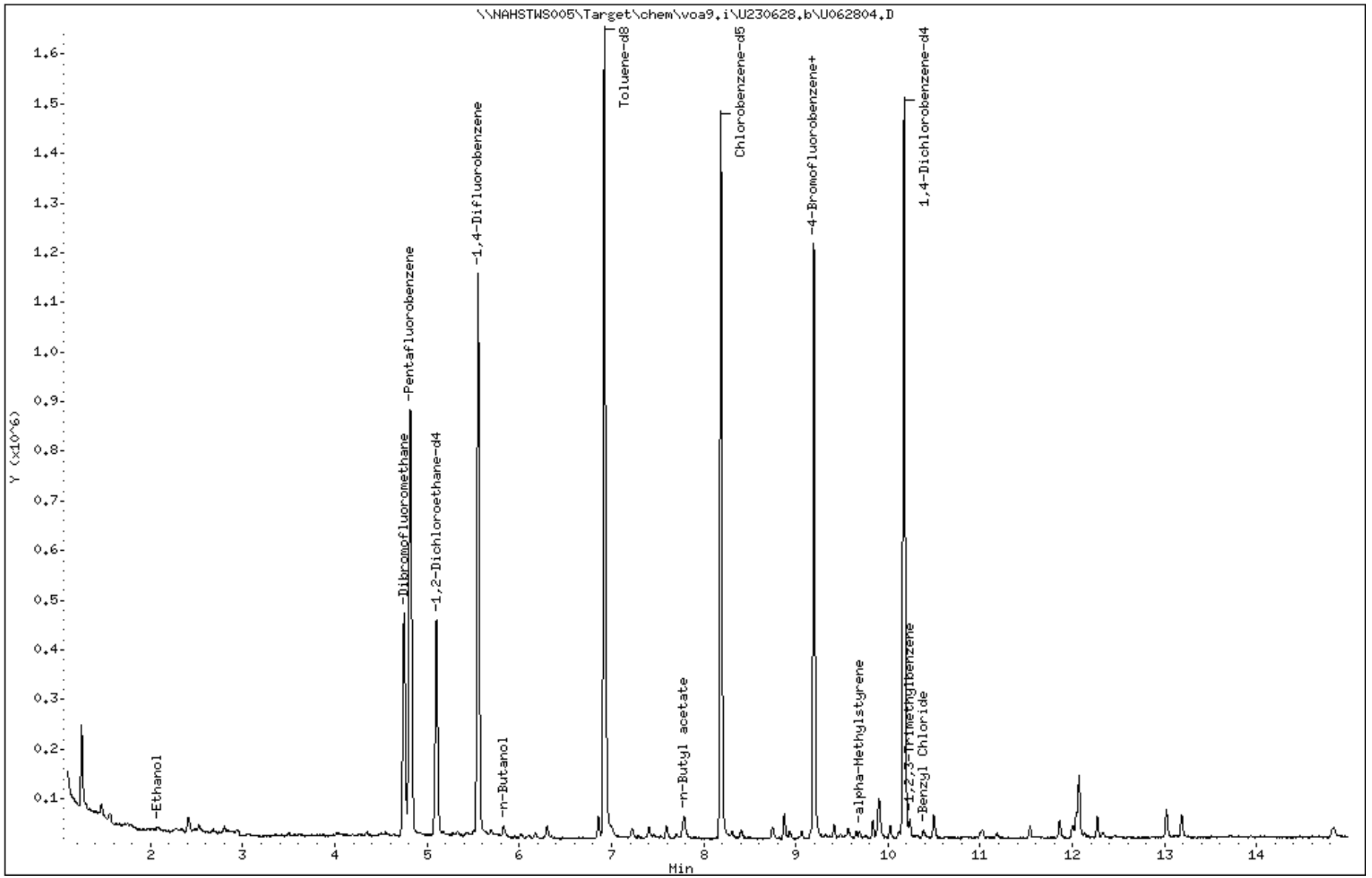
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 28-JUN-2023 12:21
InstruID : VOA9.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062805.D Page 1
Report Date: 29-Jun-2023 16:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062805.D
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Inj Date : 28-JUN-2023 12:44
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Smp Info : VLCSW-230628;VLCSW-230628;3;;LCS
Misc Info : V9;WATER;0;1;
Comment :
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Meth Date : 29-Jun-2023 16:59 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	4.815	(1.000)	554737	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.160	(0.243)	116958	22.8625	22.86
3	Chloromethane	50	1.303	1.295	(0.270)	166665	19.1086	19.10
5	Vinyl Chloride	62	1.381	1.374	(0.287)	127251	21.6867	21.68
6	Bromomethane	94	1.625	1.617	(0.337)	71938	22.8808	22.88
7	Chloroethane	64	1.708	1.696	(0.354)	86676	21.9286	21.92
8	Trichlorofluoromethane	101	1.902	1.895	(0.395)	167503	24.8552	24.85
9	Acrolein	56	2.270	2.262	(0.471)	12217	41.4916	41.49
10	Acetone	43	2.412	2.405	(0.501)	100355	49.9734	49.97
11	1,1-Dichloroethene	96	2.337	2.330	(0.485)	99029	23.5180	23.51
15	Iodomethane	142	2.476	2.465	(0.514)	185646	61.4539	61.45
16	Acrylonitrile	53	3.068	3.064	(0.637)	83541	40.6085	40.60
17	Methylene Chloride	84	2.802	2.791	(0.582)	119923	23.1647	23.16
18	Methyl tert-butyl ether	73	3.083	3.079	(0.640)	286701	22.2032	22.20
19	Carbon Disulfide	76	2.529	2.517	(0.525)	588516	52.2807	52.28
20	trans-1,2-Dichloroethene	96	3.065	3.057	(0.636)	104272	22.7702	22.77
21	Vinyl Acetate	43	3.612	3.604	(0.750)	622443	44.5901	44.59
22	1,1-Dichloroethane	63	3.522	3.514	(0.731)	189525	21.7779	21.77
24	2-Butanone	43	4.268	4.264	(0.886)	101130	39.9845	39.98
26	2,2-Dichloropropane	77	4.189	4.181	(0.869)	144153	25.2522	25.25

27	cis-1,2-Dichloroethene	96	4.200	4.193 (0.872)	120512	21.9976	21.99
28	Chloroform	83	4.575	4.571 (0.949)	196360	21.6791	21.67

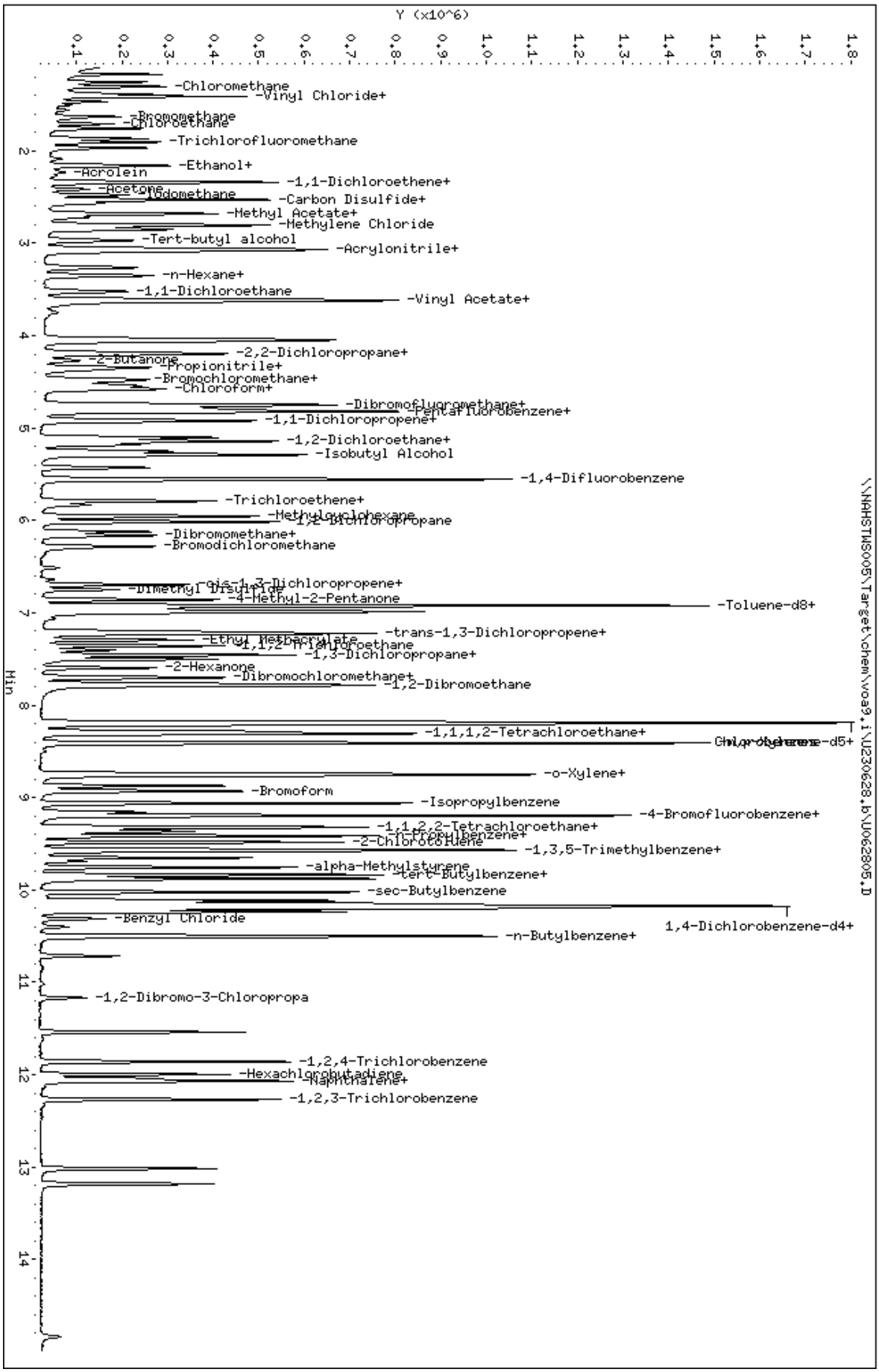
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	65922	21.5118	21.51
$	30 Dibromofluoromethane	113	4.751	4.747	(0.986)	233238	50.0919	50.09
	31 1,1,1-Trichloroethane	97	4.748	4.740	(0.985)	158994	23.0312	23.03
	32 1,1-Dichloropropene	75	4.924	4.920	(0.886)	141814	24.0941	24.09
	33 1,2-Dichloroethane	62	5.179	5.175	(0.932)	163503	23.5217	23.52
	34 Carbon Tetrachloride	117	4.913	4.909	(0.884)	130800	24.1931	24.19
$	35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	260211	51.6686	51.66
*	36 1,4-Difluorobenzene	114	5.557	5.553	(1.000)	803116	50.0000	
	37 Benzene	78	5.141	5.137	(0.925)	435983	22.5287	22.52
	38 Trichloroethene	130	5.790	5.790	(1.042)	123965	22.1006	22.10
	39 Bromodichloromethane	83	6.281	6.281	(1.130)	139545	23.1161	23.11
	42 1,2-Dichloropropane	63	6.015	6.011	(1.082)	112169	21.7083	21.70
	44 Dibromomethane	93	6.124	6.119	(1.102)	73661	22.3115	22.31
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	230022	41.3893	41.38
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	163890	21.4009	21.40
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	763175	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	875595	50.6920	50.69
	50 Toluene	91	6.982	6.982	(0.853)	479135	23.1475	23.14
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	133570	20.9022	20.90
	52 2-Hexanone	43	7.593	7.593	(0.928)	150825	38.9696	38.96
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	93297	21.6623	21.66
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	192990	21.9321	21.93
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	118922	23.2715	23.27
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	122990	24.3875	24.38
	57 1,2-Dibromoethane	107	7.788	7.784	(0.951)	115960	21.8260	21.82
	58 1-Chlorohexane	55	8.197	8.196	(1.475)	103230	25.0321	25.03
	59 Chlorobenzene	112	8.212	8.211	(1.003)	334067	22.6134	22.61
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	119468	23.5291	23.52
	61 Ethylbenzene	106	8.309	8.305	(1.015)	162602	23.6484	23.64
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	393728	48.4000	48.40(M)
	63 o-Xylene	106	8.748	8.747	(1.069)	191729	23.8575	23.85
	64 Styrene	104	8.763	8.762	(1.071)	317258	24.8760	24.87
	66 Bromoform	173	8.920	8.920	(1.090)	76160	22.0793	22.07
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	486806	25.2197	25.21
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.328	(0.917)	152067	19.9604	19.96
$	69 4-Bromofluorobenzene	95	9.194	9.193	(1.123)	358233	52.6861	52.68
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	405016	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	137716	20.5478	20.54
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	511295	24.0673	24.06
	74 Bromobenzene	156	9.317	9.317	(0.916)	151814	22.2155	22.21
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	358435	24.5931	24.59
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	342279	22.9193	22.91
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	391028	23.6550	23.65
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	345677	24.1484	24.14
	79 1,2,4-Trimethylbenzene	105	9.880	9.879	(0.971)	375046	24.5936	24.59(M)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	450303	24.8052	24.80
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	385007	25.3153	25.31
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	260173	22.4158	22.41
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	273261	22.0815	22.08
	87 n-Butylbenzene	91	10.494	10.490	(1.032)	320732	24.6343	24.63
	88 1,2-Dichlorobenzene	146	10.506	10.505	(1.033)	259800	22.3248	22.32
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	21696	19.5159	19.51

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	170271	21.2721	21.27
91 Hexachlorobutadiene	225	11.998	11.997 (1.179)	77981	24.1237	24.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	404716	21.7668	21.76
	93 1,2,3-Trichlorobenzene	180	12.271	12.267	(1.206)	167168	21.3628	21.36
M	94 1,2-Dichloroethylene (total)	96				224784	44.7678	44.76
M	95 Xylenes (total)	106				585457	72.2575	72.25
	135 1,4-Dioxane	88	6.172	6.168	(1.281)	29215	265.229	265.22
	141 Cyclohexane	56	4.785	4.781	(0.993)	161020	24.0330	24.03
	138 Freon TF	101	2.341	2.333	(0.486)	93469	25.0879	25.08
	140 1,3-Butadiene	54	1.408	1.400	(0.292)	112039	21.3262	21.32
	147 Methylcyclohexane	55	5.951	5.947	(1.071)	233982	21.0023	21.00
	146 Methyl Acetate	43	2.720	2.712	(0.564)	92106	19.7190	19.71
	148 Tert-Butyl alcohol	59	2.967	2.967	(0.616)	230165	446.326	446.32
	149 Isopropyl Alcohol	45	2.566	2.558	(0.533)	144690	398.982	398.98
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.377	(1.146)	21213	24.1405	24.14
	12 Isobutyl Alcohol	43	5.291	5.287	(1.098)	308017	427.352	427.35
	13 Acetonitrile	39	2.678	2.671	(0.556)	127772	212.744	212.74
	14 Allyl Chloride	41	2.678	2.671	(0.556)	290289	20.1557	20.15
	25 Methacrylonitrile	41	4.500	4.493	(0.934)	72996	22.2719	22.27
	40 Methyl Methacrylate	41	6.161	6.157	(1.278)	98942	20.7437	20.74
	4 Propionitrile	54	4.343	4.339	(0.901)	158101	197.229	197.22(a)
	162 Butyl acrylate	55	8.736	8.732	(1.067)	177627	19.6763	19.67
	203 2-Ethylhexyl Acrylate	55	12.043	12.042	(1.184)	87496	24.0651	24.06

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230628.b\U062805.D
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Client ID: VLCSW-230628
Sample Info: VLCSW-230628;VLCSW-230628;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

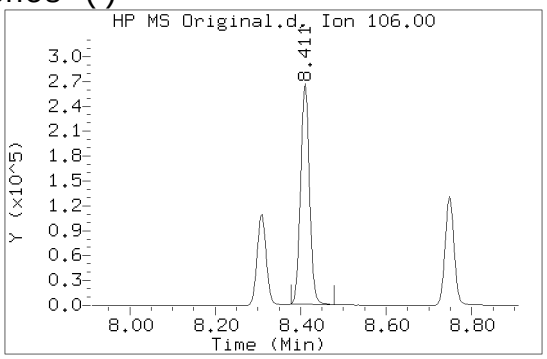
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InstruID : VOA9.i
LabSampID : VLCSW-230628

m,p-Xylenes ()

Reason Code:

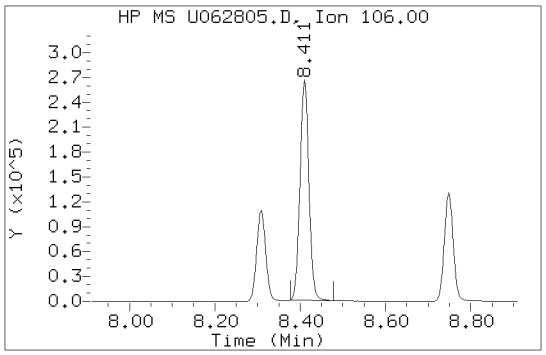
BEFORE

MASS
106
AREA
393728
HEIGHT
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29-Jun-2023
16:59
linh
pham



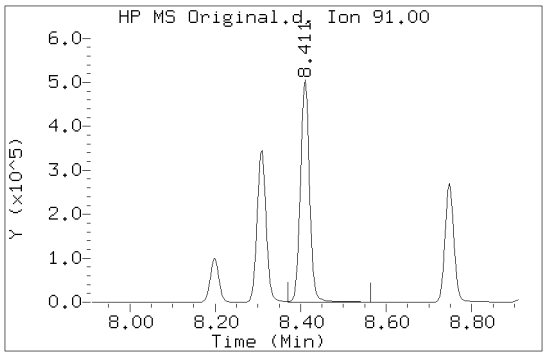
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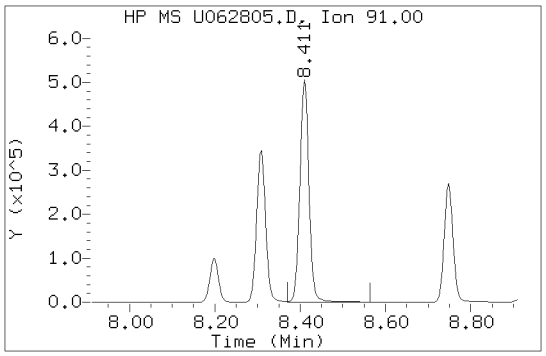
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29-Jun-2023
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AFTER

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29-Jun-2023
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pham

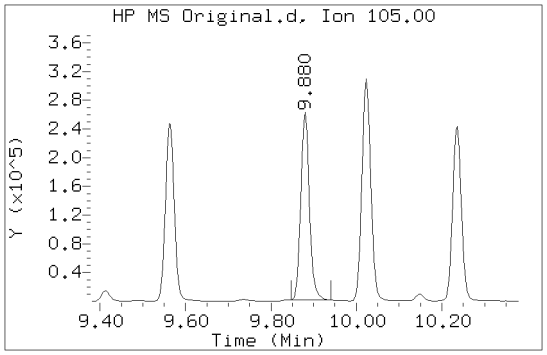


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

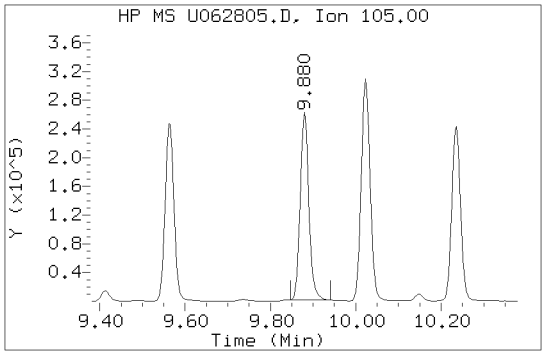
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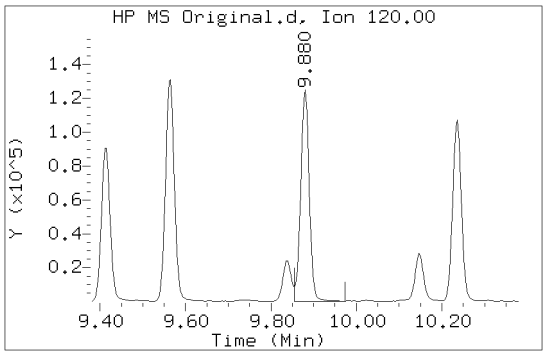
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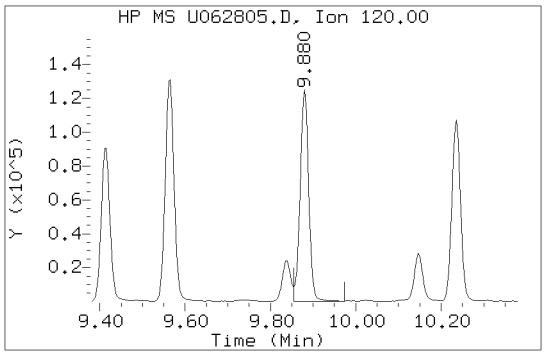
BEFORE

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124958
29-Jun-2023
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linh
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AFTER

MASS
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HEIGHT
124958
29-Jun-2023
16:59
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062807.D Page 1
Report Date: 29-Jun-2023 16:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062807.D
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Inj Date : 28-JUN-2023 13:28
Operator : PC Inst ID: VOA9.i
Smp Info : VBLKW-230628;VBLKW-230628;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\8260C.m
Meth Date : 29-Jun-2023 16:59 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	4.815	(1.000)	618517	50.0000	
$ 30 Dibromofluoromethane	113	4.752	4.747	(0.986)	258580	49.8062	49.80
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	298518	53.1825	53.18
* 36 1,4-Difluorobenzene	114	5.554	5.553	(1.000)	832888	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	769689	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	937790	53.8332	53.83
$ 69 4-Bromofluorobenzene	95	9.194	9.193	(1.123)	322455	46.9254	46.92
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	382144	50.0000	

01199833

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062807.D

Date : 28-JUN-2023 13:28

Client ID: VBLKW-230628

Instrument: VOA9.i

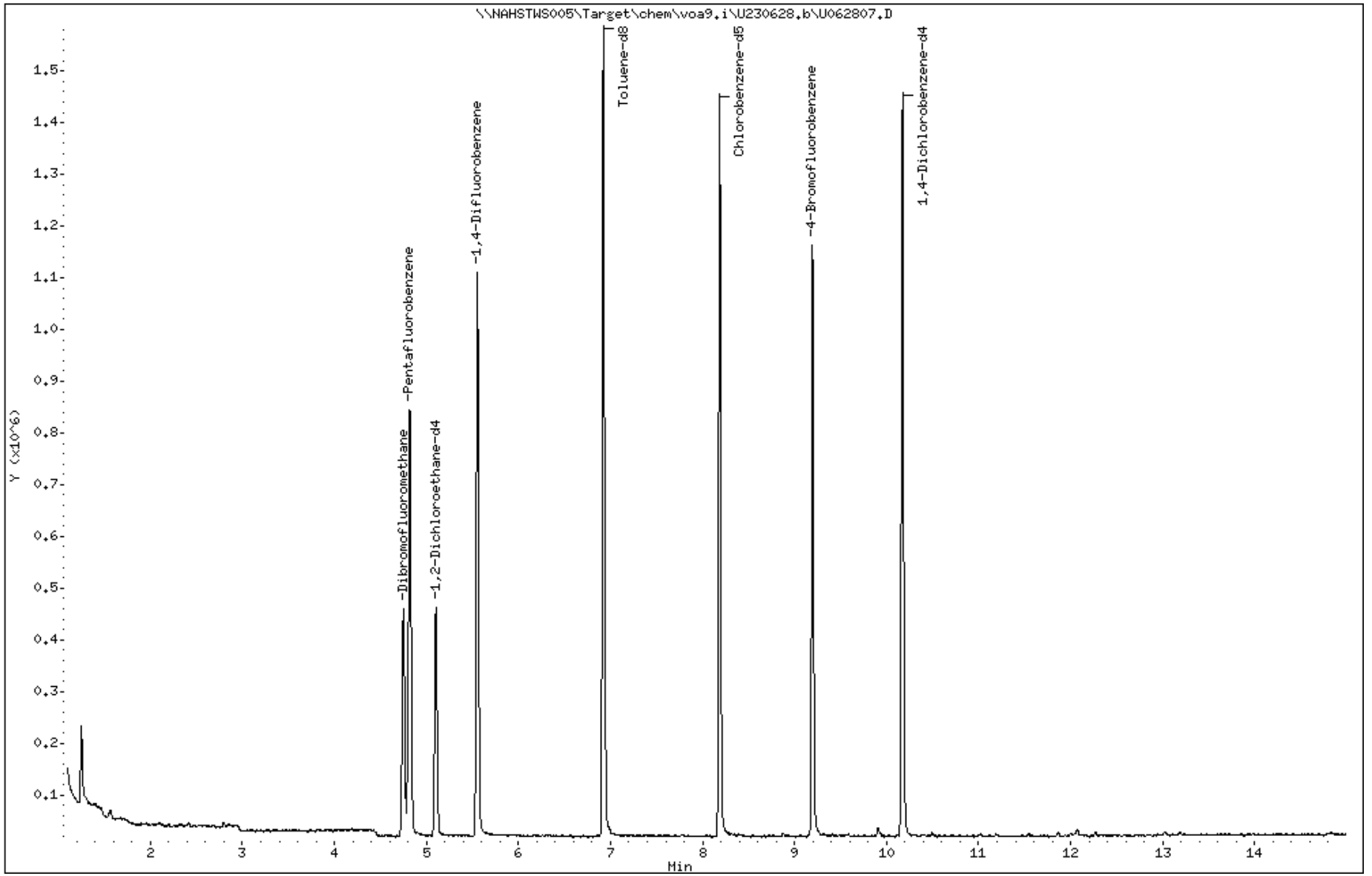
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062807.D
Inj Date : 28-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VBLKW-230628

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062811.D Page 1
Report Date: 29-Jun-2023 16:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062811.D
Lab Smp Id: HS23061825-05MS Client Smp ID: HS23061825-05MS
Inj Date : 28-JUN-2023 14:58
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061825-05MS;HS23061825-05MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\8260C.m
Meth Date : 29-Jun-2023 16:59 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.819	4.815	(1.000)	624968	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.160	(0.242)	101216	17.5805	17.58
3	Chloromethane	50	1.303	1.295	(0.270)	165372	16.6688	16.66
5	Vinyl Chloride	62	1.381	1.374	(0.287)	129438	19.5804	19.58
6	Bromomethane	94	1.625	1.617	(0.337)	75199	21.0976	21.09
7	Chloroethane	64	1.704	1.696	(0.354)	86283	19.3761	19.37
8	Trichlorofluoromethane	101	1.902	1.895	(0.395)	180664	23.7955	23.79
9	Acrolein	56	2.270	2.262	(0.471)	9596	28.9278	28.92
10	Acetone	43	2.416	2.405	(0.501)	78475	32.9407	32.94
11	1,1-Dichloroethene	96	2.337	2.330	(0.485)	99774	21.0322	21.03
15	Iodomethane	142	2.472	2.465	(0.513)	128787	41.9736	41.97
16	Acrylonitrile	53	3.072	3.064	(0.638)	87066	37.5660	37.56
17	Methylene Chloride	84	2.798	2.791	(0.581)	112788	19.1685	19.16
18	Methyl tert-butyl ether	73	3.087	3.079	(0.641)	289831	19.9233	19.92
19	Carbon Disulfide	76	2.525	2.517	(0.524)	537421	42.3767	42.37
20	trans-1,2-Dichloroethene	96	3.065	3.057	(0.636)	105148	20.3812	20.38
21	Vinyl Acetate	43	3.612	3.604	(0.750)	589449	37.4813	37.48
22	1,1-Dichloroethane	63	3.518	3.514	(0.730)	185293	18.8990	18.89
24	2-Butanone	43	4.272	4.264	(0.886)	94939	33.3185	33.31
26	2,2-Dichloropropane	77	4.185	4.181	(0.869)	147086	22.9081	22.90

27	cis-1,2-Dichloroethene	96	4.200	4.193 (0.872)	121937	19.7565	19.75
28	Chloroform	83	4.575	4.571 (0.949)	197717	19.3759	19.37

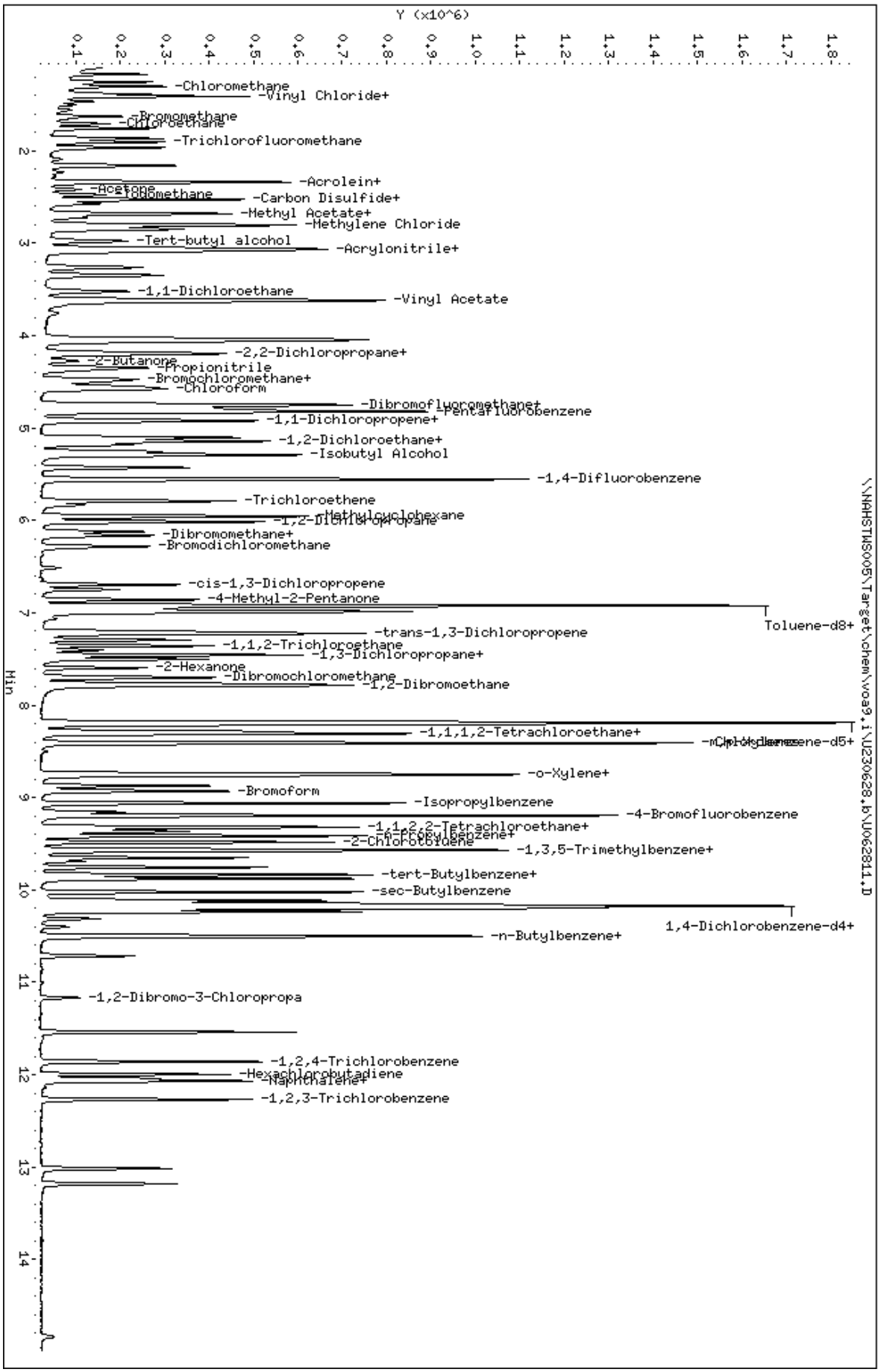
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	29 Bromochloromethane	128	4.474	4.470	(0.928)	64895	18.7969	18.79
$	30 Dibromofluoromethane	113	4.751	4.747	(0.986)	265246	50.5676	50.56
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.984)	170968	21.9826	21.98
	32 1,1-Dichloropropene	75	4.924	4.920	(0.887)	143553	23.0990	23.09
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	157437	21.4506	21.45
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	141678	24.8184	24.81
$	35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	295318	52.0550	52.05
*	36 1,4-Difluorobenzene	114	5.554	5.553	(1.000)	847987	50.0000	
	37 Benzene	78	5.141	5.137	(0.926)	426771	20.8858	20.88
	38 Trichloroethene	130	5.790	5.790	(1.043)	141557	23.9015	23.90
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	135781	21.3024	21.30
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	110582	20.2688	20.26
	44 Dibromomethane	93	6.123	6.119	(1.103)	71468	20.5018	20.50
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	209256	36.1982	36.19
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	152929	19.1352	19.13
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	793841	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	980954	54.5978	54.59
	50 Toluene	91	6.982	6.982	(0.853)	479706	22.2798	22.27
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	131917	19.6818	19.68
	52 2-Hexanone	43	7.593	7.593	(0.928)	138363	34.3687	34.36
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	87234	19.4721	19.47
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	186757	20.4039	20.40
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	113229	21.3015	21.30
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	124528	23.7386	23.73
	57 1,2-Dibromoethane	107	7.788	7.784	(0.951)	111096	20.1028	20.10
	58 1-Chlorohexane	55	8.197	8.196	(1.476)	108569	24.9337	24.93
	59 Chlorobenzene	112	8.212	8.211	(1.003)	327736	21.3279	21.32
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	115563	21.8808	21.88
	61 Ethylbenzene	106	8.309	8.305	(1.015)	162791	22.7613	22.76
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	399619	47.2265	47.22
	63 o-Xylene	106	8.748	8.747	(1.069)	188660	22.5687	22.56
	64 Styrene	104	8.763	8.762	(1.071)	306398	23.0964	23.09
	66 Bromoform	173	8.920	8.920	(1.090)	73047	20.3588	20.35
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	492183	24.5133	24.51
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.328	(0.917)	144113	17.9089	17.90
$	69 4-Bromofluorobenzene	95	9.194	9.193	(1.123)	359860	50.8498	50.84
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	427798	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	132631	18.7353	18.73
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	530593	23.6457	23.64
	74 Bromobenzene	156	9.317	9.317	(0.916)	147532	20.4392	20.43
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	352888	22.9231	22.92
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	346640	21.9752	21.97
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	388584	22.2553	22.25
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	350607	23.1884	23.18
	79 1,2,4-Trimethylbenzene	105	9.880	9.879	(0.971)	354603	22.0147	22.01
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	452884	23.6188	23.61
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	384911	23.9611	23.96
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	255886	20.8724	20.87
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	259239	19.8328	19.83
	87 n-Butylbenzene	91	10.491	10.490	(1.031)	323101	23.4947	23.49
	88 1,2-Dichlorobenzene	146	10.506	10.505	(1.033)	247834	20.1624	20.16
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	19307	16.4421	16.44

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	159330	18.8452	18.84	
91 Hexachlorobutadiene	225	11.998	11.997 (1.179)	77565	22.7172	22.71	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	335624	17.0895	17.08
	93 1,2,3-Trichlorobenzene	180	12.268	12.267	(1.206)	149212	18.0527	18.05
M	94 1,2-Dichloroethylene (total)	96				227085	40.1377	40.13
M	95 Xylenes (total)	106				588279	69.7953	69.79
	135 1,4-Dioxane	88	6.172	6.168	(1.281)	27052	217.994	217.99
	141 Cyclohexane	56	4.785	4.781	(0.993)	170136	22.5687	22.56
	138 Freon TF	101	2.341	2.333	(0.486)	105170	25.0564	25.05
	140 1,3-Butadiene	54	1.408	1.400	(0.292)	113892	19.2428	19.24
	147 Methylcyclohexane	55	5.951	5.947	(1.072)	267152	22.7107	22.71
	146 Methyl Acetate	43	2.720	2.712	(0.564)	92892	17.6524	17.65
	148 Tert-Butyl alcohol	59	2.975	2.967	(0.617)	209219	359.159	359.15
	149 Isopropyl Alcohol	45	2.570	2.558	(0.533)	135358	331.305	331.30
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	20688	22.6336	22.63
	12 Isobutyl Alcohol	43	5.291	5.287	(1.098)	339925	418.624	418.62
	13 Acetonitrile	39	2.678	2.671	(0.556)	143862	212.616	212.61
	14 Allyl Chloride	41	2.678	2.671	(0.556)	315190	19.4254	19.42
	25 Methacrylonitrile	41	4.500	4.493	(0.934)	66207	17.9305	17.93
	40 Methyl Methacrylate	41	6.161	6.157	(1.278)	97717	18.1847	18.18
	4 Propionitrile	54	4.347	4.339	(0.902)	160239	177.433	177.43(a)
	162 Butyl acrylate	55	8.736	8.732	(1.067)	181575	19.3366	19.33
	203 2-Ethylhexyl Acrylate	55	12.043	12.042	(1.184)	89742	23.4323	23.43

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230628.b\U062811.D
Date : 28-JUN-2023 14:58
Client ID: HS23061825-05MS
Sample Info: HS23061825-05MS;HS23061825-05MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062811.D
Inj Date : 28-JUN-2023 14:58
InstruID : VOA9.i
LabSampID : HS23061825-05MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062812.D Page 1
Report Date: 29-Jun-2023 16:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062812.D
Lab Smp Id: HS23061825-05MSD Client Smp ID: HS23061825-05MSD
Inj Date : 28-JUN-2023 15:20
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061825-05MSD;HS23061825-05MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\8260C.m
Meth Date : 29-Jun-2023 16:59 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 11 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	639964	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.160	(0.242)	97709	16.5782	16.57
3 Chloromethane	50	1.295	1.295	(0.269)	168868	16.6185	16.61
5 Vinyl Chloride	62	1.378	1.374	(0.286)	126024	18.6173	18.61
6 Bromomethane	94	1.617	1.617	(0.336)	74308	20.2947	20.29
7 Chloroethane	64	1.700	1.696	(0.353)	84566	18.5455	18.54
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	177274	22.8019	22.80
9 Acrolein	56	2.266	2.262	(0.471)	10937	32.1978	32.19
10 Acetone	43	2.408	2.405	(0.500)	83277	34.3446	34.34
11 1,1-Dichloroethene	96	2.333	2.330	(0.485)	97717	20.1159	20.11
15 Iodomethane	142	2.468	2.465	(0.513)	138499	43.5570	43.55
16 Acrylonitrile	53	3.068	3.064	(0.637)	93511	39.4014	39.40
17 Methylene Chloride	84	2.795	2.791	(0.580)	111854	18.5320	18.53
18 Methyl tert-butyl ether	73	3.083	3.079	(0.640)	294869	19.7946	19.79
19 Carbon Disulfide	76	2.521	2.517	(0.524)	527850	40.6467	40.64
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	103395	19.5718	19.57
21 Vinyl Acetate	43	3.608	3.604	(0.749)	606185	37.6423	37.64
22 1,1-Dichloroethane	63	3.514	3.514	(0.730)	186502	18.5765	18.57
24 2-Butanone	43	4.268	4.264	(0.886)	97312	33.3511	33.35
26 2,2-Dichloropropane	77	4.182	4.181	(0.868)	147863	22.4968	22.49

27	cis-1,2-Dichloroethene	96	4.197	4.193 (0.872)	118646	18.7728	18.77
28	Chloroform	83	4.571	4.571 (0.949)	193062	18.4763	18.47

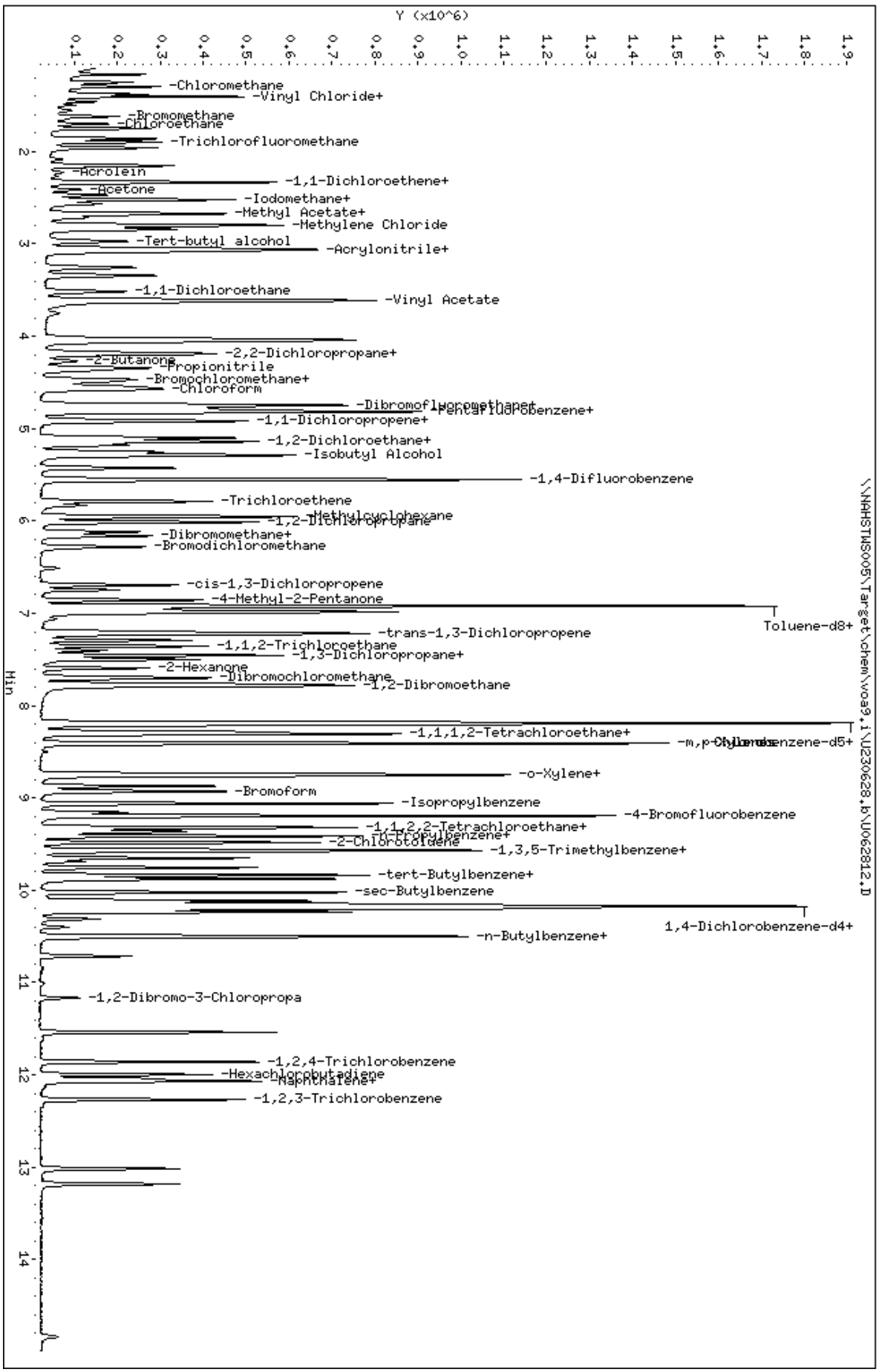
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	63108	17.8510	17.85
$	30 Dibromofluoromethane	113	4.748	4.747	(0.986)	268126	49.9148	49.91
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.985)	166715	20.9335	20.93
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	143179	22.4821	22.48
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	159440	21.1985	21.19
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	139901	23.9149	23.91
$	35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.059)	301005	51.8110	51.81
*	36 1,4-Difluorobenzene	114	5.554	5.553	(1.000)	868987	50.0000	
	37 Benzene	78	5.138	5.137	(0.925)	426700	20.3777	20.37
	38 Trichloroethene	130	5.790	5.790	(1.043)	134489	22.1593	22.15
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	135562	20.7541	20.75
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	109771	19.6339	19.63
	44 Dibromomethane	93	6.120	6.119	(1.102)	73948	20.7005	20.70
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	224617	37.7472	37.74
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	155272	18.9765	18.97
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	817148	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	998169	53.9714	53.97
	50 Toluene	91	6.982	6.982	(0.853)	467662	21.1009	21.10
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	129243	18.9057	18.90
	52 2-Hexanone	43	7.593	7.593	(0.928)	146885	35.4448	35.44
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	88736	19.2424	19.24
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	184616	19.5947	19.59
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	115769	21.1582	21.15
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	121430	22.4878	22.48
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	113290	19.9151	19.91
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	105646	23.6760	23.67
	59 Chlorobenzene	112	8.211	8.211	(1.003)	328598	20.7741	20.77
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.286	(1.012)	115886	21.3161	21.31
	61 Ethylbenzene	106	8.305	8.305	(1.015)	162590	22.0848	22.08
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	397089	45.5891	45.58
	63 o-Xylene	106	8.747	8.747	(1.069)	191153	22.2148	22.21
	64 Styrene	104	8.762	8.762	(1.071)	314973	23.0656	23.06
	66 Bromoform	173	8.920	8.920	(1.090)	75193	20.3592	20.35
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	492867	23.8472	23.84
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.328	(0.917)	149508	17.8272	17.82
$	69 4-Bromofluorobenzene	95	9.194	9.193	(1.123)	375995	51.6280	51.62
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	445848	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	136700	18.5283	18.52
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	530417	22.6808	22.68
	74 Bromobenzene	156	9.317	9.317	(0.916)	149912	19.9281	19.92
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	353216	22.0155	22.01
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	341139	20.7510	20.75
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	385688	21.1952	21.19
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	353140	22.4104	22.41
	79 1,2,4-Trimethylbenzene	105	9.880	9.879	(0.971)	356661	21.2460	21.24
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	449845	22.5105	22.51
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	378869	22.6302	22.63
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	254810	19.9432	19.94
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	265855	19.5155	19.51
	87 n-Butylbenzene	91	10.491	10.490	(1.031)	324786	22.6611	22.66
	88 1,2-Dichlorobenzene	146	10.506	10.505	(1.033)	248508	19.3988	19.39
	89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	19823	16.1981	16.19

90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	161468	18.3249	18.32
91 Hexachlorobutadiene	225	11.998	11.997 (1.179)	75527	21.2248	21.22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	92 Naphthalene	128	12.069	12.069	(1.186)	371020	18.1270	18.12
	93 1,2,3-Trichlorobenzene	180	12.268	12.267	(1.206)	153323	17.7991	17.79
M	94 1,2-Dichloroethylene (total)	96				222041	38.3446	38.34
M	95 Xylenes (total)	106				588242	67.8038	67.80
	135 1,4-Dioxane	88	6.172	6.168	(1.282)	29805	234.550	234.55
	141 Cyclohexane	56	4.781	4.781	(0.993)	168225	21.8073	21.80
	138 Freon TF	101	2.333	2.333	(0.485)	102633	23.8790	23.87
	140 1,3-Butadiene	54	1.404	1.400	(0.292)	115237	19.0138	19.01
	147 Methylcyclohexane	55	5.951	5.947	(1.072)	266630	22.1186	22.11
	146 Methyl Acetate	43	2.712	2.712	(0.563)	95472	17.7176	17.71
	148 Tert-Butyl alcohol	59	2.971	2.967	(0.617)	221259	371.089	371.08
	149 Isopropyl Alcohol	45	2.566	2.558	(0.533)	142493	340.596	340.59
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	21636	22.9956	22.99
	12 Isobutyl Alcohol	43	5.287	5.287	(1.098)	345959	416.071	416.07
	13 Acetonitrile	39	2.671	2.671	(0.555)	144353	208.343	208.34
	14 Allyl Chloride	41	2.671	2.671	(0.555)	319971	19.2579	19.25
	25 Methacrylonitrile	41	4.496	4.493	(0.934)	73915	19.5489	19.54
	40 Methyl Methacrylate	41	6.157	6.157	(1.279)	100204	18.2105	18.21
	4 Propionitrile	54	4.339	4.339	(0.901)	172163	186.169	186.16(a)
	162 Butyl acrylate	55	8.732	8.732	(1.067)	187247	19.3719	19.37
	203 2-Ethylhexyl Acrylate	55	12.043	12.042	(1.184)	95052	23.7781	23.77

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\woa9.i\U230628.b\U062812.D
Date : 28-JUN-2023 15:20
Client ID: HS230618Z5-05MSD
Sample Info: HS230618Z5-05MSD;HS230618Z5-05MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: WOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062812.D
Inj Date : 28-JUN-2023 15:20
InstruID : VOA9.i
LabSampID : HS23061825-05MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062813.D Page 1
Report Date: 29-Jun-2023 16:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062813.D
Lab Smp Id: HS23061557-03 Client Smp ID: HS23061557-03
Inj Date : 28-JUN-2023 15:43
Operator : PC Inst ID: VOA9.i
Smp Info : HS23061557-03;HS23061557-03;;;
Misc Info : V9;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\8260C.m
Meth Date : 29-Jun-2023 16:59 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 12
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	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	4.819	4.815	(1.000)	645705	50.0000	
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.871)	4805	0.75351	37.67(a)
$	30 Dibromofluoromethane	113	4.752	4.747	(0.986)	260830	48.1135	48.11
$	35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	298797	50.9627	50.96
*	36 1,4-Difluorobenzene	114	5.554	5.553	(1.000)	857635	50.0000	
	38 Trichloroethene	130	5.790	5.790	(1.043)	201547	33.6478	1682.39
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	785258	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	970765	54.6213	54.62
$	69 4-Bromofluorobenzene	95	9.194	9.193	(1.123)	330210	47.1046	47.10
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	393090	50.0000	
M	94 1,2-Dichloroethylene (total)	96				4805	0.75351	37.67(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01199850

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062813.D

Date : 28-JUN-2023 15:43

Client ID: HS23061557-03

Instrument: VOA9.i

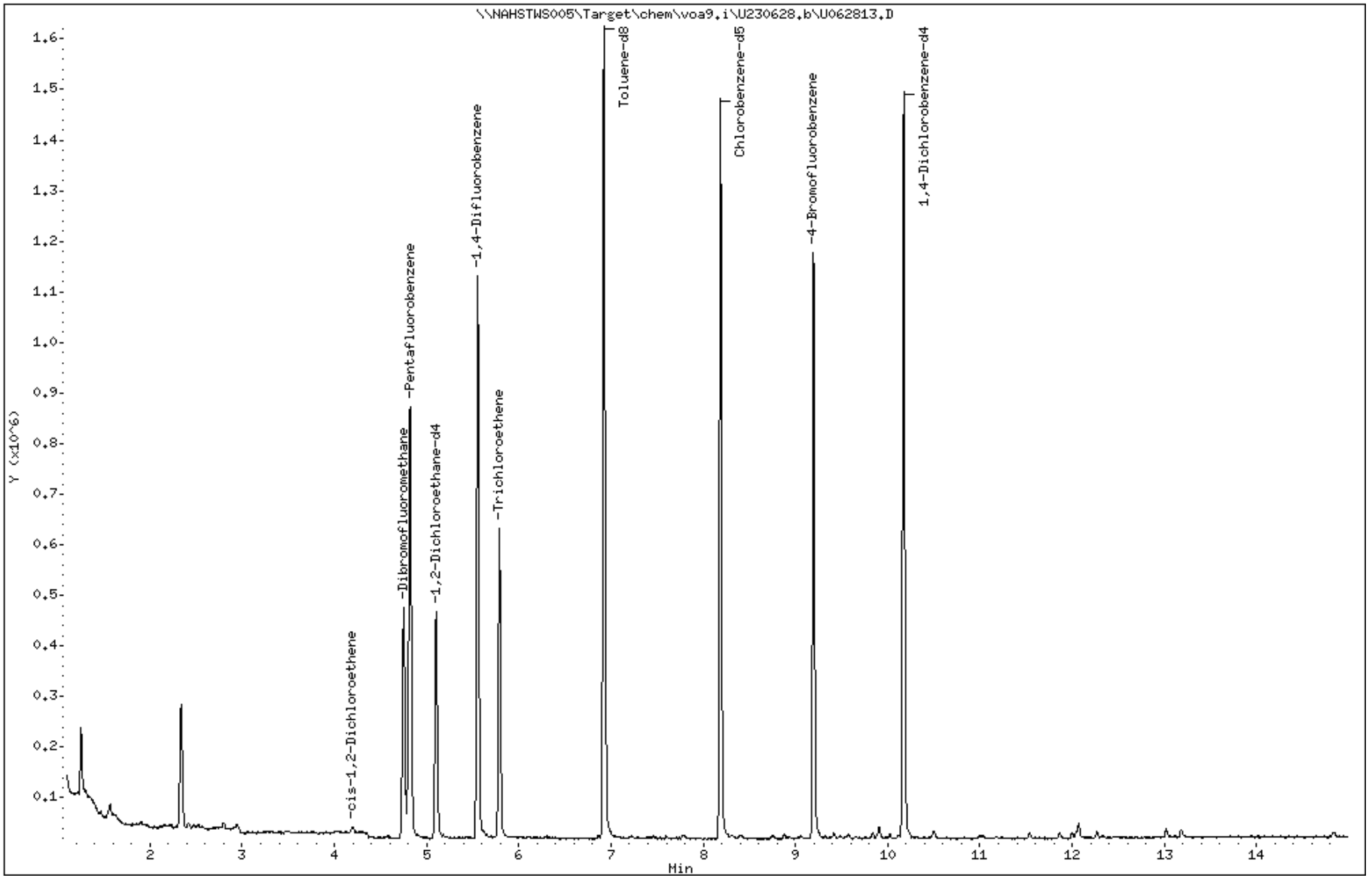
Sample Info: HS23061557-03;HS23061557-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062813.D

Date : 28-JUN-2023 15:43

Client ID: HS23061557-03

Instrument: VOA9.i

Sample Info: HS23061557-03;HS23061557-03;;;

Purge Volume: 5.0

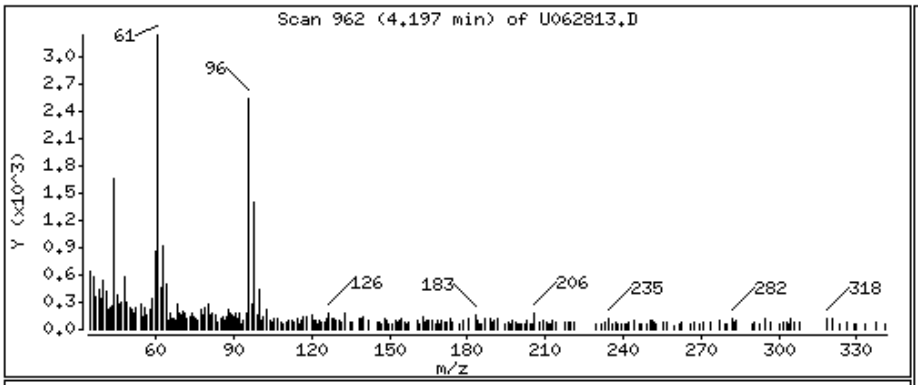
Operator: PC

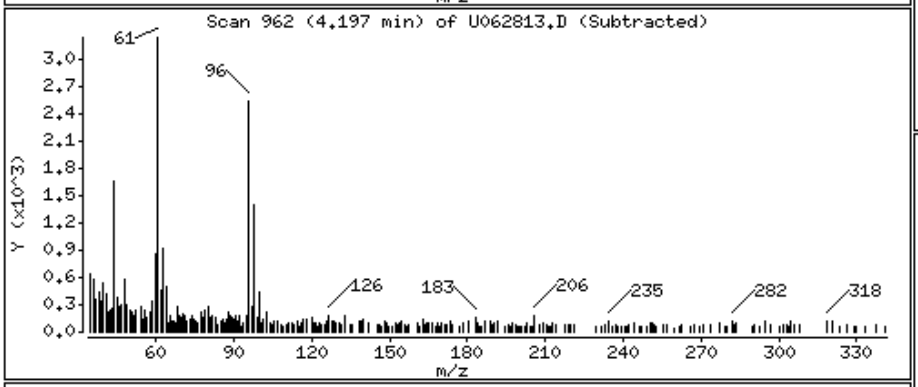
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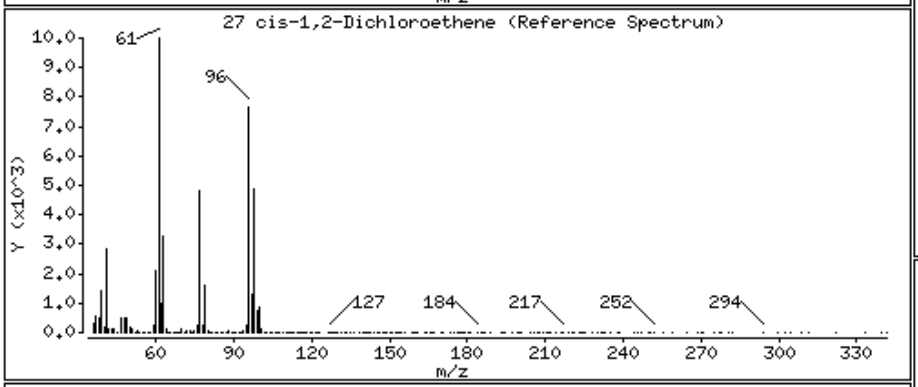
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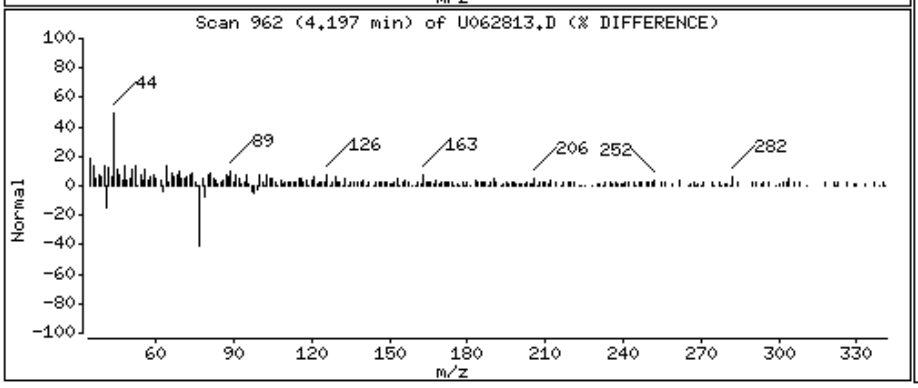
27 cis-1,2-Dichloroethene

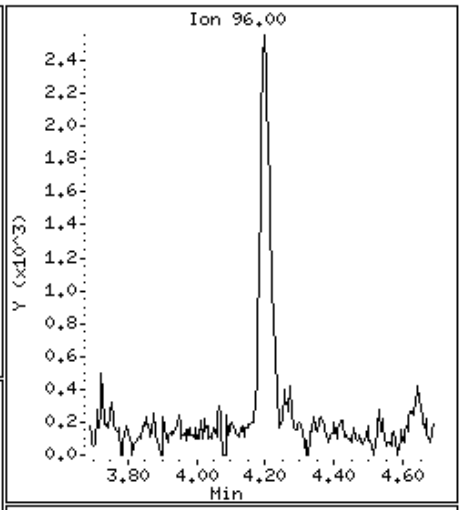
Concentration: 37.67 ug/l

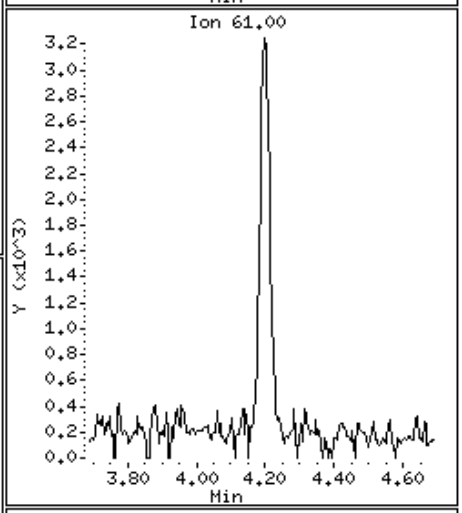


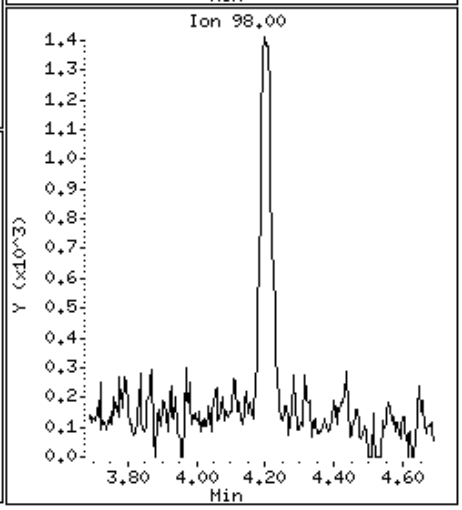












Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062813.D

Date : 28-JUN-2023 15:43

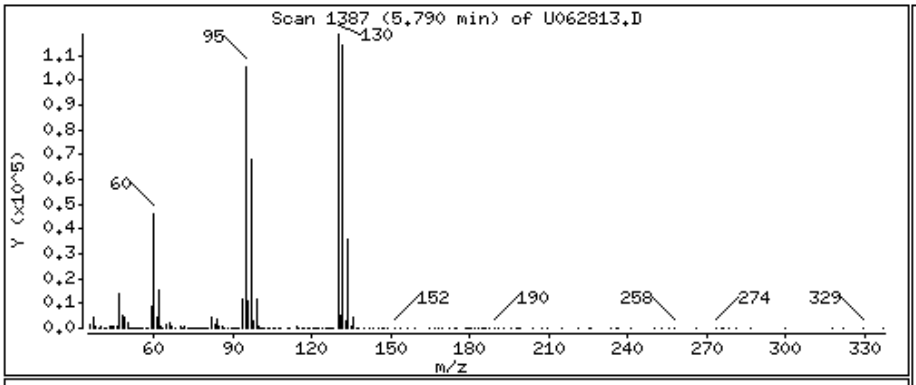
Client ID: HS23061557-03 Instrument: VOA9.i

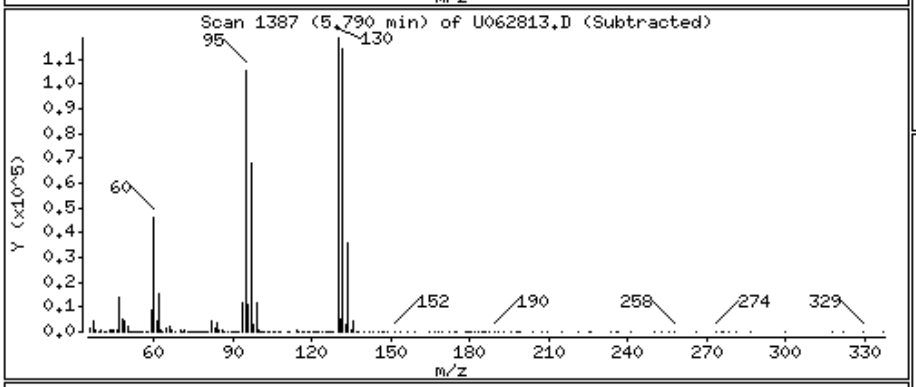
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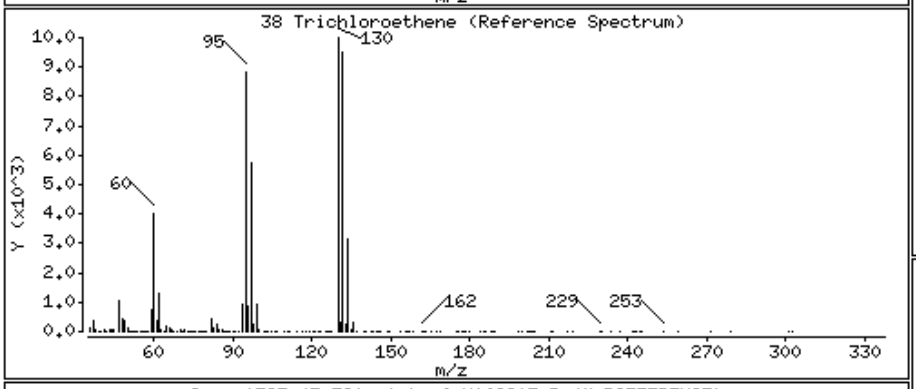
Purge Volume: 5.0 Operator: PC

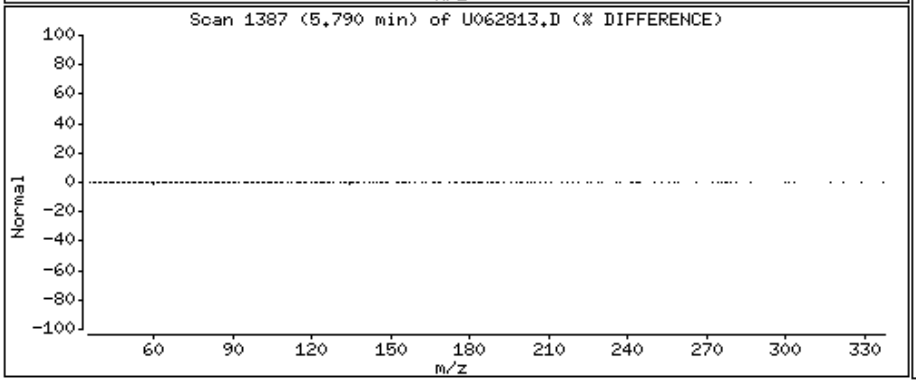
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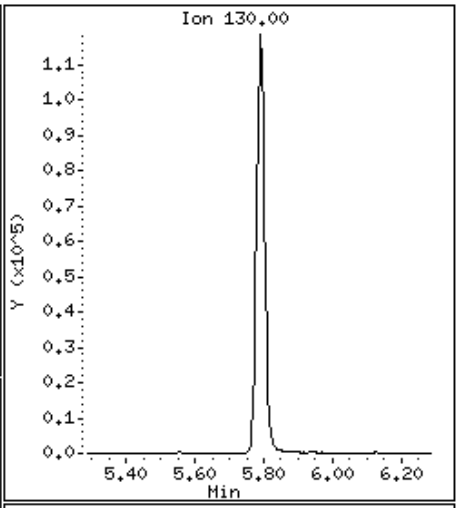
38 Trichloroethene Concentration: 1682.39 ug/l

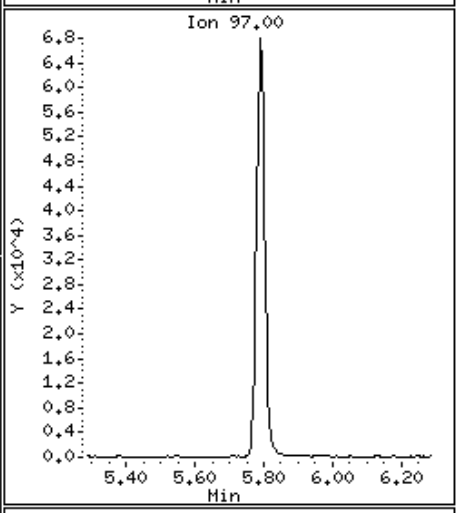


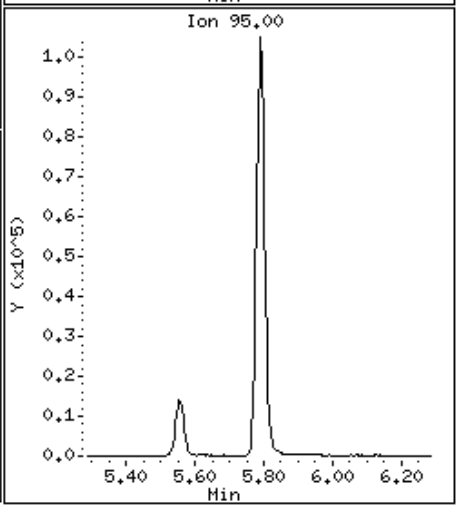












Data File : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062813.D
Inj Date : 28-JUN-2023 15:43
InstruID : VOA9.i
LabSampID : HS23061557-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062830.D Page 1
Report Date: 29-Jun-2023 17:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062830.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 28-JUN-2023 22:03
Operator : PC Inst ID: VOA9.i
Smp Info : CCV-END;CCV-END;2;;;
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\8260C.m
Meth Date : 29-Jun-2023 17:00 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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)	515747	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	185837	50.0000	39.01
3 Chloromethane	50	1.295	1.295	(0.269)	331511	50.0000	42.41
5 Vinyl Chloride	62	1.378	1.378	(0.286)	250448	50.0000	45.90
6 Bromomethane	94	1.618	1.618	(0.336)	155122	50.0000	55.49
7 Chloroethane	64	1.700	1.700	(0.353)	177158	50.0000	48.20
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	347349	50.0000	55.43
9 Acrolein	56	2.262	2.262	(0.470)	27685	100.000	101.13
10 Acetone	43	2.408	2.408	(0.500)	182377	100.000	103.13
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	196716	50.0000	50.24
15 Iodomethane	142	2.468	2.468	(0.513)	315342	100.000	101.92
16 Acrylonitrile	53	3.065	3.065	(0.636)	200262	100.000	104.70
17 Methylene Chloride	84	2.795	2.795	(0.580)	249828	50.0000	53.18
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	645662	50.0000	53.78
19 Carbon Disulfide	76	2.521	2.521	(0.524)	1183559	100.000	113.08
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	219417	50.0000	51.53
21 Vinyl Acetate	43	3.608	3.608	(0.749)	1328349	100.000	102.35
22 1,1-Dichloroethane	63	3.514	3.514	(0.730)	395726	50.0000	48.90
24 2-Butanone	43	4.268	4.268	(0.886)	213417	100.000	90.75
26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	255961	50.0000	47.86

27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	264023	50.0000	51.83
28 Chloroform	83	4.571	4.571 (0.949)	431751	50.0000	51.27

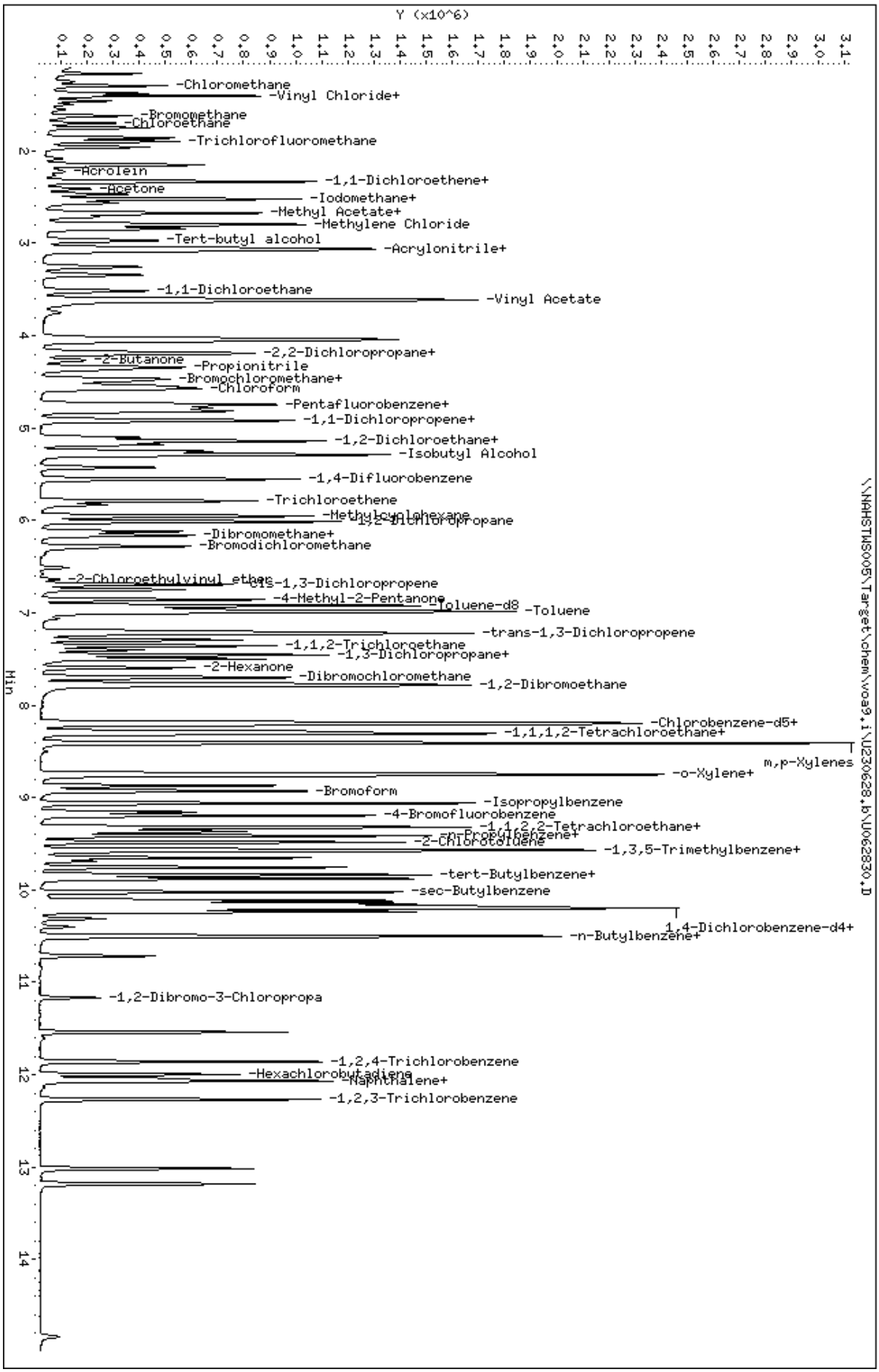
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.470	4.470	(0.928)	142059	50.0000	49.86
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	228194	50.0000	52.73
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	346831	50.0000	54.03
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	286137	50.0000	50.71
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	349143	50.0000	52.39
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	293869	50.0000	56.70
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	250995	50.0000	53.63
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	769849	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	915321	50.0000	49.34
	38 Trichloroethene	130	5.790	5.790	(1.043)	274627	50.0000	51.07
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	315348	50.0000	54.49
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	5206	100.000	37.19
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	243359	50.0000	49.13
	44 Dibromomethane	93	6.120	6.120	(1.102)	167892	50.0000	53.05
	45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	507613	100.000	91.35
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	355154	50.0000	45.97
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	763054	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	841470	50.0000	48.72
	50 Toluene	91	6.982	6.982	(0.853)	1023784	50.0000	49.46
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	303921	50.0000	46.83
	52 2-Hexanone	43	7.593	7.593	(0.928)	331917	100.000	85.77
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	203074	50.0000	47.15
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	423156	50.0000	48.09
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	277783	50.0000	54.36
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	236340	50.0000	46.87
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	262437	50.0000	49.40
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	194002	50.0000	49.07
	59 Chlorobenzene	112	8.211	8.211	(1.003)	721755	50.0000	48.86
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	262670	50.0000	51.74
	61 Ethylbenzene	106	8.309	8.309	(1.015)	337764	50.0000	49.13
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	846242	100.000	104.04
	63 o-Xylene	106	8.748	8.748	(1.069)	416461	50.0000	51.82
	64 Styrene	104	8.763	8.763	(1.071)	682220	50.0000	53.50
	66 Bromoform	173	8.920	8.920	(1.090)	191653	50.0000	55.57
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	983192	50.0000	50.94
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	343413	50.0000	45.24
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	354198	50.0000	52.09
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	403519	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	317472	50.0000	47.54
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1052770	50.0000	49.73
	74 Bromobenzene	156	9.317	9.317	(0.916)	325653	50.0000	47.83
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	708461	50.0000	48.78
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	709906	50.0000	47.71
	77 4-Chlorotoluene	91	9.576	9.576	(0.941)	809022	50.0000	49.12
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	694114	50.0000	48.66
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	709998	50.0000	46.73
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	866571	50.0000	47.91
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	724195	50.0000	47.79
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	541683	50.0000	46.84
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	563991	50.0000	45.74
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	592616	50.0000	45.68
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	542030	50.0000	46.74

89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	49111	50.0000	44.33
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	348093	50.0000	43.64

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	143558	50.0000	44.57	
92	Naphthalene	128	12.069	12.069	(1.186)	812570	50.0000	43.86	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	341770	50.0000	43.83	
M 94	1,2-Dichloroethylene (total)	96				483440	100.000		(a)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	67397	1000.00	658.12	
141	Cyclohexane	56	4.781	4.781	(0.993)	284865	50.0000	45.06	
138	Freon TF	101	2.334	2.334	(0.485)	184284	50.0000	53.20	
140	1,3-Butadiene	54	1.404	1.404	(0.292)	222455	50.0000	45.54	
147	Methylcyclohexane	55	5.947	5.947	(1.071)	515415	50.0000	48.26	
146	Methyl Acetate	43	2.712	2.712	(0.563)	212974	50.0000	49.04	
148	Tert-Butyl alcohol	59	2.971	2.971	(0.617)	498931	1000.00	1047.24	
149	Isopropyl Alcohol	45	2.562	2.562	(0.532)	325566	1000.00	965.61	
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	48967	50.0000	55.73	
12	Isobutyl Alcohol	43	5.287	5.287	(1.098)	784860	1000.00	1171.26	
13	Acetonitrile	39	2.671	2.671	(0.555)	283106	500.000	507.01	
14	Allyl Chloride	41	2.671	2.671	(0.555)	644068	50.0000	48.10	
25	Methacrylonitrile	41	4.497	4.497	(0.934)	146733	50.0000	48.15	
40	Methyl Methacrylate	41	6.157	6.157	(1.279)	226280	50.0000	51.02	
4	Propionitrile	54	4.339	4.339	(0.901)	369099	500.000	495.25	
162	Butyl acrylate	55	8.733	8.733	(1.067)	405225	50.0000	44.89	
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	180376	50.0000	46.86	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062830.D
Date : 28-JUN-2023 22:03
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230628.b\U062830.D
Inj Date : 28-JUN-2023 22:03
InstruID : VOA9.i
LabSampID : CCV-END

NO MANUAL INTEGRATIONS

HS23061557-MSSEMI-SW8270SIM

ALS WO# HS23061557

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Form 1

Organic Analysis Data Sheet

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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 LHAAP Site18/24

Workorder **HS23061557**

Semi-Volatiles by EPA 8270SIM

HS23061557-01

18WW22_062123

Collected	Received	Matrix	Basis
06/21/23 07:00	06/22/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.016		0.010	0.010	0.010	1	06/29/23 12:20	SV-6_440304	09.D	196799

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Semi-Volatiles by EPA 8270SIM

HS23061557-03

18CPTMW14_062123

Collected	Received	Matrix	Basis
06/21/23 08:40	06/22/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.17		0.010	0.010	0.010	1	06/29/23 12:38	SV-6_440304	10.D	196799

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

Semi-Volatiles by EPA 8270SIM

HS23061557-04

18CPTMW24_062123

Collected	Received	Matrix	Basis
06/21/23 09:35	06/22/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.014		0.010	0.010	0.010	1	06/29/23 12:56	SV-6_440304	11.D	196799

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

Semi-Volatiles by EPA 8270SIM

HS23061557-05

18CPTMW07_062123

Collected	Received	Matrix	Basis
06/21/23 10:20	06/22/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.051		0.010	0.010	0.010	1	06/29/23 13:14	SV-6_440304	12.D	196799

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Semi-Volatiles by EPA 8270SIM

HS23061557-06

18WW25_062123

Collected	Received	Matrix	Basis
06/21/23 11:10	06/22/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.012		0.010	0.010	0.010	1	06/29/23 13:32	SV-6_440304	13.D	196799

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Semi-Volatiles by EPA 8270SIM

HS23061557-07

MW10_062123

Collected	Received	Matrix	Basis
06/21/23 11:55	06/22/23 09:25	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.039		0.010	0.010	0.010	1	06/29/23 13:50	SV-6_440304	14.D	196799

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

Semi-Volatiles by EPA 8270SIM

MBLK-196799

MBLK-196799

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.030	U	0.010	0.030	0.030	1	06/29/23 11:25	SV-6_440304	06.D	196799

01199870

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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 LHAAP Site18/24

Workorder HS23061557

RunID SV-6-440304

Semi-Volatiles by EPA 8270SIM

HS23061557-01	Analyzed	Conc Units	Dilution
18WW22_062123	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.092	0.08	115		40-140
4-Terphenyl-d14	0.092	0.08	115		40-140
Nitrobenzene-d5	0.09	0.08	113		40-140

HS23061557-03	Analyzed	Conc Units	Dilution
18CPTMW14_062123	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.095	0.08	118		40-140
4-Terphenyl-d14	0.095	0.08	118		40-140
Nitrobenzene-d5	0.089	0.08	111		40-140

HS23061557-04	Analyzed	Conc Units	Dilution
18CPTMW24_062123	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.094	0.08	118		40-140
4-Terphenyl-d14	0.093	0.08	117		40-140
Nitrobenzene-d5	0.09	0.08	113		40-140

HS23061557-05	Analyzed	Conc Units	Dilution
18CPTMW07_062123	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.093	0.08	116		40-140
4-Terphenyl-d14	0.089	0.08	111		40-140
Nitrobenzene-d5	0.093	0.08	116		40-140

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061557

RunID: SV-6-440304

Semi-Volatiles by EPA 8270SIM

HS23061557-06	Analyzed	Conc Units	Dilution
18WW25_062123	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.089	0.08	111		40-140
4-Terphenyl-d14	0.096	0.08	120		40-140
Nitrobenzene-d5	0.09	0.08	113		40-140

HS23061557-07	Analyzed	Conc Units	Dilution
MW10_062123	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.085	0.08	106		40-140
4-Terphenyl-d14	0.096	0.08	119		40-140
Nitrobenzene-d5	0.09	0.08	112		40-140

LCS1-196799	Analyzed	Conc Units	Dilution
LCS1-196799	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.0897	0.08	112		40-140
4-Terphenyl-d14	0.09058	0.08	113		40-140
Nitrobenzene-d5	0.09084	0.08	114		40-140

LCSD1-196799	Analyzed	Conc Units	Dilution
LCSD1-196799	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.09409	0.08	118		40-140
4-Terphenyl-d14	0.0909	0.08	114		40-140
Nitrobenzene-d5	0.089	0.08	111		40-140

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	HS23061557
Project	LHAAP Site18/24		

Semi-Volatiles by EPA 8270SIM

RunID: SV-6-440304

MBLK-196799	Analyzed	Conc Units	Dilution
MBLK-196799	06/29/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.09294	0.08	116		40-140
4-Terphenyl-d14	0.09052	0.08	113		40-140
Nitrobenzene-d5	0.09184	0.08	115		40-140

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Form 3B

Laboratory Control Sample Recovery

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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: LHAAP Site18/24

Workorder: HS23061557

SAMPLENUM: LCS1-196799

Semi-Volatiles by EPA 8270SIM

SV-6_440304				LCS1-196799			LCSD1-196799					
Spike Matrix	Aqueous		Run Date	06/29/23			06/29/23					
Result Units	ug/L		Run Time	11:43			12:01					
Prep Method	SW3510		Data File	07.D			08.D					
Prep Date	06/27/23	Prep Batch 196799	Prep Amt	1000 mL			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	0.07214	90		0.08194	102.0		20	12.7	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

SAMPLENUM
LCSD1-196799

Semi-Volatiles by EPA 8270SIM

SV-6_440304				LCSD1-196799		
Spike Matrix	Aqueous		Run Date	06/29/23		
Result Units	ug/L		Run Time	12:01		
Prep Method	SW3510		Data File	08.D		
Prep Date	06/27/23	Prep Batch 196799	Prep Amt	1000 mL		

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,4-Dioxane	40-140	0.08	0.08194	102	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

Semi-Volatiles by EPA 8270SIM

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-196799	06.D	06/29/23 11:25	SV-6_440304
LCS1-196799	LCS	LCS1-196799	07.D	06/29/23 11:43	SV-6_440304
LCSD1-196799	LCSD	LCSD1-196799	08.D	06/29/23 12:01	SV-6_440304
18WW22_062123	SAMP	HS23061557-01	09.D	06/29/23 12:20	SV-6_440304
18CPTMW14_062123	SAMP	HS23061557-03	10.D	06/29/23 12:38	SV-6_440304
18CPTMW24_062123	SAMP	HS23061557-04	11.D	06/29/23 12:56	SV-6_440304
18CPTMW07_062123	SAMP	HS23061557-05	12.D	06/29/23 13:14	SV-6_440304
18WW25_062123	SAMP	HS23061557-06	13.D	06/29/23 13:32	SV-6_440304
MW10_062123	SAMP	HS23061557-07	14.D	06/29/23 13:50	SV-6_440304

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Form 5

Instrument Performance Check

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
SV-6-439923

Semi-Volatiles by EPA 8270SIM

Tune File 01.D 06/16/23 6/16/2023

This check applies to the following analyses

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	40.3 (40.3)
68	Less than 2.0% of mass 69	0.5 (1.44) 1
69	Mass 69 RA	32.2 (32.2)
70	Less than 2.0% of mass 69	0.2 (0.502) 1
127	25.0 - 75.0% of mass 198	38.5 (38.5)
197	Less than 1.0% of mass 198	0.5 (0.46)
198	Base peak, 100% RA	100 (83.3)
199	5.0 - 9.0% of mass 198	6.5 (6.46)
275	10.0 - 30.0% of mass 198	25.8 (25.8)
365	Greater than 0.75% of mass 198	3.4 (3.43)
441	Present, but less than mass 443	17.7 (76.4)
442	40.0 - 110.0% of mass 198	120.1 (120)
443	15.0 - 24.0% of mass 442	23.2 (19.3) 2

%RA - Percent Relative Abundance

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	14DXICAL-	ICAL1	6/16/2023	04	14DXICAL-0.01
2	14DXICAL-	ICAL2	6/16/2023	05	14DXICAL-0.03
3	14DXICAL-	ICAL3	6/16/2023	06	14DXICAL-0.05
4	14DXICAL-	ICAL4	6/16/2023	07	14DXICAL-0.08
5	14DXICAL-	ICAL6	6/16/2023	09	14DXICAL-0.15
6	14DXICAL-0.1	ICAL5	6/16/2023	12	14DXICAL-0.1
7	14DXICAL-0.5	ICAL8	6/16/2023	14	14DXICAL-0.5
8	14DXICAL-0.2	ICAL7	6/16/2023	15	14DXICAL-0.2
9	14DXICV-0.08	ICV	6/16/2023	16	14DXICV-0.08

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061557**	

RunID

Semi-Volatiles by EPA 8270SIM

SV-6-439923

Tune File	01.D	06/16/23 6/16/2023	**This check applies to the following analyses**

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061557**

RunID SV-6-440304

Semi-Volatiles by EPA 8270SIM

Tune File 01.D 06/29/23 6/29/2023

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	42.5 (42.46)
68	Less than 2.0% of mass 69	0.6 (1.56) 1
69	Mass 69 RA	36.4 (36.35)
70	Less than 2.0% of mass 69	0.1 (0.36) 1
127	25.0 - 75.0% of mass 198	42.4 (42.43)
197	Less than 1.0% of mass 198	1.4 (1.38)
198	Base peak, 100% RA	100 (88.16)
199	5.0 - 9.0% of mass 198	6.5 (6.51)
275	10.0 - 30.0% of mass 198	24.7 (24.69)
365	Greater than 0.75% of mass 198	3.7 (3.65)
441	Present, but less than mass 443	16.5 (73.96)
442	40.0 - 110.0% of mass 198	113.4 (113.43)
443	15.0 - 24.0% of mass 442	22.4 (19.72) 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	6/29/2023	03	14DX-0.08
2	MBLK-196799	MBLK	6/29/2023	06	MBLK-196799
3	LCS1-196799	LCS	6/29/2023	07	LCS1-196799
4	LCSD1-	LCSD	6/29/2023	08	LCSD1-196799
5	HS23061557-	SAMP	6/29/2023	09	18WW22_062123
6	HS23061557-	SAMP	6/29/2023	10	18CPTMW14_062123
7	HS23061557-	SAMP	6/29/2023	11	18CPTMW24_062123
8	HS23061557-	SAMP	6/29/2023	12	18CPTMW07_062123
9	HS23061557-	SAMP	6/29/2023	13	18WW25_062123
10	HS23061557-	SAMP	6/29/2023	14	MW10_062123
11	14DXCCV-	CCV	6/29/2023	22	14DXCCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061557**	

Semi-Volatiles by EPA 8270SIM

RunID: SV-6-440304

Tune File	01.D	06/29/23 6/29/2023	This check applies to the following analyses

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Form 6

Initial Calibration Data

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID SV-6_439923

Semi-Volatiles by EPA 8270SIM

ICAL Start Date 10-MAR-2022 1025
ICAL End Date 16-JUN-2023 1556

Calibration file names
Level 1 ..target\chem\sv6.i\230616.b\04.d
Level 2 ..target\chem\sv6.i\230616.b\05.d
Level 3 ..target\chem\sv6.i\230616.b\06.d
Level 4 ..target\chem\sv6.i\230616.b\07.d
Level 5 ..target\chem\sv6.i\230616.b\12.d
Level 6 ..target\chem\sv6.i\230616.b\09.d

Compound	0.20000 Level 7 0.01000 Level 1	0.50000 Level 8 0.03000 Level 2	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	%RSD	Q
1,4-Dioxane	0.30124 0.40150	0.32659 0.31193	0.32643	0.34940	0.35892	0.33837	0.33930	9.241	
2-Fluorophenol	0.40150 NE NE	0.31193 NE NE	NE	NE	NE	NE	0.33930 NE	9.241 NE	
13 Phenol-d6	NE NE	NE NE	NE	NE	NE	NE	NE	NE	
33 Nitrobenzene-d5	0.28832 0.34832	0.28035 0.27609	0.30204	0.32108	0.30808	0.30634	0.30383	7.735	
69 2-Fluorobiphenyl	0.98985 1.25227	0.97067 0.94386	0.97876	1.06873	0.97017	1.00640	1.02259	9.764	
105 2,4,6-Tribromophenol	NE NE	NE NE	NE	NE	NE	NE	NE	NE	
158 4-Terphenyl-d14	0.60104 1.00267	0.68127 0.75942	0.64541	0.74244	0.75380	0.71602	0.73776	16.347	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

01199886

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

ALS Environmental–Houston Laboratory
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Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID SV-6_439923

Semi-Volatiles by EPA 8270SIM

Sample Matrix LIQUID
Lab Smp Id 14DXICV-0.08
Level LOW
Fraction SV
Client Smp ID 14DXICV-0.08
Operator LG

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.08000	0.07070	88.38	40-140	
Nitrobenzene-d5	0.08000	0.07086	88.57	40-140	
2-Fluorobiphenyl	0.08000	0.08036	100.45	40-140	
4-Terphenyl-d14	0.08000	0.08379	104.74	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
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Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID SV-6_440304

Semi-Volatiles by EPA 8270SIM

Instrument ID SV6.I
Lab File ID 03.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 29-JUN-2023 10:12
ICAL Date(s) 10-MAR-2022 16-JUN-2023
ICAL Times 10:25 15:56
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.30383	0.28756	0.010	-5.35563	20.0	Averaged	
69 2-Fluorobiphenyl	1.02259	1.08931	0.010	6.52495	20.0	Averaged	
158 4-Terphenyl-d14	0.73776	0.75647	0.010	2.53611	20.0	Averaged	
1,4-Dioxane	0.33930	0.30305	0.010	-10.68255	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061557

RunID SV-6_440304

Semi-Volatiles by EPA 8270SIM

Instrument ID SV6.I
Lab File ID 22.D
Analysis Type WATER
Lab Sample ID 14DXCCV-END Quant Type

Injection Date 29-JUN-2023 16:42
ICAL Date(s) 10-MAR-2022 16-JUN-2023
ICAL Times 10:25 15:56
ISTD

Compound	$\overline{RRF}$ / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.30383	0.27489	0.010	-9.52554	50.0	Averaged	
69 2-Fluorobiphenyl	1.02259	1.01318	0.010	-0.92010	50.0	Averaged	
158 4-Terphenyl-d14	0.73776	0.76979	0.010	4.34132	50.0	Averaged	
1,4-Dioxane	0.33930	0.33410	0.010	-1.53344	50.0	Averaged	

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Form 12

Preparation Log

Semi-VolatilesEPA 3510

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

ALS Environmental–Houston Laboratory
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Form 12 - Preparation Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
196799

Semi-VolatilesEPA 3510

Prep Batch 196799 **Prep Date** 06/27/23

	Matrix	Type	Client Sample ID	Lab Sample ID	Initial Amt (mL)	Final Amt (mL)
1	Aqueous	MBLK	MBLK-196799	MBLK-196799	1000	1
2	Aqueous	LCS	LCS1-196799	LCS1-196799	1000	1
3	Aqueous	LCSD	LCSD1-196799	LCSD1-196799	1000	1
4	Water	SAMP	18WW22_062123	HS23061557-01	1000	1
5	Water	SAMP	18CPTMW14_062123	HS23061557-03	1000	1
6	Water	SAMP	18CPTMW24_062123	HS23061557-04	1000	1
7	Water	SAMP	18CPTMW07_062123	HS23061557-05	1000	1
8	Water	SAMP	18WW25_062123	HS23061557-06	1000	1
9	Water	SAMP	MW10_062123	HS23061557-07	1000	1

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Analysis Run Log

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
SV-6-439923

Semi-Volatiles by EPA 8270SIM

Run ID SV-6_439923 **Start Date** 06/16/23 **EndDate** 06/16/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:28	DFTPP	TUNE	DFTPP	01.D	06/16/23	1
11:08	14DXICAL-0.01	ICAL1	14DXICAL-0.01	04.D	06/16/23	1
11:26	14DXICAL-0.03	ICAL2	14DXICAL-0.03	05.D	06/16/23	1
11:44	14DXICAL-0.05	ICAL3	14DXICAL-0.05	06.D	06/16/23	1
12:02	14DXICAL-0.08	ICAL4	14DXICAL-0.08	07.D	06/16/23	1
12:38	14DXICAL-0.15	ICAL6	14DXICAL-0.15	09.D	06/16/23	1
14:15	14DXICAL-0.1	ICAL5	14DXICAL-0.1	12.D	06/16/23	1
14:51	14DXICAL-0.5	ICAL8	14DXICAL-0.5	14.D	06/16/23	1
15:56	14DXICAL-0.2	ICAL7	14DXICAL-0.2	15.D	06/16/23	1
16:22	14DXICV-0.08	ICV	14DXICV-0.08	16.D	06/16/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061557

RunID
SV-6-440304

Semi-Volatiles by EPA 8270SIM

Run ID SV-6_440304 **Start Date** 06/29/23 **EndDate** 06/29/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:23	DFTPP	TUNE	DFTPP	01.D	06/29/23	1
10:12	14DX-0.08	CCV	14DX-0.08	03.D	06/29/23	1
11:25	MBLK-196799	MBLK	MBLK-196799	06.D	06/29/23	1
11:43	LCS1-196799	LCS	LCS1-196799	07.D	06/29/23	1
12:01	LCSD1-196799	LCSD	LCSD1-196799	08.D	06/29/23	1
12:20	HS23061557-01	SAMP	18WW22_062123	09.D	06/29/23	1
12:38	HS23061557-03	SAMP	18CPTMW14_062123	10.D	06/29/23	1
12:56	HS23061557-04	SAMP	18CPTMW24_062123	11.D	06/29/23	1
13:14	HS23061557-05	SAMP	18CPTMW07_062123	12.D	06/29/23	1
13:32	HS23061557-06	SAMP	18WW25_062123	13.D	06/29/23	1
13:50	HS23061557-07	SAMP	MW10_062123	14.D	06/29/23	1
14:27	HS23061712-02	SAMP	ZZZZZZZZZZ	16.D	06/29/23	1
14:45	HS23061712-05	SAMP	ZZZZZZZZZZ	17.D	06/29/23	1
15:03	HS23061712-06	SAMP	ZZZZZZZZZZ	18.D	06/29/23	1
16:06	HS23061712-01	SAMP	ZZZZZZZZZZ	20.D	06/29/23	100
16:24	HS23061712-07	SAMP	ZZZZZZZZZZ	21.D	06/29/23	10
16:42	14DXCCV-END	CCV	14DXCCV-END	22.D	06/29/23	1

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Raw Data SV 6 439923

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

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Data File: \\nahstws005\Target\chem\SV6.i\230616.b\01.D Page 1
Report Date: 16-Jun-2023 09:41

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230616.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 16-JUN-2023 09:28
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230616.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.009	6.357	-1.348	198	573312			0.00- 100.00	83.28
5.009	6.357	-1.348	51	231176			10.00- 80.00	40.32
5.009	6.357	-1.348	68	2654			0.00- 2.00	1.44
5.009	6.357	-1.348	69	184729			0.00- 0.00	32.22
5.009	6.357	-1.348	70	927			0.00- 2.00	0.50
5.009	6.357	-1.348	127	220864			10.00- 80.00	38.52
5.009	6.357	-1.348	197	2637			0.00- 2.00	0.46
5.009	6.357	-1.348	199	37040			5.00- 9.00	6.46
5.009	6.357	-1.348	275	147776			10.00- 60.00	25.78
5.009	6.357	-1.348	365	19688			1.00- 100.00	3.43
5.009	6.357	-1.348	441	101568			0.01- 99.99	76.45
5.009	6.357	-1.348	442	688448			50.00- 150.00	120.08
5.009	6.357	-1.348	443	132864			15.00- 24.00	19.30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	40.32
68	Less than 2.00% of mass 69	0.46 (1.44)
69	Mass 69 relative abundance	32.22
70	Less than 2.00% of mass 69	0.16 (0.50)
127	10.00 - 80.00% of mass 198	38.52
197	Less than 2.00% of mass 198	0.46
199	5.00 - 9.00% of mass 198	6.46
275	10.00 - 60.00% of mass 198	25.78
365	1.00 - 100.00% of mass 198	3.43
441	Present, but less than mass 443	17.72
442	50.00 - 150.00% of mass 198	120.08
443	15.00 - 24.00% of mass 442	23.17 (19.30)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 453: 5.010 min. (SUB)
Location of Maximum: 442.10
Number of points: 316

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	691	128.10	16159	209.00	1513	297.00	5492
38.00	1909	129.00	84336	210.10	2201	298.00	365
39.10	12523	130.00	6769	211.00	6102	301.00	640
40.00	181	131.00	1444	213.00	401	302.00	602
40.90	276	132.10	794	214.00	192	303.10	4693
45.00	312	133.10	248	215.00	1503	304.00	1179
49.00	1051	134.00	2156	216.00	2932	304.90	175
50.10	53200	135.00	6519	217.00	39448	308.00	557
51.10	231168	136.00	2427	218.00	4584	309.00	385
52.10	12049	137.10	3257	219.00	408	310.00	461
53.00	444	138.10	689	221.10	31488	311.10	249
55.00	841	139.00	436	221.70	5812	311.90	184
56.00	6699	140.00	864	223.00	9377	312.90	383
57.00	16176	141.00	10733	224.10	87680	314.00	1739
58.00	734	142.00	3754	225.10	21984	315.00	3954
61.00	2603	143.00	2343	226.00	2230	316.10	2781
62.00	2746	144.00	787	227.00	33024	317.00	633
63.00	8959	145.00	657	228.00	4457	319.90	232
64.00	1134	146.10	1823	229.00	7608	321.00	1268
65.10	3754	147.00	5380	230.00	950	322.00	605
66.20	170	148.00	12478	231.00	3201	323.10	14516
66.90	176	149.00	2115	232.00	487	324.00	2985
68.00	2654	150.00	633	233.00	674	325.00	302
69.00	184704	151.60	2531	234.00	1838	326.00	247
70.00	927	152.00	808	235.00	2392	327.00	2521
71.10	180	153.00	3358	236.00	1374	328.00	1205
73.00	1217	154.00	2616	237.00	2292	329.00	338
74.00	17520	155.00	6177	238.00	338	332.00	1141
75.00	28192	156.10	9411	239.00	1122	333.00	1368
76.10	9960	157.00	2001	240.00	936	334.10	8776
77.10	218880	158.00	2113	241.00	1871	335.00	2203
78.10	13466	159.00	1675	242.00	4359	336.00	187
79.00	12046	160.10	3244	243.10	4502	339.10	380
80.00	9791	161.00	5606	244.10	67632	339.90	281
81.00	14216	162.00	1730	245.10	8922	341.00	1623
82.00	3653	163.00	400	246.00	11263	342.10	476
83.00	3381	164.00	727	247.00	2407	346.00	2738
84.00	184	165.00	4330	248.10	663	347.00	596
85.00	2227	166.00	3419	249.00	2399	350.90	220
86.00	3237	167.00	24512	250.00	534	352.10	4359
87.00	1991	168.00	9507	251.00	626	353.00	3284
88.00	676	169.10	1791	252.00	592	354.10	4838
89.00	341	170.00	842	253.00	1532	355.00	896
91.00	2912	170.90	1000	254.00	2136	359.00	467
92.00	3110	172.00	2269	255.00	354304	365.00	19688

93.00	21304	173.10	2549	256.00	51136	366.00	2752
94.00	1218	174.00	5175	257.00	3611	370.10	513
95.00	484	175.00	9799	258.00	18768	371.00	1054
96.00	924	176.00	2683	259.00	3038	372.00	8081
97.10	374	177.00	3904	260.00	415	373.10	1766
98.00	16345	178.00	1303	261.00	547	374.00	321
99.00	11441	179.00	17472	263.00	216	377.00	254
100.00	1118	180.00	12918	264.00	482	383.00	2280
101.00	8931	181.00	6121	265.00	7562	384.00	529
101.90	481	182.10	939	266.00	1247	385.00	199
103.00	2466	183.00	711	267.90	202	390.10	1132
104.00	4787	184.00	1198	270.00	419	391.00	640
105.00	4856	185.10	9374	270.90	595	392.00	528
106.00	1473	186.10	74288	272.00	859	401.00	506
107.00	67952	187.10	20504	273.00	9955	402.00	3420
108.00	9807	188.00	2068	274.00	26688	403.00	5432
109.00	1838	189.00	3837	275.00	147776	404.00	1627
110.00	123544	189.90	682	276.10	18968	405.00	236
111.00	17696	191.00	2262	277.00	11809	415.00	201
112.00	1819	192.00	6230	278.00	1774	421.00	5131
112.90	638	193.10	7049	279.00	482	422.00	3941
114.00	179	194.00	1444	280.90	159	423.00	33192
114.80	238	195.00	1036	282.00	357	424.00	5796
116.00	3334	196.10	15513	283.00	1383	425.00	632
117.00	50184	197.00	2637	284.00	975	434.00	155
118.10	3139	198.00	573312	285.00	2248	436.70	155
119.00	504	199.00	37040	286.10	556	441.10	101568
120.00	697	200.00	3218	289.00	393	442.10	688448
121.00	285	201.50	2802	290.00	552	443.10	132864
122.00	4036	203.00	3916	291.00	367	444.10	12072
123.10	5628	204.00	19400	291.90	558	445.00	733
124.00	2843	205.10	32656	293.00	2916		
125.00	2735	206.10	146944	294.00	680		
126.10	975	207.10	18016	295.00	908		
127.00	220864	208.10	4201	296.00	40008		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Lab Smp Id: 14DXICAL-0.01 Client Smp ID: 14DXICAL-0.01
Inj Date : 16-JUN-2023 11:08
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	5079	0.10000	(a)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	17862	0.10000	
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	515	0.01000	0.009537(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10143	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	1004	0.01000	0.009665(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	20228	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	14841	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.909	(0.889)	892	0.01000	0.008235(M)
* 198 Perylene-d12	264	11.945	11.945	(1.000)	14498	0.10000	(M)
1 1,4-Dioxane	58	1.486	1.486	(0.475)	153	0.01000	0.008943(aQM)

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.

01199902

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D

Date : 16-JUN-2023 11:08

Client ID: 14DXICAL-0.01

Instrument: SV6.i

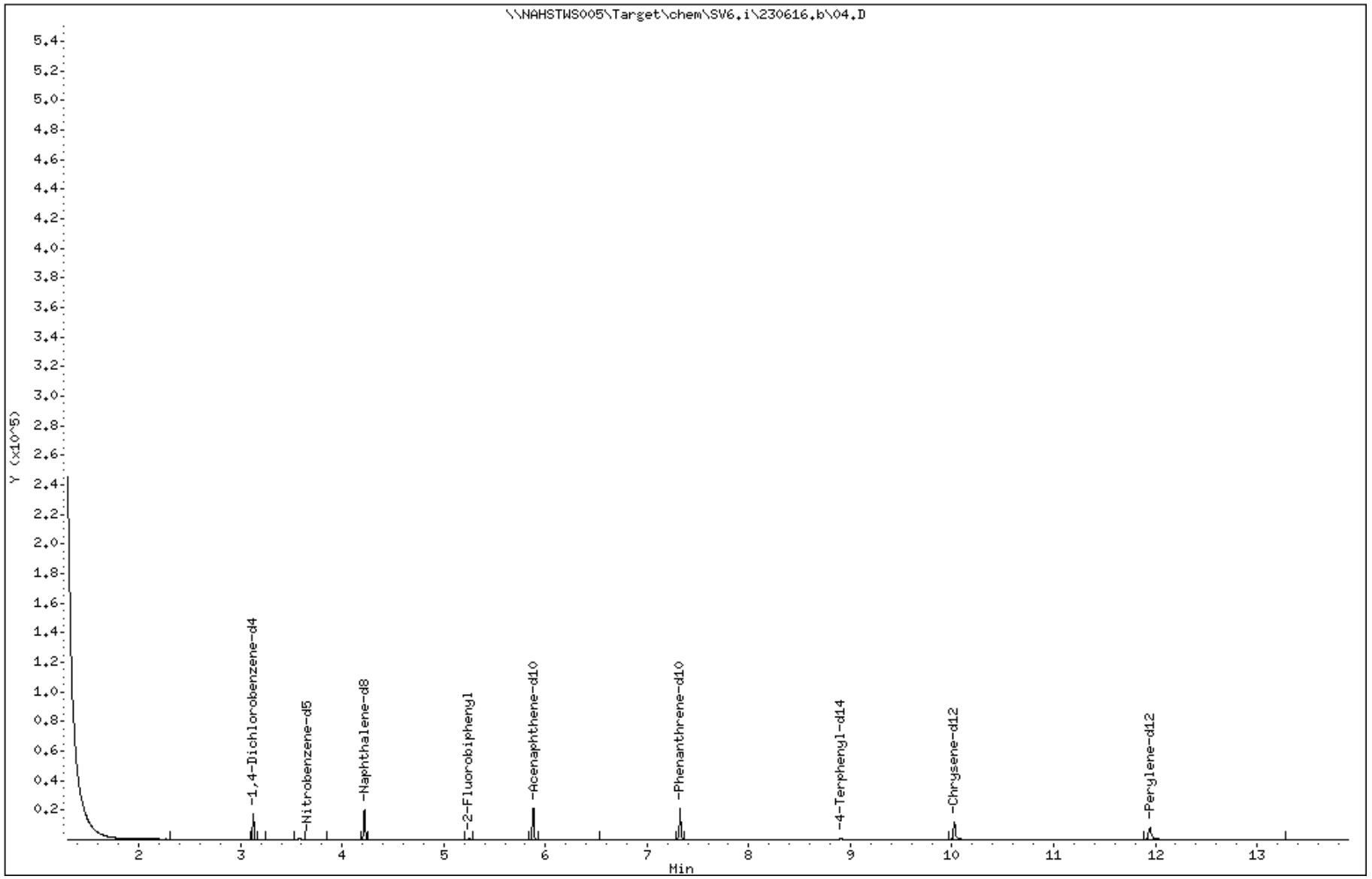
Sample Info: 14DXICAL-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



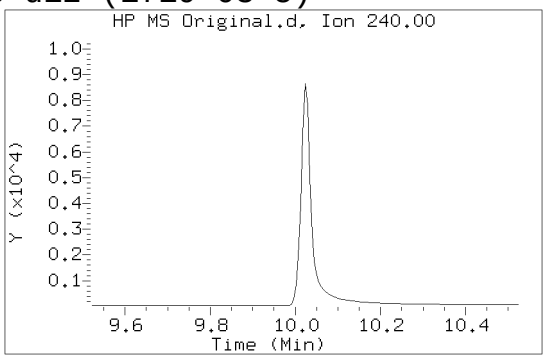
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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Chrysene-d12 (1719-03-5)

Reason Code:

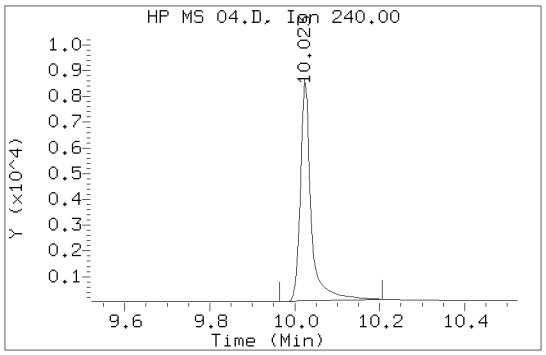
BEFORE

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240
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HEIGHT
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16-Jun-2023
11:24
ALSHS
Server



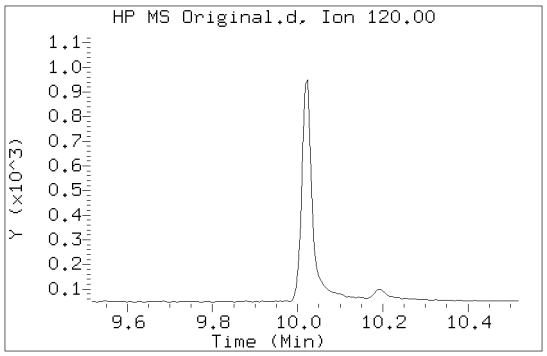
AFTER

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29-Jun-2023
14:26
ALSHS
Ser



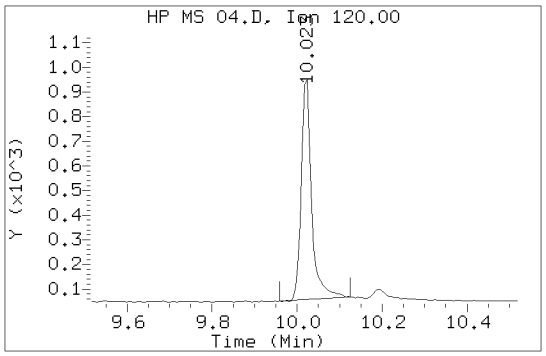
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11:24
ALSHS
Server



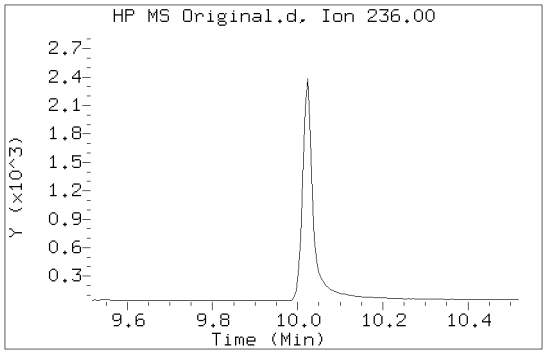
AFTER

MASS
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AREA
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HEIGHT
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29-Jun-2023
14:26
ALSHS
Ser



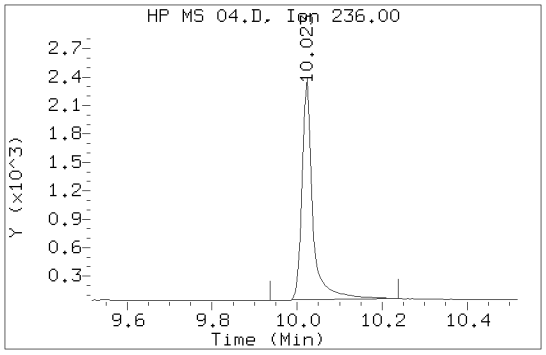
BEFORE

MASS
236
AREA
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HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
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AREA
4047
HEIGHT
2330
29-Jun-2023
14:26
ALSHS
Ser

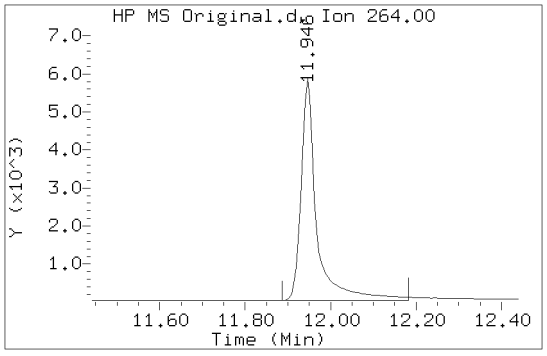


Perylene-d12 (1520-96-3)

Reason Code:

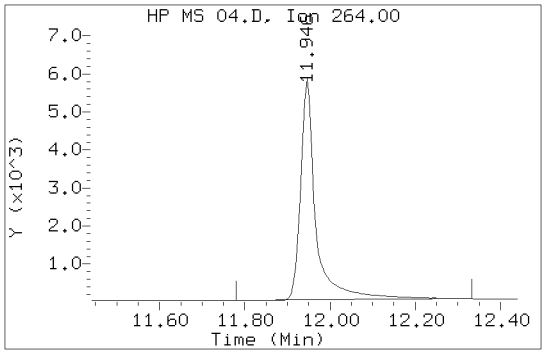
BEFORE

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AREA
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HEIGHT
5826
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
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AREA
14498
HEIGHT
5814
29-Jun-2023
14:26
ALSHS
Ser



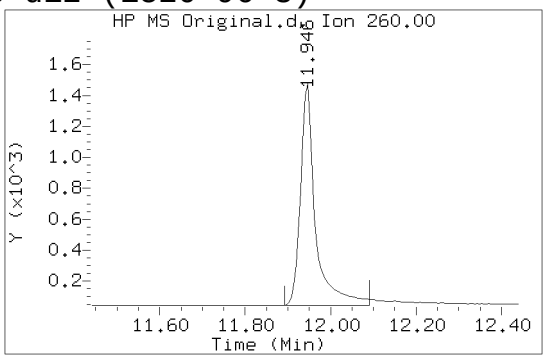
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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Perylene-d12 (1520-96-3)

Reason Code:

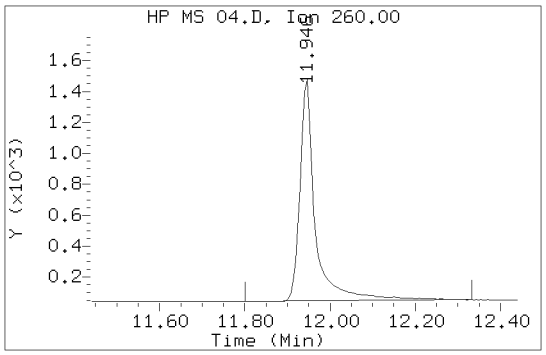
BEFORE

MASS
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AREA
3461
HEIGHT
1431
16-Jun-2023
11:24
ALSHS
Server



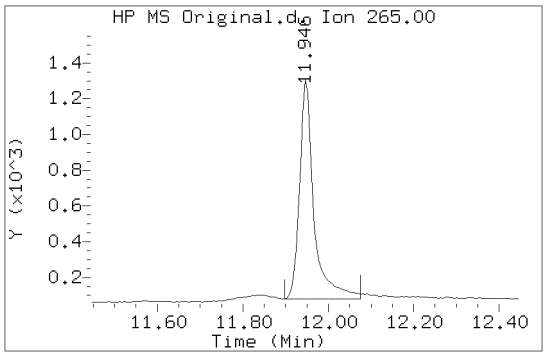
AFTER

MASS
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AREA
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HEIGHT
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29-Jun-2023
14:26
ALSHS
Ser



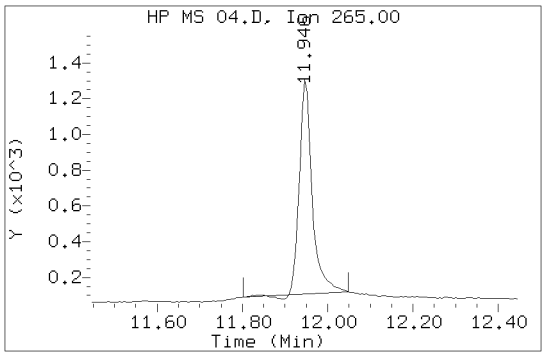
BEFORE

MASS
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AREA
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HEIGHT
1225
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
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AREA
2485
HEIGHT
1196
29-Jun-2023
14:26
ALSHS
Ser

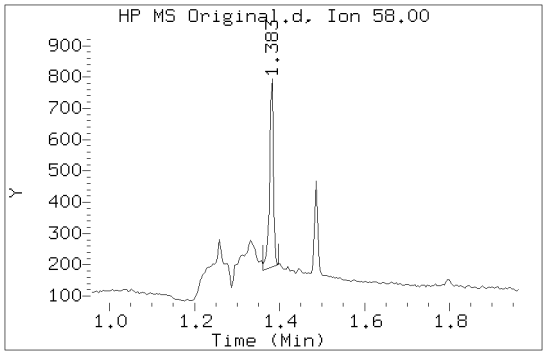


1,4-Dioxane ()

Reason Code:

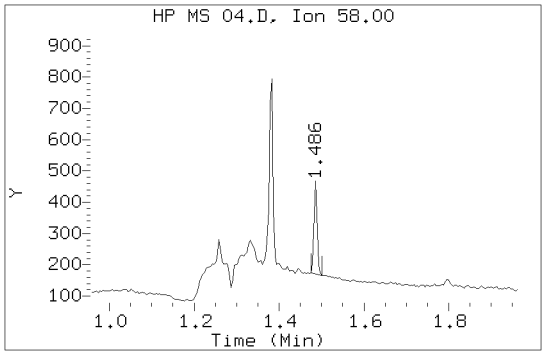
BEFORE

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AREA
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HEIGHT
599
16-Jun-2023
11:24
ALSHS
Server



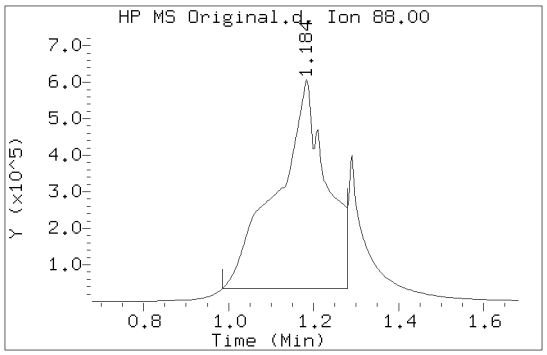
AFTER

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AREA
153
HEIGHT
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29-Jun-2023
14:26
ALSHS
Ser



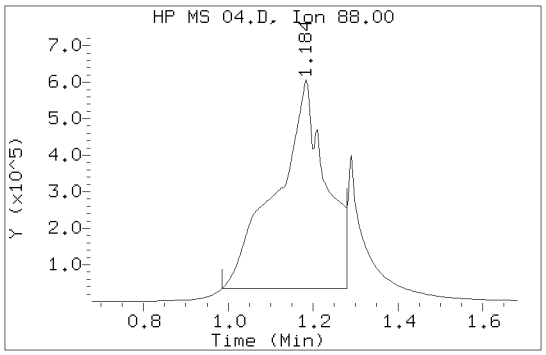
BEFORE

MASS
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AREA
4618745
HEIGHT
572488
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
88
AREA
4618745
HEIGHT
572488
29-Jun-2023
14:26
ALSHS
Ser

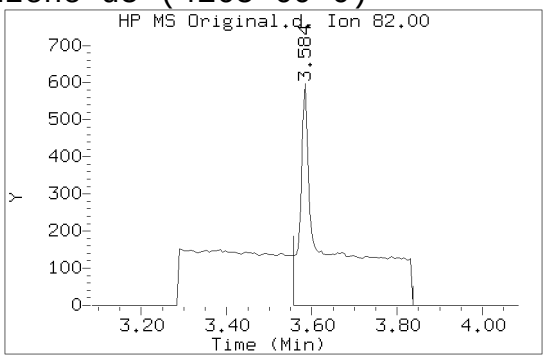


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

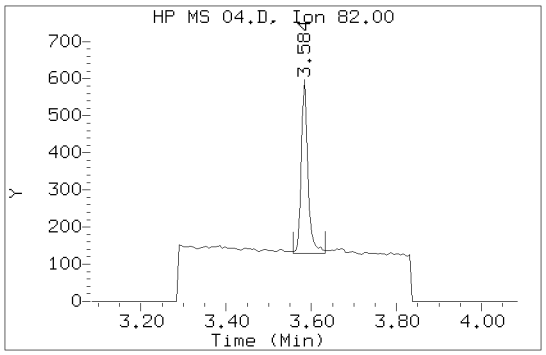
Nitrobenzene-d5 (4165-60-0)

Reason Code:

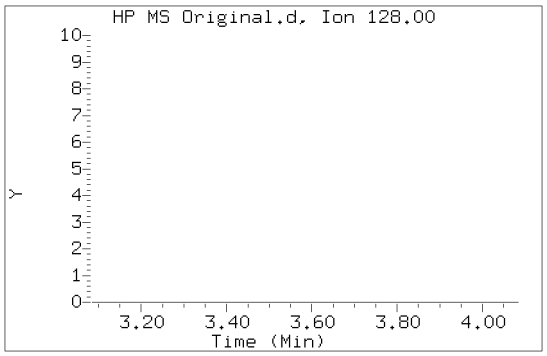
BEFORE
MASS
82
AREA
2695
HEIGHT
597
16-Jun-2023
11:24
ALSHS
Server



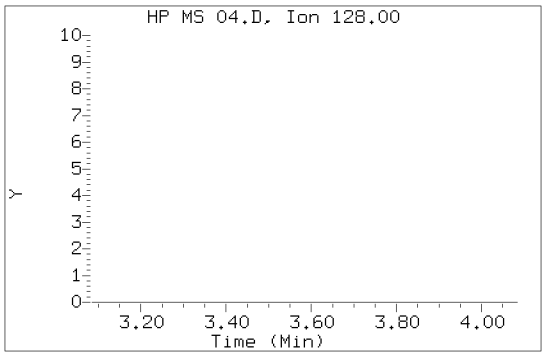
AFTER
MASS
82
AREA
515
HEIGHT
468
29-Jun-2023
14:26
ALSHS
Ser



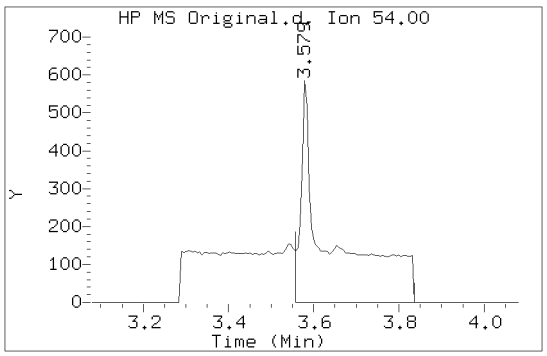
BEFORE
MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



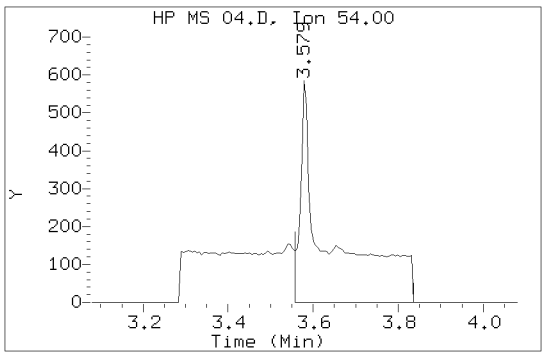
AFTER
MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



BEFORE
MASS
54
AREA
2634
HEIGHT
585
16-Jun-2023
11:24
ALSHS
Server



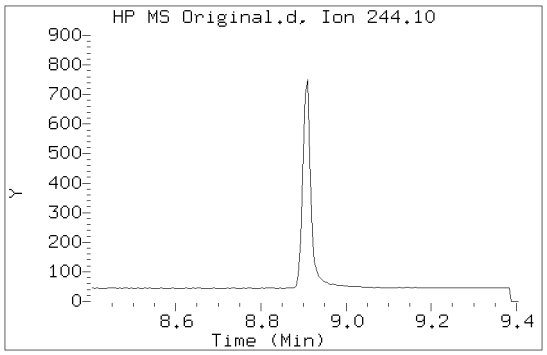
AFTER
MASS
54
AREA
2634
HEIGHT
585
29-Jun-2023
14:26
ALSHS
Ser



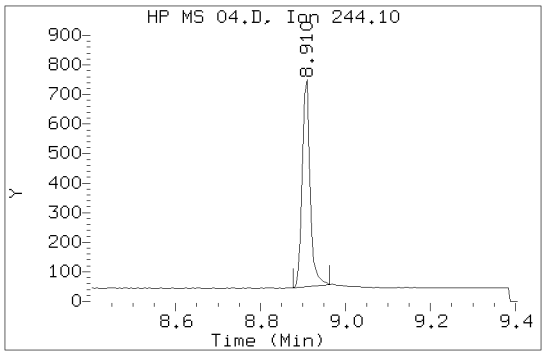
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER
MASS
244.1
AREA
892
HEIGHT
699
29-Jun-2023
14:26
ALSHS
Ser



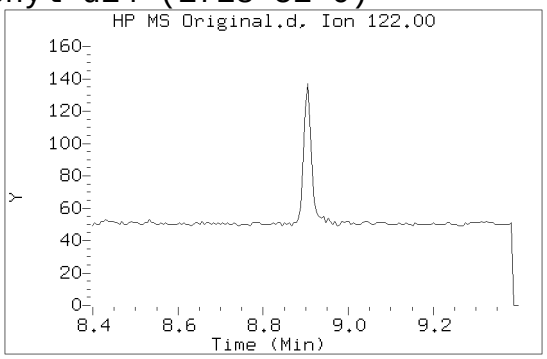
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

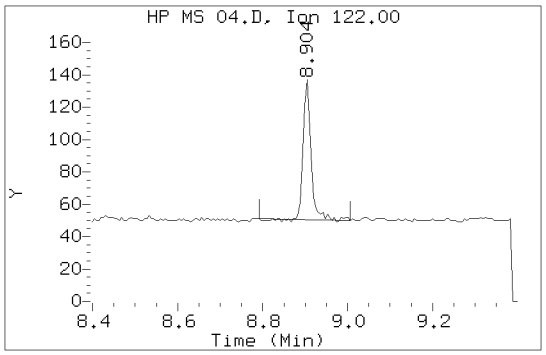
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



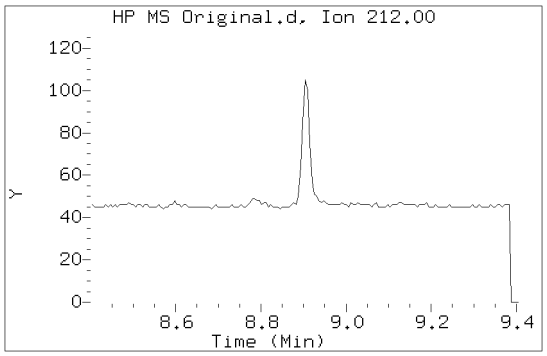
AFTER

MASS
122
AREA
109
HEIGHT
86
29-Jun-2023
14:26
ALSHS
Ser



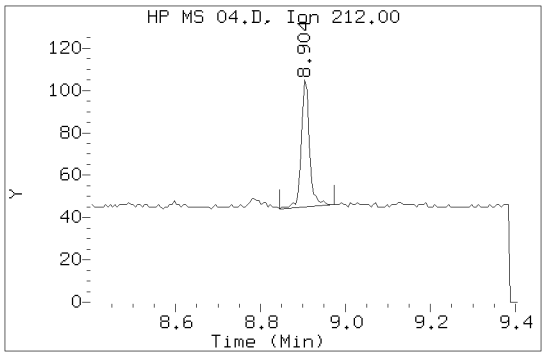
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
212
AREA
80
HEIGHT
60
29-Jun-2023
14:26
ALSHS
Ser

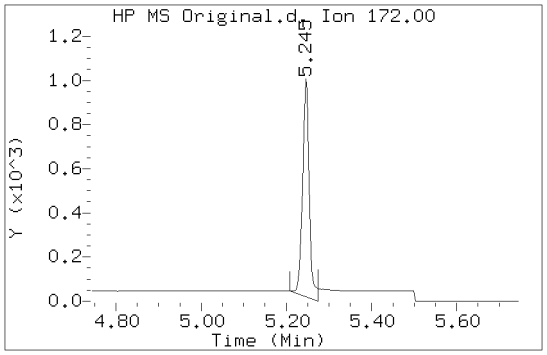


2-Fluorobiphenyl (321-60-8)

Reason Code:

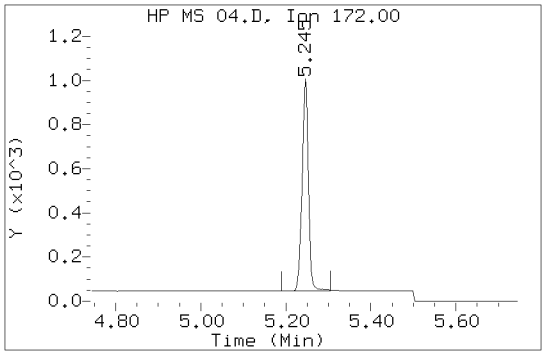
BEFORE

MASS
172
AREA
1093
HEIGHT
986
16-Jun-2023
11:24
ALSHS
Server



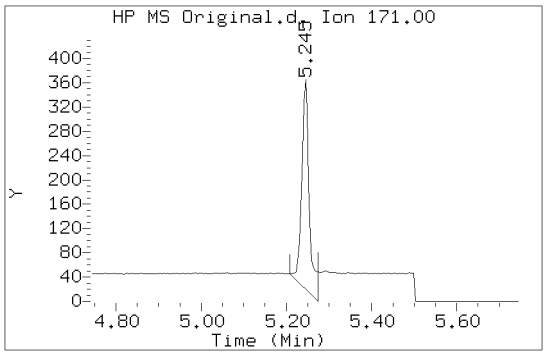
AFTER

MASS
172
AREA
1004
HEIGHT
960
29-Jun-2023
14:26
ALSHS
Ser



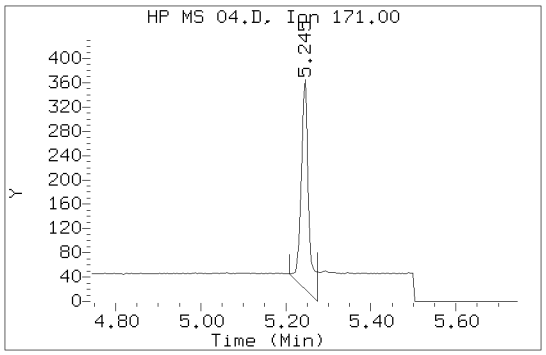
BEFORE

MASS
171
AREA
428
HEIGHT
345
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
171
AREA
428
HEIGHT
345
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Lab Smp Id: 14DXICAL-0.03 Client Smp ID: 14DXICAL-0.03
Inj Date : 16-JUN-2023 11:26
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:08 Cal File: 04.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	4348	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	14672	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	1234	0.03000	0.02782(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	8616	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	2509	0.03000	0.02843(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	16998	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	11821	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.888)	2416	0.03000	0.02800(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	10677	0.10000	(M)
1 1,4-Dioxane	58	1.467	1.467	(0.469)	426	0.03000	0.02909(QM)

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.

01199908

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D

Date : 16-JUN-2023 11:26

Client ID: 14DXICAL-0.03

Instrument: SV6.i

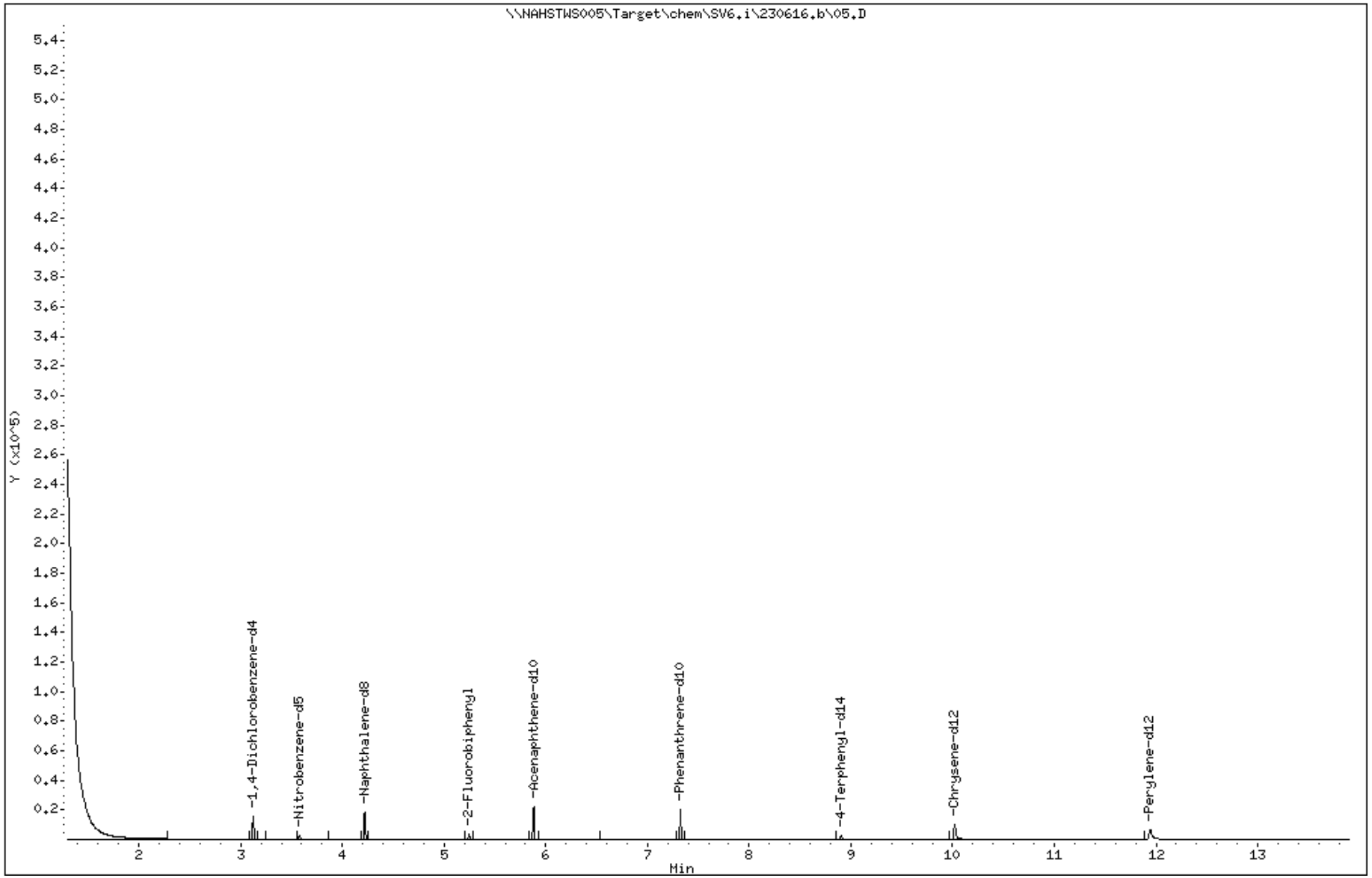
Sample Info: 14DXICAL-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



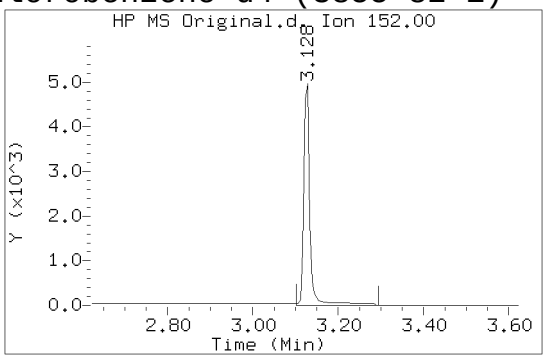
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

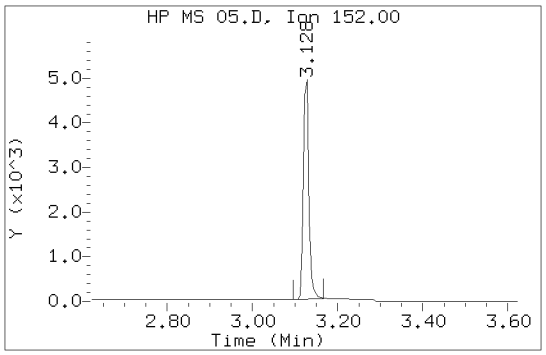
BEFORE

MASS
152
AREA
4935
HEIGHT
4966
16-Jun-2023
11:42
ALSHS
Server



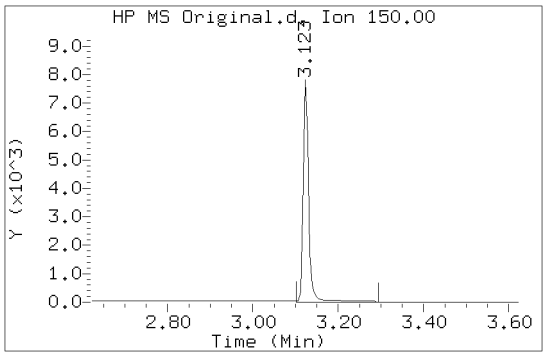
AFTER

MASS
152
AREA
4348
HEIGHT
4916
29-Jun-2023
14:26
ALSHS
Ser



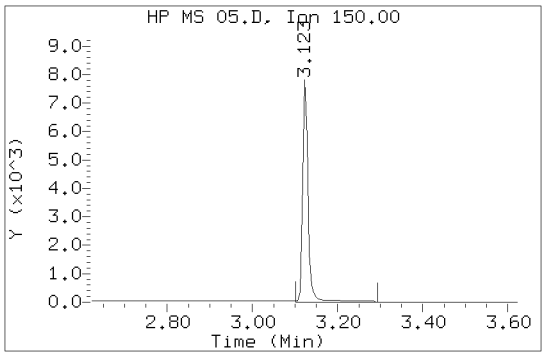
BEFORE

MASS
150
AREA
6954
HEIGHT
7812
16-Jun-2023
11:42
ALSHS
Server



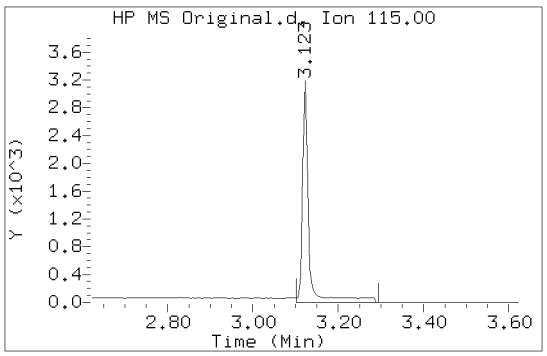
AFTER

MASS
150
AREA
6954
HEIGHT
7812
29-Jun-2023
14:26
ALSHS
Ser



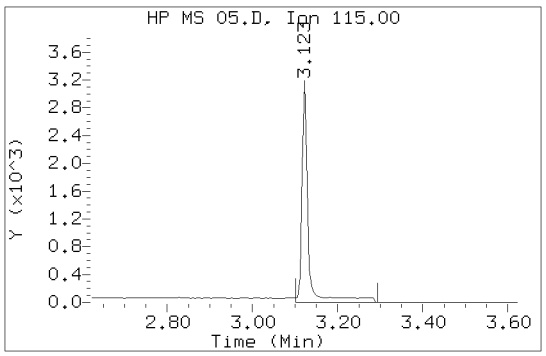
BEFORE

MASS
115
AREA
3189
HEIGHT
3190
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
115
AREA
3189
HEIGHT
3190
29-Jun-2023
14:26
ALSHS
Ser

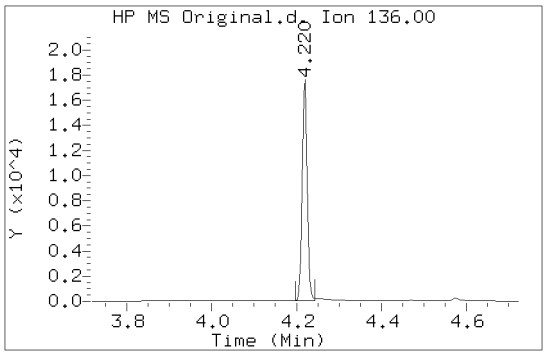


Naphthalene-d8 (1146-65-2)

Reason Code:

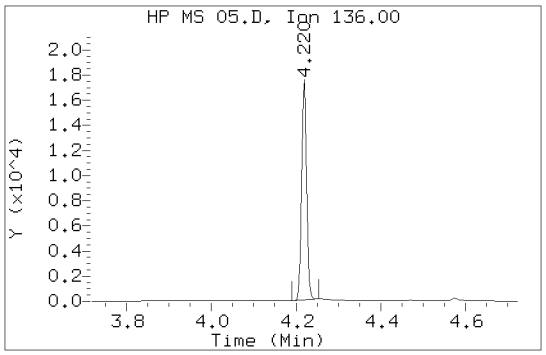
BEFORE

MASS
136
AREA
14851
HEIGHT
17567
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
136
AREA
14672
HEIGHT
17505
29-Jun-2023
14:26
ALSHS
Ser



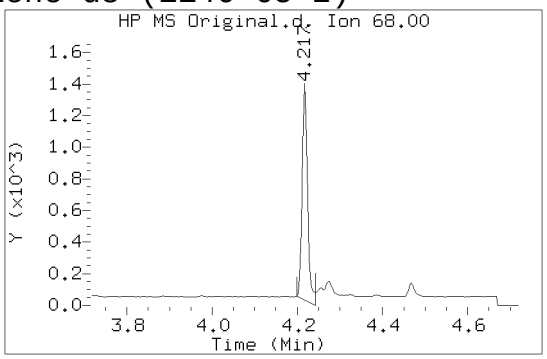
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

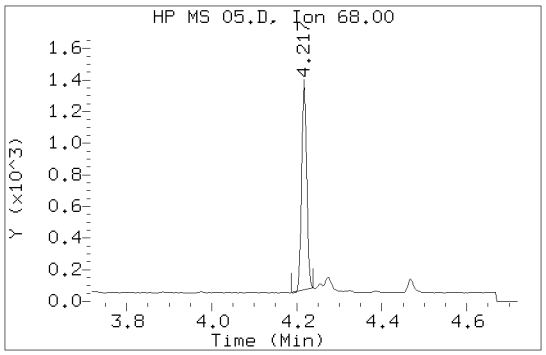
BEFORE

MASS
68
AREA
1196
HEIGHT
1368
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
68
AREA
1062
HEIGHT
1328
29-Jun-2023
14:26
ALSHS
Ser

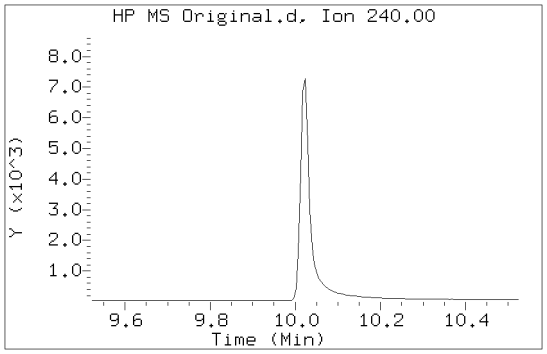


Chrysene-d12 (1719-03-5)

Reason Code:

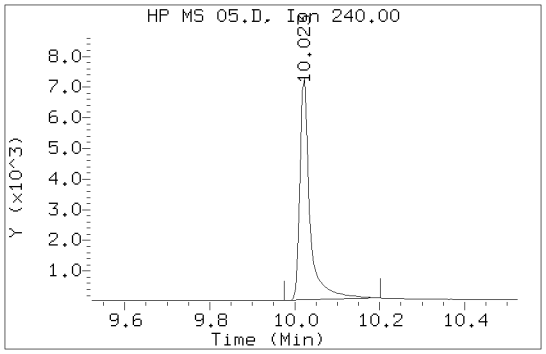
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



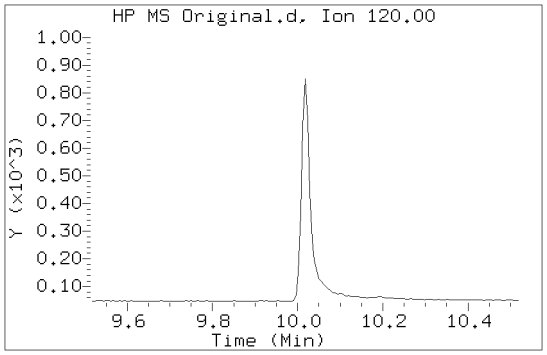
AFTER

MASS
240
AREA
11821
HEIGHT
7215
29-Jun-2023
14:26
ALSHS
Ser



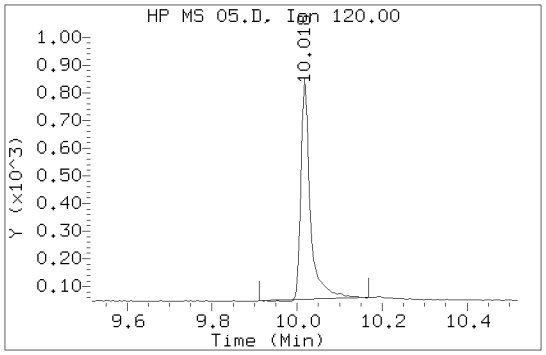
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



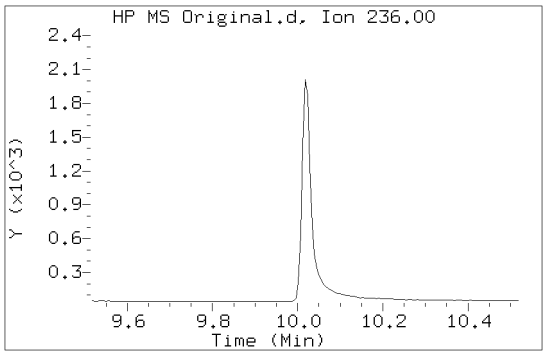
AFTER

MASS
120
AREA
1207
HEIGHT
796
29-Jun-2023
14:26
ALSHS
Ser



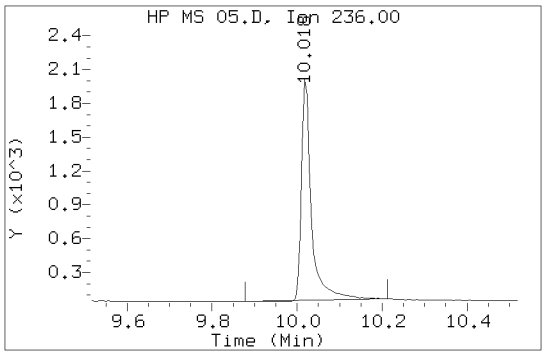
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
236
AREA
3185
HEIGHT
1956
29-Jun-2023
14:26
ALSHS
Ser



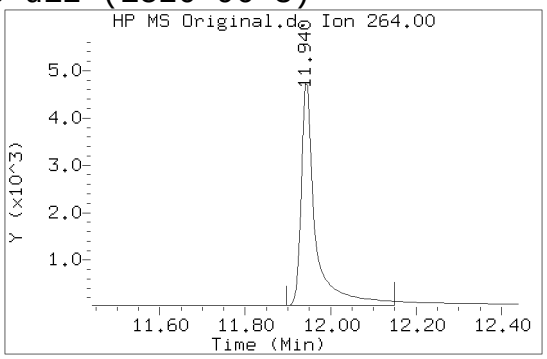
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

Perylene-d12 (1520-96-3)

Reason Code:

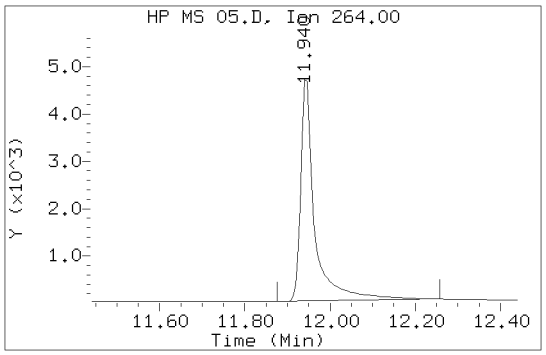
BEFORE

MASS
264
AREA
10829
HEIGHT
4681
16-Jun-2023
11:42
ALSHS
Server



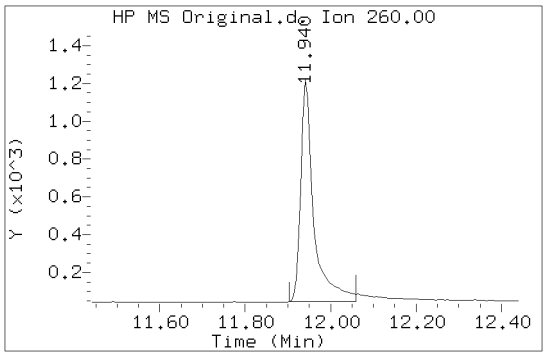
AFTER

MASS
264
AREA
10677
HEIGHT
4673
29-Jun-2023
14:26
ALSHS
Ser



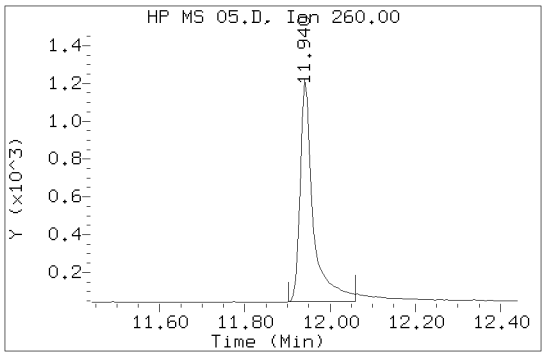
BEFORE

MASS
260
AREA
2488
HEIGHT
1174
16-Jun-2023
11:42
ALSHS
Server



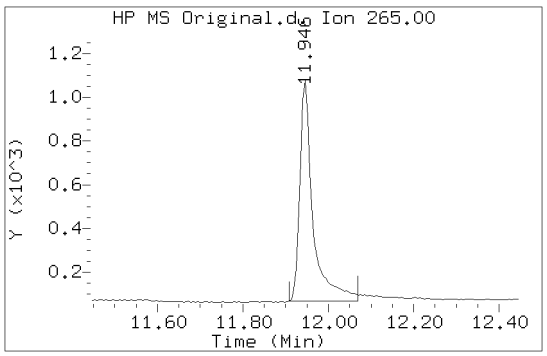
AFTER

MASS
260
AREA
2488
HEIGHT
1174
29-Jun-2023
14:26
ALSHS
Ser



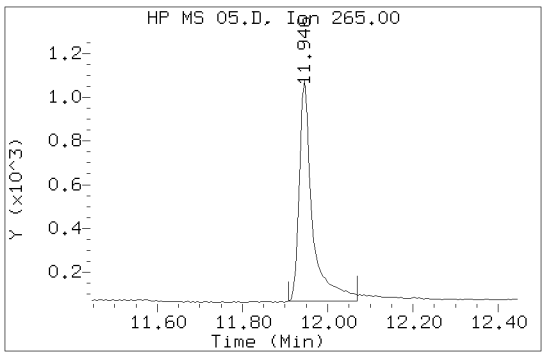
BEFORE

MASS
265
AREA
2154
HEIGHT
1009
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
265
AREA
2154
HEIGHT
1009
29-Jun-2023
14:26
ALSHS
Ser

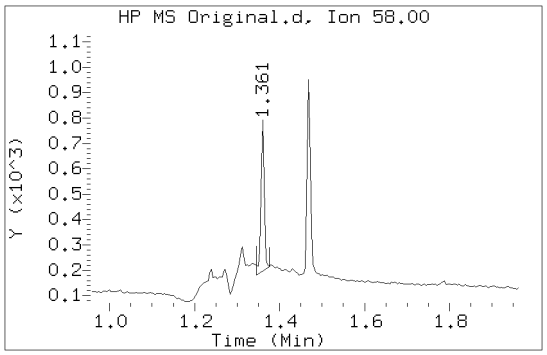


1,4-Dioxane ()

Reason Code:

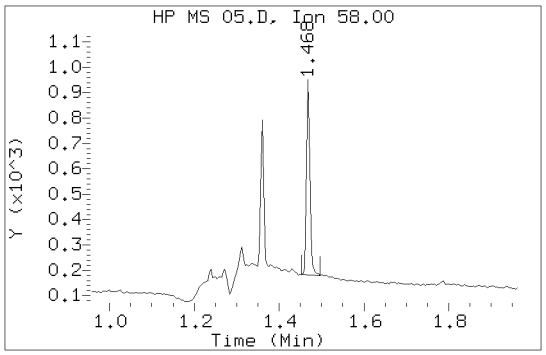
BEFORE

MASS
58
AREA
319
HEIGHT
594
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
58
AREA
426
HEIGHT
768
29-Jun-2023
14:26
ALSHS
Ser



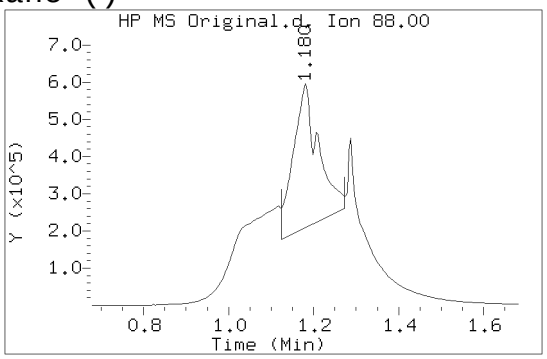
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

1,4-Dioxane ()

Reason Code:

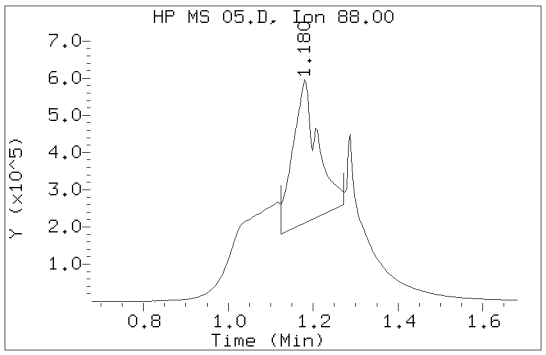
BEFORE

MASS
88
AREA
1599767
HEIGHT
386587
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
88
AREA
1591467
HEIGHT
385442
29-Jun-2023
14:26
ALSHS
Ser

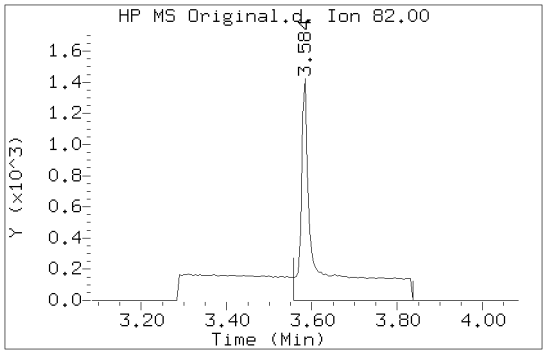


Nitrobenzene-d5 (4165-60-0)

Reason Code:

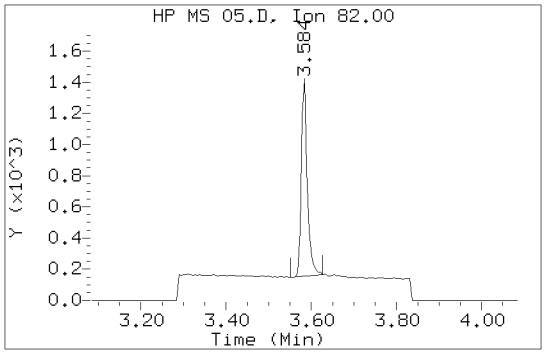
BEFORE

MASS
82
AREA
3739
HEIGHT
1423
16-Jun-2023
11:42
ALSHS
Server



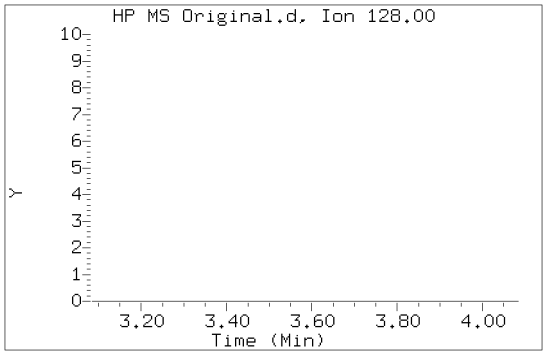
AFTER

MASS
82
AREA
1234
HEIGHT
1266
29-Jun-2023
14:26
ALSHS
Ser



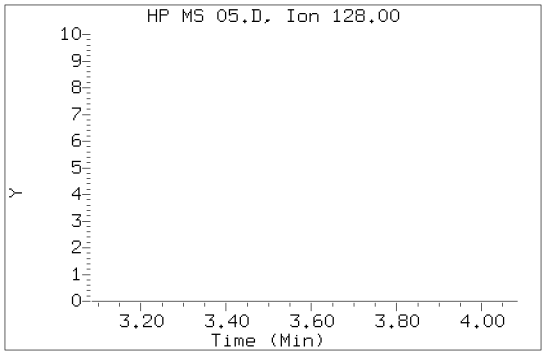
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



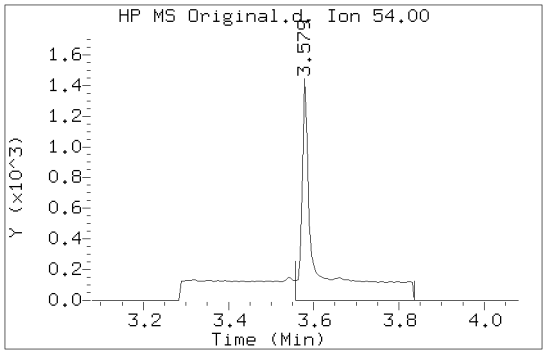
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



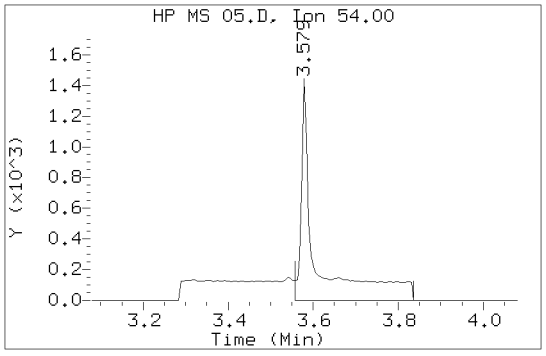
BEFORE

MASS
54
AREA
3364
HEIGHT
1444
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
54
AREA
3364
HEIGHT
1444
29-Jun-2023
14:26
ALSHS
Ser



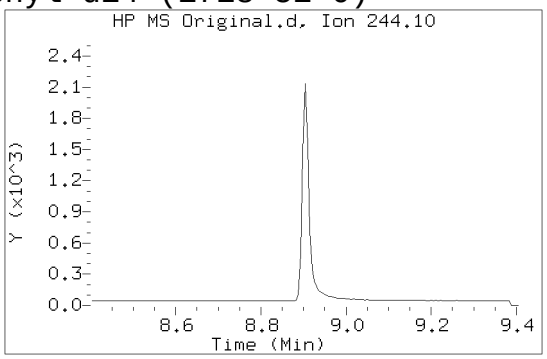
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

4-Terphenyl-d14 (1718-51-0)

Reason Code:

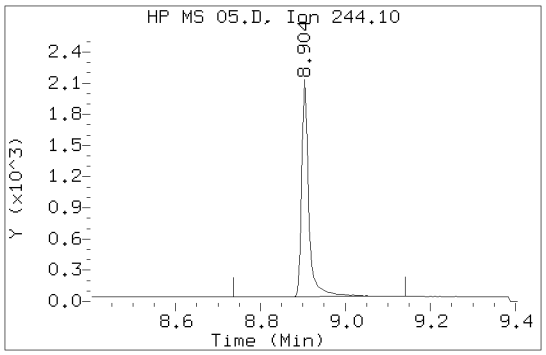
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



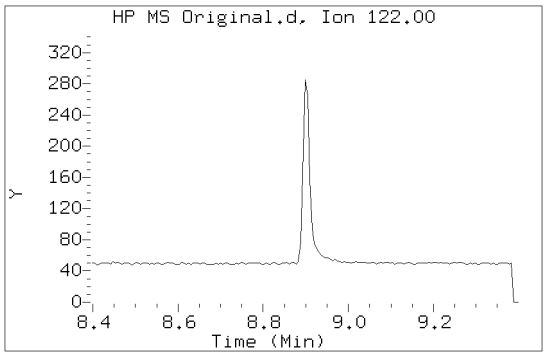
AFTER

MASS
244.1
AREA
2416
HEIGHT
2087
29-Jun-2023
14:26
ALSHS
Ser



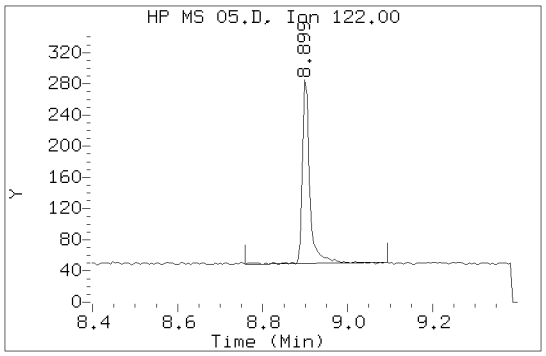
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



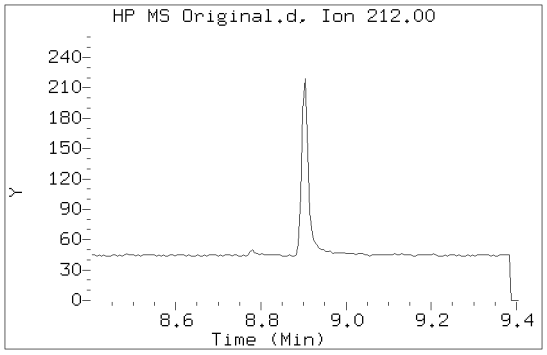
AFTER

MASS
122
AREA
278
HEIGHT
235
29-Jun-2023
14:26
ALSHS
Ser



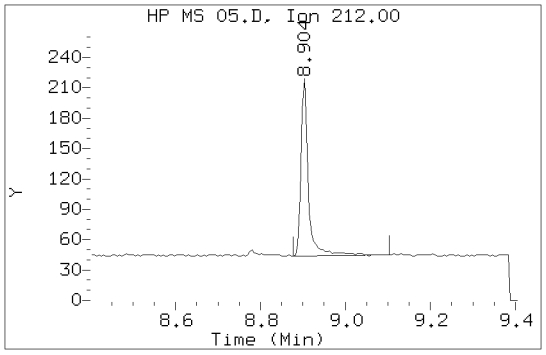
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
212
AREA
205
HEIGHT
174
29-Jun-2023
14:26
ALSHS
Ser

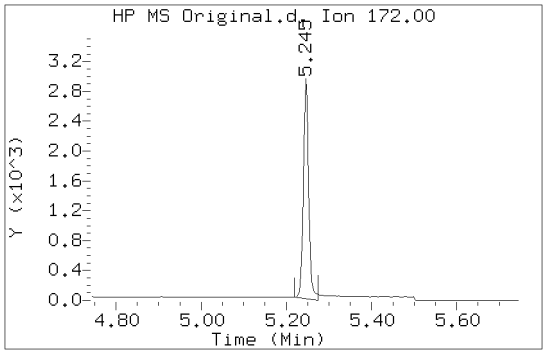


2-Fluorobiphenyl (321-60-8)

Reason Code:

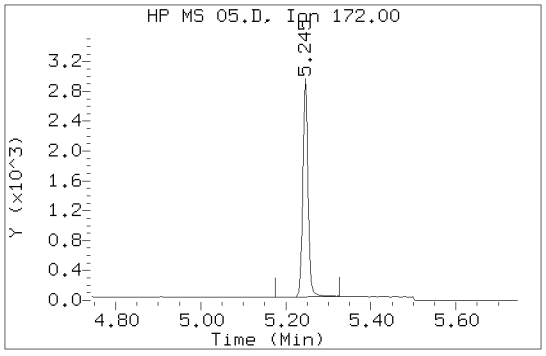
BEFORE

MASS
172
AREA
2588
HEIGHT
2943
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
172
AREA
2509
HEIGHT
2918
29-Jun-2023
14:26
ALSHS
Ser



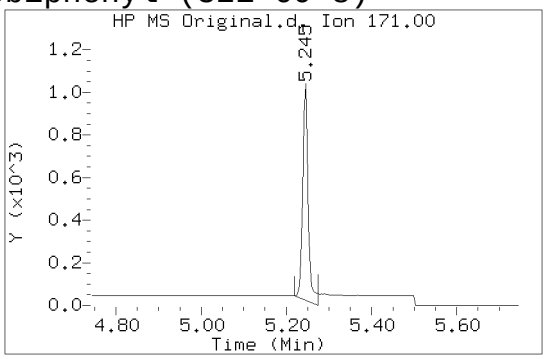
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

2-Fluorobiphenyl (321-60-8)

Reason Code:

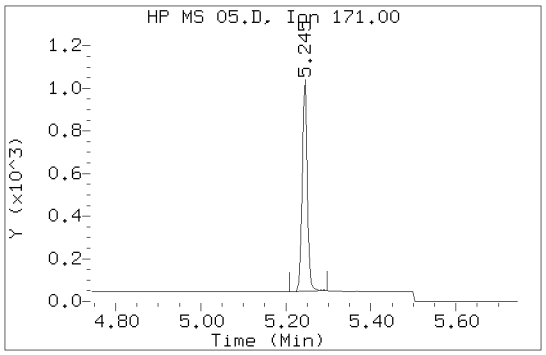
BEFORE

MASS
171
AREA
921
HEIGHT
1017
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
171
AREA
834
HEIGHT
993
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Lab Smp Id: 14DXICAL-0.05 Client Smp ID: 14DXICAL-0.05
Inj Date : 16-JUN-2023 11:44
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:26 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	5073	0.10000	(a)
* 45 Naphthalene-d8	136	4.216	4.216	(1.000)	17044	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.850)	2574	0.05000	0.04995(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10027	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	4907	0.05000	0.04778(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	19800	0.10000	
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	14524	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	4687	0.05000	0.04422(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	12549	0.10000	(M)
1 1,4-Dioxane	58	1.486	1.486	(0.475)	828	0.05000	0.04846(QM)

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.

01199916

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D

Date : 16-JUN-2023 11:44

Client ID: 14DXICAL-0.05

Instrument: SV6.i

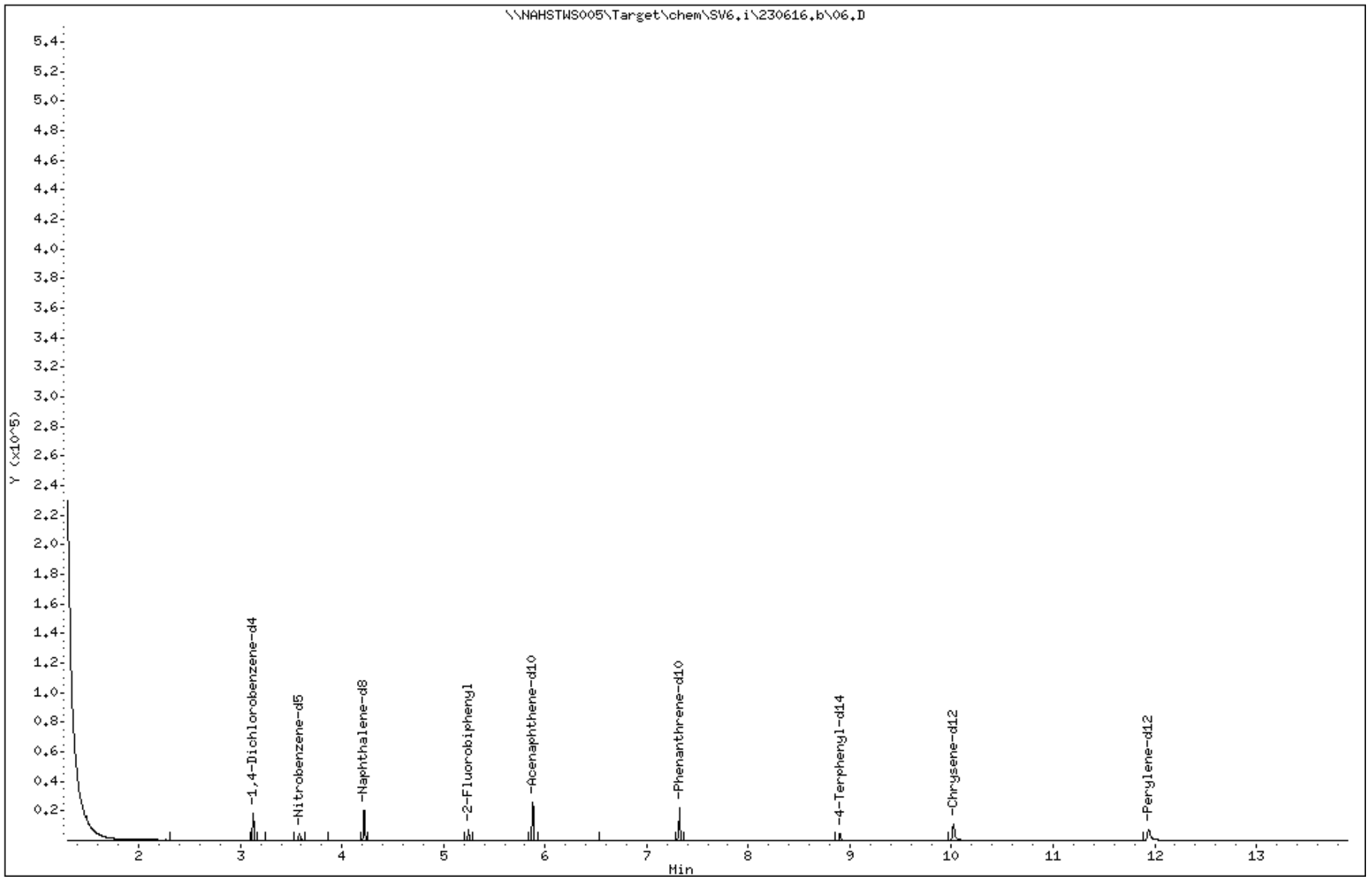
Sample Info: 14DXICAL-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



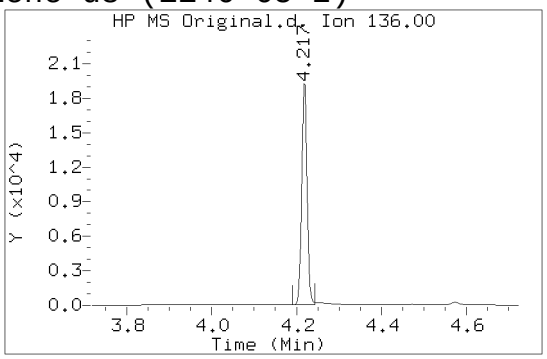
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

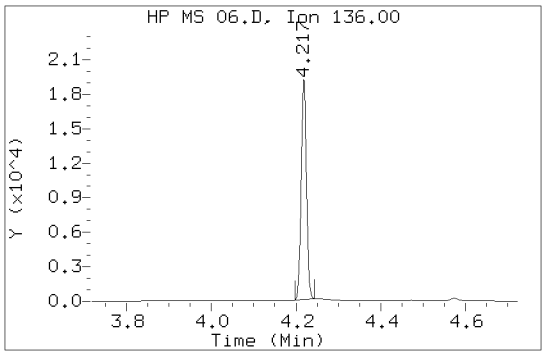
BEFORE

MASS
136
AREA
17378
HEIGHT
19211
16-Jun-2023
11:59
ALSHS
Server



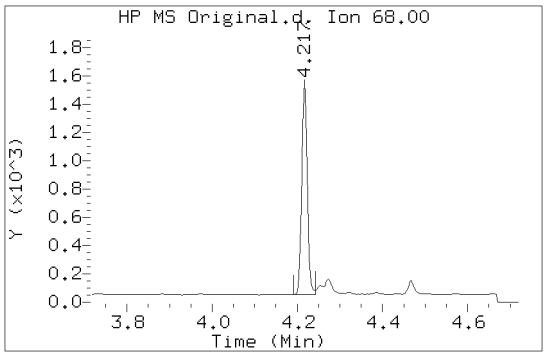
AFTER

MASS
136
AREA
17044
HEIGHT
19106
29-Jun-2023
14:26
ALSHS
Ser



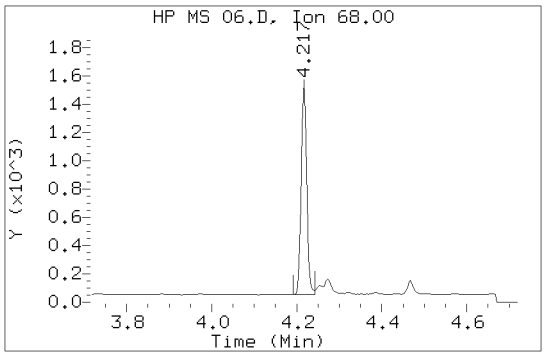
BEFORE

MASS
68
AREA
1330
HEIGHT
1515
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
68
AREA
1330
HEIGHT
1515
29-Jun-2023
14:26
ALSHS
Ser

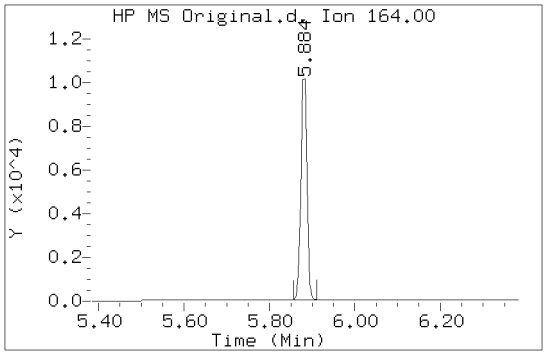


Acenaphthene-d10 (15067-26-2)

Reason Code:

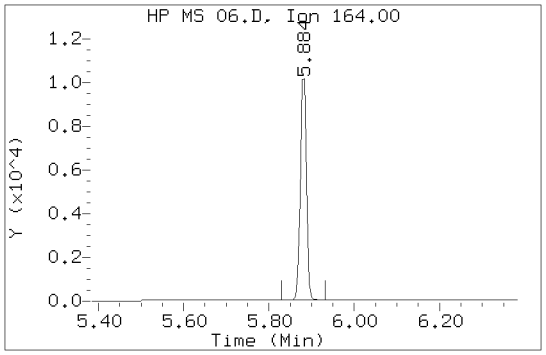
BEFORE

MASS
164
AREA
9969
HEIGHT
10109
16-Jun-2023
11:59
ALSHS
Server



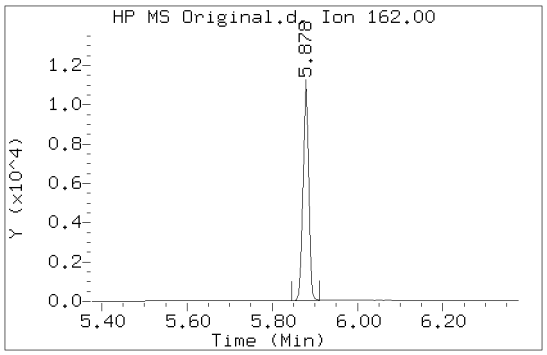
AFTER

MASS
164
AREA
10027
HEIGHT
10124
29-Jun-2023
14:26
ALSHS
Ser



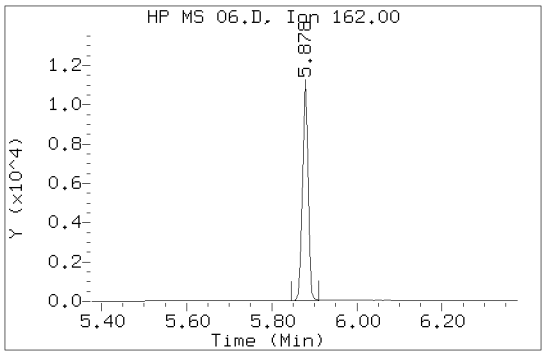
BEFORE

MASS
162
AREA
10122
HEIGHT
11230
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
162
AREA
10122
HEIGHT
11230
29-Jun-2023
14:26
ALSHS
Ser



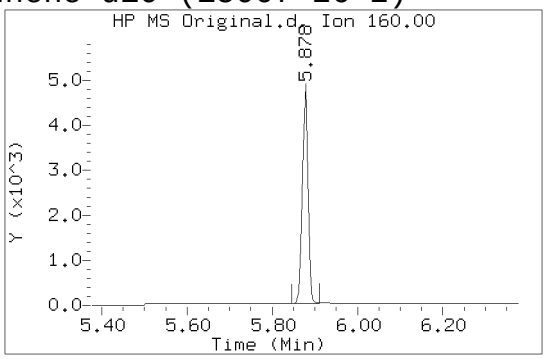
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Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Acenaphthene-d10 (15067-26-2)

Reason Code:

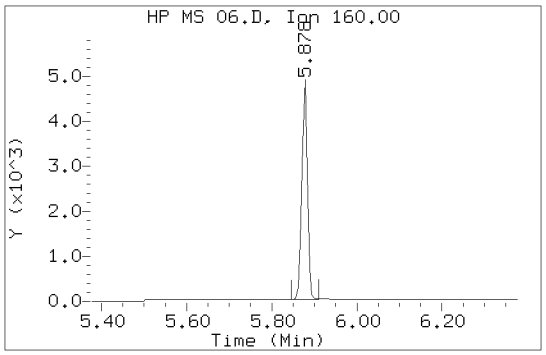
BEFORE

MASS
160
AREA
4359
HEIGHT
4881
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
160
AREA
4359
HEIGHT
4881
29-Jun-2023
14:26
ALSHS
Ser

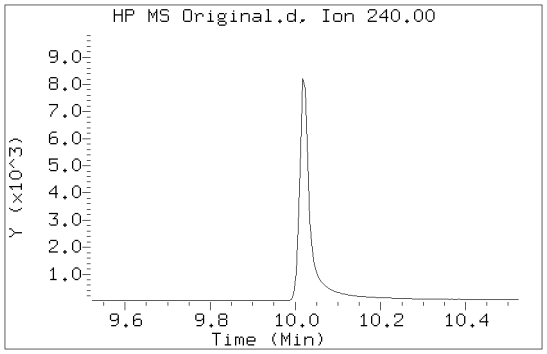


Chrysene-d12 (1719-03-5)

Reason Code:

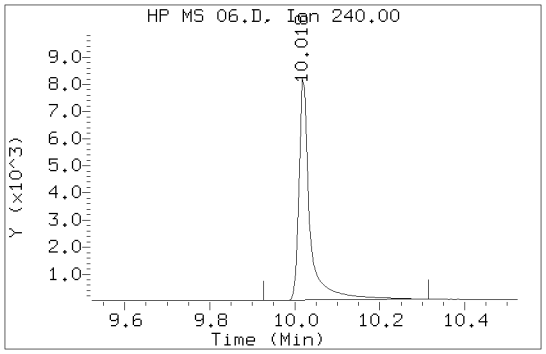
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



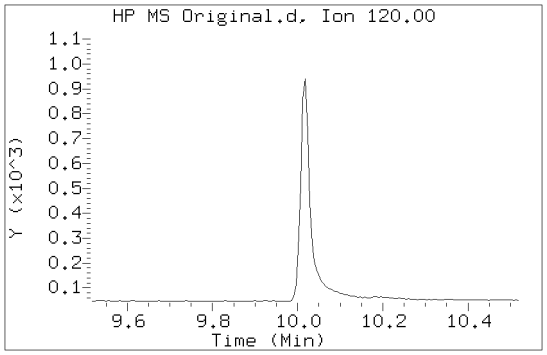
AFTER

MASS
240
AREA
14524
HEIGHT
8152
29-Jun-2023
14:26
ALSHS
Ser



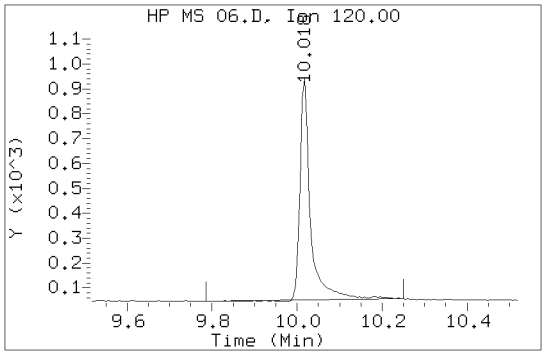
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



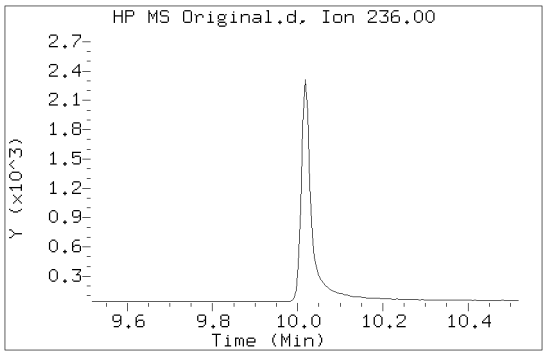
AFTER

MASS
120
AREA
1511
HEIGHT
888
29-Jun-2023
14:26
ALSHS
Ser



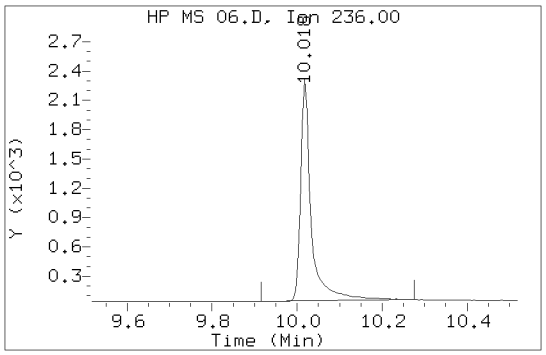
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
236
AREA
3903
HEIGHT
2262
29-Jun-2023
14:26
ALSHS
Ser



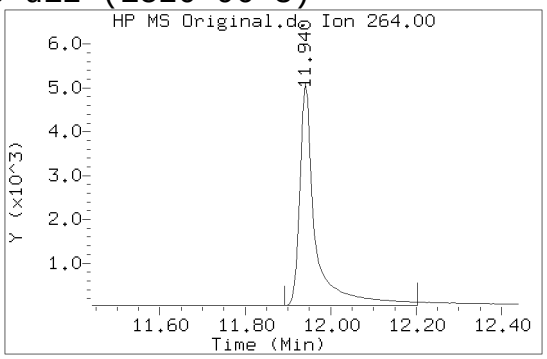
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Perylene-d12 (1520-96-3)

Reason Code:

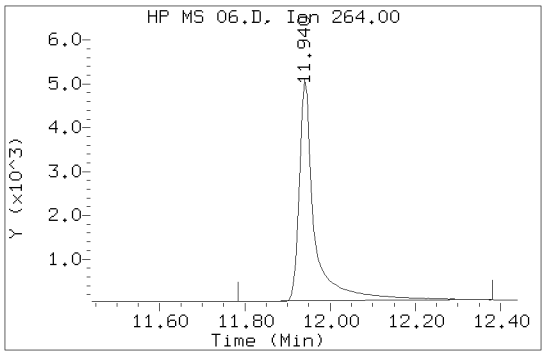
BEFORE

MASS
264
AREA
12686
HEIGHT
5050
16-Jun-2023
11:59
ALSHS
Server



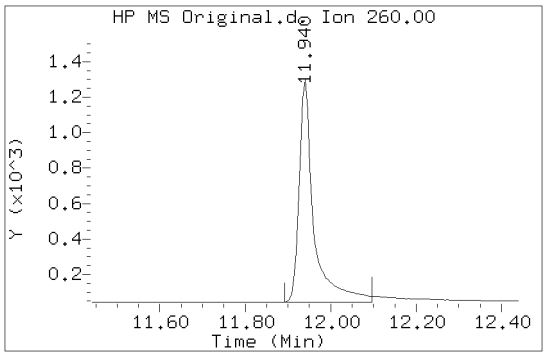
AFTER

MASS
264
AREA
12549
HEIGHT
5041
29-Jun-2023
14:26
ALSHS
Ser



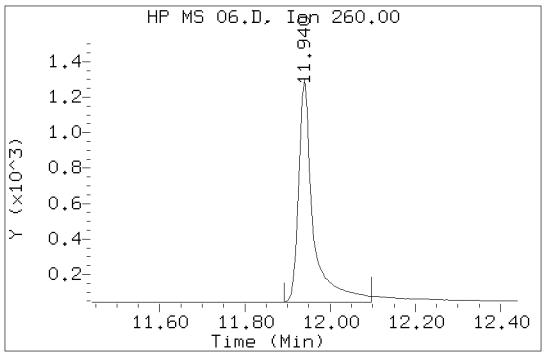
BEFORE

MASS
260
AREA
2978
HEIGHT
1253
16-Jun-2023
11:59
ALSHS
Server



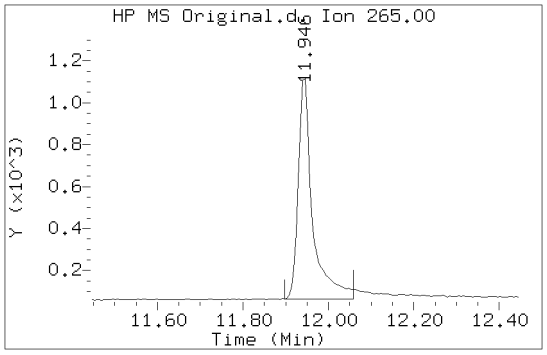
AFTER

MASS
260
AREA
2978
HEIGHT
1253
29-Jun-2023
14:26
ALSHS
Ser



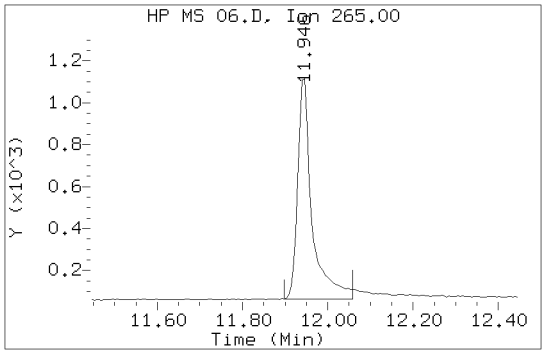
BEFORE

MASS
265
AREA
2473
HEIGHT
1053
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
265
AREA
2473
HEIGHT
1053
29-Jun-2023
14:26
ALSHS
Ser

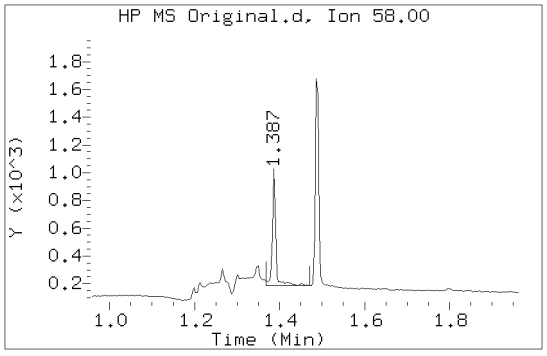


1,4-Dioxane ()

Reason Code:

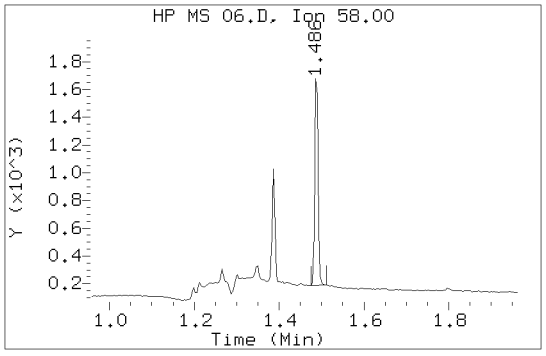
BEFORE

MASS
58
AREA
474
HEIGHT
839
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
58
AREA
828
HEIGHT
1488
29-Jun-2023
14:26
ALSHS
Ser



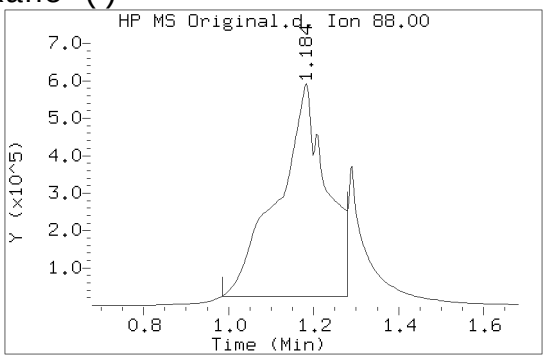
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

1,4-Dioxane ()

Reason Code:

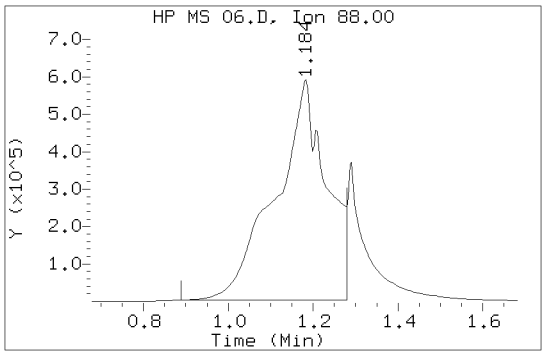
BEFORE

MASS
88
AREA
4490753
HEIGHT
567696
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
88
AREA
4905096
HEIGHT
589066
29-Jun-2023
14:26
ALSHS
Ser

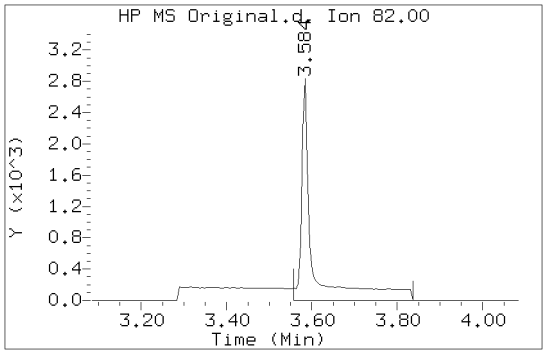


Nitrobenzene-d5 (4165-60-0)

Reason Code:

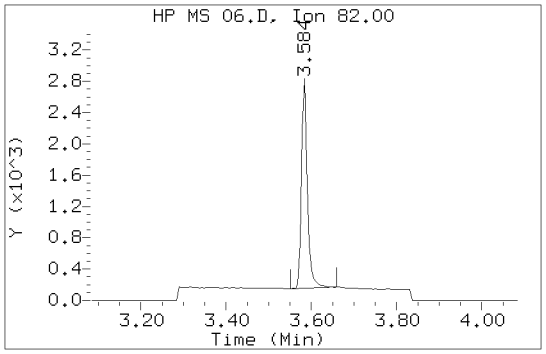
BEFORE

MASS
82
AREA
5121
HEIGHT
2833
16-Jun-2023
11:59
ALSHS
Server



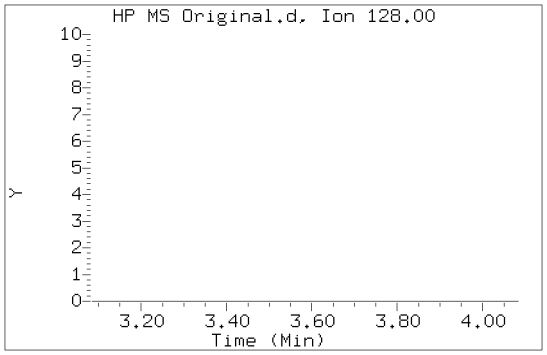
AFTER

MASS
82
AREA
2574
HEIGHT
2676
29-Jun-2023
14:26
ALSHS
Ser



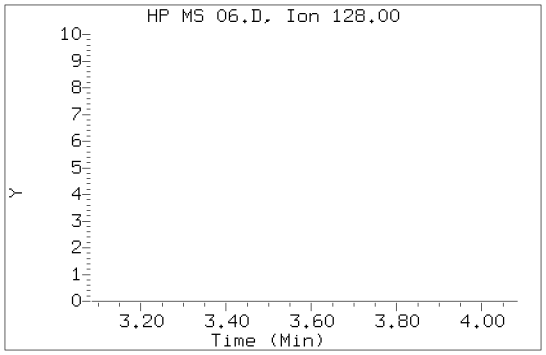
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



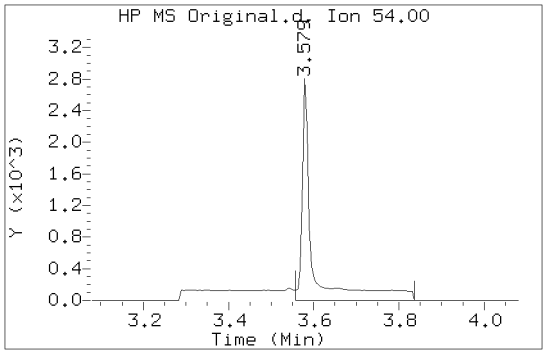
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



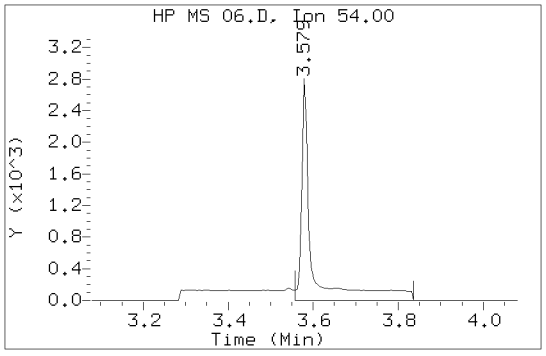
BEFORE

MASS
54
AREA
4709
HEIGHT
2805
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
54
AREA
4709
HEIGHT
2805
29-Jun-2023
14:26
ALSHS
Ser



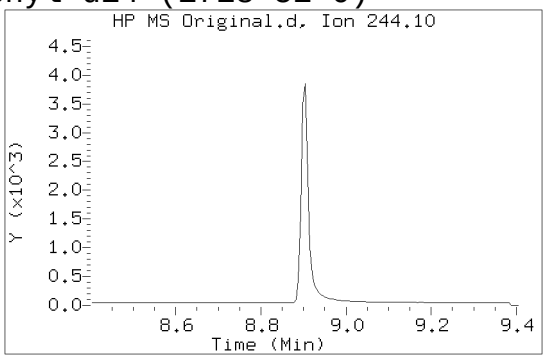
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

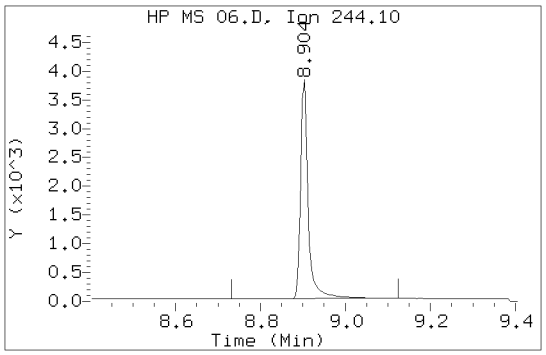
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



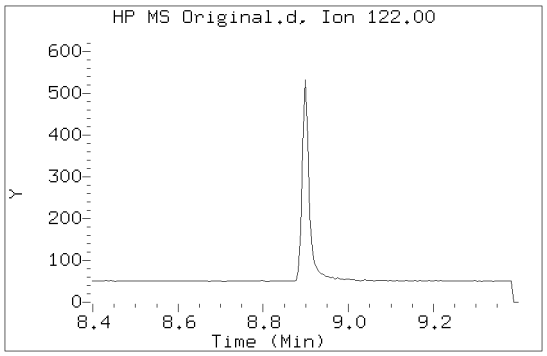
AFTER

MASS
244.1
AREA
4687
HEIGHT
3802
29-Jun-2023
14:26
ALSHS
Ser



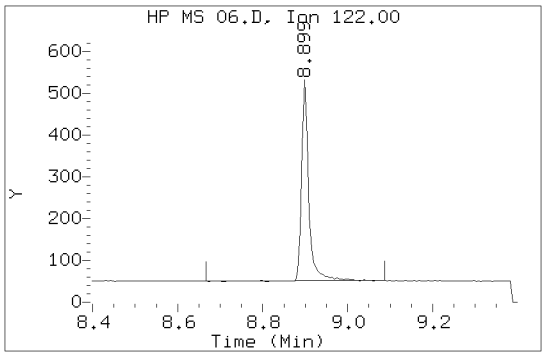
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



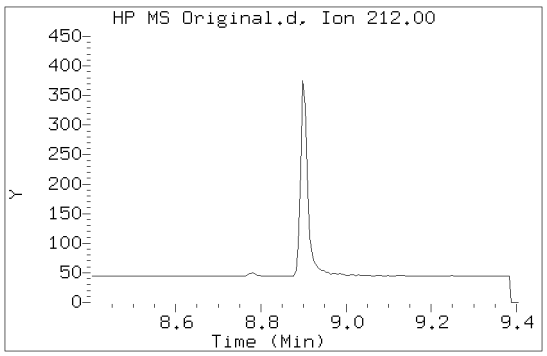
AFTER

MASS
122
AREA
540
HEIGHT
480
29-Jun-2023
14:26
ALSHS
Ser



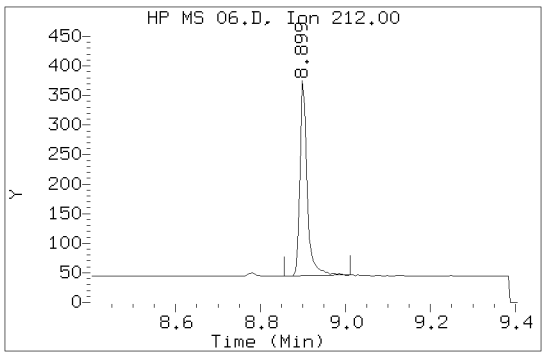
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
212
AREA
383
HEIGHT
330
29-Jun-2023
14:26
ALSHS
Ser

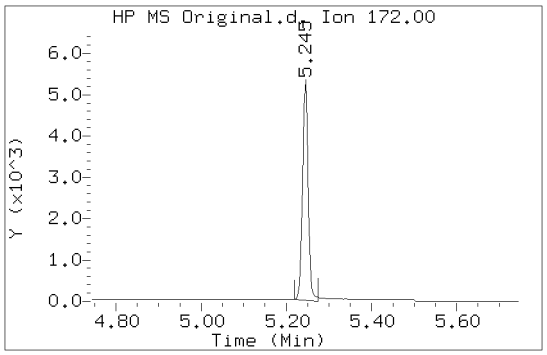


2-Fluorobiphenyl (321-60-8)

Reason Code:

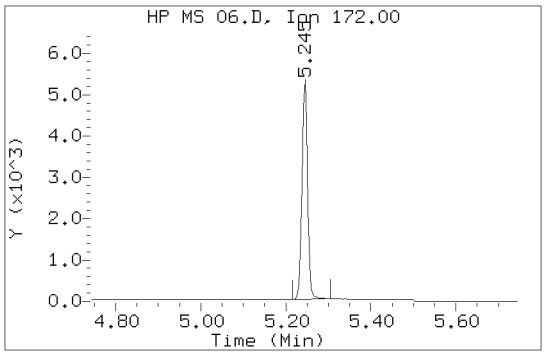
BEFORE

MASS
172
AREA
4989
HEIGHT
5338
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
172
AREA
4907
HEIGHT
5312
29-Jun-2023
14:26
ALSHS
Ser



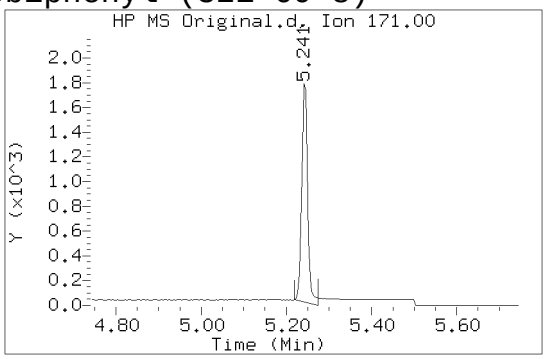
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

2-Fluorobiphenyl (321-60-8)

Reason Code:

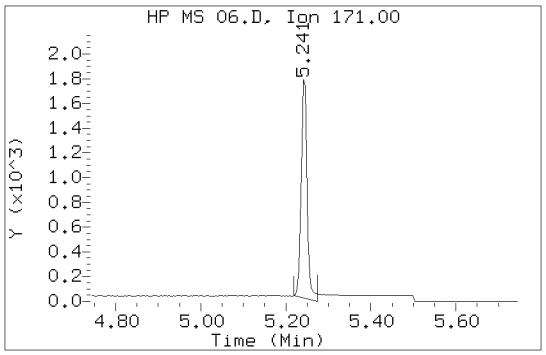
BEFORE

MASS
171
AREA
1727
HEIGHT
1764
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
171
AREA
1727
HEIGHT
1764
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Lab Smp Id: 14DXICAL-0.08 Client Smp ID: 14DXICAL-0.08
Inj Date : 16-JUN-2023 12:02
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:44 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	4590	0.10000	(a)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	15619	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	4012	0.08000	0.08496(M)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	9075	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	7759	0.08000	0.08348
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	18261	0.10000	
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	12097	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	7185	0.08000	0.08138(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	10759	0.10000	(M)
1 1,4-Dioxane	58	1.482	1.482	(0.474)	1283	0.08000	0.08298(QH)

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.

01199924

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D

Date : 16-JUN-2023 12:02

Client ID: 14DXICAL-0.08

Instrument: SV6.i

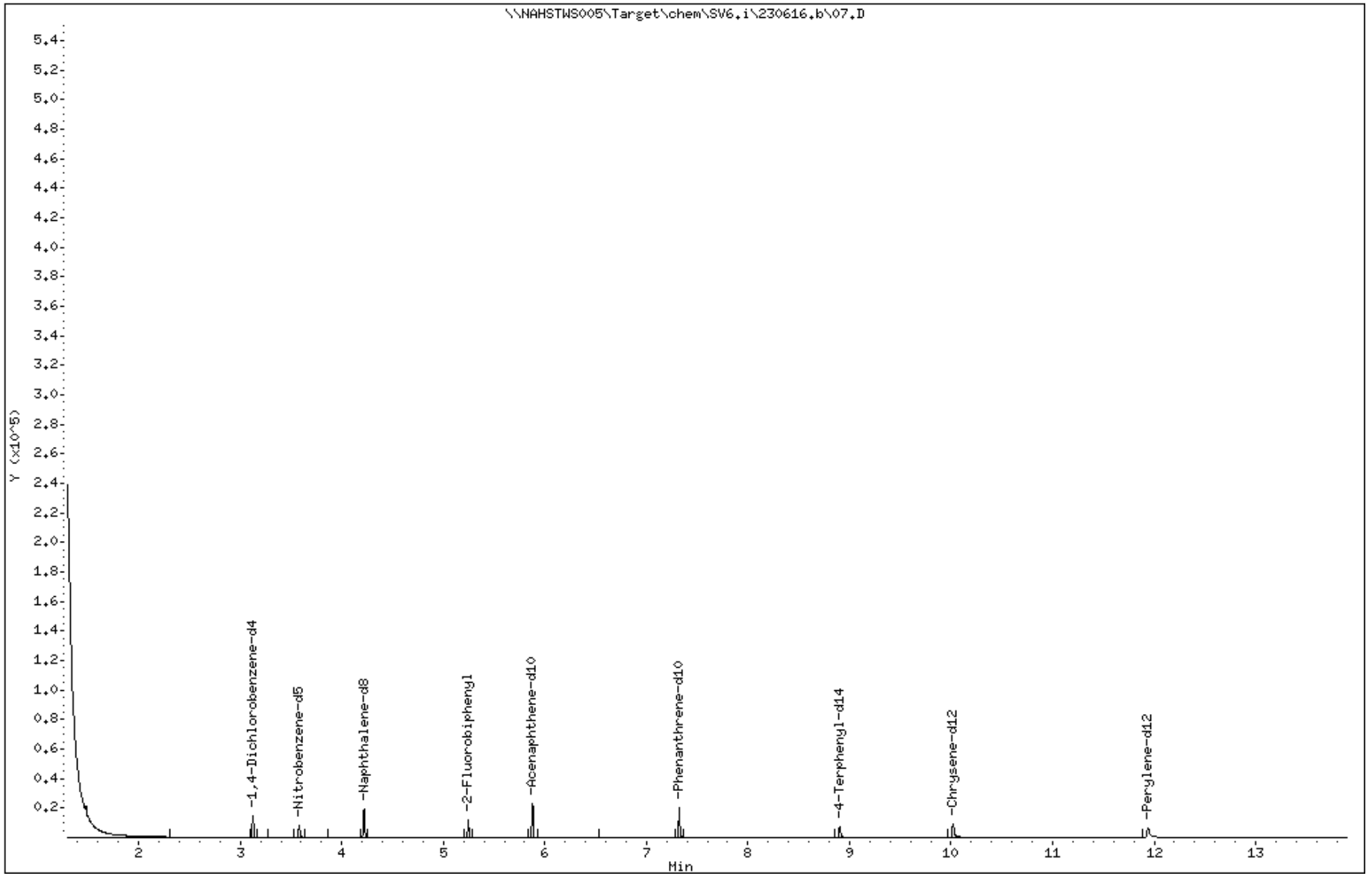
Sample Info: 14DXICAL-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



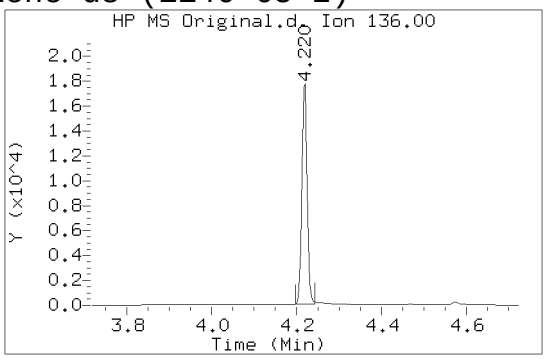
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

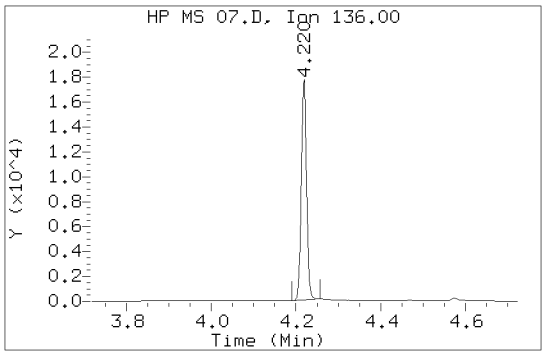
BEFORE

MASS
136
AREA
15744
HEIGHT
17718
16-Jun-2023
12:18
ALSHS
Server



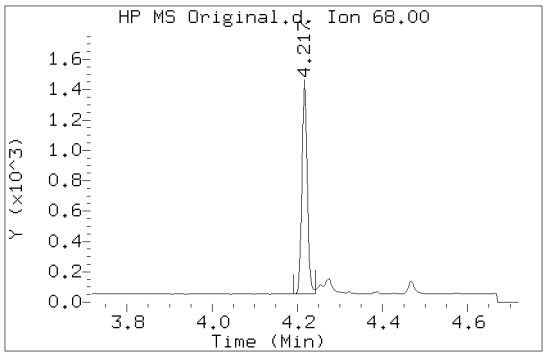
AFTER

MASS
136
AREA
15619
HEIGHT
17670
29-Jun-2023
14:26
ALSHS
Ser



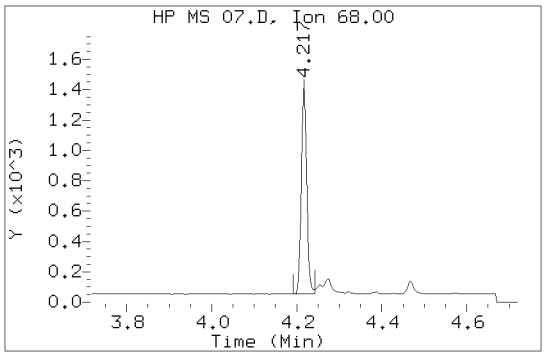
BEFORE

MASS
68
AREA
1209
HEIGHT
1411
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
68
AREA
1209
HEIGHT
1411
29-Jun-2023
14:26
ALSHS
Ser

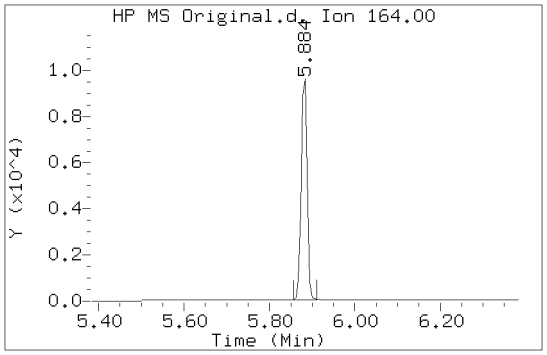


Acenaphthene-d10 (15067-26-2)

Reason Code:

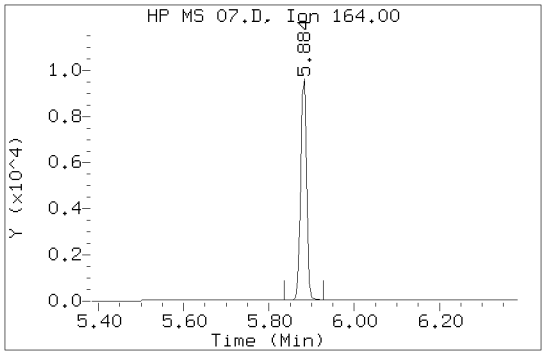
BEFORE

MASS
164
AREA
9060
HEIGHT
9568
16-Jun-2023
12:18
ALSHS
Server



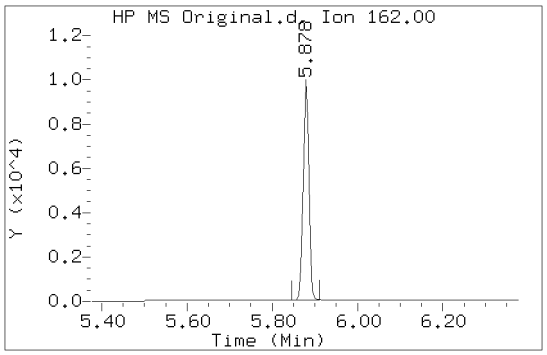
AFTER

MASS
164
AREA
9075
HEIGHT
9571
29-Jun-2023
14:26
ALSHS
Ser



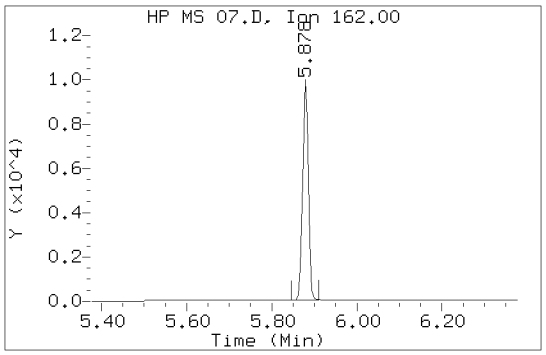
BEFORE

MASS
162
AREA
9173
HEIGHT
9961
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
162
AREA
9173
HEIGHT
9961
29-Jun-2023
14:26
ALSHS
Ser



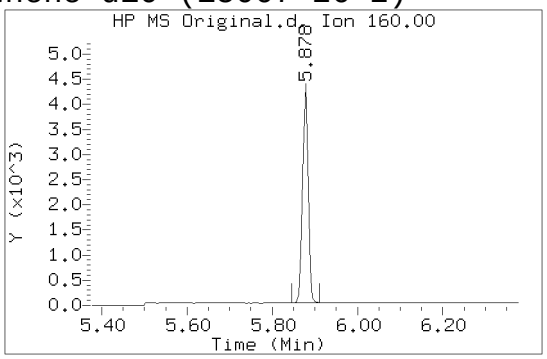
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

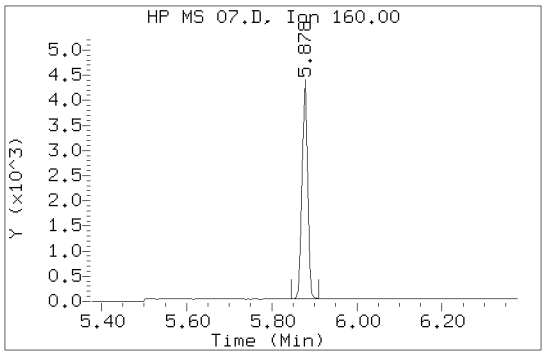
BEFORE

MASS
160
AREA
3928
HEIGHT
4365
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
160
AREA
3928
HEIGHT
4365
29-Jun-2023
14:26
ALSHS
Ser

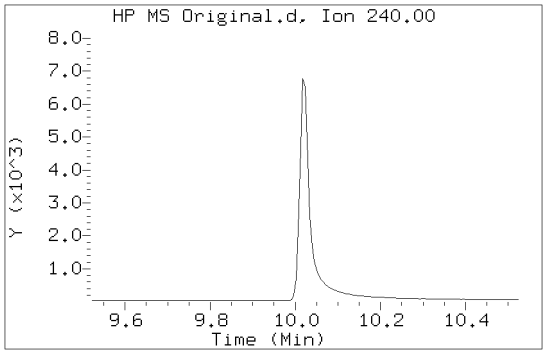


Chrysene-d12 (1719-03-5)

Reason Code:

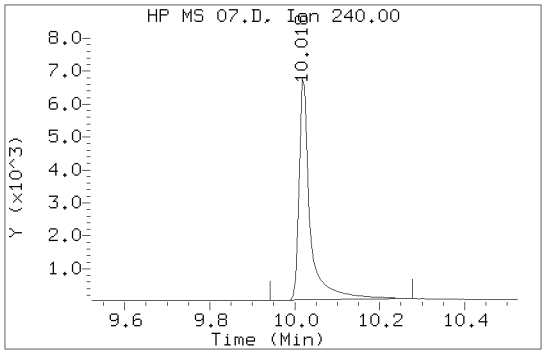
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



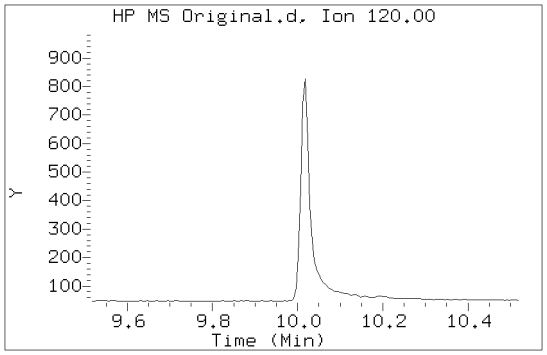
AFTER

MASS
240
AREA
12097
HEIGHT
6713
29-Jun-2023
14:26
ALSHS
Ser



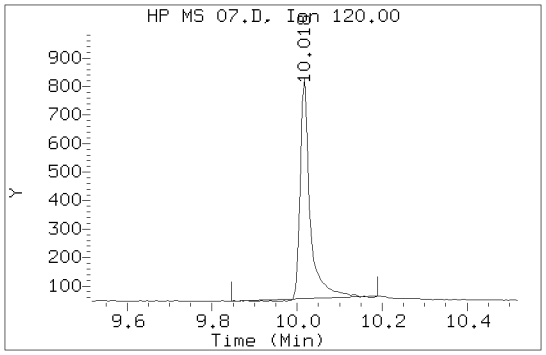
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



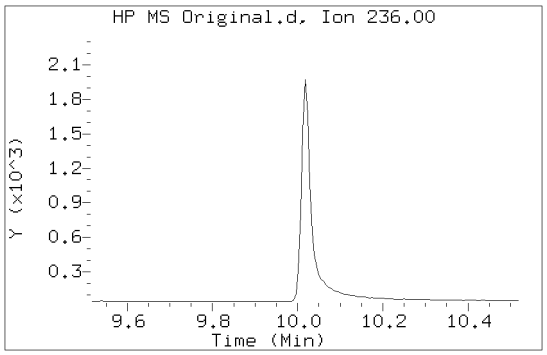
AFTER

MASS
120
AREA
1207
HEIGHT
771
29-Jun-2023
14:26
ALSHS
Ser



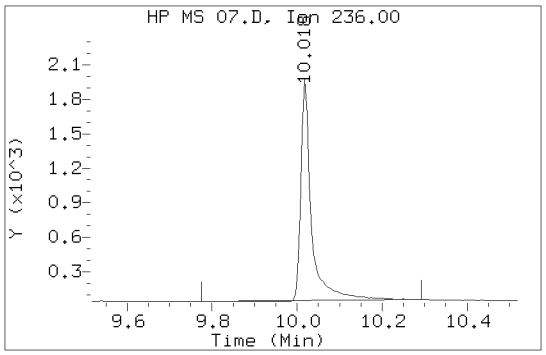
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
236
AREA
3279
HEIGHT
1919
29-Jun-2023
14:26
ALSHS
Ser



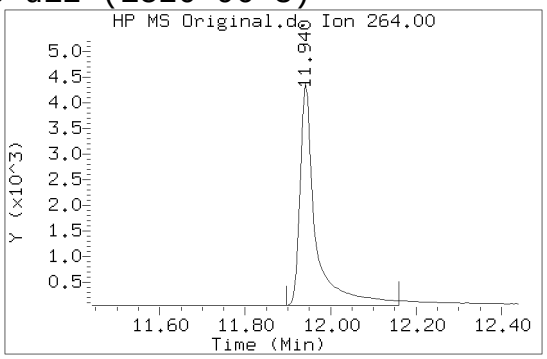
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Perylene-d12 (1520-96-3)

Reason Code:

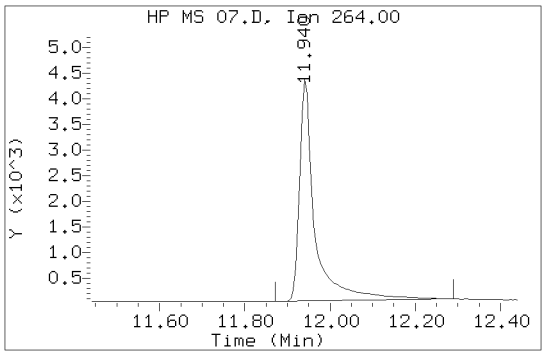
BEFORE

MASS
264
AREA
10879
HEIGHT
4324
16-Jun-2023
12:18
ALSHS
Server



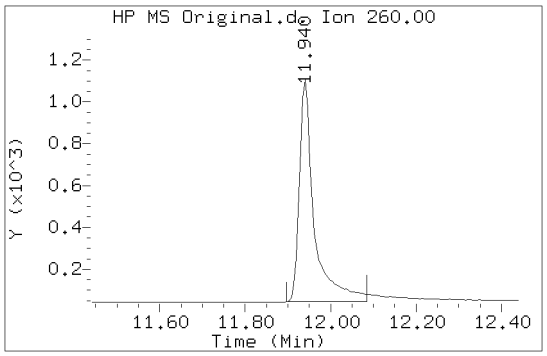
AFTER

MASS
264
AREA
10759
HEIGHT
4317
29-Jun-2023
14:26
ALSHS
Ser



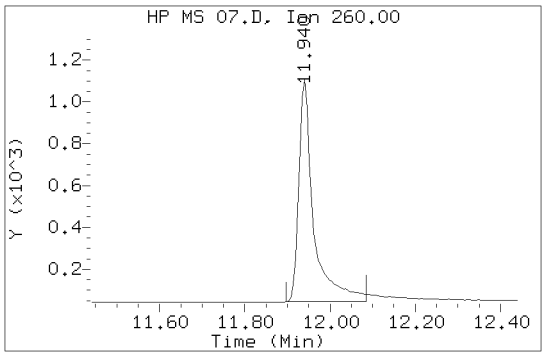
BEFORE

MASS
260
AREA
2559
HEIGHT
1060
16-Jun-2023
12:18
ALSHS
Server



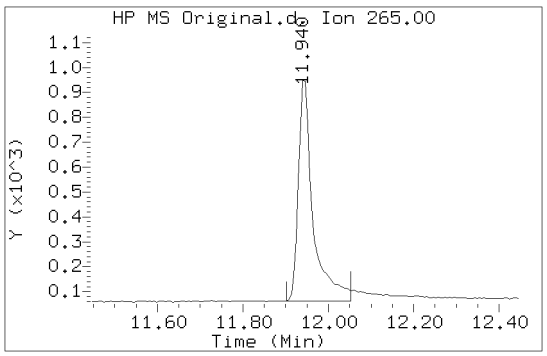
AFTER

MASS
260
AREA
2559
HEIGHT
1060
29-Jun-2023
14:26
ALSHS
Ser



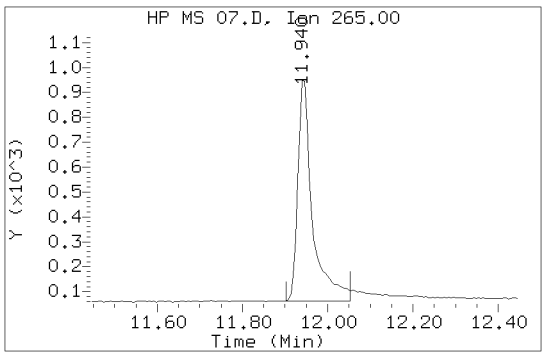
BEFORE

MASS
265
AREA
2115
HEIGHT
884
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
265
AREA
2115
HEIGHT
884
29-Jun-2023
14:26
ALSHS
Ser

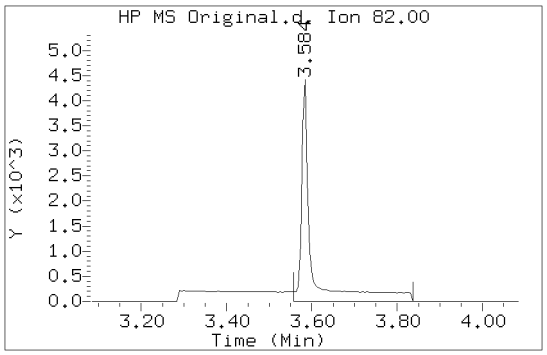


Nitrobenzene-d5 (4165-60-0)

Reason Code:

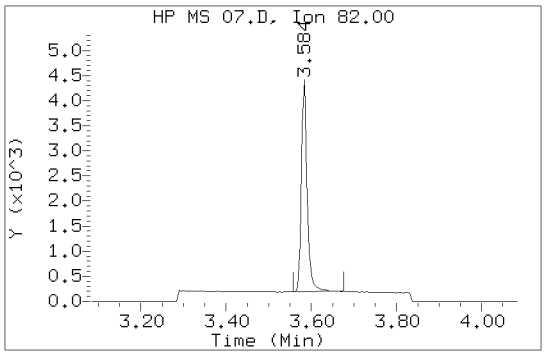
BEFORE

MASS
82
AREA
7140
HEIGHT
4418
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
82
AREA
4012
HEIGHT
4226
29-Jun-2023
14:26
ALSHS
Ser



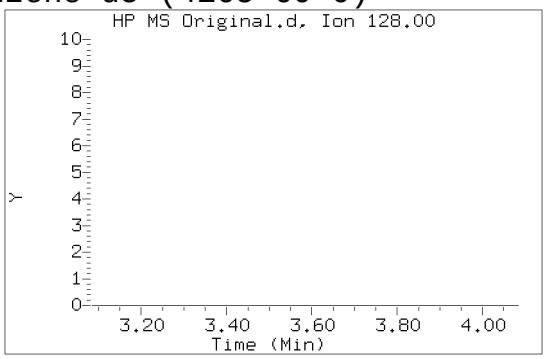
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

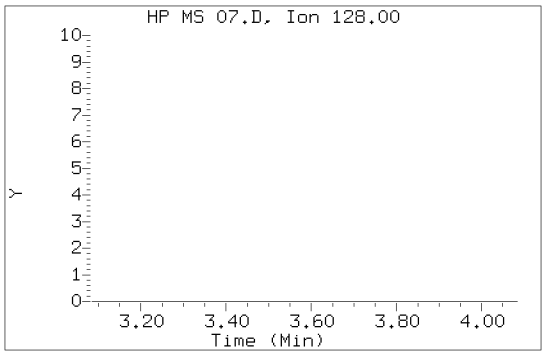
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



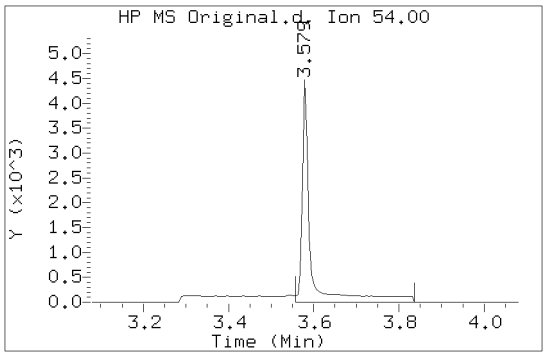
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



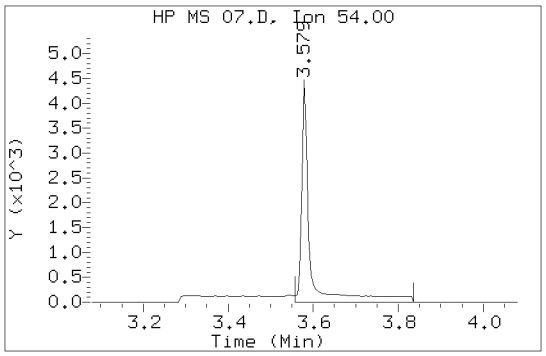
BEFORE

MASS
54
AREA
6137
HEIGHT
4470
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
54
AREA
6137
HEIGHT
4470
29-Jun-2023
14:26
ALSHS
Ser

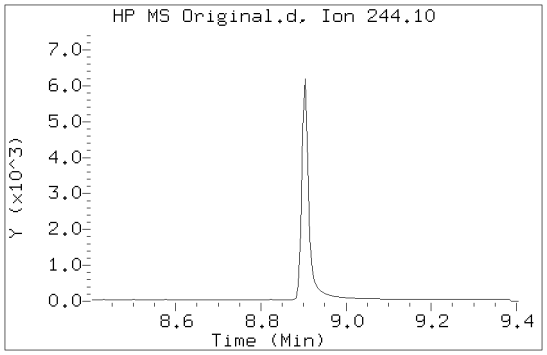


4-Terphenyl-d14 (1718-51-0)

Reason Code:

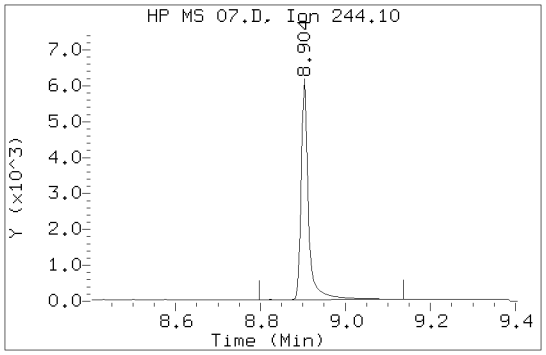
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



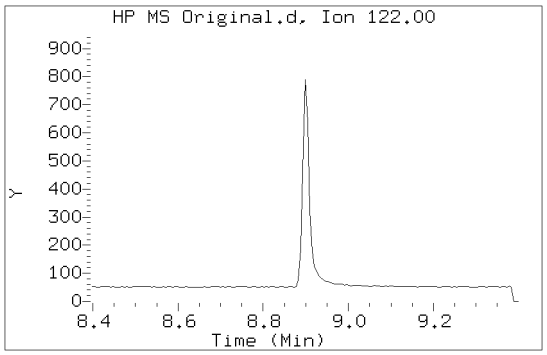
AFTER

MASS
244.1
AREA
7185
HEIGHT
6143
29-Jun-2023
14:26
ALSHS
Ser



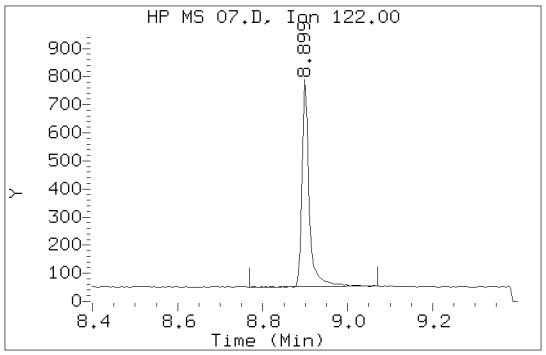
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
122
AREA
850
HEIGHT
736
29-Jun-2023
14:26
ALSHS
Ser



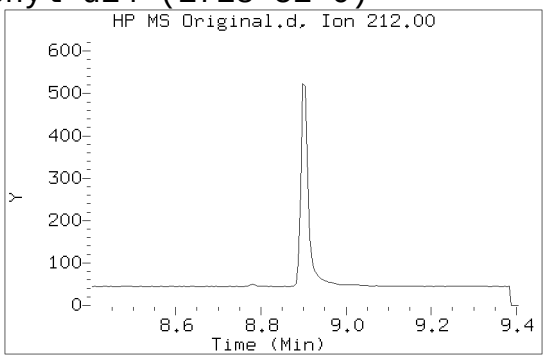
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

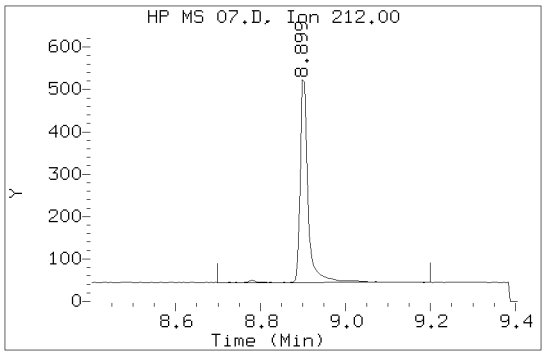
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
212
AREA
622
HEIGHT
478
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Lab Smp Id: 14DXICAL-0.15 Client Smp ID: 14DXICAL-0.15
Inj Date : 16-JUN-2023 12:38
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	3901	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13349	0.10000	
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	6134	0.15000	0.1520(AQM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7708	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	11636	0.15000	0.1474
* 126 Phenanthrene-d10	188	7.323	7.323	(1.000)	15157	0.10000	
* 182 Chrysene-d12	240	10.018	10.018	(1.000)	10131	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	10881	0.15000	0.1472(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	7987	0.10000	(M)
1 1,4-Dioxane	58	1.464	1.464	(0.468)	1980	0.15000	0.1507(QH)

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.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

01199932

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D

Date : 16-JUN-2023 12:38

Client ID: 14DXICAL-0.15

Instrument: SV6.i

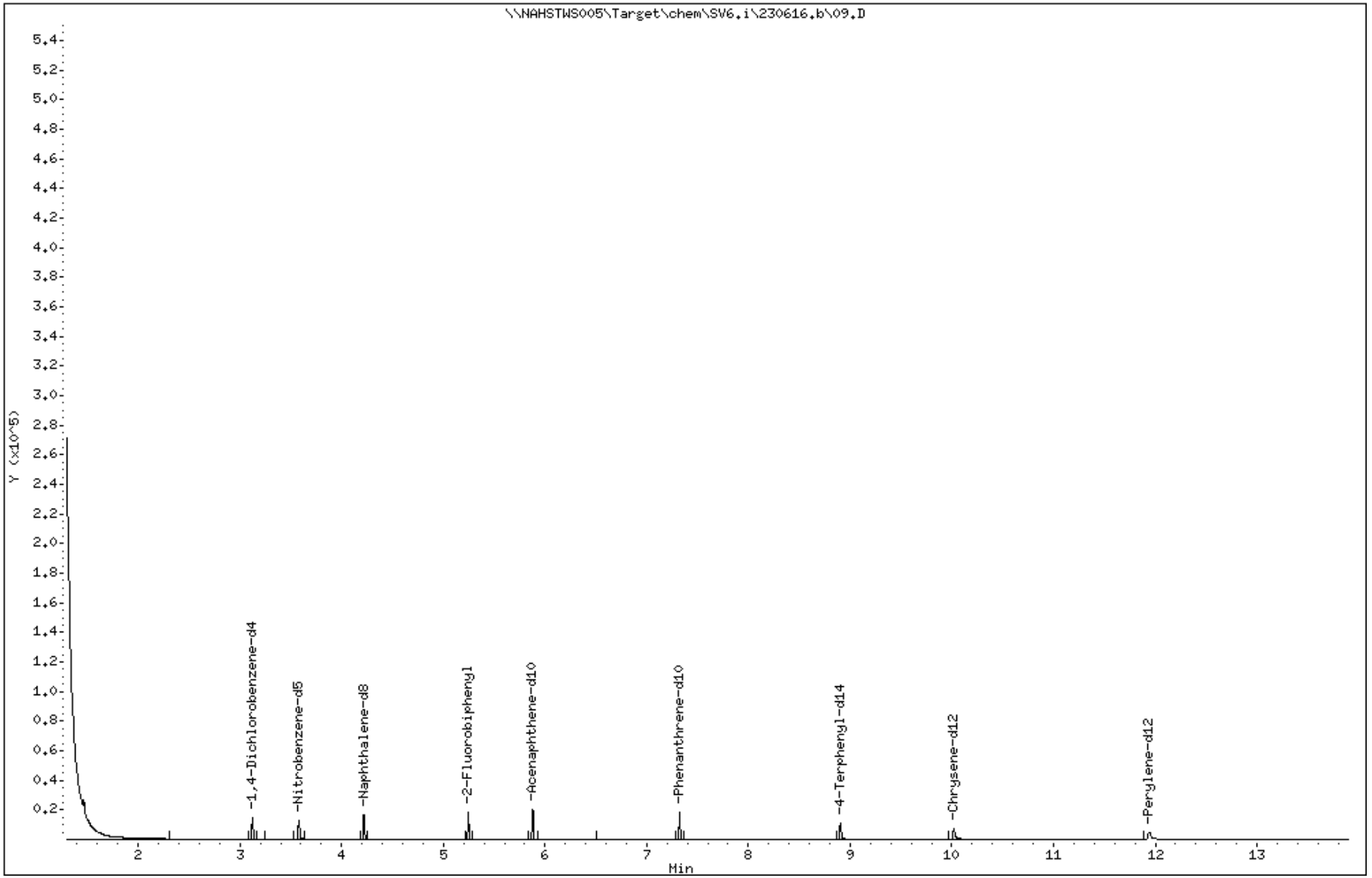
Sample Info: 14DXICAL-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



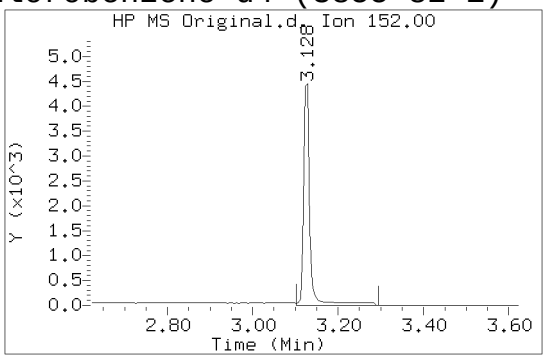
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

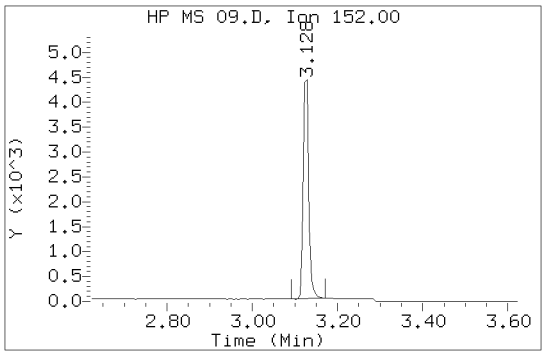
BEFORE

MASS
152
AREA
4505
HEIGHT
4453
16-Jun-2023
12:57
ALSHS
Server



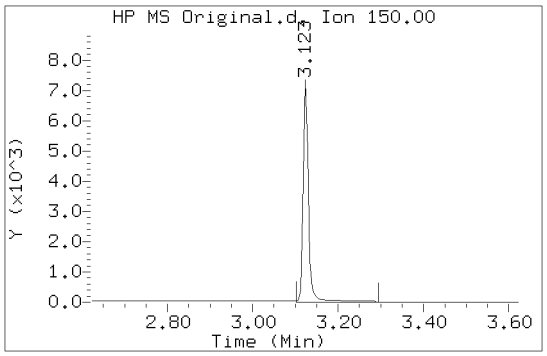
AFTER

MASS
152
AREA
3901
HEIGHT
4398
29-Jun-2023
14:27
ALSHS
Ser



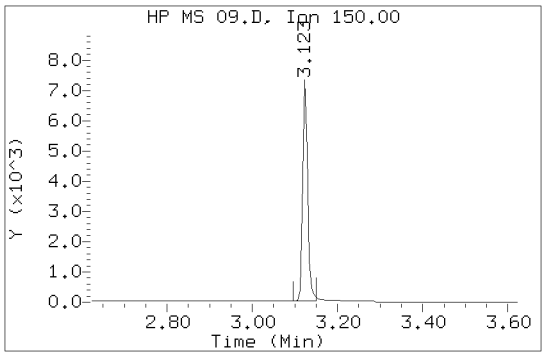
BEFORE

MASS
150
AREA
6326
HEIGHT
7351
16-Jun-2023
12:57
ALSHS
Server



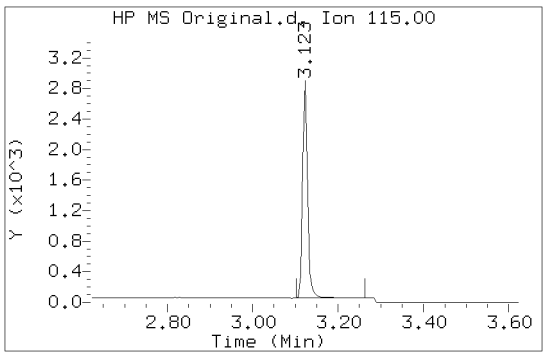
AFTER

MASS
150
AREA
5706
HEIGHT
7305
29-Jun-2023
14:27
ALSHS
Ser



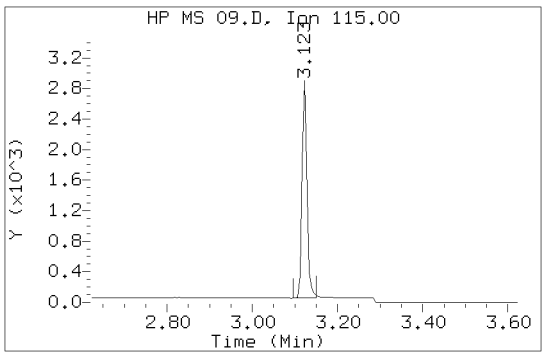
BEFORE

MASS
115
AREA
2255
HEIGHT
2847
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
115
AREA
2210
HEIGHT
2846
29-Jun-2023
14:27
ALSHS
Ser

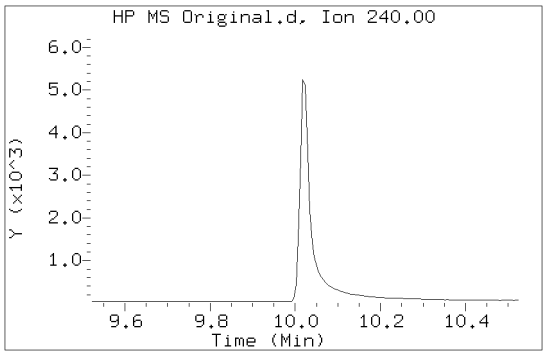


Chrysene-d12 (1719-03-5)

Reason Code:

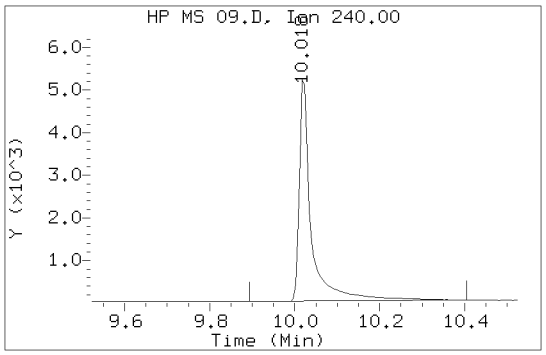
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
240
AREA
10131
HEIGHT
5190
29-Jun-2023
14:27
ALSHS
Ser



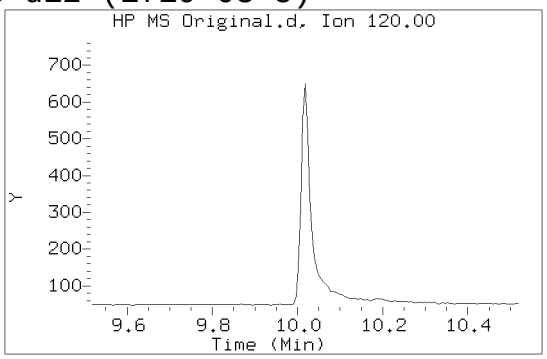
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

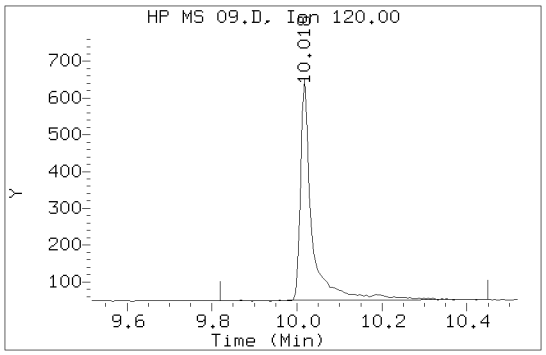
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



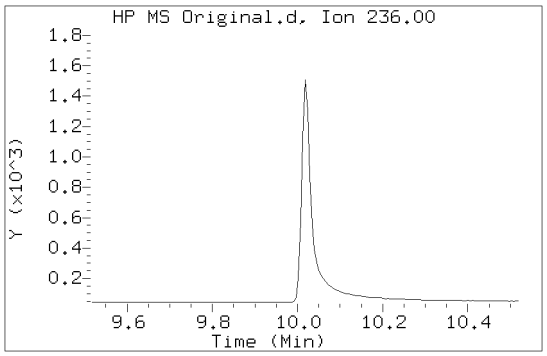
AFTER

MASS
120
AREA
1131
HEIGHT
600
29-Jun-2023
14:27
ALSHS
Ser



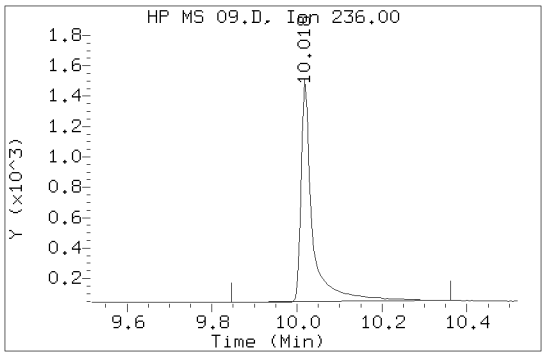
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
236
AREA
2695
HEIGHT
1458
29-Jun-2023
14:27
ALSHS
Ser

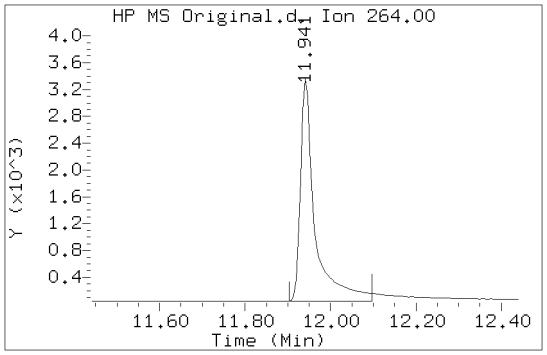


Perylene-d12 (1520-96-3)

Reason Code:

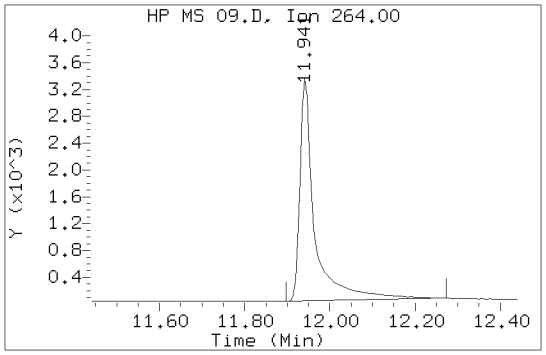
BEFORE

MASS
264
AREA
7735
HEIGHT
3310
16-Jun-2023
12:57
ALSHS
Server



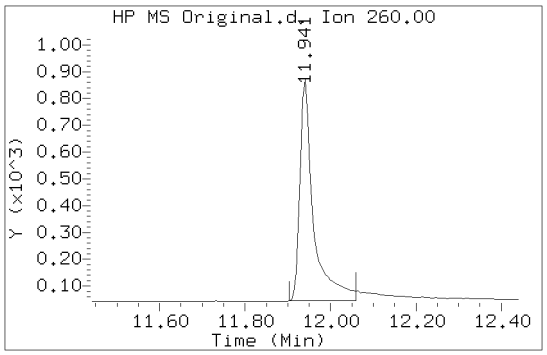
AFTER

MASS
264
AREA
7987
HEIGHT
3307
29-Jun-2023
14:27
ALSHS
Ser



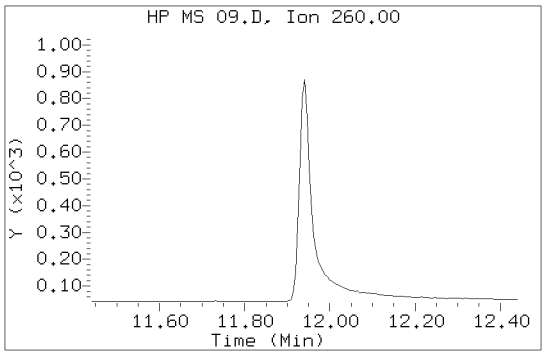
BEFORE

MASS
260
AREA
1816
HEIGHT
824
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
260
AREA
2012
HEIGHT
823
29-Jun-2023
14:27
ALSHS
Ser



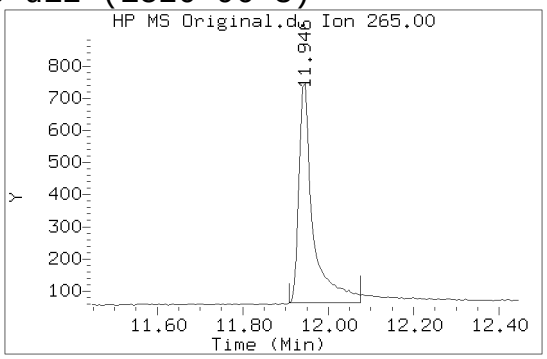
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

Perylene-d12 (1520-96-3)

Reason Code:

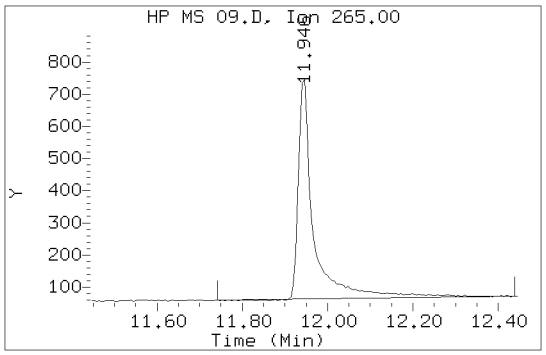
BEFORE

MASS
265
AREA
1571
HEIGHT
682
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
265
AREA
1706
HEIGHT
682
29-Jun-2023
14:27
ALSHS
Ser

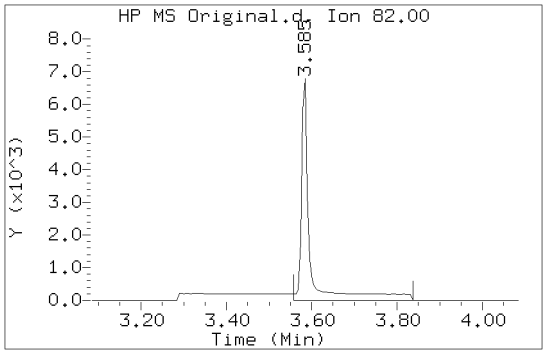


Nitrobenzene-d5 (4165-60-0)

Reason Code:

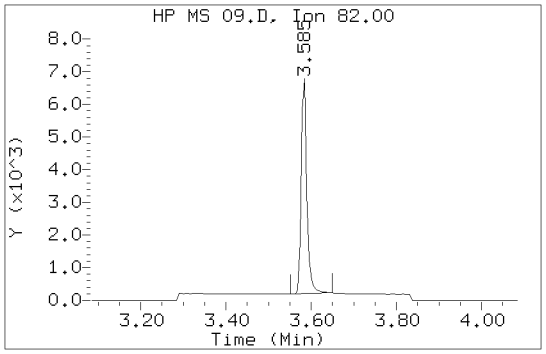
BEFORE

MASS
82
AREA
9487
HEIGHT
6787
16-Jun-2023
12:57
ALSHS
Server



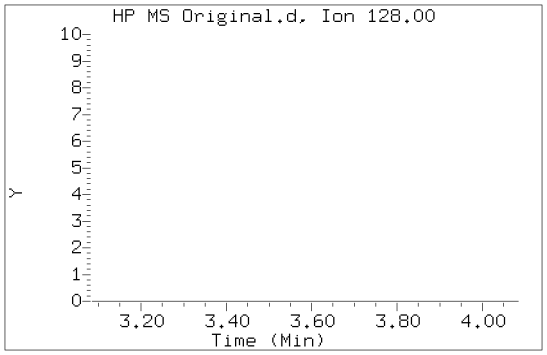
AFTER

MASS
82
AREA
6134
HEIGHT
6582
29-Jun-2023
14:27
ALSHS
Ser



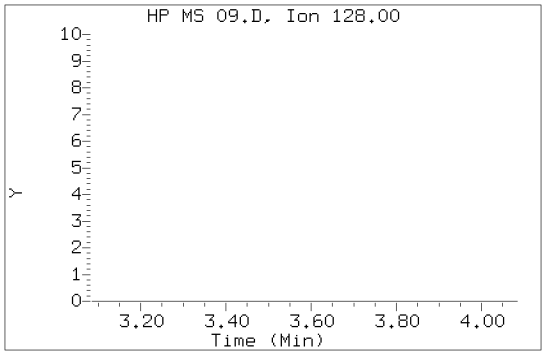
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



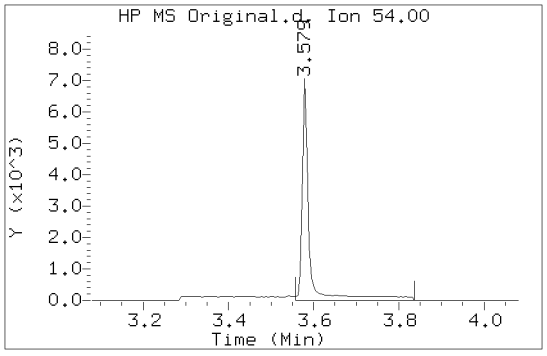
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



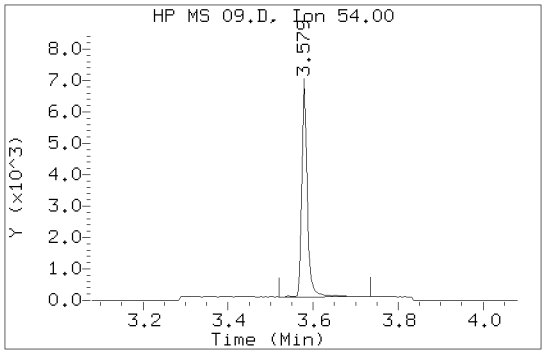
BEFORE

MASS
54
AREA
8200
HEIGHT
7059
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
54
AREA
6294
HEIGHT
6945
29-Jun-2023
14:27
ALSHS
Ser

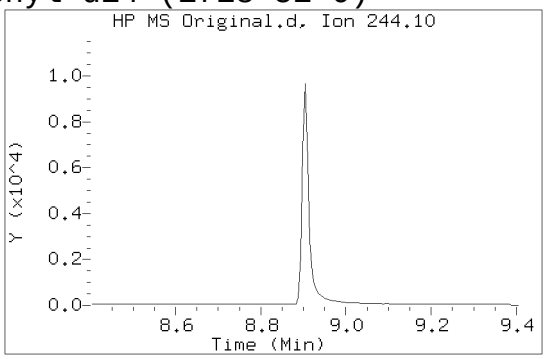


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

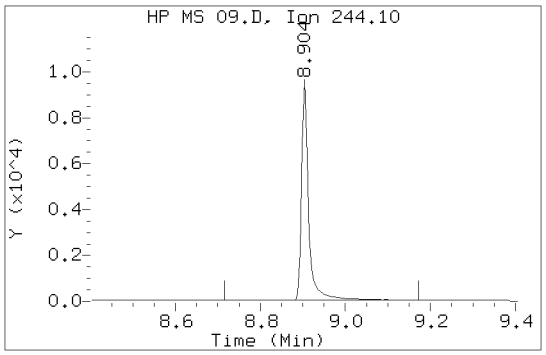
4-Terphenyl-d14 (1718-51-0)

Reason Code:

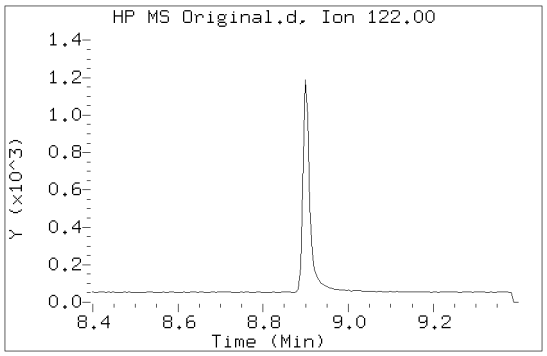
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



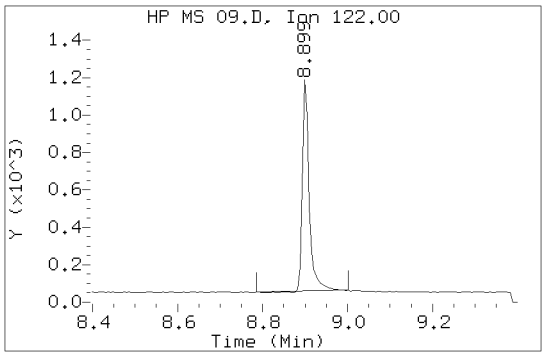
AFTER
MASS
244.1
AREA
10881
HEIGHT
9614
29-Jun-2023
14:27
ALSHS
Ser



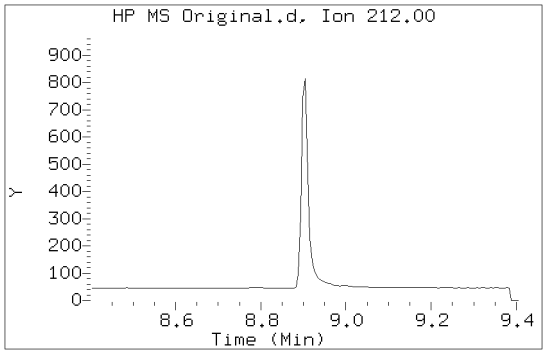
BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



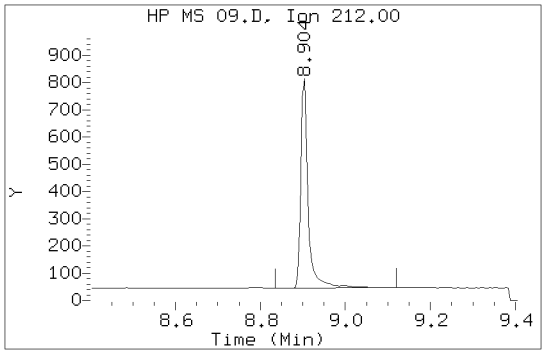
AFTER
MASS
122
AREA
1222
HEIGHT
1128
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER
MASS
212
AREA
918
HEIGHT
769
29-Jun-2023
14:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D Page 1
Report Date: 29-Jun-2023 15:48

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Lab Smp Id: 14DXICAL-0.1 Client Smp ID: 14DXICAL-0.1
Inj Date : 16-JUN-2023 14:15
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.1
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 15:48 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	4026	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13383	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	4123	0.10000	0.1019(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7945	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.248	5.248	(0.892)	7708	0.10000	0.09473(M)
* 126 Phenanthrene-d10	188	7.328	7.328	(1.000)	15519	0.10000	(M)
* 182 Chrysene-d12	240	10.028	10.028	(1.000)	9988	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.909	(0.888)	7529	0.10000	0.1033(M)
* 198 Perylene-d12	264	11.946	11.946	(1.000)	8963	0.10000	(M)
1 1,4-Dioxane	58	1.471	1.471	(0.470)	1445	0.10000	0.1066(Q)

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.

01199938

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D

Date : 16-JUN-2023 14:15

Client ID: 14DXICAL-0.1

Instrument: SV6.i

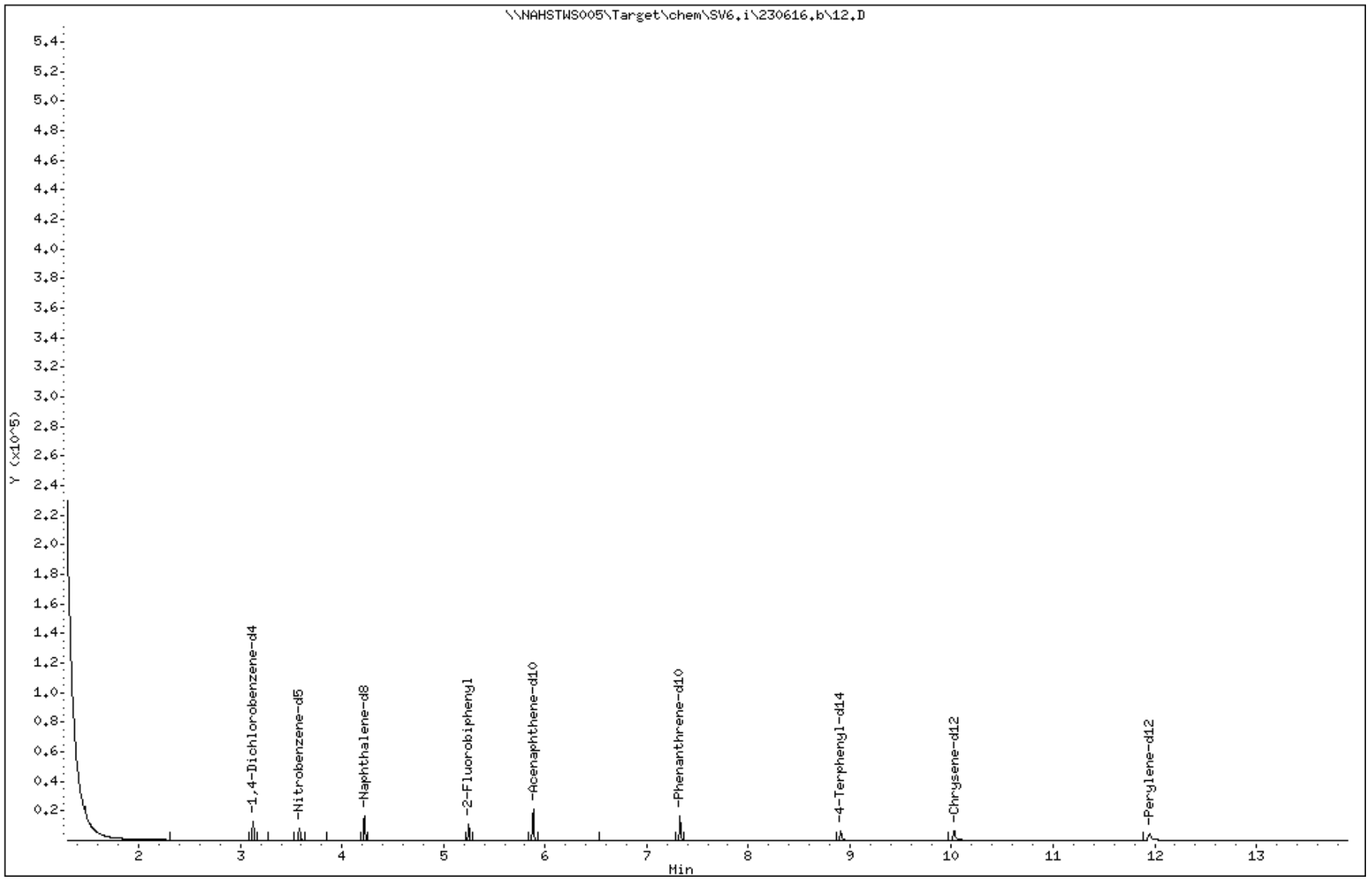
Sample Info: 14DXICAL-0.1

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

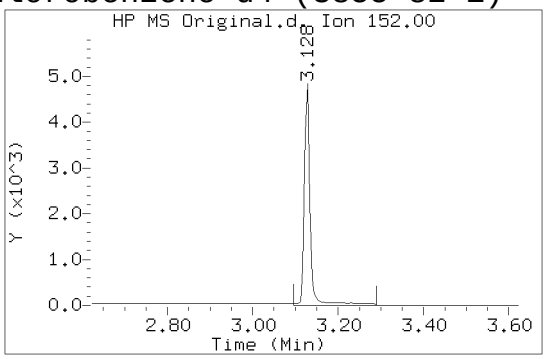


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

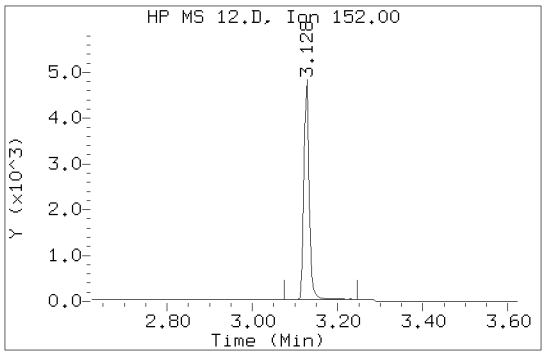
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

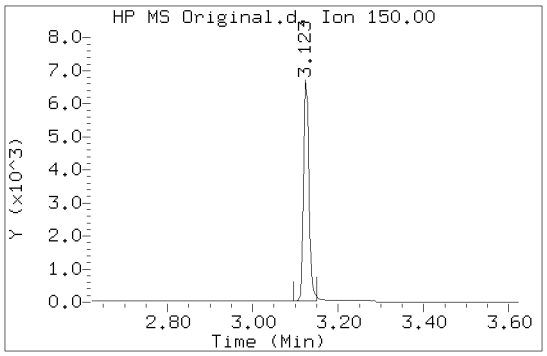
BEFORE
MASS
152
AREA
4570
HEIGHT
4842
16-Jun-2023
14:59
jiayi
lu



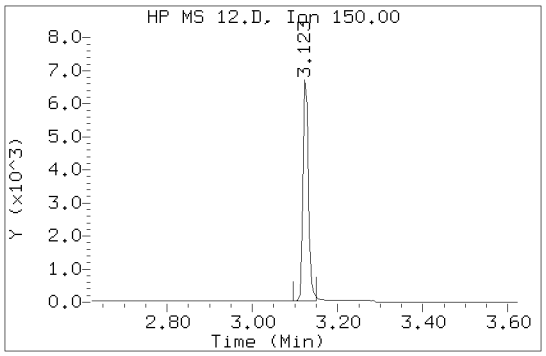
AFTER
MASS
152
AREA
4026
HEIGHT
4796
29-Jun-2023
15:48



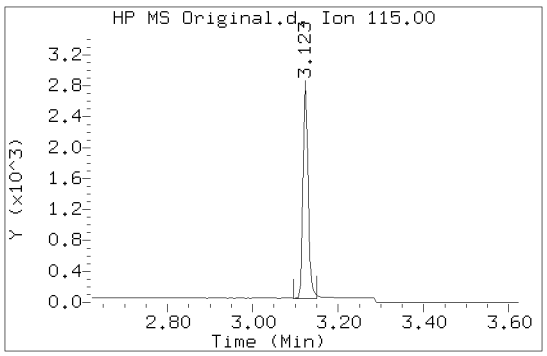
BEFORE
MASS
150
AREA
5752
HEIGHT
6676
16-Jun-2023
14:59
jiayi
lu



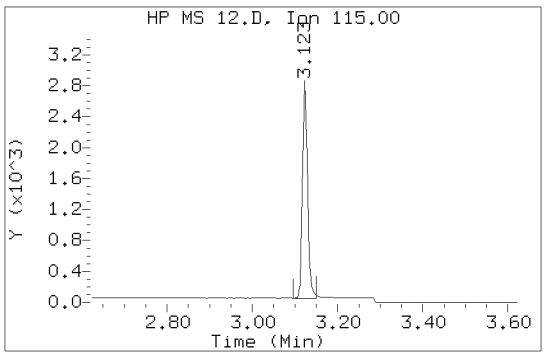
AFTER
MASS
150
AREA
5752
HEIGHT
6676
29-Jun-2023
15:48



BEFORE
MASS
115
AREA
2249
HEIGHT
2814
16-Jun-2023
14:59
jiayi
lu



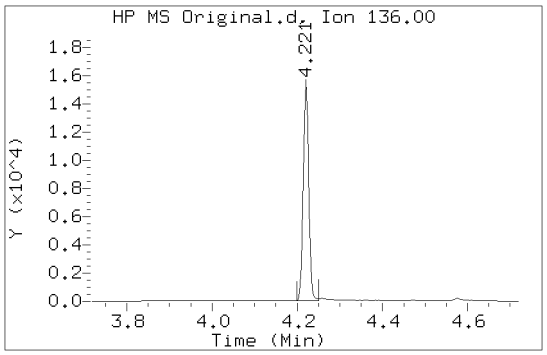
AFTER
MASS
115
AREA
2249
HEIGHT
2814
29-Jun-2023
15:48



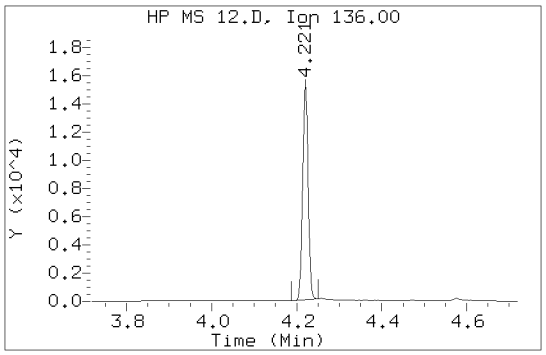
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
13619
HEIGHT
15676
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
136
AREA
13383
HEIGHT
15614
29-Jun-2023
15:48

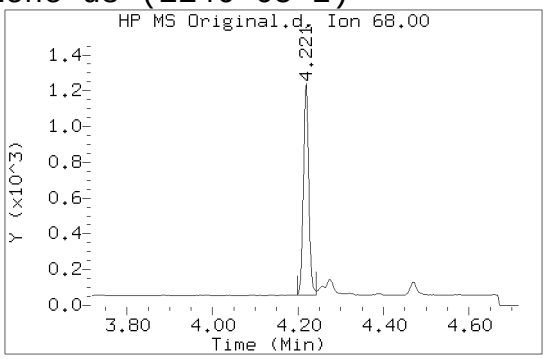


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Naphthalene-d8 (1146-65-2)

BEFORE

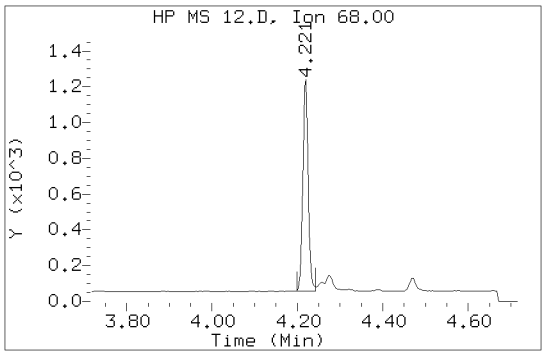
MASS
68
AREA
1062
HEIGHT
1182
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
68
AREA
1062
HEIGHT
1182
29-Jun-2023
15:48

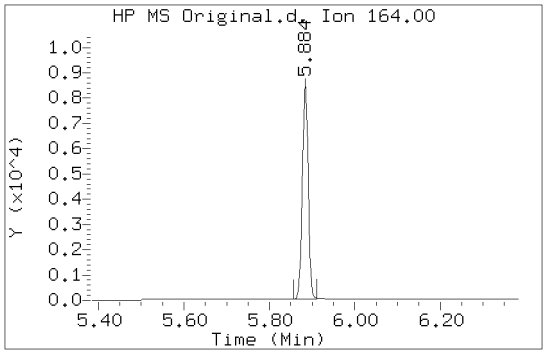
Reason Code:



Acenaphthene-d10 (15067-26-2)

BEFORE

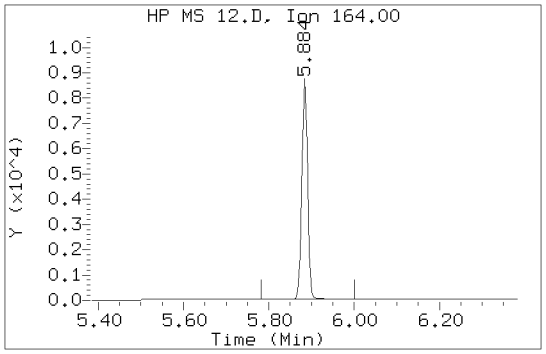
MASS
164
AREA
7893
HEIGHT
8717
16-Jun-2023
14:59
jiayi
lu



AFTER

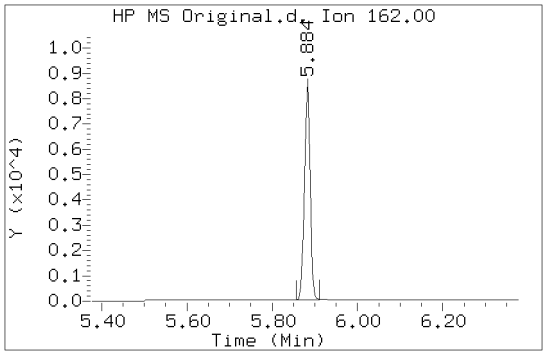
MASS
164
AREA
7945
HEIGHT
8719
29-Jun-2023
15:48

Reason Code:



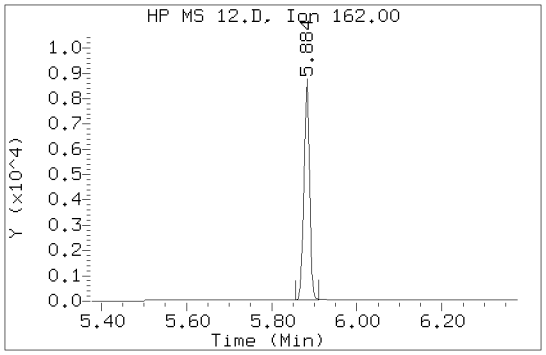
BEFORE

MASS
162
AREA
7978
HEIGHT
8729
16-Jun-2023
14:59
jiayi
lu



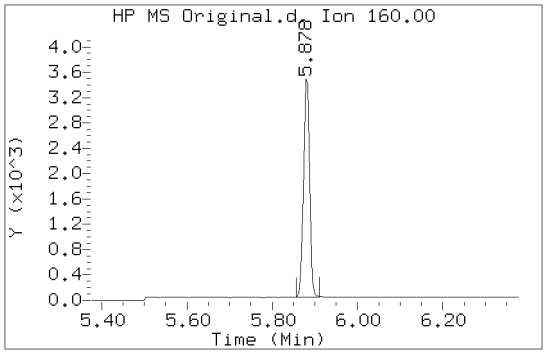
AFTER

MASS
162
AREA
7978
HEIGHT
8729
29-Jun-2023
15:48



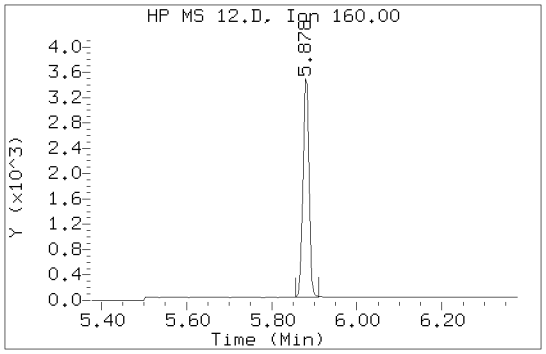
BEFORE

MASS
160
AREA
3420
HEIGHT
3449
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
160
AREA
3420
HEIGHT
3449
29-Jun-2023
15:48

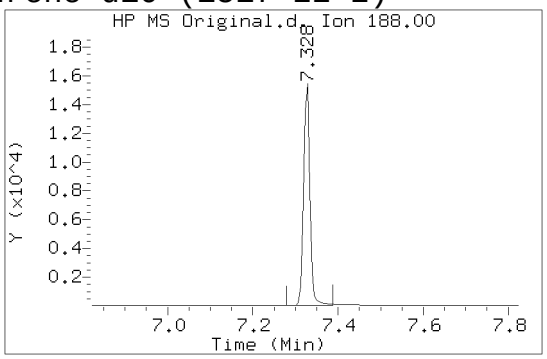


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Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

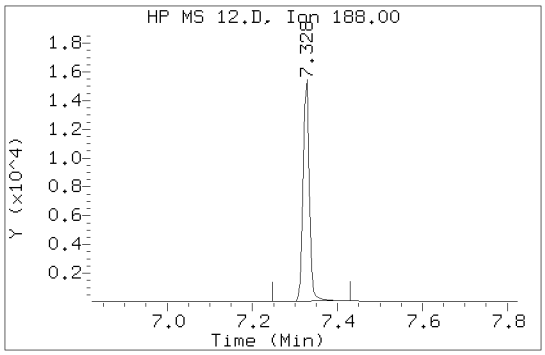
Phenanthrene-d10 (1517-22-2)

Reason Code:

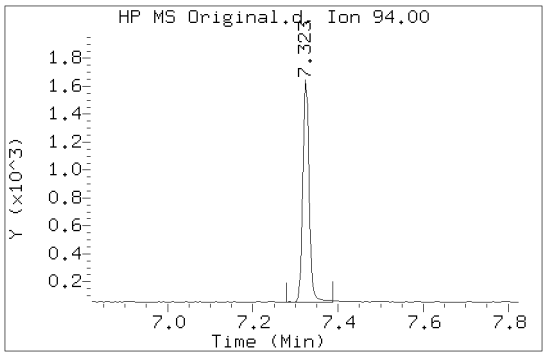
BEFORE
MASS
188
AREA
15580
HEIGHT
15412
16-Jun-2023
14:59
jiayi
lu



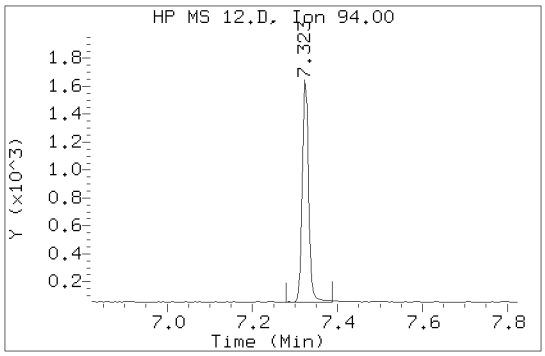
AFTER
MASS
188
AREA
15519
HEIGHT
15398
29-Jun-2023
15:48



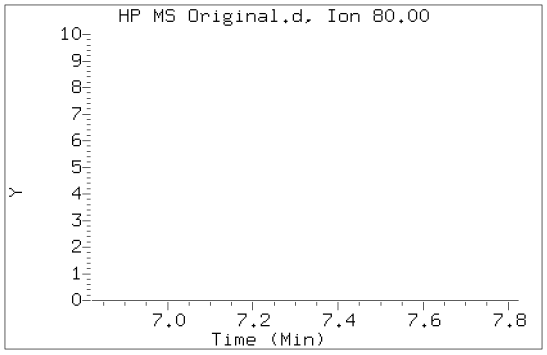
BEFORE
MASS
94
AREA
1615
HEIGHT
1589
16-Jun-2023
14:59
jiayi
lu



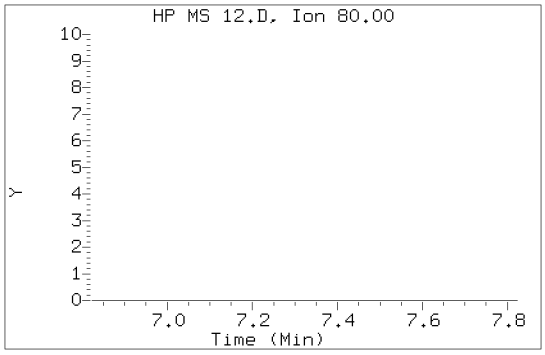
AFTER
MASS
94
AREA
1615
HEIGHT
1589
29-Jun-2023
15:48



BEFORE
MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



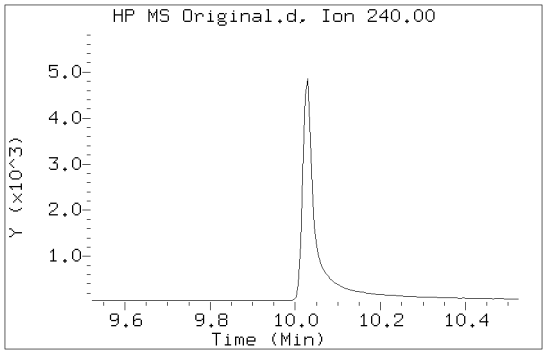
AFTER
MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
15:48



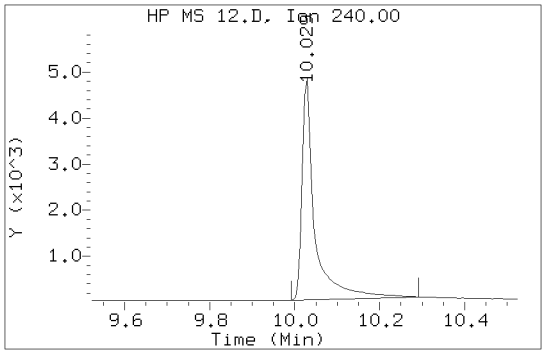
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
240
AREA
9988
HEIGHT
4801
29-Jun-2023
15:48

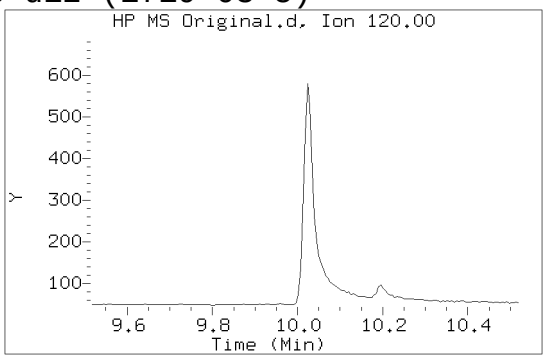


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

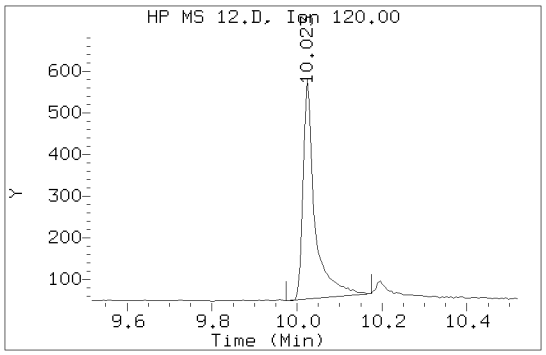
Chrysene-d12 (1719-03-5)

Reason Code:

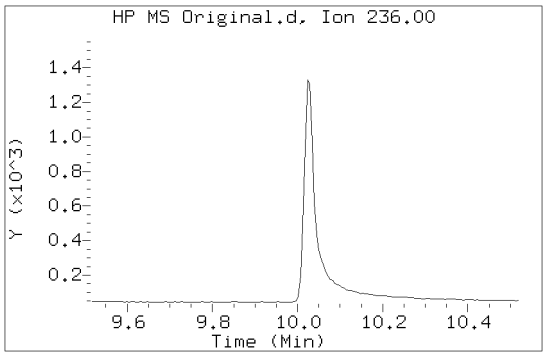
BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



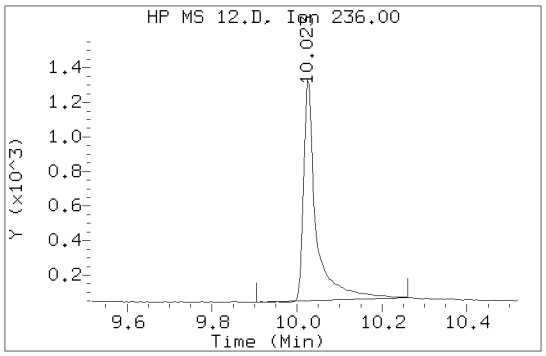
AFTER
MASS
120
AREA
998
HEIGHT
525
29-Jun-2023
15:48



BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



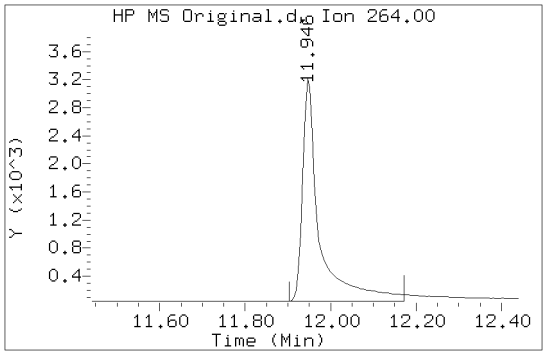
AFTER
MASS
236
AREA
2622
HEIGHT
1277
29-Jun-2023
15:48



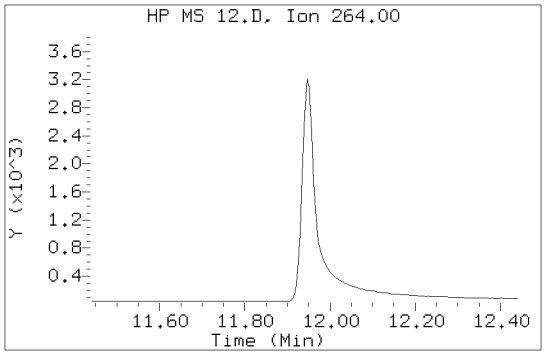
Perylene-d12 (1520-96-3)

Reason Code:

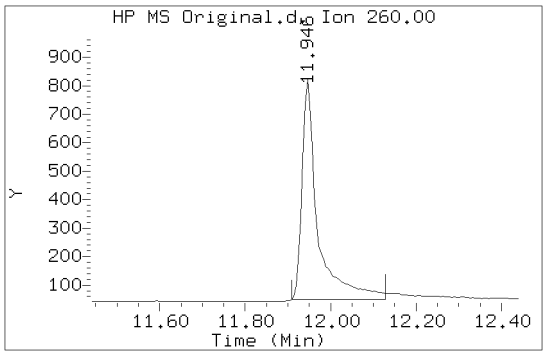
BEFORE
MASS
264
AREA
8613
HEIGHT
3164
16-Jun-2023
14:59
jiayi
lu



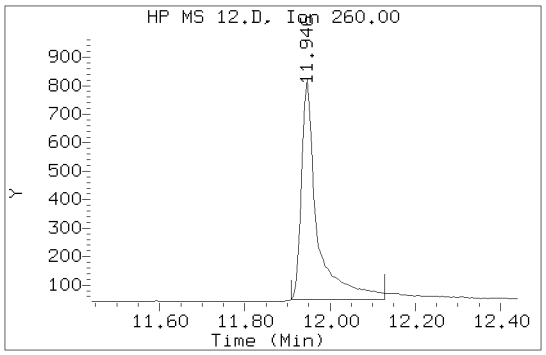
AFTER
MASS
264
AREA
8963
HEIGHT
3161
29-Jun-2023
15:48



BEFORE
MASS
260
AREA
1977
HEIGHT
772
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
260
AREA
1977
HEIGHT
772
29-Jun-2023
15:48



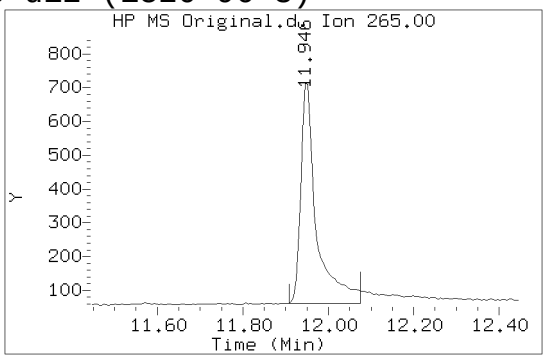
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Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Perylene-d12 (1520-96-3)

Reason Code:

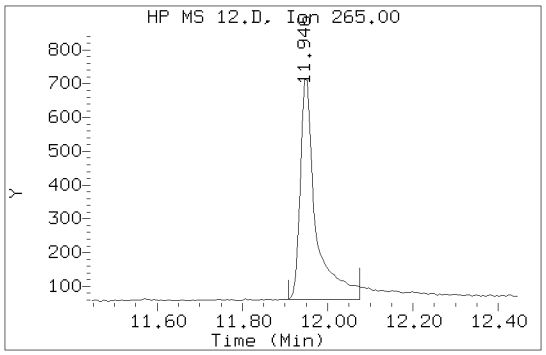
BEFORE

MASS
265
AREA
1666
HEIGHT
651
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
265
AREA
1666
HEIGHT
651
29-Jun-2023
15:48

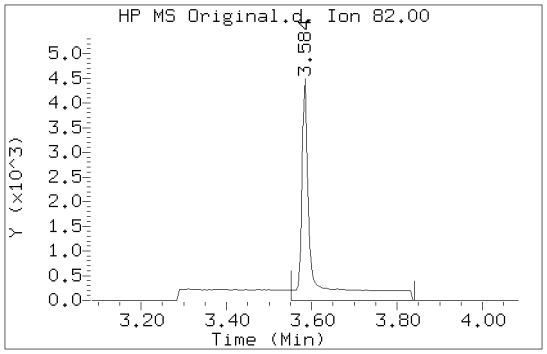


Nitrobenzene-d5 (4165-60-0)

Reason Code:

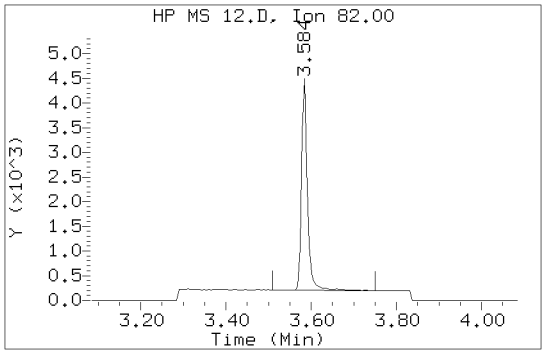
BEFORE

MASS
82
AREA
7524
HEIGHT
4492
16-Jun-2023
14:59
jiayi
lu



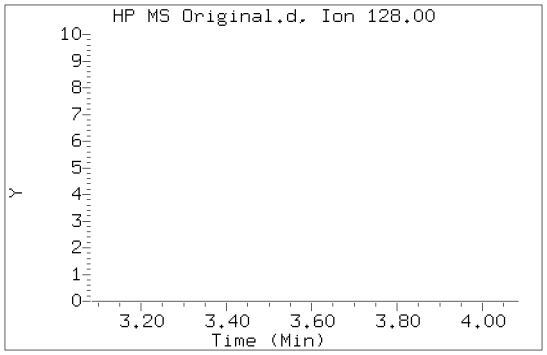
AFTER

MASS
82
AREA
4123
HEIGHT
4285
29-Jun-2023
15:48



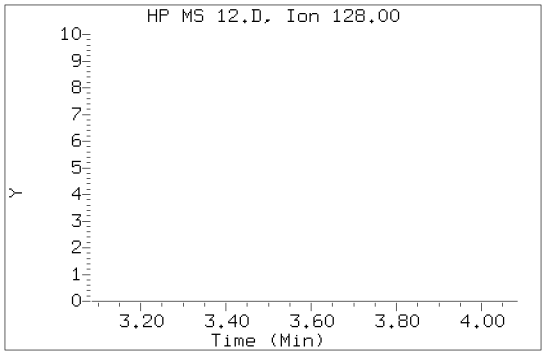
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



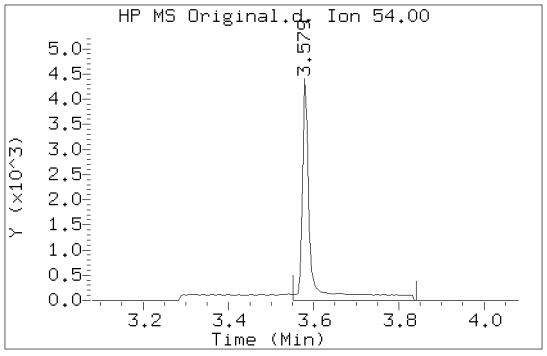
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
15:48



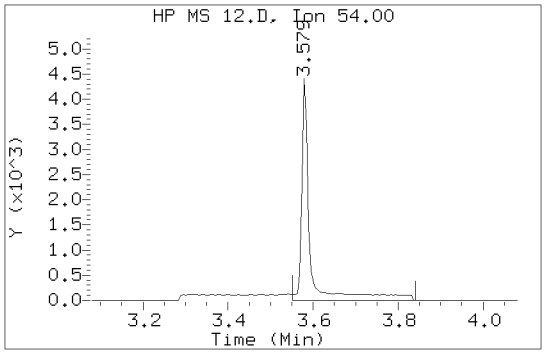
BEFORE

MASS
54
AREA
6015
HEIGHT
4407
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
54
AREA
6015
HEIGHT
4407
29-Jun-2023
15:48

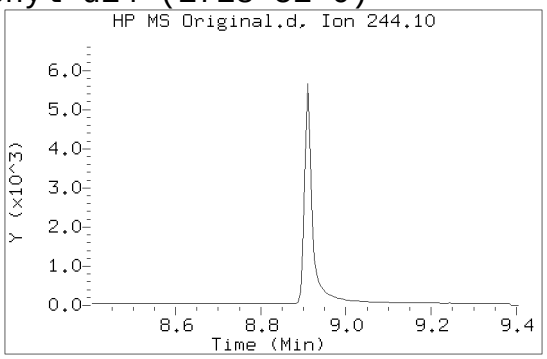


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

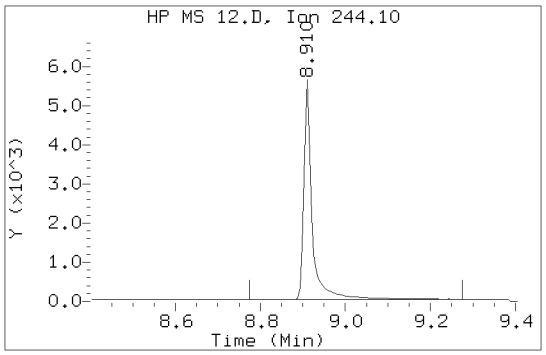
4-Terphenyl-d14 (1718-51-0)

Reason Code:

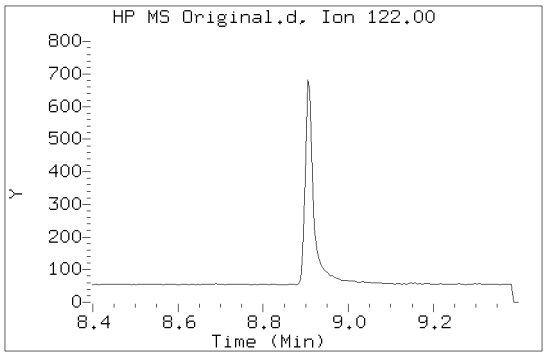
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



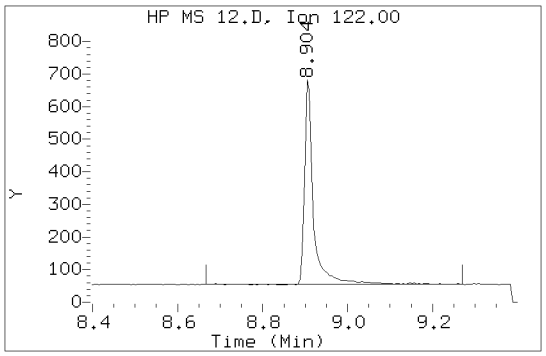
AFTER
MASS
244.1
AREA
7529
HEIGHT
5616
29-Jun-2023
15:48



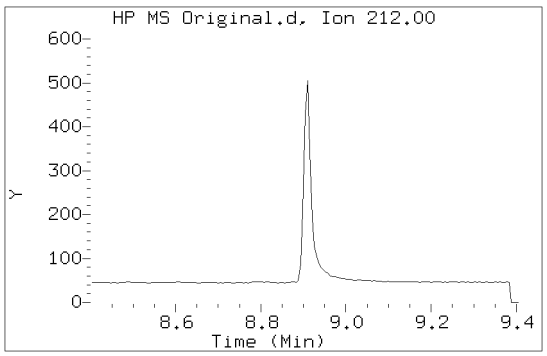
BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



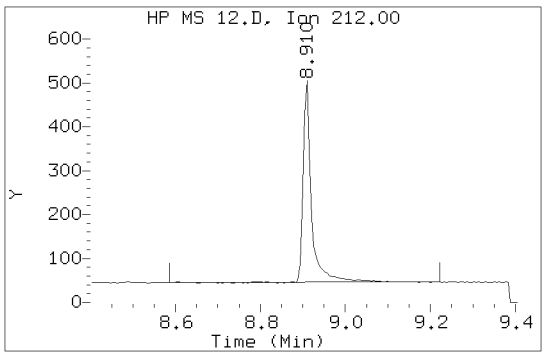
AFTER
MASS
122
AREA
918
HEIGHT
627
29-Jun-2023
15:48



BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



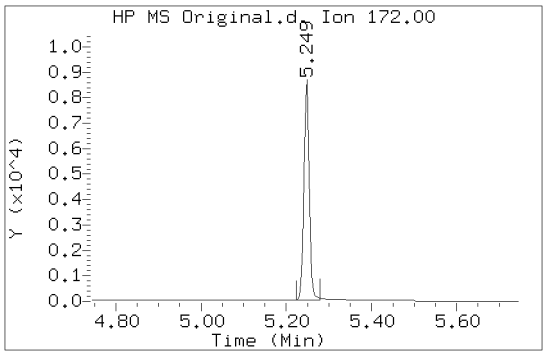
AFTER
MASS
212
AREA
625
HEIGHT
459
29-Jun-2023
15:48



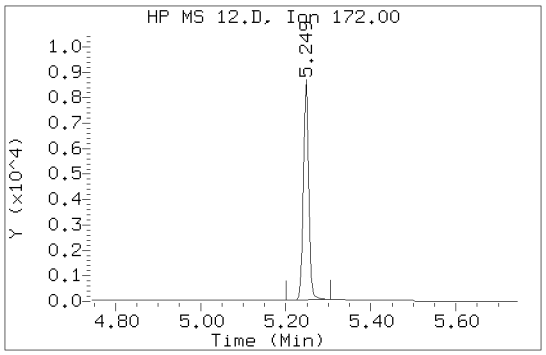
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
7733
HEIGHT
8663
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
172
AREA
7708
HEIGHT
8650
29-Jun-2023
15:48



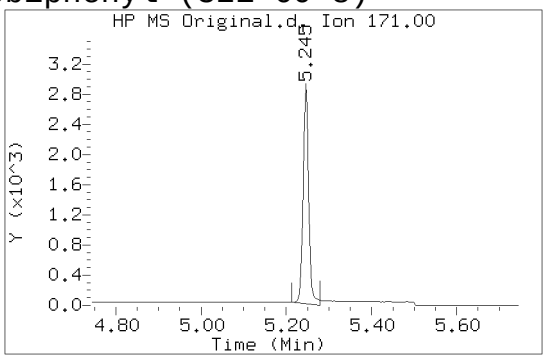
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

2-Fluorobiphenyl (321-60-8)

Reason Code:

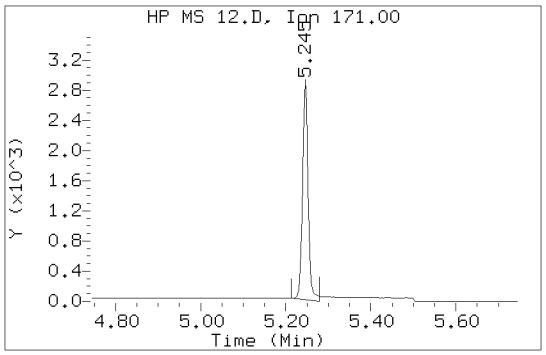
BEFORE

MASS
171
AREA
2685
HEIGHT
2917
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
171
AREA
2685
HEIGHT
2917
29-Jun-2023
15:48



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Lab Smp Id: 14DXICAL-0.5 Client Smp ID: 14DXICAL-0.5
Inj Date : 16-JUN-2023 14:51
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.5
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:38 Cal File: 09.D
Als bottle: 14 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.122	3.122	(1.000)	4165	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13989	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.579	3.579	(0.848)	19311	0.50000	0.4566(AM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	8414	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	39708	0.50000	0.4608(AM)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	16472	0.10000	(M)
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	10483	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	39805	0.50000	0.5203(AM)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	8460	0.10000	(M)
1 1,4-Dioxane	58	1.452	1.452	(0.465)	6496	0.50000	0.4630(QM)

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.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.

01199948

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D

Date : 16-JUN-2023 14:51

Client ID: 14DXICAL-0.5

Instrument: SV6.i

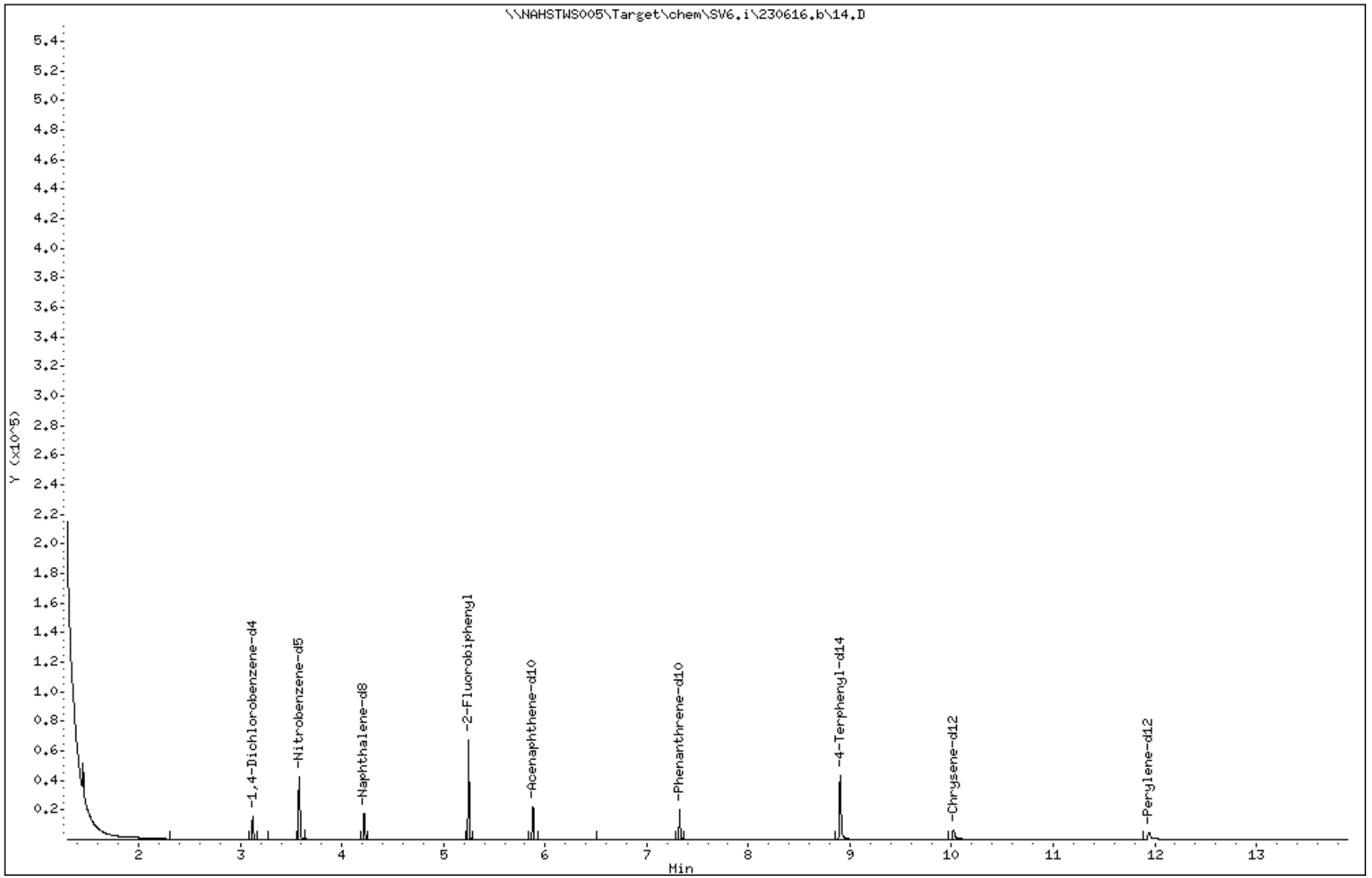
Sample Info: 14DXICAL-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



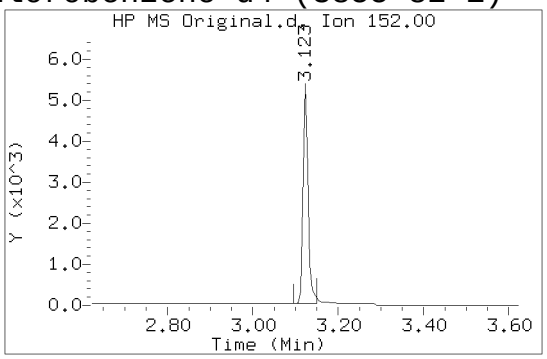
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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

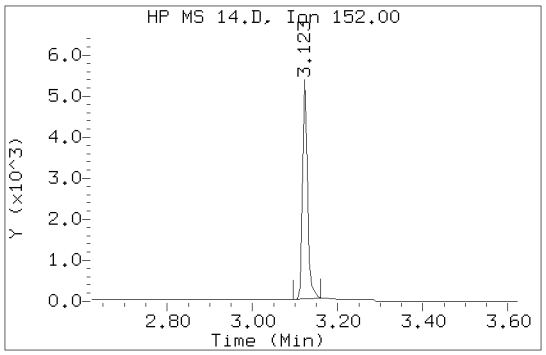
BEFORE

MASS
152
AREA
4211
HEIGHT
5358
16-Jun-2023
15:06
ALSHS
Server



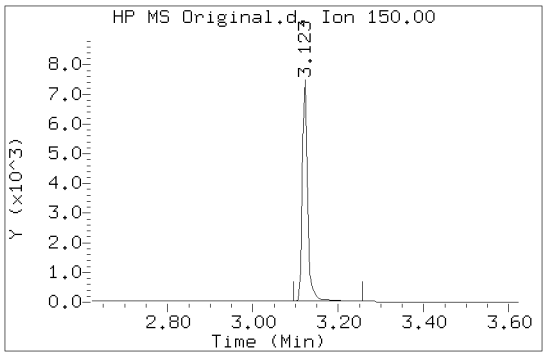
AFTER

MASS
152
AREA
4165
HEIGHT
5341
29-Jun-2023
14:27
ALSHS
Ser



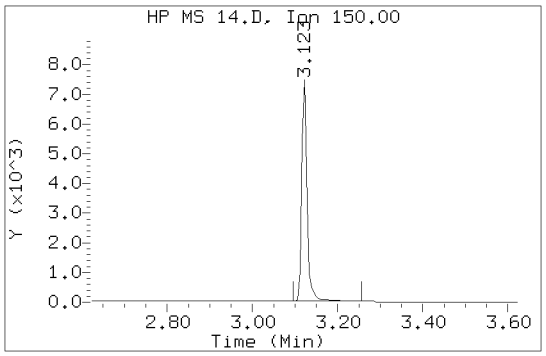
BEFORE

MASS
150
AREA
6228
HEIGHT
7441
16-Jun-2023
15:06
ALSHS
Server



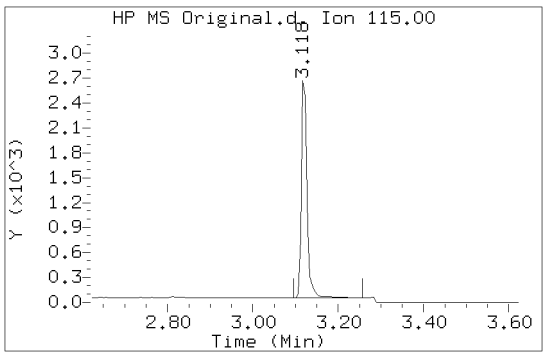
AFTER

MASS
150
AREA
6228
HEIGHT
7441
29-Jun-2023
14:27
ALSHS
Ser



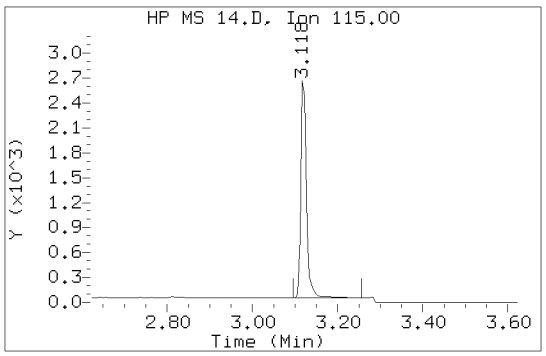
BEFORE

MASS
115
AREA
2367
HEIGHT
2615
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
115
AREA
2367
HEIGHT
2615
29-Jun-2023
14:27
ALSHS
Ser

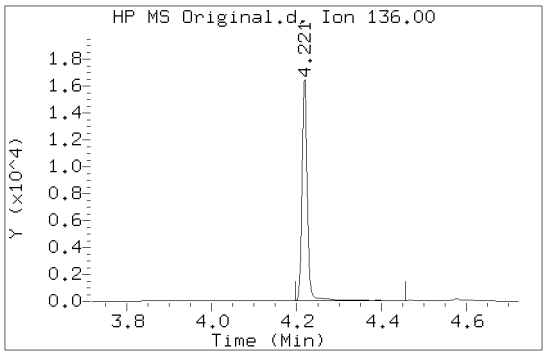


Naphthalene-d8 (1146-65-2)

Reason Code:

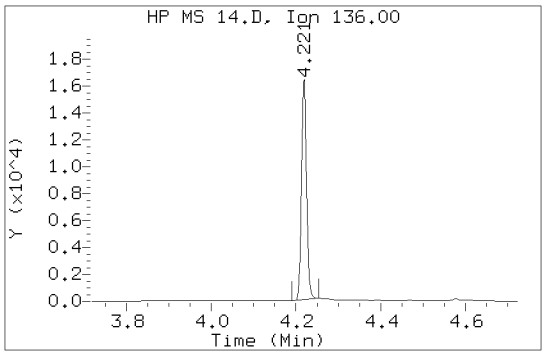
BEFORE

MASS
136
AREA
14856
HEIGHT
16448
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
136
AREA
13989
HEIGHT
16349
29-Jun-2023
14:27
ALSHS
Ser



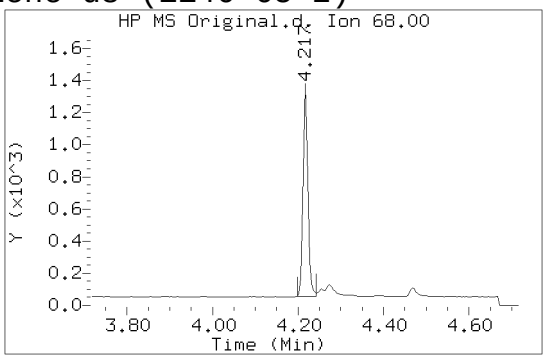
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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Naphthalene-d8 (1146-65-2)

Reason Code:

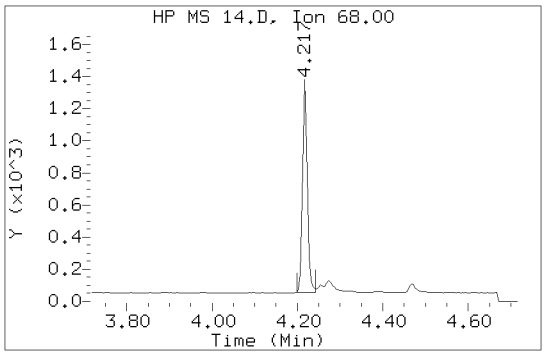
BEFORE

MASS
68
AREA
1074
HEIGHT
1326
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
68
AREA
1074
HEIGHT
1326
29-Jun-2023
14:27
ALSHS
Ser

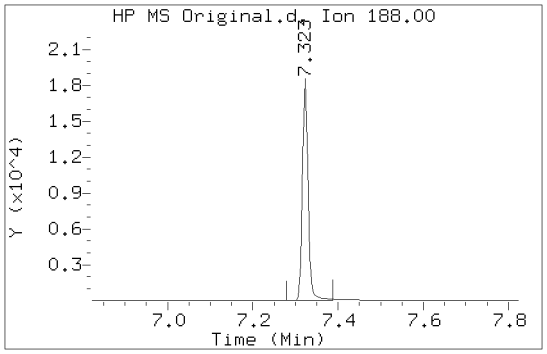


Phenanthrene-d10 (1517-22-2)

Reason Code:

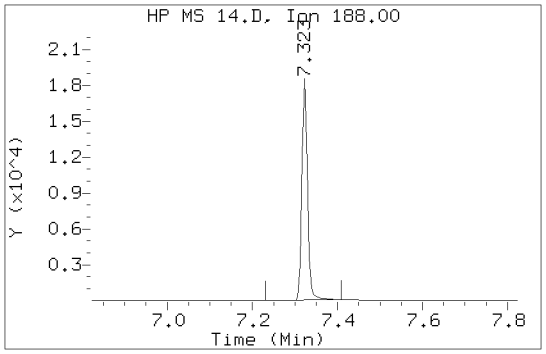
BEFORE

MASS
188
AREA
16664
HEIGHT
18523
16-Jun-2023
15:06
ALSHS
Server



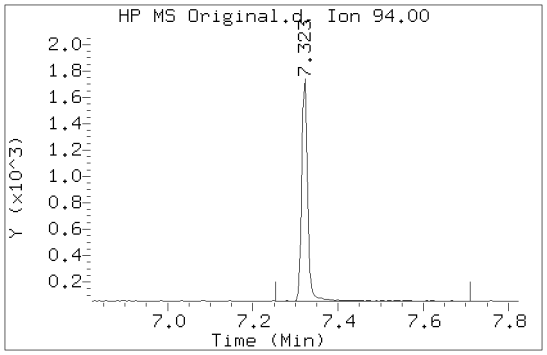
AFTER

MASS
188
AREA
16472
HEIGHT
18498
29-Jun-2023
14:27
ALSHS
Ser



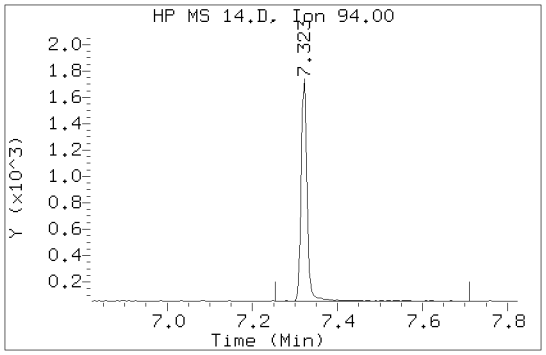
BEFORE

MASS
94
AREA
1634
HEIGHT
1685
16-Jun-2023
15:06
ALSHS
Server



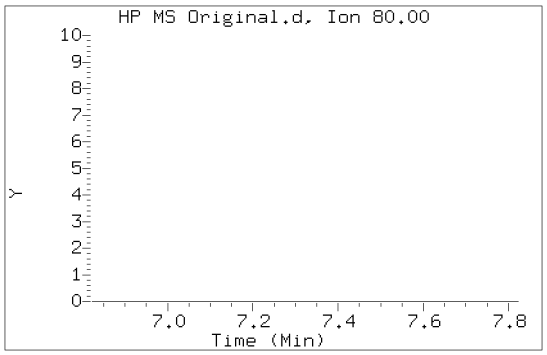
AFTER

MASS
94
AREA
1634
HEIGHT
1685
29-Jun-2023
14:27
ALSHS
Ser



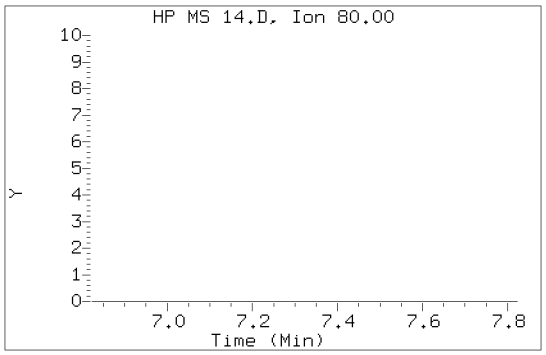
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



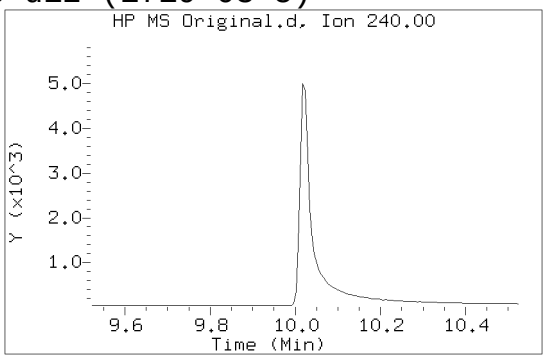
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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Chrysene-d12 (1719-03-5)

Reason Code:

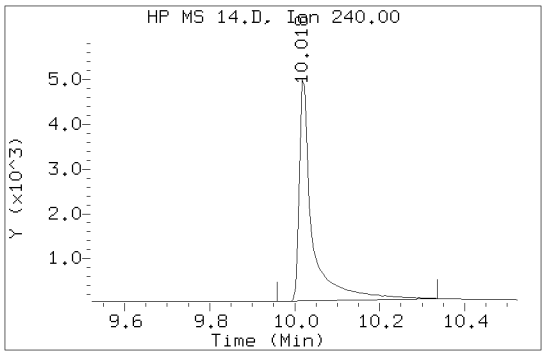
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



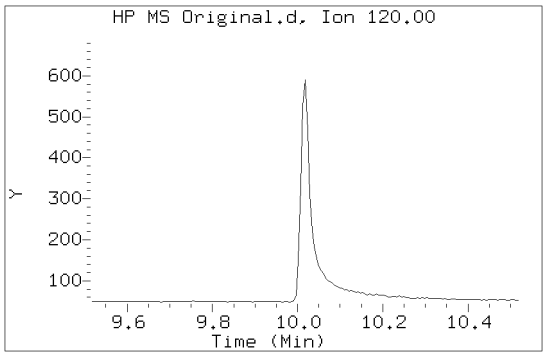
AFTER

MASS
240
AREA
10483
HEIGHT
4943
29-Jun-2023
14:27
ALSHS
Ser



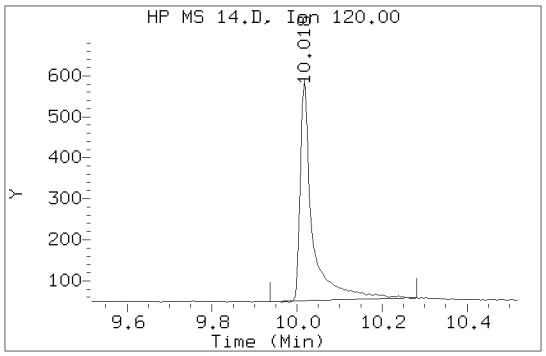
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



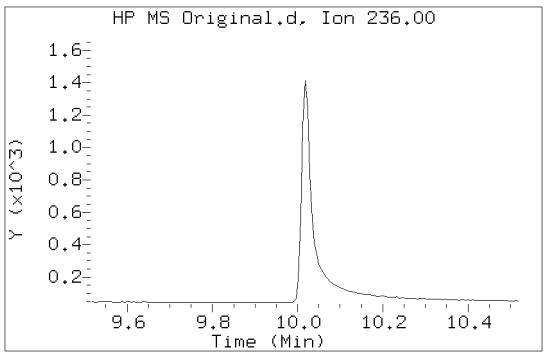
AFTER

MASS
120
AREA
1068
HEIGHT
538
29-Jun-2023
14:27
ALSHS
Ser



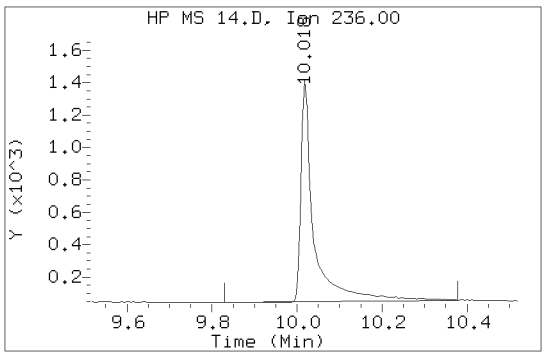
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
236
AREA
2872
HEIGHT
1362
29-Jun-2023
14:27
ALSHS
Ser

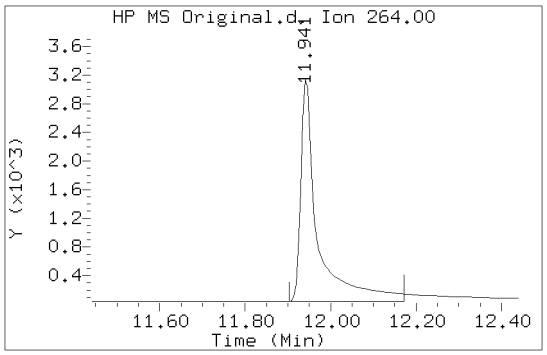


Perylene-d12 (1520-96-3)

Reason Code:

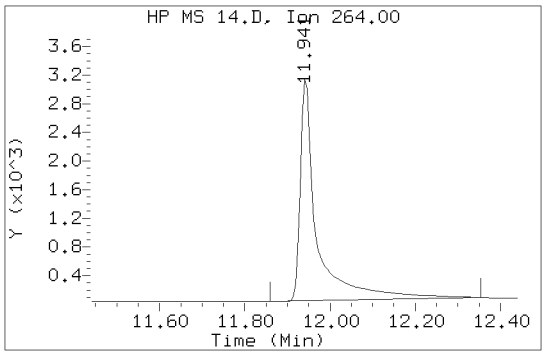
BEFORE

MASS
264
AREA
8406
HEIGHT
3088
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
264
AREA
8460
HEIGHT
3081
29-Jun-2023
14:27
ALSHS
Ser



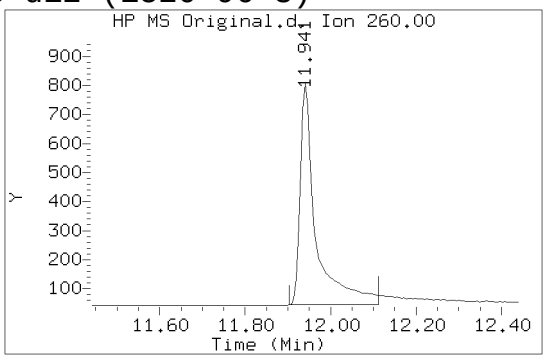
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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Perylene-d12 (1520-96-3)

Reason Code:

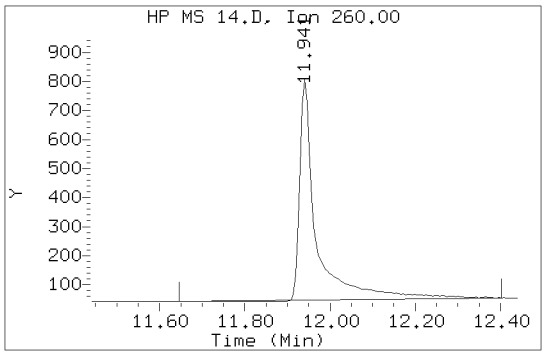
BEFORE

MASS
260
AREA
1950
HEIGHT
761
16-Jun-2023
15:06
ALSHS
Server



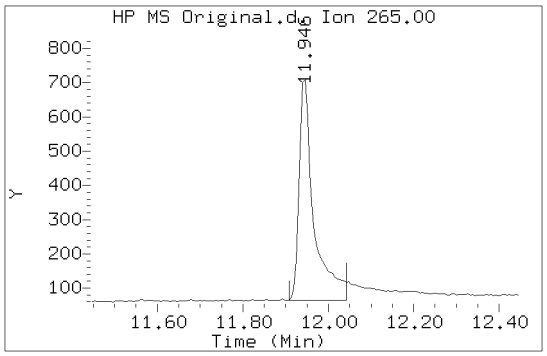
AFTER

MASS
260
AREA
2034
HEIGHT
757
29-Jun-2023
14:27
ALSHS
Ser



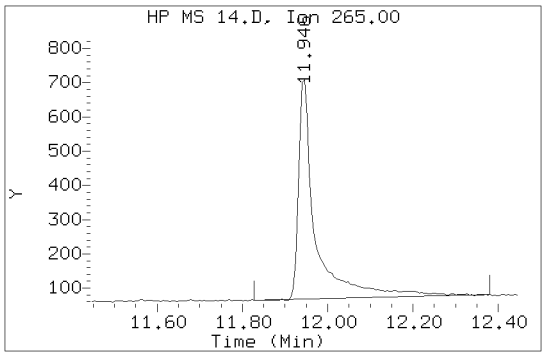
BEFORE

MASS
265
AREA
1539
HEIGHT
643
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
265
AREA
1765
HEIGHT
639
29-Jun-2023
14:27
ALSHS
Ser

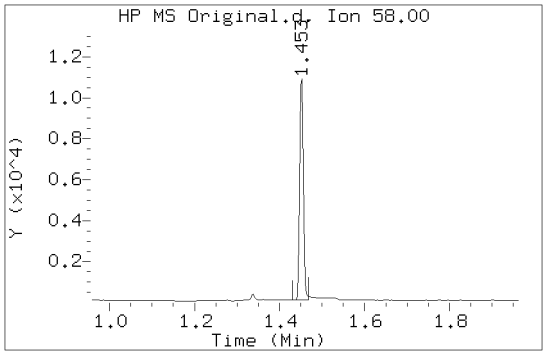


1,4-Dioxane ()

Reason Code:

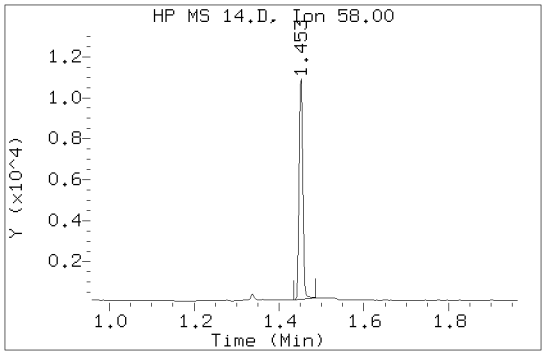
BEFORE

MASS
58
AREA
6535
HEIGHT
10789
16-Jun-2023
15:06
ALSHS
Server



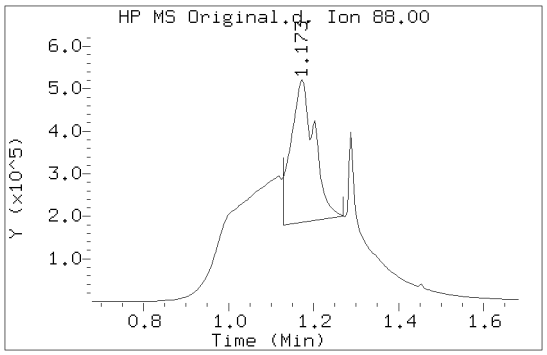
AFTER

MASS
58
AREA
6496
HEIGHT
10751
29-Jun-2023
14:27
ALSHS
Ser



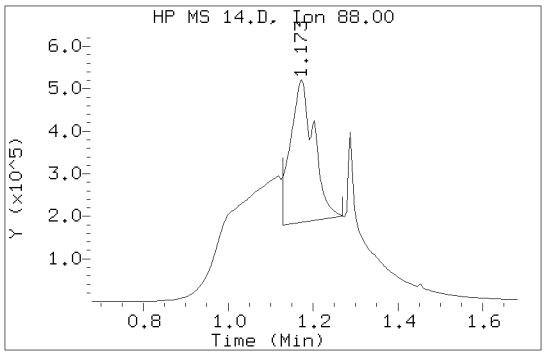
BEFORE

MASS
88
AREA
1285756
HEIGHT
334955
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
88
AREA
1285756
HEIGHT
334955
29-Jun-2023
14:27
ALSHS
Ser



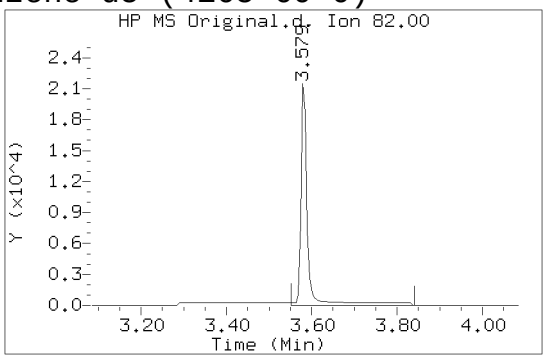
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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Nitrobenzene-d5 (4165-60-0)

Reason Code:

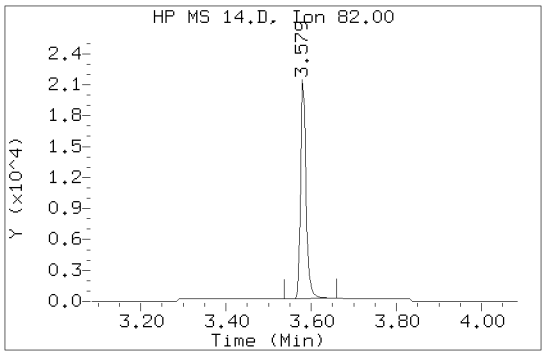
BEFORE

MASS
82
AREA
23560
HEIGHT
21488
16-Jun-2023
15:06
ALSHS
Server



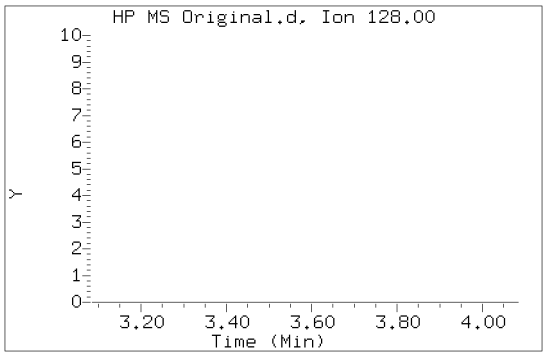
AFTER

MASS
82
AREA
19311
HEIGHT
21230
29-Jun-2023
14:27
ALSHS
Ser



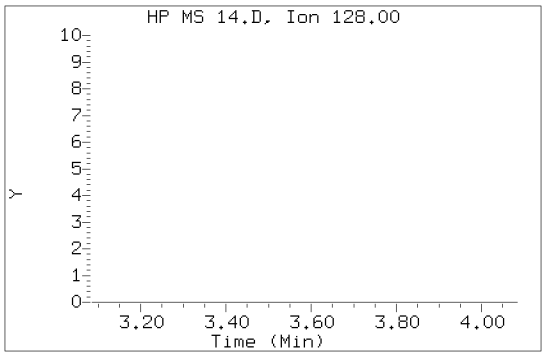
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



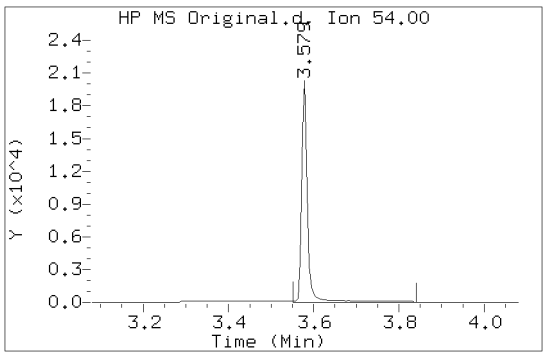
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



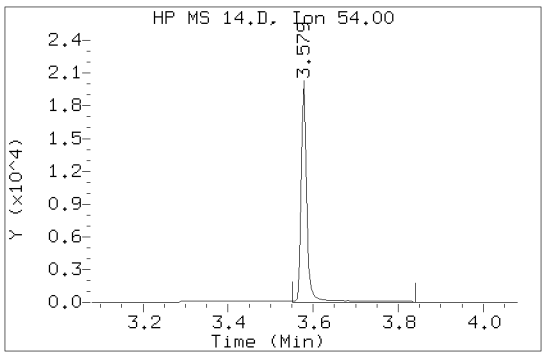
BEFORE

MASS
54
AREA
20065
HEIGHT
20304
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
54
AREA
20065
HEIGHT
20304
29-Jun-2023
14:27
ALSHS
Ser

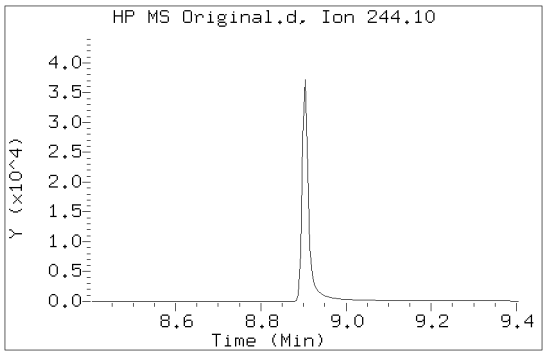


4-Terphenyl-d14 (1718-51-0)

Reason Code:

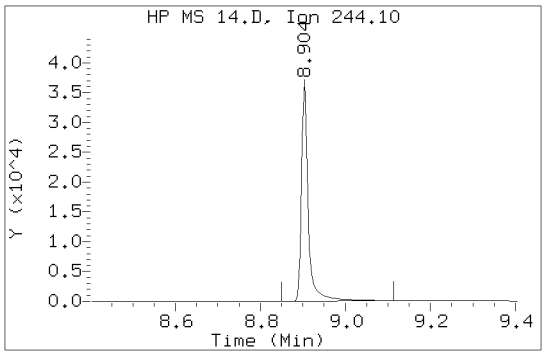
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
244.1
AREA
39805
HEIGHT
37107
29-Jun-2023
14:27
ALSHS
Ser



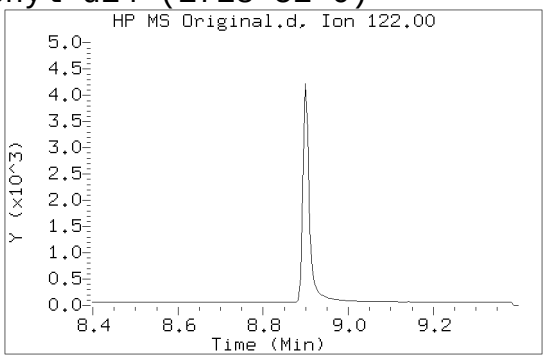
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

4-Terphenyl-d14 (1718-51-0)

Reason Code:

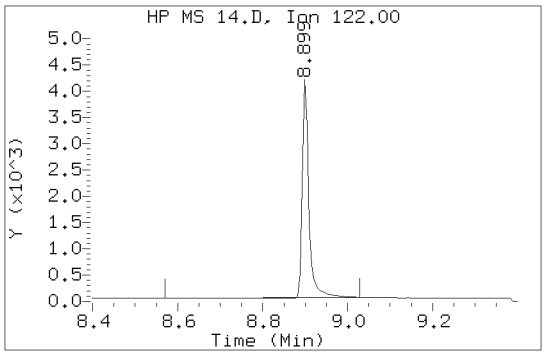
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



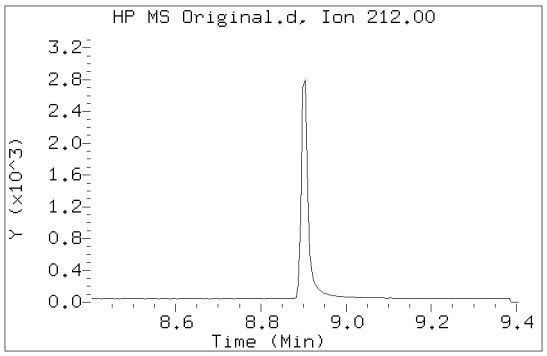
AFTER

MASS
122
AREA
4228
HEIGHT
4149
29-Jun-2023
14:27
ALSHS
Ser



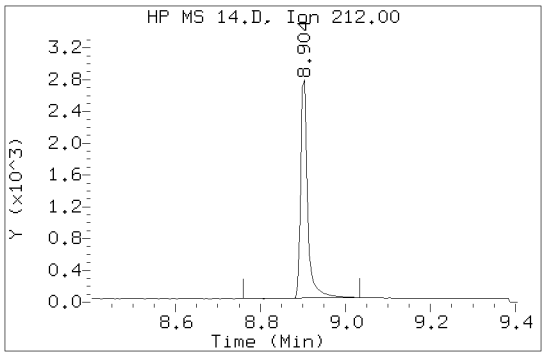
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
212
AREA
3105
HEIGHT
2745
29-Jun-2023
14:27
ALSHS
Ser

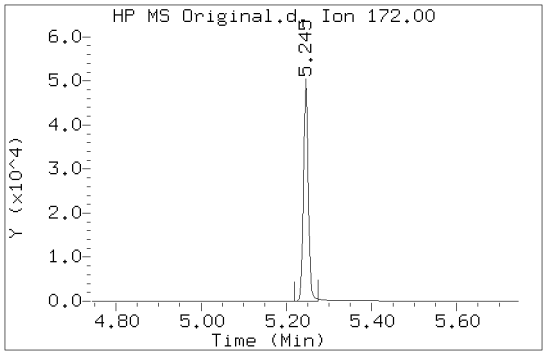


2-Fluorobiphenyl (321-60-8)

Reason Code:

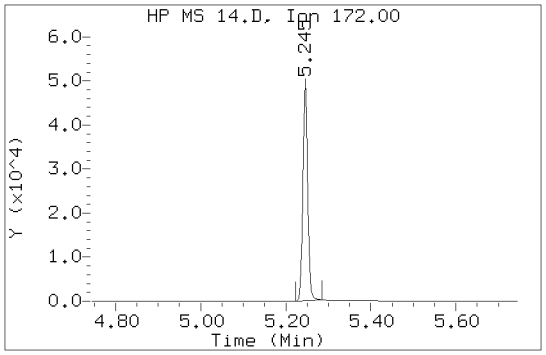
BEFORE

MASS
172
AREA
40002
HEIGHT
50410
16-Jun-2023
15:06
ALSHS
Server



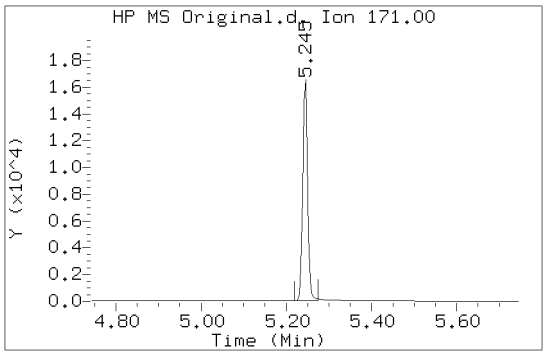
AFTER

MASS
172
AREA
39708
HEIGHT
50322
29-Jun-2023
14:27
ALSHS
Ser



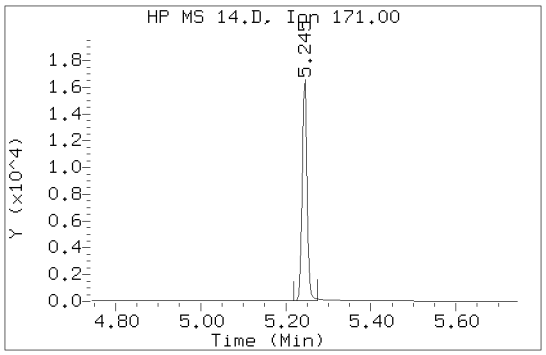
BEFORE

MASS
171
AREA
13389
HEIGHT
16514
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
171
AREA
13389
HEIGHT
16514
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Lab Smp Id: 14DXICAL-0.2 Client Smp ID: 14DXICAL-0.2
Inj Date : 16-JUN-2023 15:56
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.2RR
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 14:51 Cal File: 14.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.122	3.122	(1.000)	3731	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	12688	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	8839	0.20000	0.2304(AM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7256	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	18173	0.20000	0.2446(AM)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	14346	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	8796	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.888)	17639	0.20000	0.2748(AM)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	6565	0.10000	(M)
1 1,4-Dioxane	58	1.460	1.460	(0.468)	2996	0.20000	0.2384(Q)

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.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.

01199957

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D

Date : 16-JUN-2023 15:56

Client ID: 14DXICAL-0.2

Instrument: SV6.i

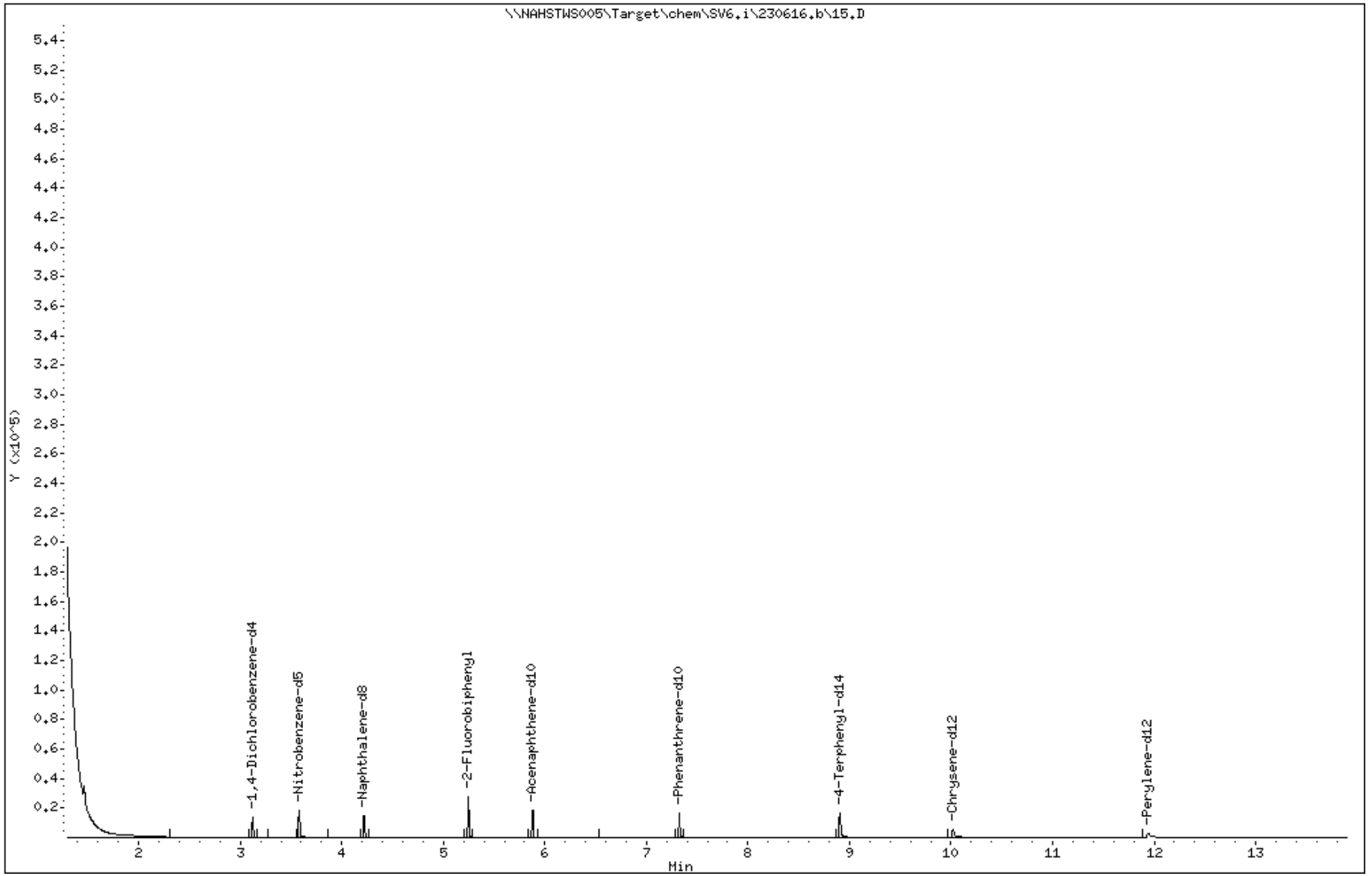
Sample Info: 14DXICAL-0.2RR

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



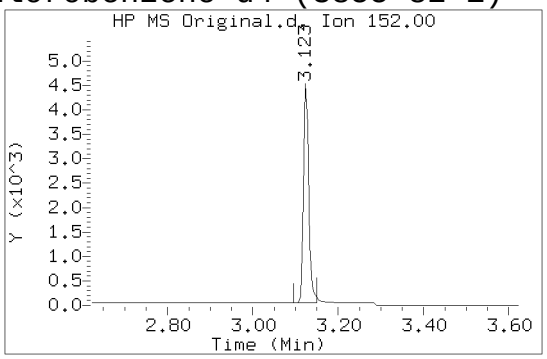
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

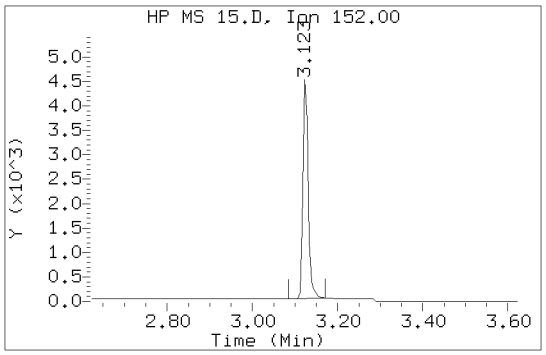
BEFORE

MASS
152
AREA
3749
HEIGHT
4489
16-Jun-2023
16:11
ALSHS
Server



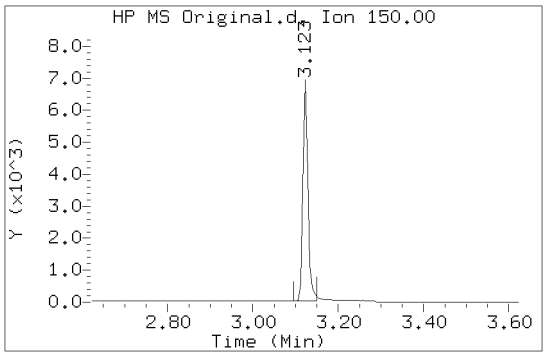
AFTER

MASS
152
AREA
3731
HEIGHT
4478
29-Jun-2023
14:27
ALSHS
Ser



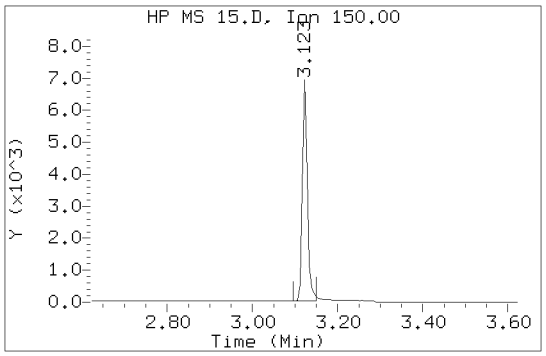
BEFORE

MASS
150
AREA
5426
HEIGHT
6903
16-Jun-2023
16:11
ALSHS
Server



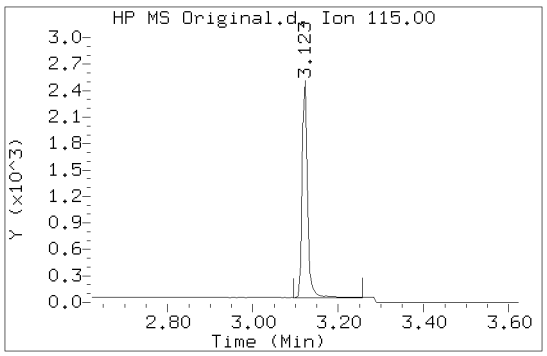
AFTER

MASS
150
AREA
5426
HEIGHT
6903
29-Jun-2023
14:27
ALSHS
Ser



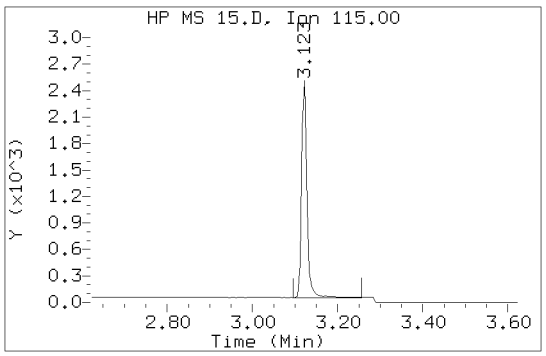
BEFORE

MASS
115
AREA
2094
HEIGHT
2459
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
115
AREA
2094
HEIGHT
2459
29-Jun-2023
14:27
ALSHS
Ser

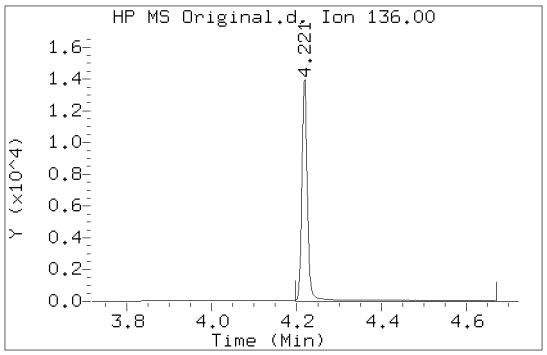


Naphthalene-d8 (1146-65-2)

Reason Code:

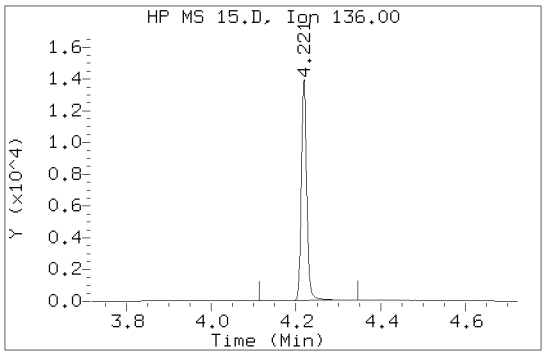
BEFORE

MASS
136
AREA
14465
HEIGHT
13959
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
136
AREA
12688
HEIGHT
13897
29-Jun-2023
14:27
ALSHS
Ser



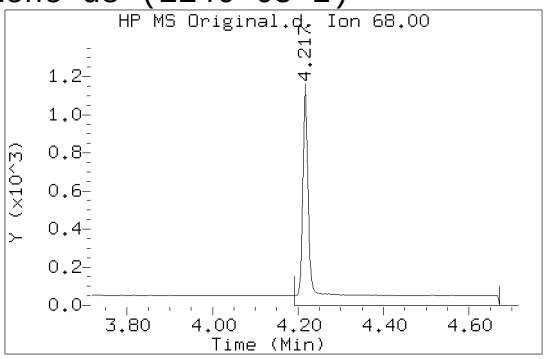
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Naphthalene-d8 (1146-65-2)

Reason Code:

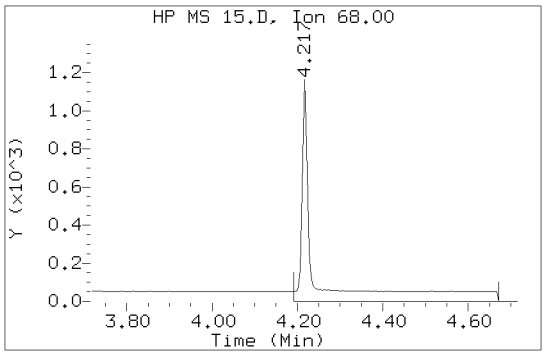
BEFORE

MASS
68
AREA
2461
HEIGHT
1163
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
68
AREA
2461
HEIGHT
1163
29-Jun-2023
14:27
ALSHS
Ser

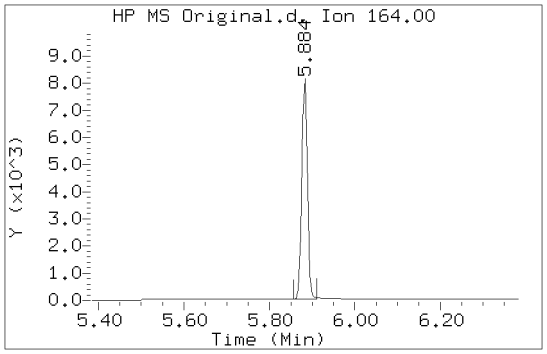


Acenaphthene-d10 (15067-26-2)

Reason Code:

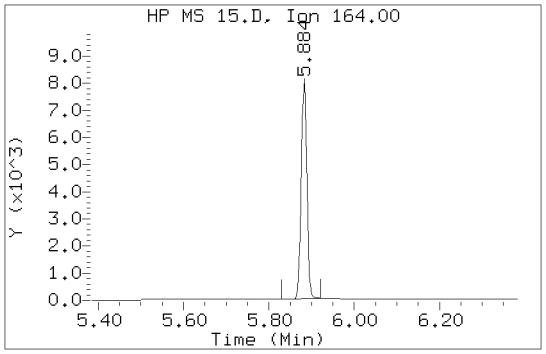
BEFORE

MASS
164
AREA
7305
HEIGHT
8114
16-Jun-2023
16:11
ALSHS
Server



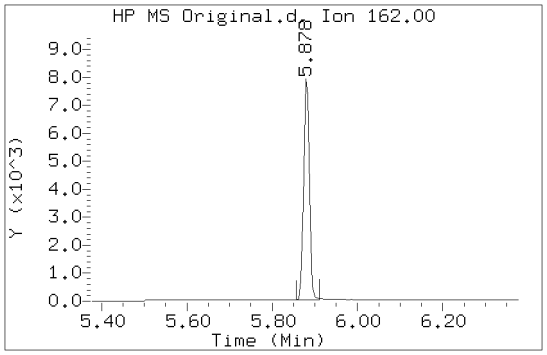
AFTER

MASS
164
AREA
7256
HEIGHT
8100
29-Jun-2023
14:27
ALSHS
Ser



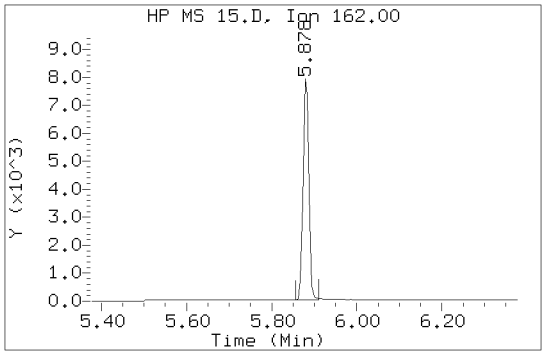
BEFORE

MASS
162
AREA
7389
HEIGHT
7893
16-Jun-2023
16:11
ALSHS
Server



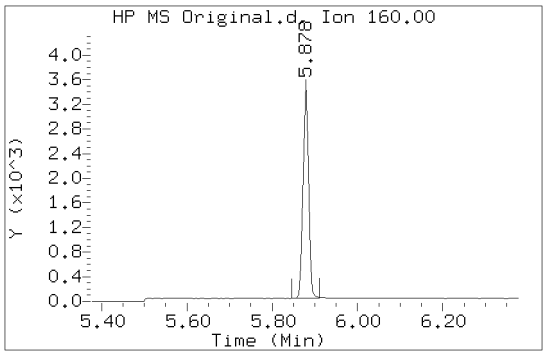
AFTER

MASS
162
AREA
7389
HEIGHT
7893
29-Jun-2023
14:27
ALSHS
Ser



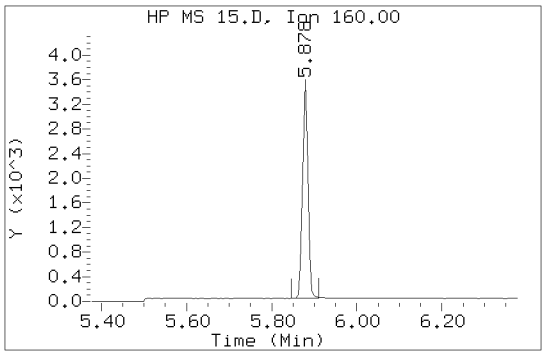
BEFORE

MASS
160
AREA
3110
HEIGHT
3554
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
160
AREA
3110
HEIGHT
3554
29-Jun-2023
14:27
ALSHS
Ser



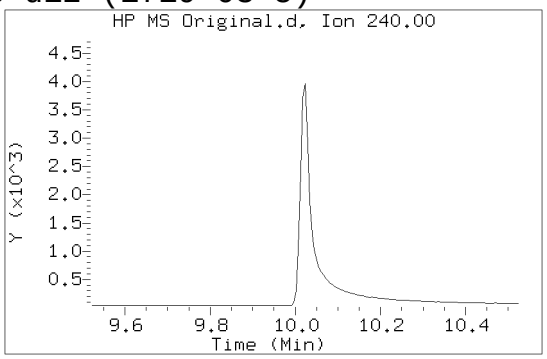
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Chrysene-d12 (1719-03-5)

Reason Code:

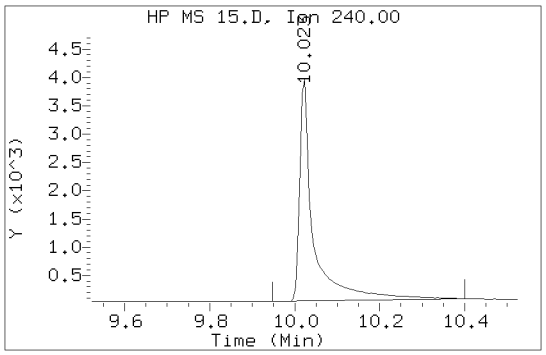
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



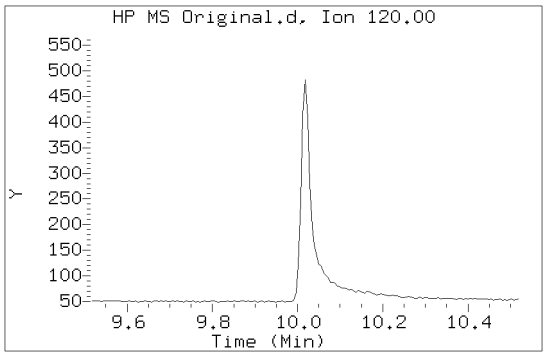
AFTER

MASS
240
AREA
8796
HEIGHT
3907
29-Jun-2023
14:27
ALSHS
Ser



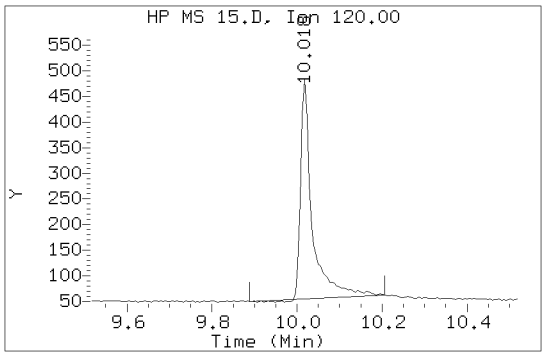
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



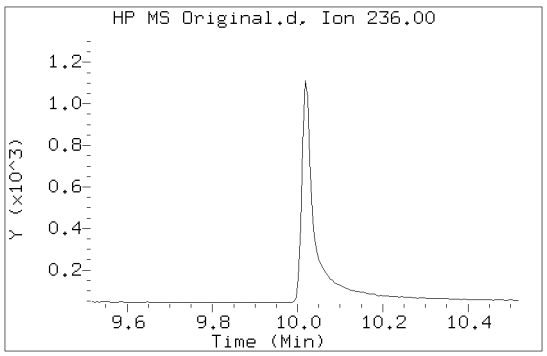
AFTER

MASS
120
AREA
798
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser



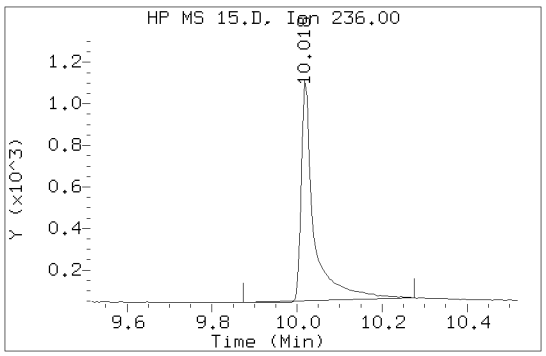
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
236
AREA
2198
HEIGHT
1058
29-Jun-2023
14:27
ALSHS
Ser

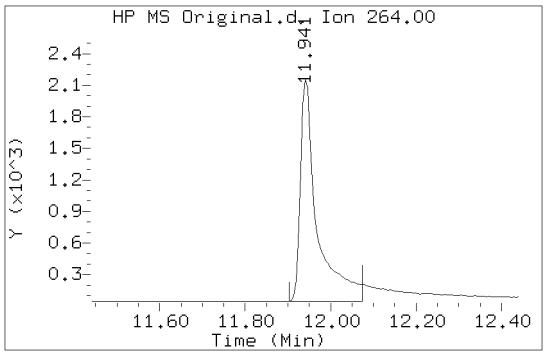


Perylene-d12 (1520-96-3)

Reason Code:

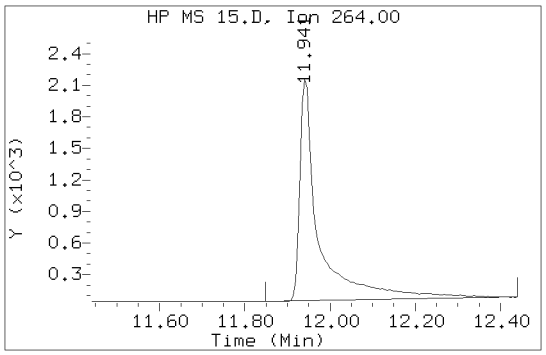
BEFORE

MASS
264
AREA
5713
HEIGHT
2106
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
264
AREA
6565
HEIGHT
2100
29-Jun-2023
14:27
ALSHS
Ser



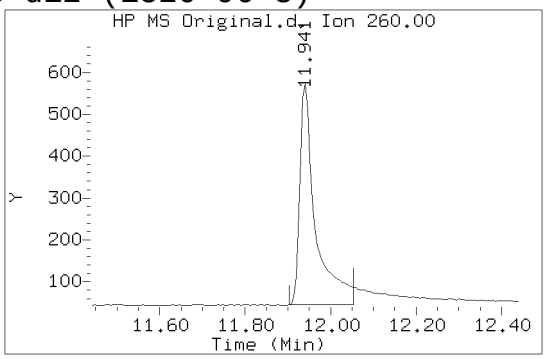
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Perylene-d12 (1520-96-3)

Reason Code:

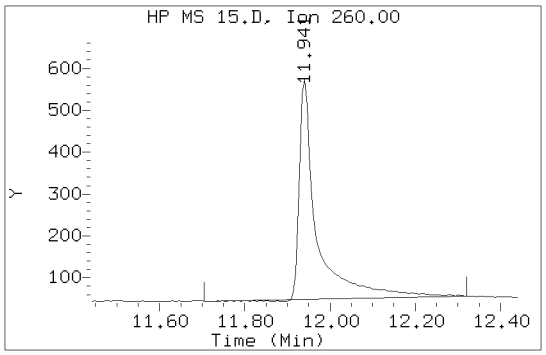
BEFORE

MASS
260
AREA
1348
HEIGHT
528
16-Jun-2023
16:11
ALSHS
Server



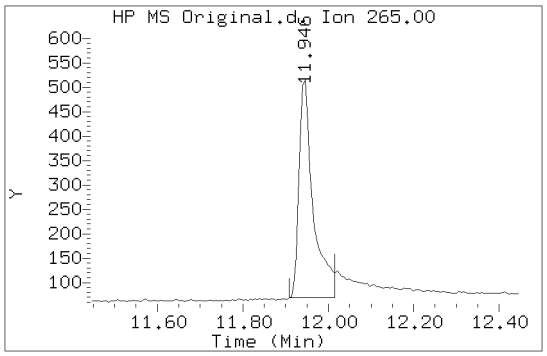
AFTER

MASS
260
AREA
1491
HEIGHT
524
29-Jun-2023
14:27
ALSHS
Ser



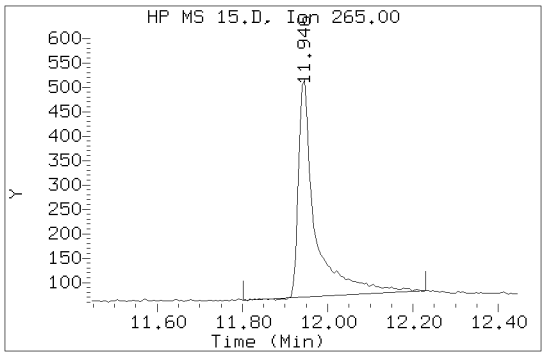
BEFORE

MASS
265
AREA
1037
HEIGHT
446
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
265
AREA
1210
HEIGHT
444
29-Jun-2023
14:27
ALSHS
Ser

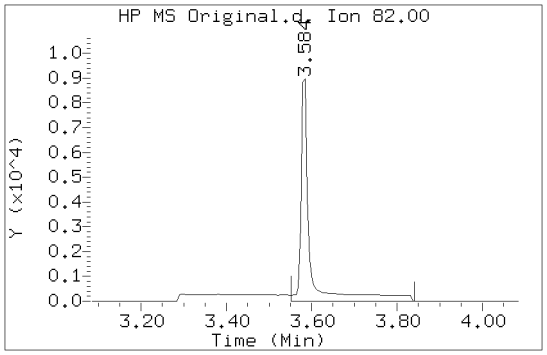


Nitrobenzene-d5 (4165-60-0)

Reason Code:

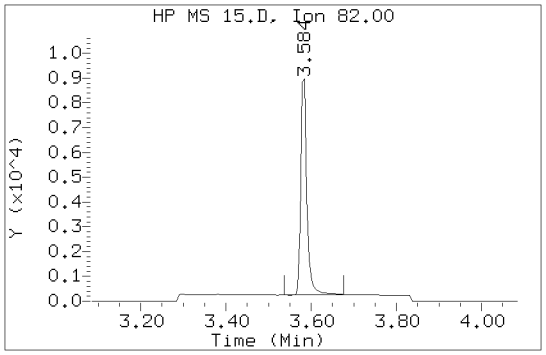
BEFORE

MASS
82
AREA
13113
HEIGHT
8968
16-Jun-2023
16:11
ALSHS
Server



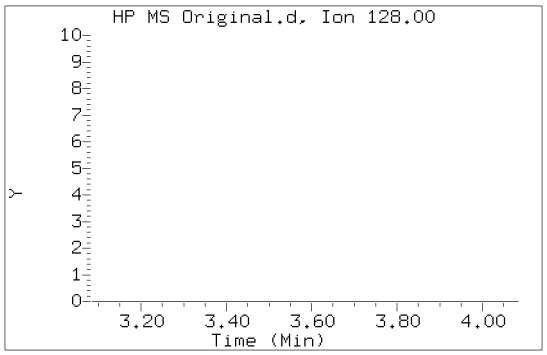
AFTER

MASS
82
AREA
8839
HEIGHT
8709
29-Jun-2023
14:27
ALSHS
Ser



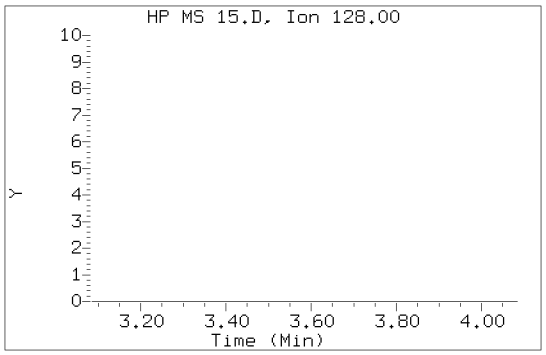
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



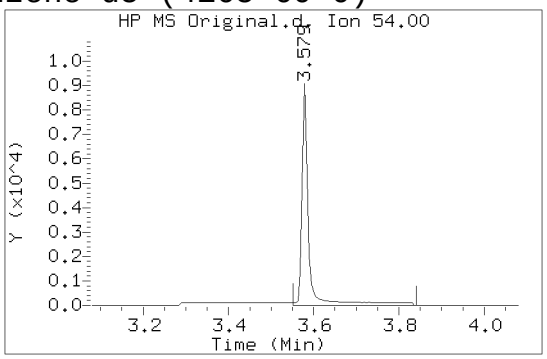
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Nitrobenzene-d5 (4165-60-0)

Reason Code:

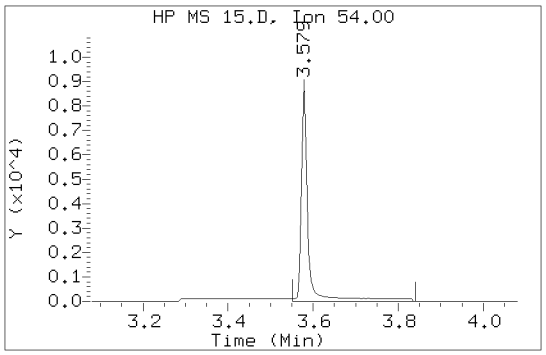
BEFORE

MASS
54
AREA
10106
HEIGHT
9078
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
54
AREA
10106
HEIGHT
9078
29-Jun-2023
14:27
ALSHS
Ser

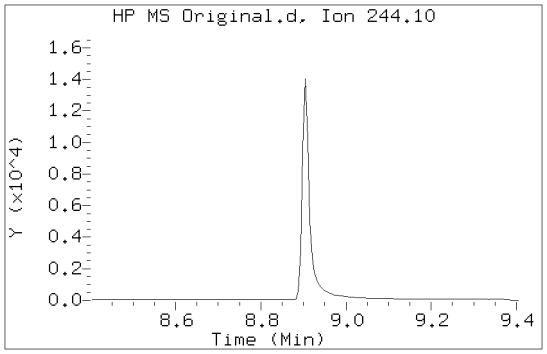


4-Terphenyl-d14 (1718-51-0)

Reason Code:

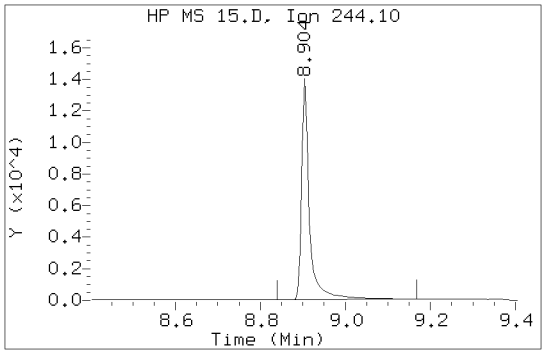
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



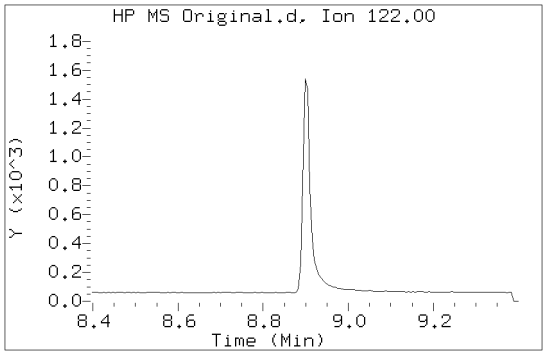
AFTER

MASS
244.1
AREA
17639
HEIGHT
13989
29-Jun-2023
14:27
ALSHS
Ser



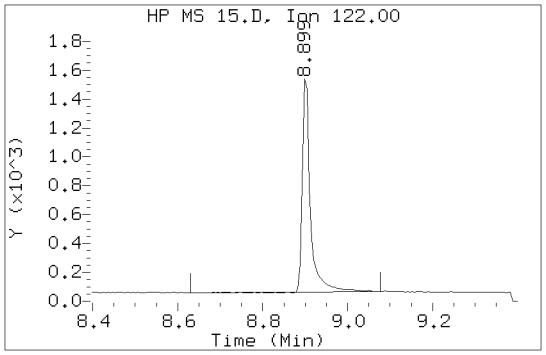
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



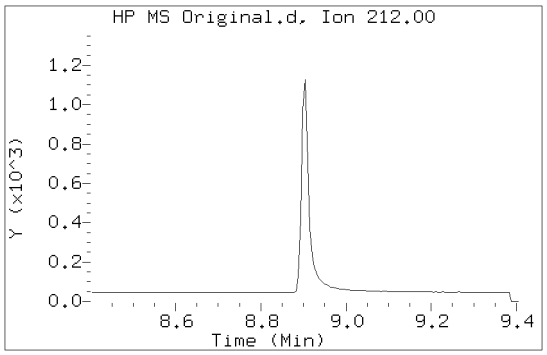
AFTER

MASS
122
AREA
1896
HEIGHT
1474
29-Jun-2023
14:27
ALSHS
Ser



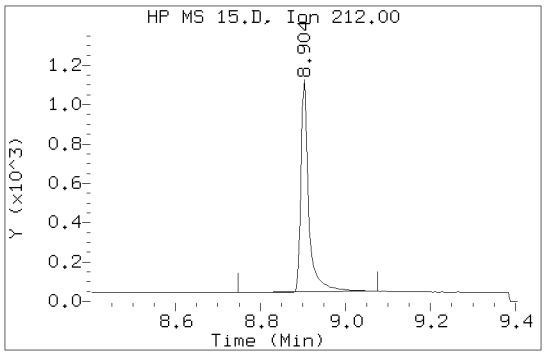
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
212
AREA
1371
HEIGHT
1079
29-Jun-2023
14:27
ALSHS
Ser



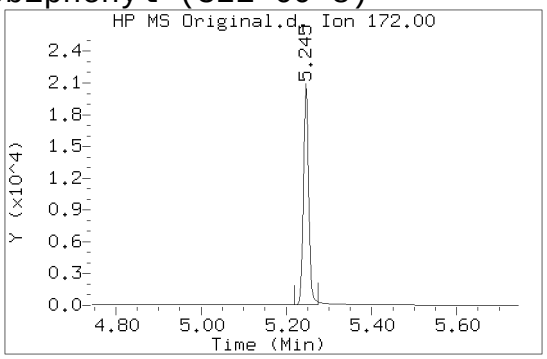
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

2-Fluorobiphenyl (321-60-8)

Reason Code:

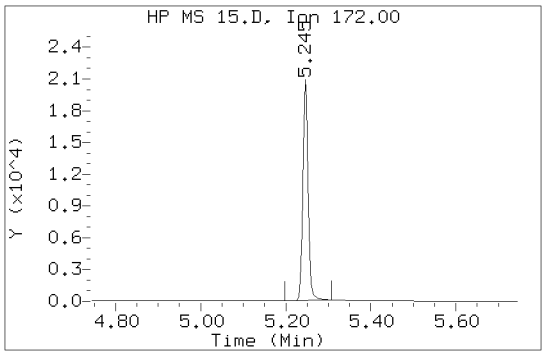
BEFORE

MASS
172
AREA
18197
HEIGHT
20880
16-Jun-2023
16:11
ALSHS
Server



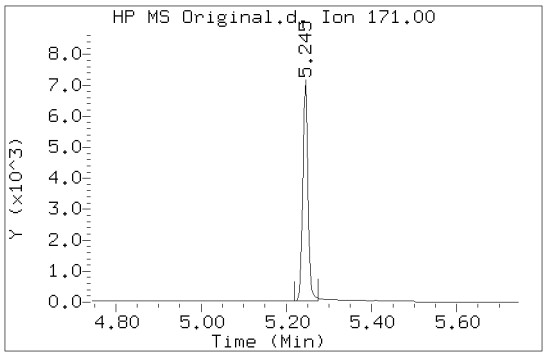
AFTER

MASS
172
AREA
18173
HEIGHT
20843
29-Jun-2023
14:27
ALSHS
Ser



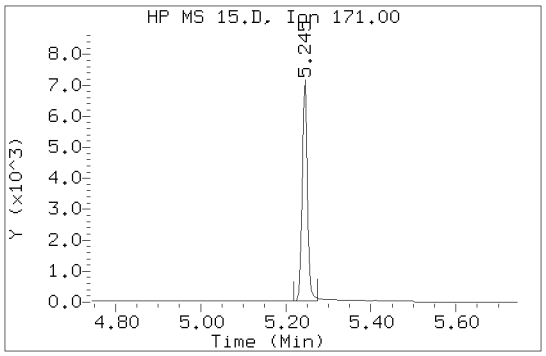
BEFORE

MASS
171
AREA
6120
HEIGHT
7129
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
171
AREA
6120
HEIGHT
7129
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Lab Smp Id: 14DXICV-0.08 Client Smp ID: 14DXICV-0.08
Inj Date : 16-JUN-2023 16:22
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.122	(1.000)	5295	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	17725	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	3797	0.07086	0.07086(M)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10379	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.248	5.245	(0.892)	8542	0.08036	0.08036(M)
* 126 Phenanthrene-d10	188	7.328	7.322	(1.000)	20505	0.10000	(M)
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	12662	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.904	(0.889)	7743	0.08379	0.08379(M)
* 198 Perylene-d12	264	11.945	11.940	(1.000)	10635	0.10000	(M)
1 1,4-Dioxane	58	1.464	1.460	(0.468)	1261	0.07070	0.07070(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01199965

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D

Date : 16-JUN-2023 16:22

Client ID: 14DXICV-0.08

Instrument: SV6.i

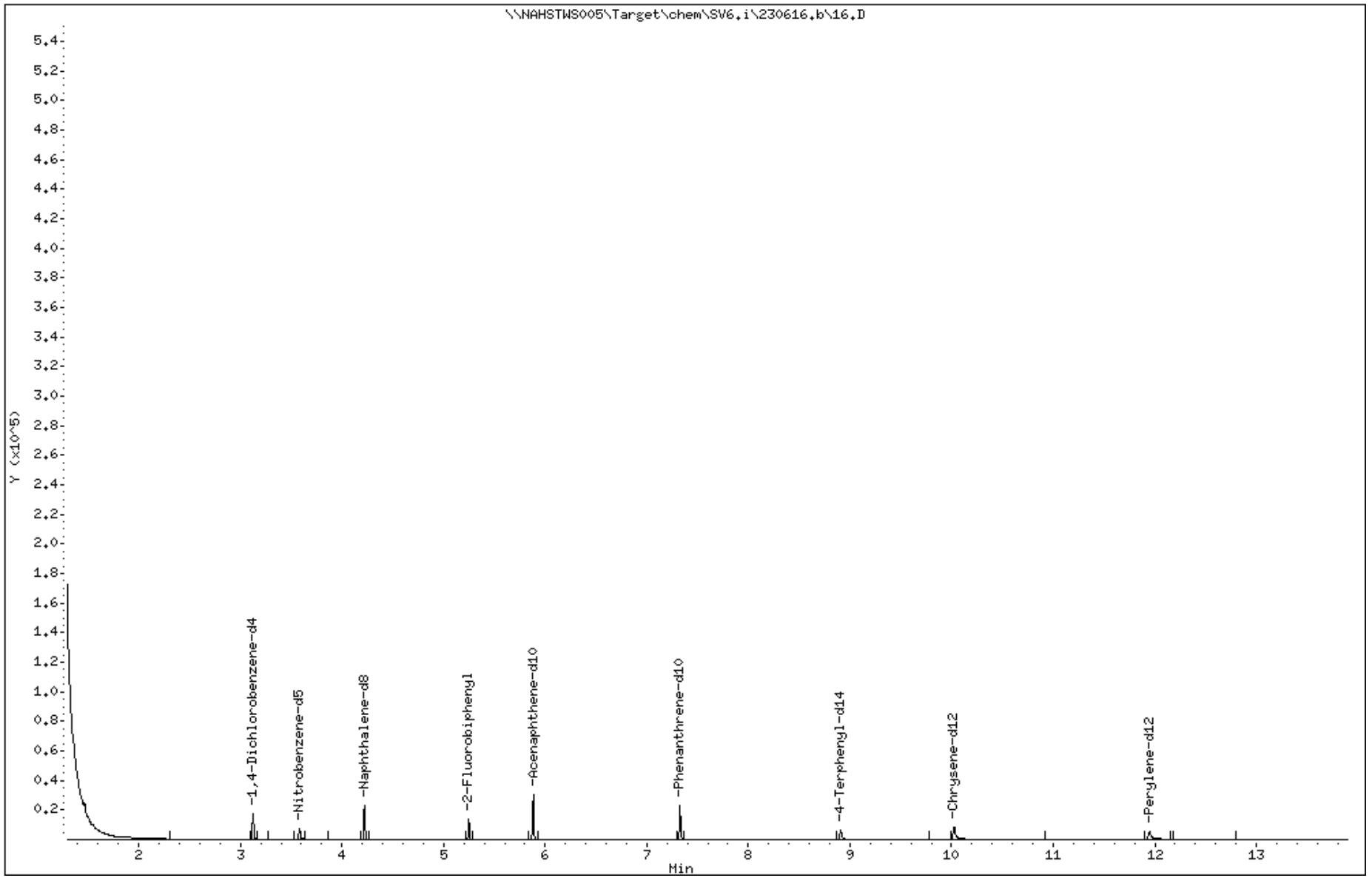
Sample Info: 14DXICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



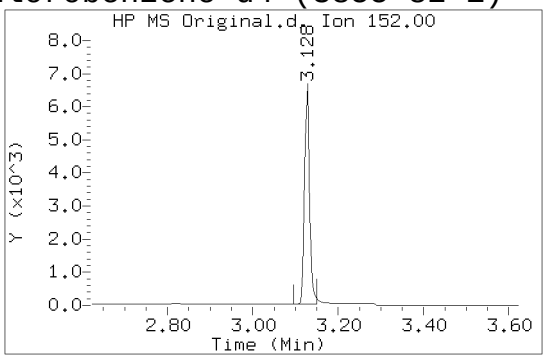
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

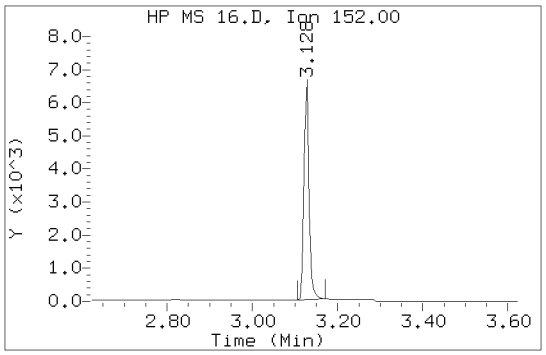
BEFORE

MASS
152
AREA
5292
HEIGHT
6650
16-Jun-2023
16:37
ALSHS
Server



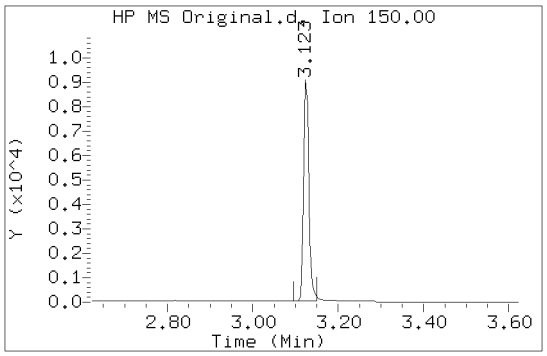
AFTER

MASS
152
AREA
5295
HEIGHT
6641
29-Jun-2023
14:27
ALSHS
Ser



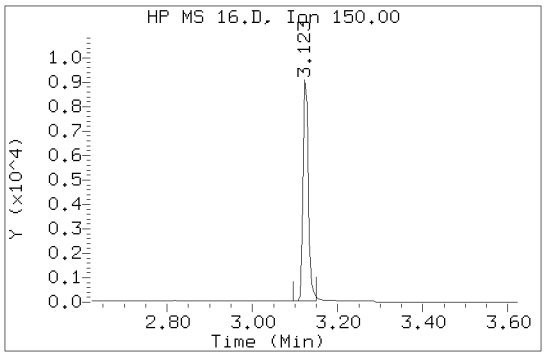
BEFORE

MASS
150
AREA
7668
HEIGHT
9050
16-Jun-2023
16:37
ALSHS
Server



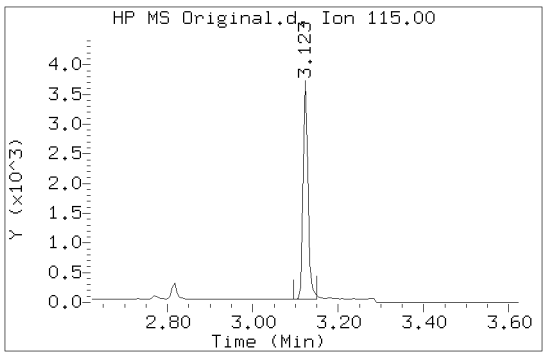
AFTER

MASS
150
AREA
7668
HEIGHT
9050
29-Jun-2023
14:27
ALSHS
Ser



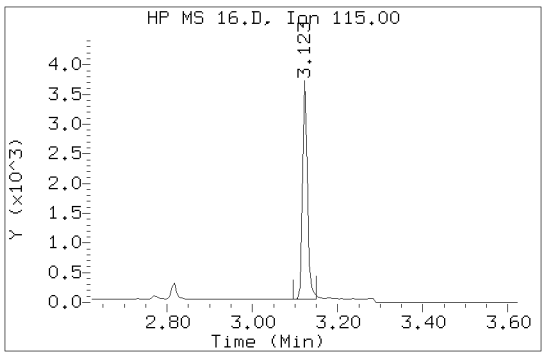
BEFORE

MASS
115
AREA
2824
HEIGHT
3676
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
115
AREA
2824
HEIGHT
3676
29-Jun-2023
14:27
ALSHS
Ser

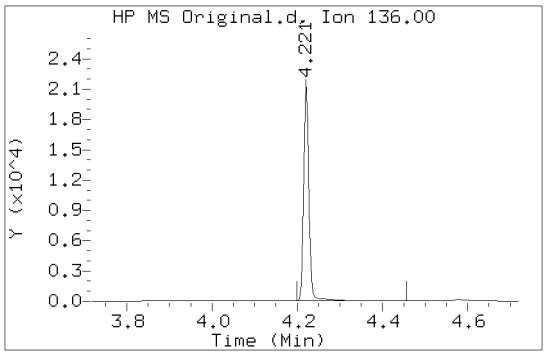


Naphthalene-d8 (1146-65-2)

Reason Code:

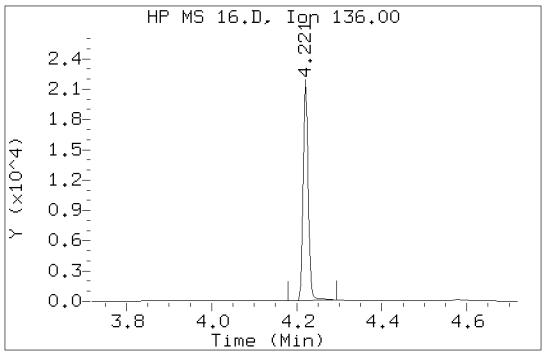
BEFORE

MASS
136
AREA
18147
HEIGHT
21880
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
136
AREA
17725
HEIGHT
21858
29-Jun-2023
14:27
ALSHS
Ser



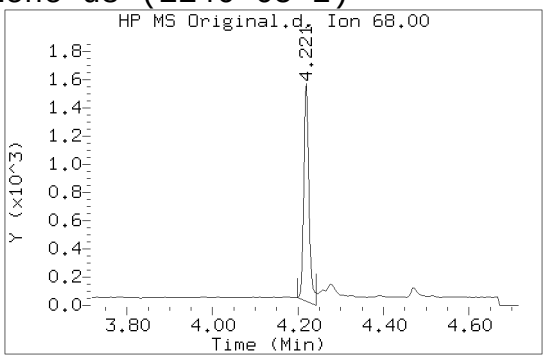
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

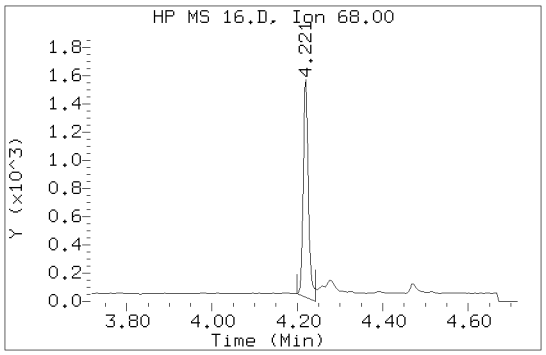
BEFORE

MASS
68
AREA
1351
HEIGHT
1544
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
68
AREA
1351
HEIGHT
1544
29-Jun-2023
14:27
ALSHS
Ser

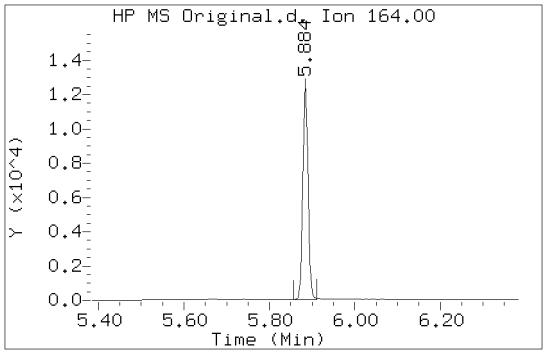


Acenaphthene-d10 (15067-26-2)

Reason Code:

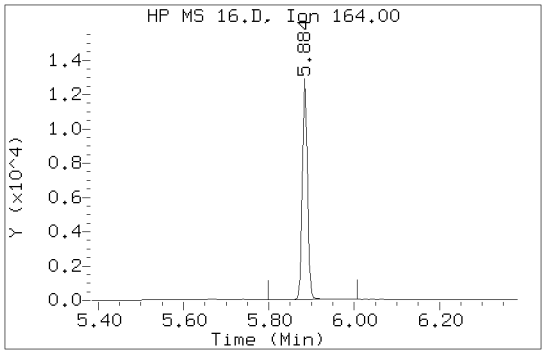
BEFORE

MASS
164
AREA
10322
HEIGHT
12879
16-Jun-2023
16:37
ALSHS
Server



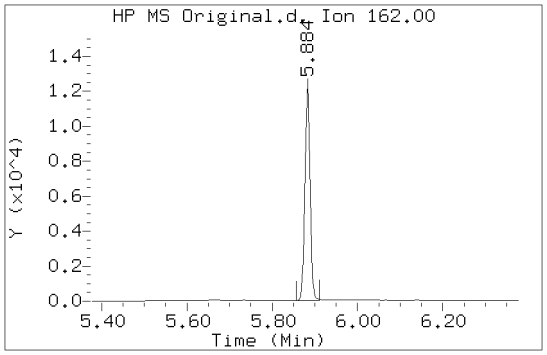
AFTER

MASS
164
AREA
10379
HEIGHT
12877
29-Jun-2023
14:27
ALSHS
Ser



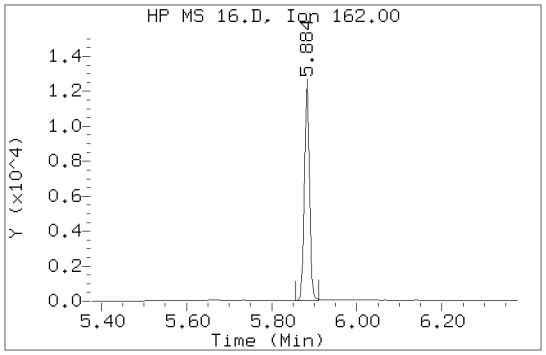
BEFORE

MASS
162
AREA
10387
HEIGHT
12657
16-Jun-2023
16:37
ALSHS
Server



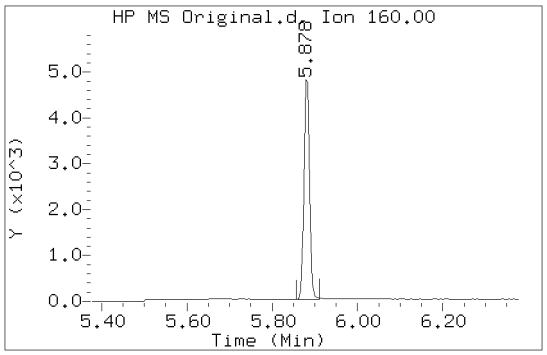
AFTER

MASS
162
AREA
10387
HEIGHT
12657
29-Jun-2023
14:27
ALSHS
Ser



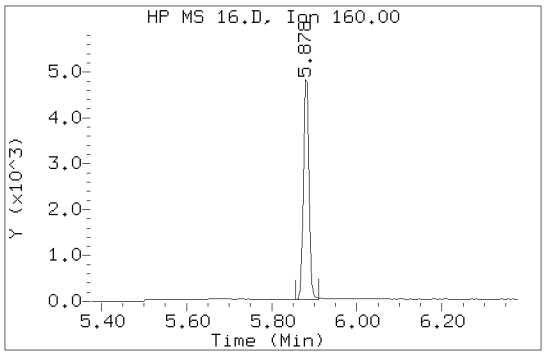
BEFORE

MASS
160
AREA
4356
HEIGHT
4785
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
160
AREA
4356
HEIGHT
4785
29-Jun-2023
14:27
ALSHS
Ser



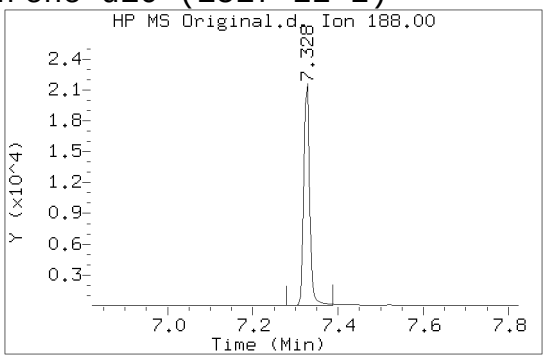
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

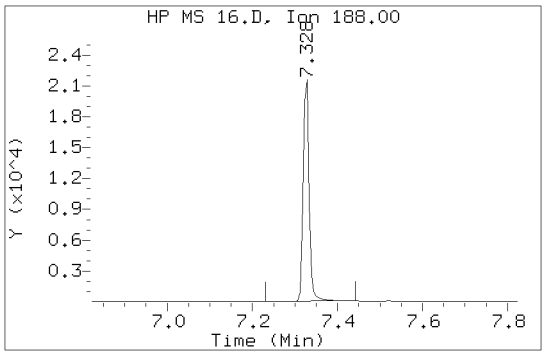
BEFORE

MASS
188
AREA
20554
HEIGHT
21579
16-Jun-2023
16:37
ALSHS
Server



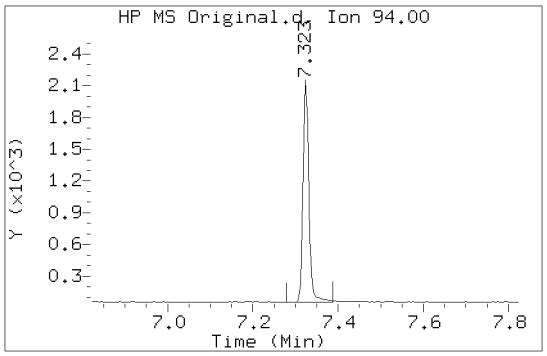
AFTER

MASS
188
AREA
20505
HEIGHT
21562
29-Jun-2023
14:27
ALSHS
Ser



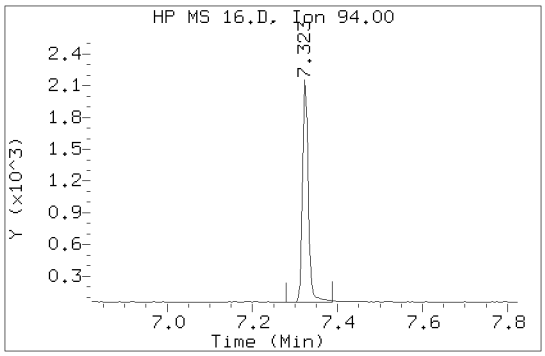
BEFORE

MASS
94
AREA
1950
HEIGHT
2099
16-Jun-2023
16:37
ALSHS
Server



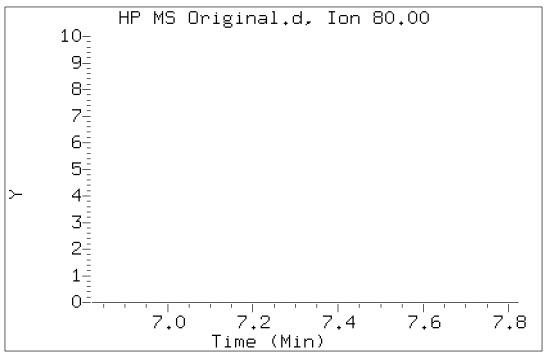
AFTER

MASS
94
AREA
1950
HEIGHT
2099
29-Jun-2023
14:27
ALSHS
Ser



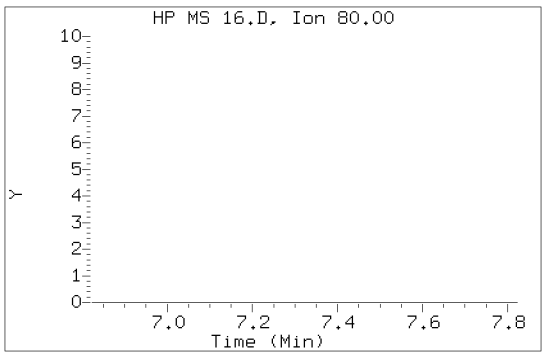
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

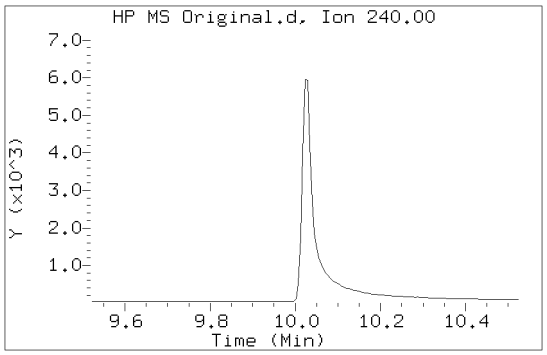


Chrysene-d12 (1719-03-5)

Reason Code:

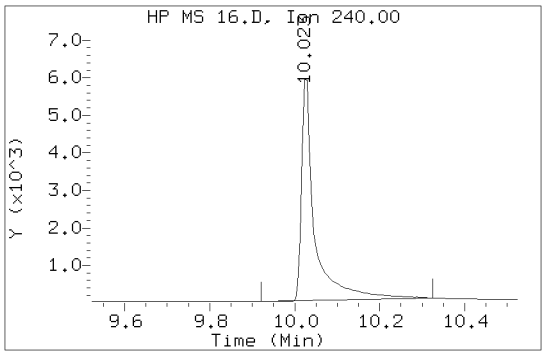
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
240
AREA
12662
HEIGHT
5881
29-Jun-2023
14:27
ALSHS
Ser



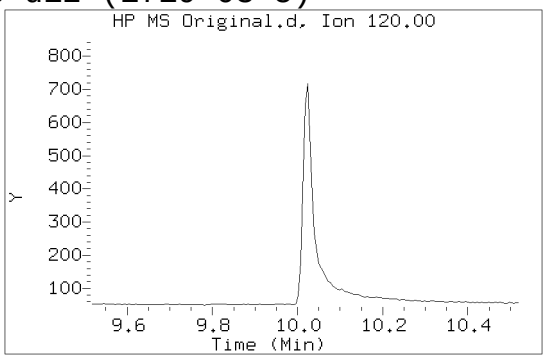
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

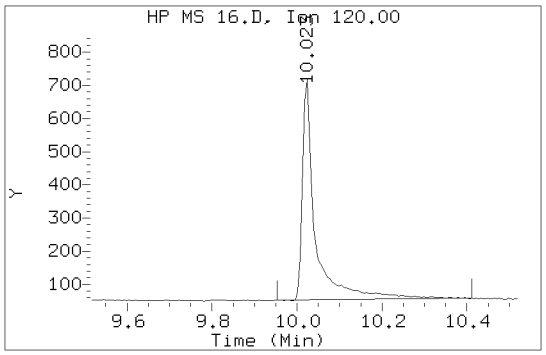
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



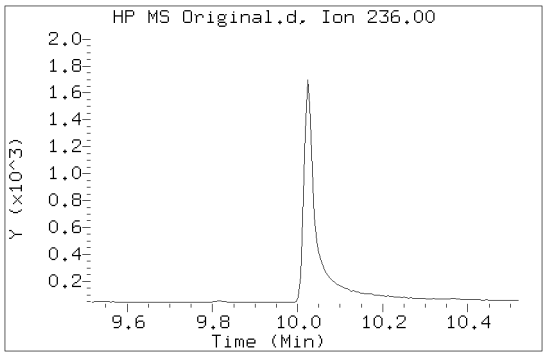
AFTER

MASS
120
AREA
1417
HEIGHT
664
29-Jun-2023
14:27
ALSHS
Ser



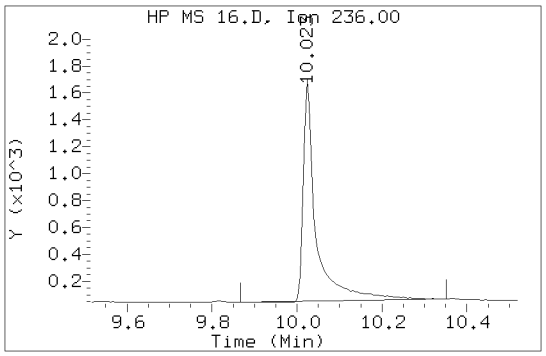
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
236
AREA
3367
HEIGHT
1641
29-Jun-2023
14:27
ALSHS
Ser

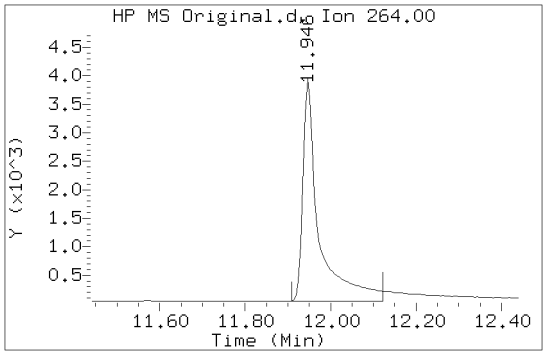


Perylene-d12 (1520-96-3)

Reason Code:

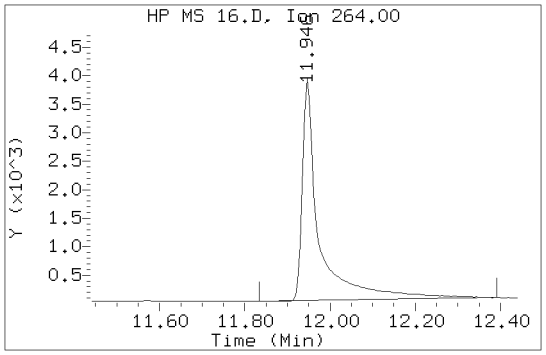
BEFORE

MASS
264
AREA
10066
HEIGHT
3896
16-Jun-2023
16:37
ALSHS
Server



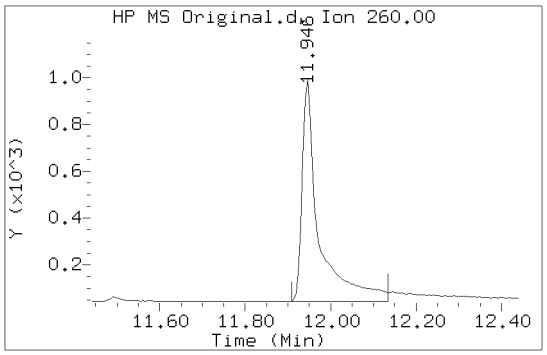
AFTER

MASS
264
AREA
10635
HEIGHT
3885
29-Jun-2023
14:27
ALSHS
Ser



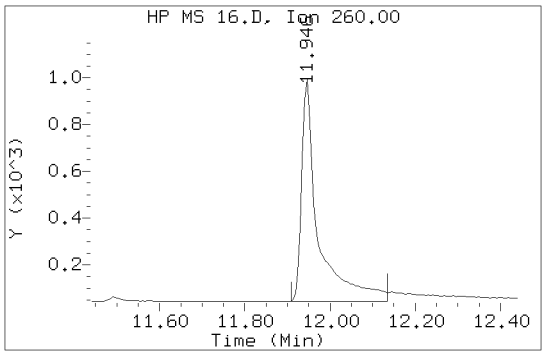
BEFORE

MASS
260
AREA
2544
HEIGHT
947
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
260
AREA
2544
HEIGHT
947
29-Jun-2023
14:27
ALSHS
Ser



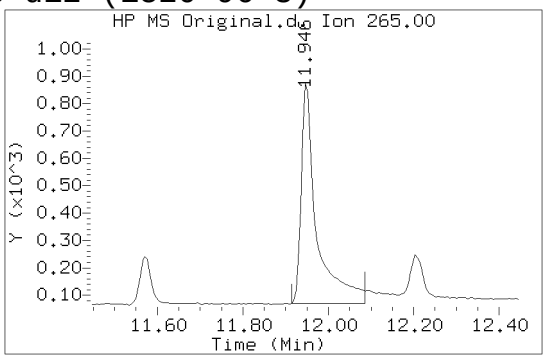
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Perylene-d12 (1520-96-3)

Reason Code:

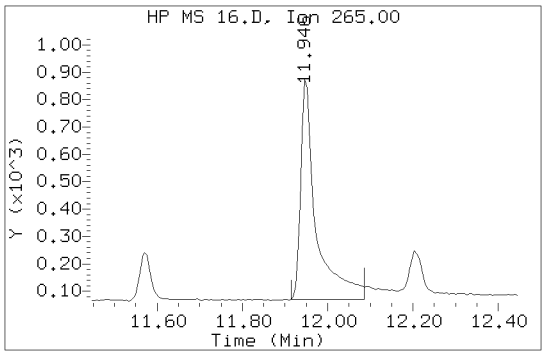
BEFORE

MASS
265
AREA
2015
HEIGHT
803
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
265
AREA
2015
HEIGHT
803
29-Jun-2023
14:27
ALSHS
Ser

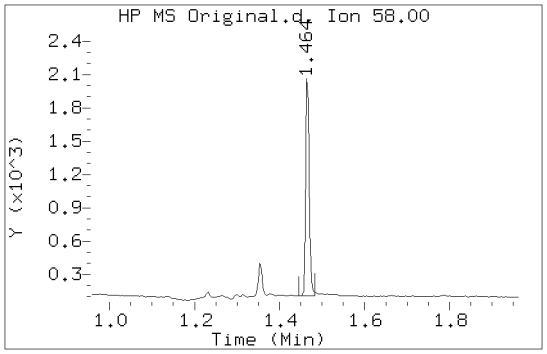


1,4-Dioxane ()

Reason Code:

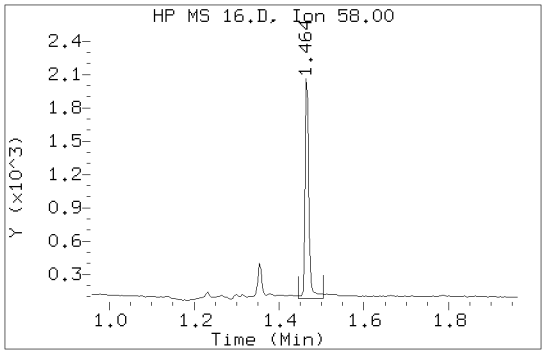
BEFORE

MASS
58
AREA
1149
HEIGHT
1956
16-Jun-2023
16:37
ALSHS
Server



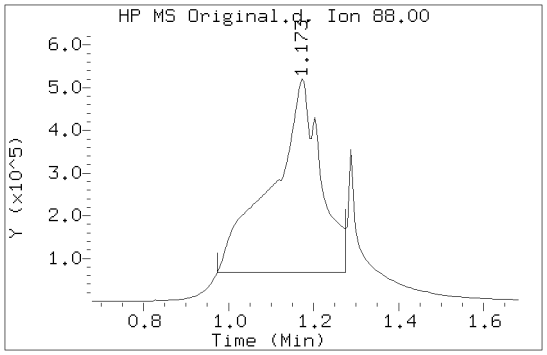
AFTER

MASS
58
AREA
1261
HEIGHT
1979
29-Jun-2023
14:27
ALSHS
Ser



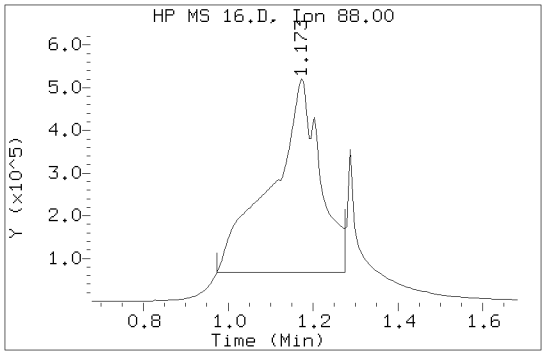
BEFORE

MASS
88
AREA
3609729
HEIGHT
452352
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
88
AREA
3609729
HEIGHT
452352
29-Jun-2023
14:27
ALSHS
Ser

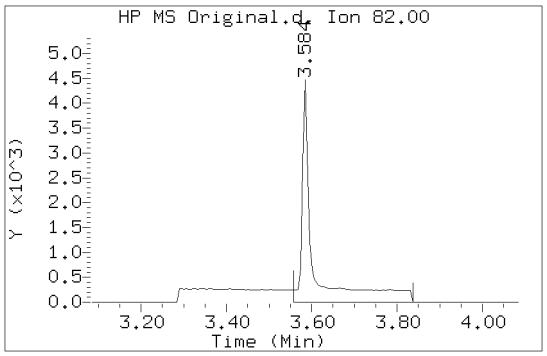


Nitrobenzene-d5 (4165-60-0)

Reason Code:

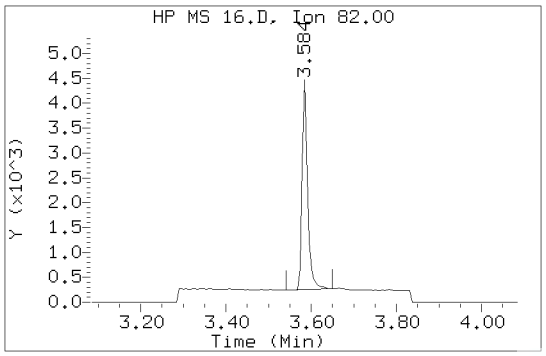
BEFORE

MASS
82
AREA
8001
HEIGHT
4469
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
82
AREA
3797
HEIGHT
4214
29-Jun-2023
14:27
ALSHS
Ser



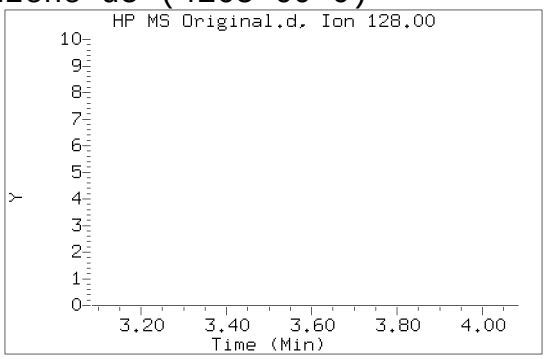
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

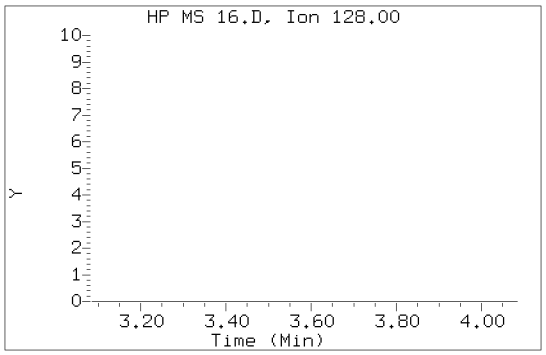
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



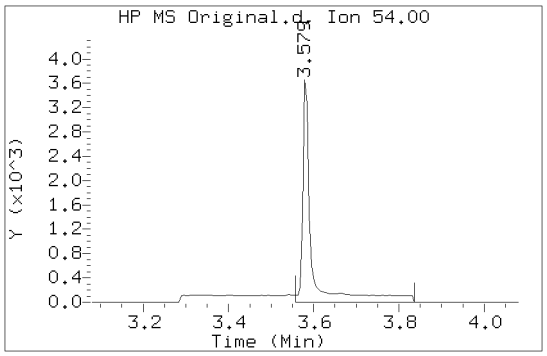
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



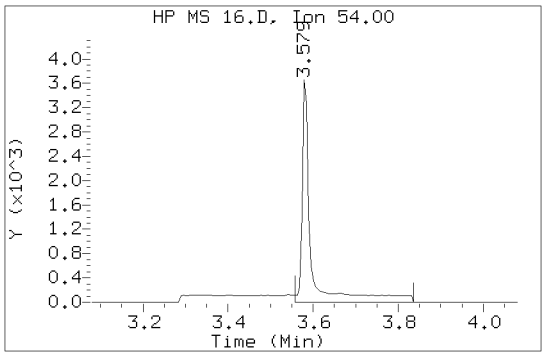
BEFORE

MASS
54
AREA
5382
HEIGHT
3655
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
54
AREA
5382
HEIGHT
3655
29-Jun-2023
14:27
ALSHS
Ser

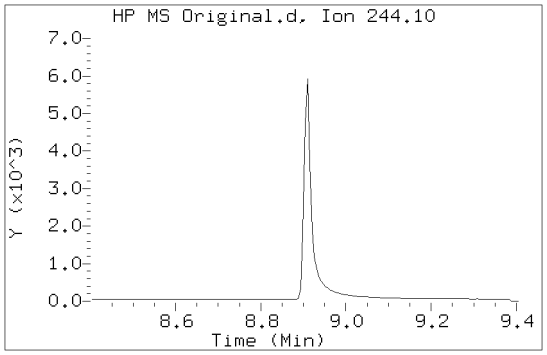


4-Terphenyl-d14 (1718-51-0)

Reason Code:

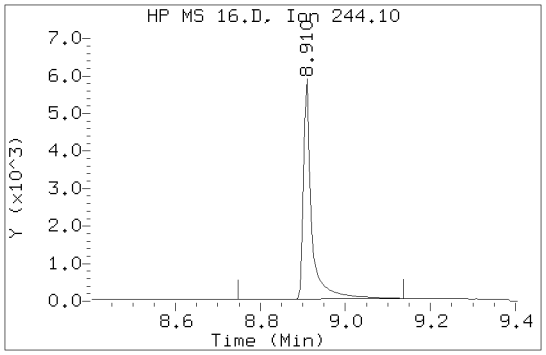
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



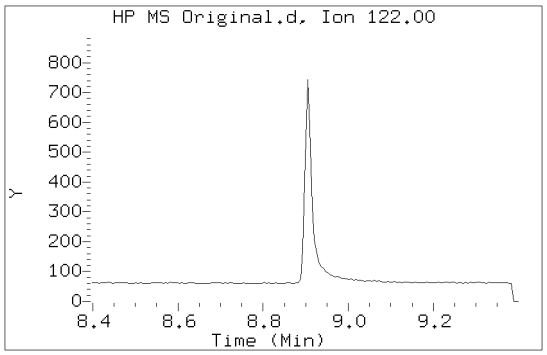
AFTER

MASS
244.1
AREA
7743
HEIGHT
5864
29-Jun-2023
14:27
ALSHS
Ser



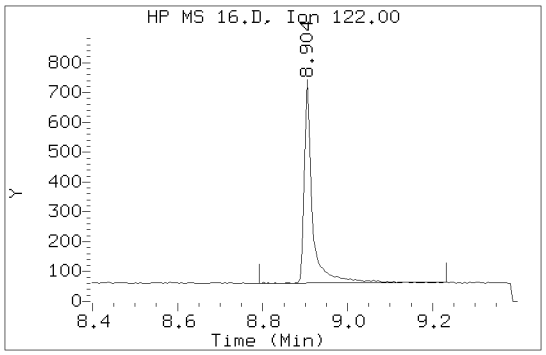
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
122
AREA
889
HEIGHT
681
29-Jun-2023
14:27
ALSHS
Ser



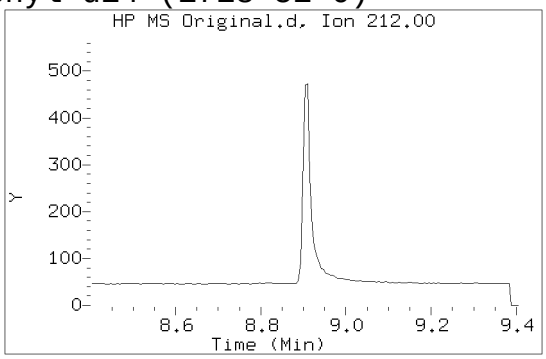
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

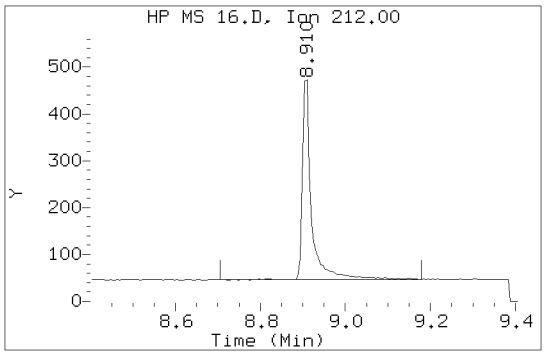
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
212
AREA
632
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser

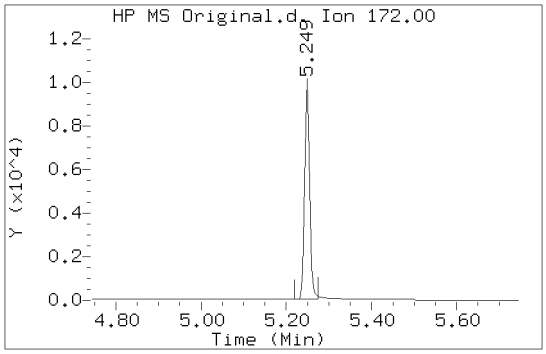


2-Fluorobiphenyl (321-60-8)

Reason Code:

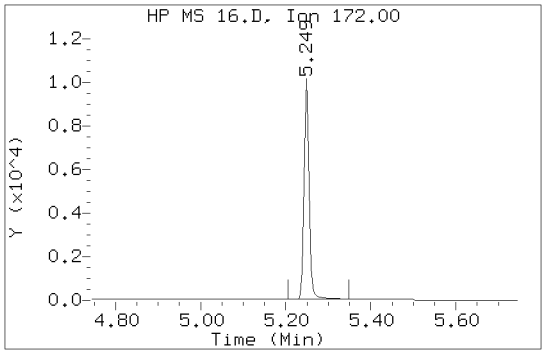
BEFORE

MASS
172
AREA
8416
HEIGHT
10125
16-Jun-2023
16:37
ALSHS
Server



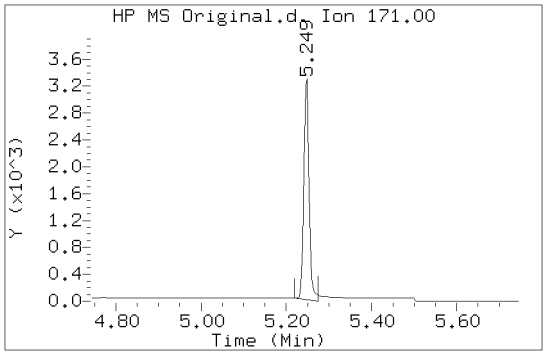
AFTER

MASS
172
AREA
8542
HEIGHT
10120
29-Jun-2023
14:27
ALSHS
Ser



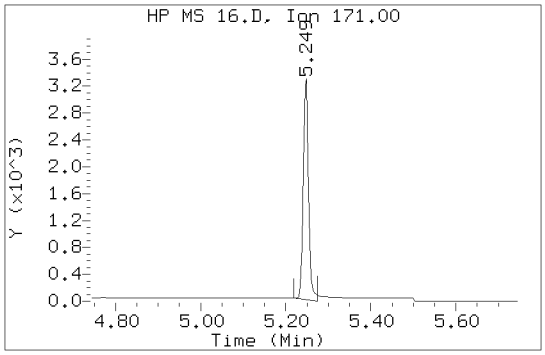
BEFORE

MASS
171
AREA
2911
HEIGHT
3286
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
171
AREA
2911
HEIGHT
3286
29-Jun-2023
14:27
ALSHS
Ser



right solutions.
right partner.

Raw Data SV 6 440304

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061557

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/03/2023

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\230629.b\01.D Page 1
Report Date: 29-Jun-2023 09:37

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-JUN-2023 09:23
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.496	6.357	-1.861	198	129208			0.00- 100.00	88.16
4.496	6.357	-1.861	51	54859			10.00- 80.00	42.46
4.496	6.357	-1.861	68	735			0.00- 2.00	1.56
4.496	6.357	-1.861	69	46968			0.00- 0.00	36.35
4.496	6.357	-1.861	70	170			0.00- 2.00	0.36
4.496	6.357	-1.861	127	54824			10.00- 80.00	42.43
4.496	6.357	-1.861	197	1787			0.00- 2.00	1.38
4.496	6.357	-1.861	199	8415			5.00- 9.00	6.51
4.496	6.357	-1.861	275	31904			10.00- 60.00	24.69
4.496	6.357	-1.861	365	4720			1.00- 100.00	3.65
4.496	6.357	-1.861	441	21376			0.01- 99.99	73.96
4.496	6.357	-1.861	442	146560			50.00- 150.00	113.43
4.496	6.357	-1.861	443	28904			15.00- 24.00	19.72

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.46
68	Less than 2.00% of mass 69	0.57 (1.56)
69	Mass 69 relative abundance	36.35
70	Less than 2.00% of mass 69	0.13 (0.36)
127	10.00 - 80.00% of mass 198	42.43
197	Less than 2.00% of mass 198	1.38
199	5.00 - 9.00% of mass 198	6.51
275	10.00 - 60.00% of mass 198	24.69
365	1.00 - 100.00% of mass 198	3.65
441	Present, but less than mass 443	16.54
442	50.00 - 150.00% of mass 198	113.43
443	15.00 - 24.00% of mass 442	22.37 (19.72)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 357: 4.496 min. (SUB)
Location of Maximum: 442.00
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	175	125.00	722	197.00	1787	277.00	2383
38.00	562	127.00	54824	198.00	129208	277.90	389
39.10	3574	128.00	3821	199.00	8415	283.00	287
40.00	36	129.00	21256	200.00	920	283.90	210
50.00	13006	130.00	1796	201.50	684	285.00	582
51.00	54856	131.00	321	202.10	223	288.90	153
52.00	3021	134.00	532	202.90	877	290.00	189
55.00	359	135.00	1537	204.00	5027	293.00	681
56.00	1827	135.90	648	205.00	7818	294.10	155
57.00	4375	137.00	695	206.10	33216	294.90	299
57.90	159	138.00	211	207.00	4122	296.00	9536
60.90	702	140.00	242	208.00	1021	297.00	1423
62.00	597	141.00	2999	209.00	295	301.90	193
63.00	2190	142.00	822	210.10	664	303.00	984
63.90	259	143.00	574	211.00	1482	304.00	440
65.00	984	144.10	182	214.90	332	308.00	166
67.90	735	144.90	196	216.00	831	314.00	533
69.00	46968	145.90	440	217.00	9421	315.00	1120
69.90	170	147.00	1331	218.00	1147	316.00	547
73.00	343	148.00	3293	221.00	6144	317.10	163
74.00	4428	148.90	602	222.00	1175	321.00	342
75.00	7466	151.40	615	223.00	2055	323.00	3326
76.00	2463	153.00	769	224.00	19696	324.10	622
77.10	53336	154.00	740	225.10	4647	327.00	350
78.10	3431	155.00	1605	225.90	450	328.00	326
79.00	3212	156.00	2637	227.00	8143	332.10	208
80.00	2304	157.00	502	228.00	1023	333.10	203
81.00	3713	157.90	476	229.00	1756	334.00	2255
81.90	750	159.00	524	230.00	212	334.90	489
83.00	819	160.10	682	231.00	621	340.90	257
84.00	66	161.00	1145	233.90	416	345.90	638
85.00	607	162.00	319	235.00	582	346.90	178
86.00	1056	165.00	816	236.00	438	352.00	1235
87.00	440	166.00	938	237.00	456	353.10	951
88.00	207	167.00	5541	239.00	253	354.00	991
91.10	718	168.00	2139	240.00	195	355.10	210
92.00	768	169.10	463	240.90	323	365.00	4720
93.00	5684	170.00	209	242.00	887	366.00	628
94.00	337	171.00	278	243.00	979	370.90	219
96.00	274	171.90	501	244.10	13977	372.00	1794
98.00	3925	173.00	756	245.00	1864	373.00	460
99.00	3048	174.10	1039	246.00	2983	382.90	594
100.00	279	175.00	2350	247.00	558	384.00	164
101.00	2339	176.00	546	247.80	194	390.00	261
103.00	445	177.00	1107	249.00	587	401.00	180

104.00	1191	177.90	265	252.00	180	402.00	881
105.00	1115	179.00	4007	252.90	446	403.00	855
106.00	477	180.00	3409	254.00	502	404.00	288
107.00	17064	181.00	1605	255.00	80472	421.00	907
108.00	2648	182.10	222	256.00	12109	422.00	1069
108.90	371	183.90	404	257.00	993	423.00	6900
110.00	29168	185.00	2219	258.00	4393	424.00	1315
111.00	4223	186.00	16359	259.00	694	425.00	169
112.00	544	187.00	4704	259.90	179	441.00	21376
112.90	203	188.00	454	264.90	1409	442.00	146560
116.00	841	189.00	920	265.90	339	443.10	28904
117.00	12274	191.00	469	271.00	183	444.00	2676
118.00	746	192.00	1507	272.00	312	445.00	159
120.00	181	193.00	1771	273.00	2791		
122.00	1142	194.00	421	274.00	5796		
123.00	1672	194.90	228	275.00	31904		
123.90	644	196.00	3226	276.00	4231		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\03.D
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Inj Date : 29-JUN-2023 10:12
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.637	2.637	(1.000)	3374	0.10000	(aM)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	10198	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2346	0.08000	0.07572(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	6091	0.10000	
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	5308	0.08000	0.08522
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	12457	0.10000	
* 182 Chrysene-d12	240	9.341	9.341	(1.000)	8771	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.351	8.351	(0.894)	5308	0.08000	0.08203(M)
* 198 Perylene-d12	264	11.038	11.038	(1.000)	8055	0.10000	(M)
1 1,4-Dioxane	58	1.084	1.084	(0.411)	818	0.08000	0.07145(QM)

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.

01199979

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\03.D

Date : 29-JUN-2023 10:12

Client ID: 14DX-0.08

Instrument: SV6.i

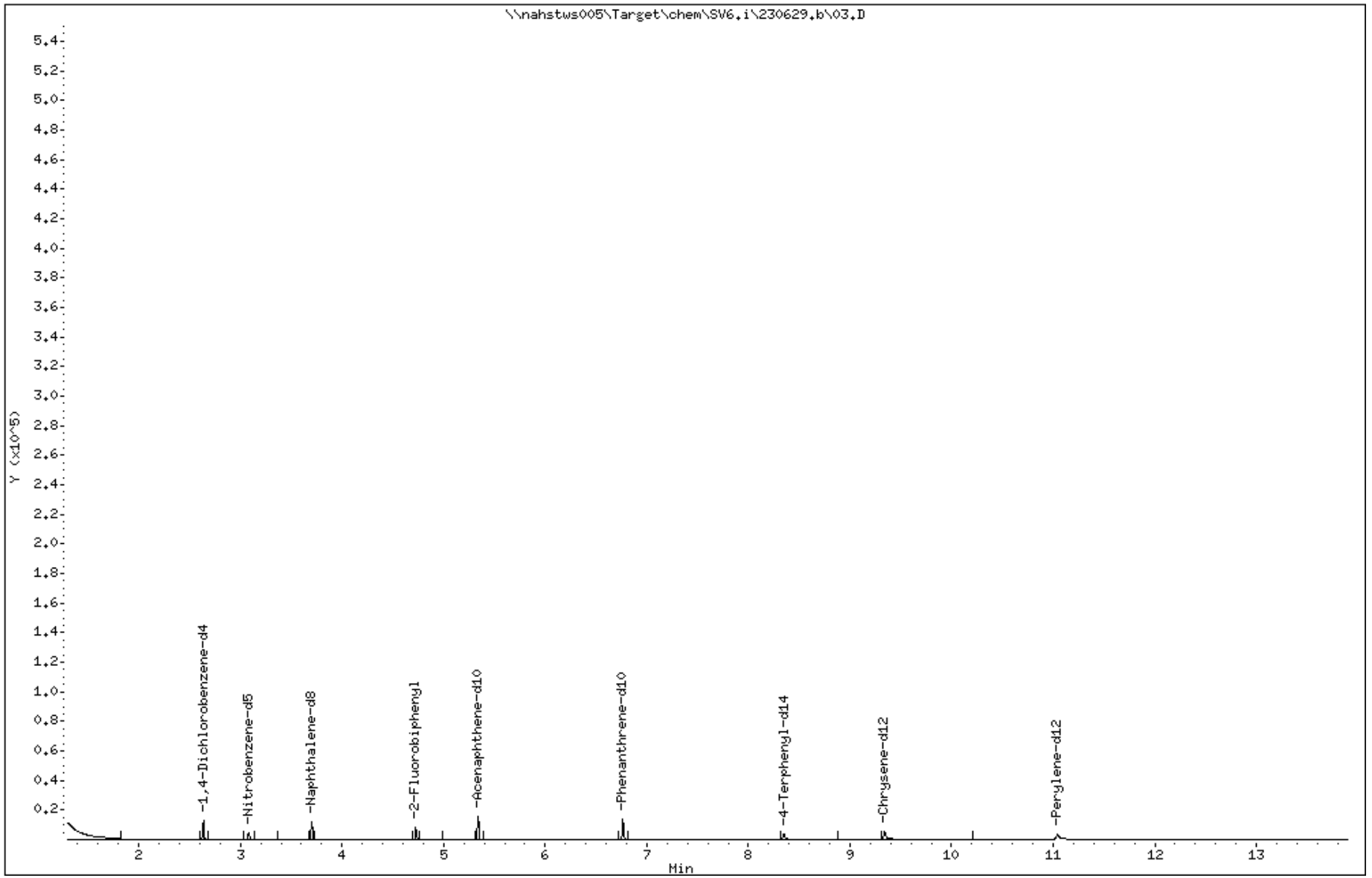
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



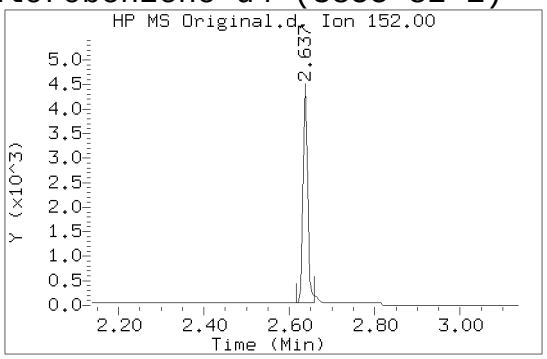
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Inj Date : 29-JUN-2023 10:12
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

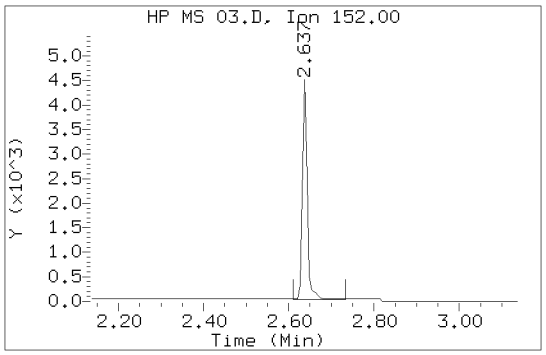
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HEIGHT
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29-Jun-2023
10:27
ALSHS
Server



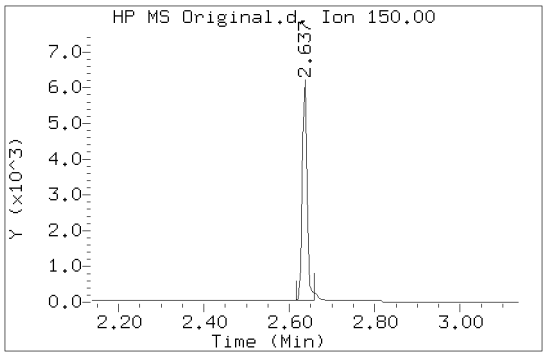
AFTER

MASS
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AREA
3374
HEIGHT
4473
29-Jun-2023
10:30
ALSHS
Se



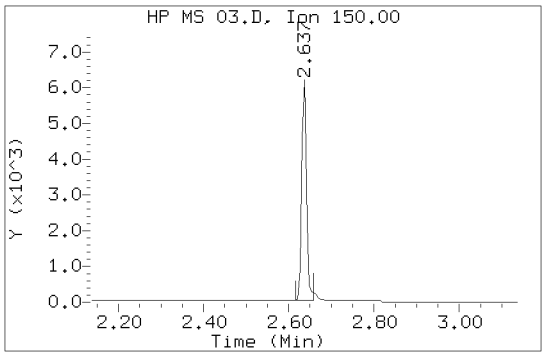
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29-Jun-2023
10:27
ALSHS
Server



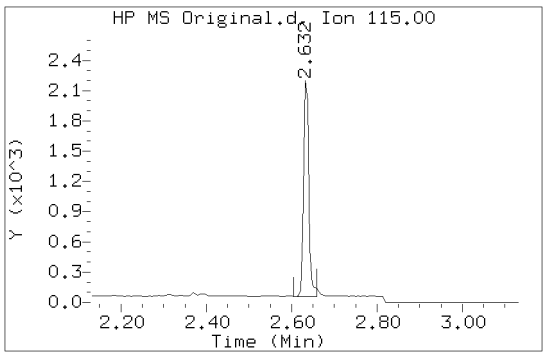
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HEIGHT
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29-Jun-2023
10:30
ALSHS
Se



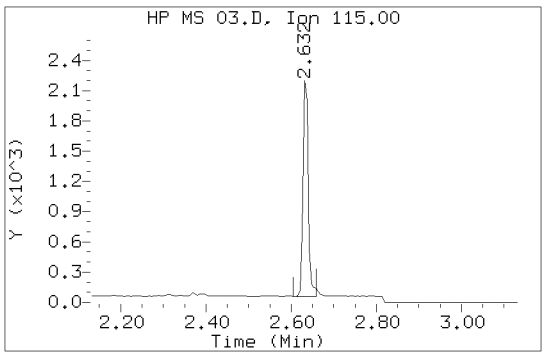
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AREA
1782
HEIGHT
2140
29-Jun-2023
10:27
ALSHS
Server



AFTER

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AREA
1782
HEIGHT
2140
29-Jun-2023
10:30
ALSHS
Se

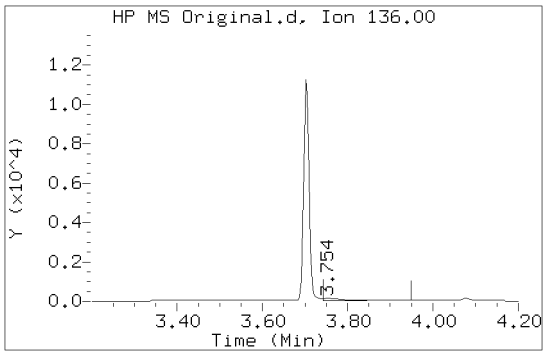


Naphthalene-d8 (1146-65-2)

Reason Code:

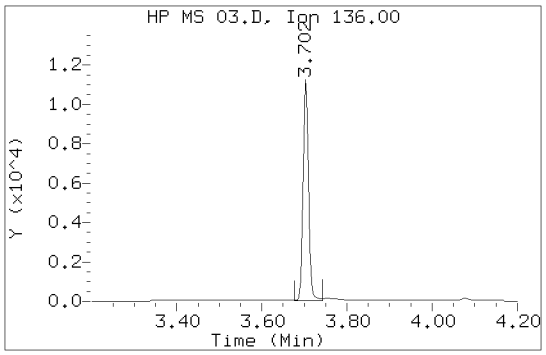
BEFORE

MASS
136
AREA
407
HEIGHT
133
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
136
AREA
10198
HEIGHT
11213
29-Jun-2023
10:30
ALSHS
Se



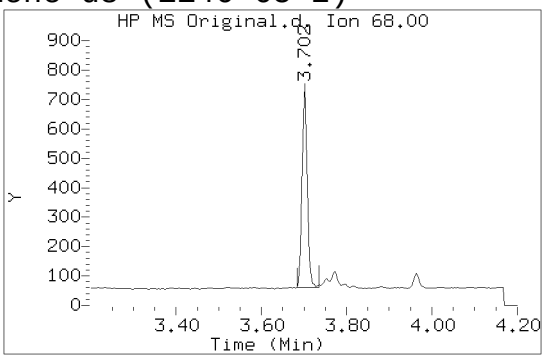
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Inj Date : 29-JUN-2023 10:12
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

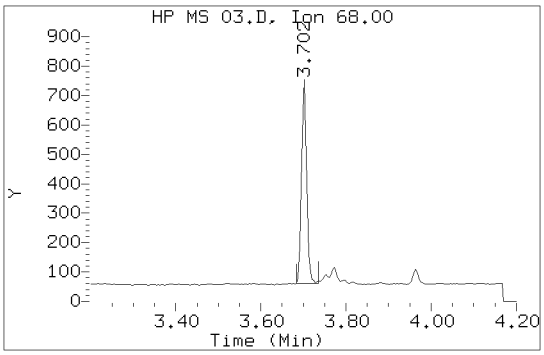
BEFORE

MASS
68
AREA
602
HEIGHT
694
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
68
AREA
602
HEIGHT
694
29-Jun-2023
10:30
ALSHS
Se

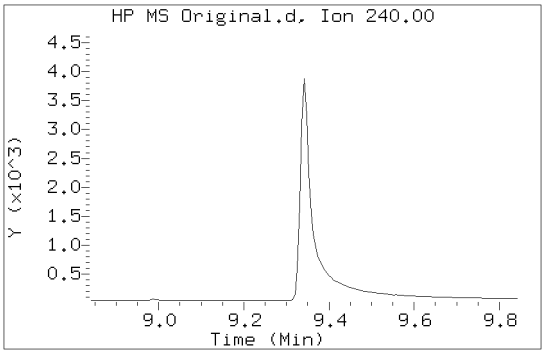


Chrysene-d12 (1719-03-5)

Reason Code:

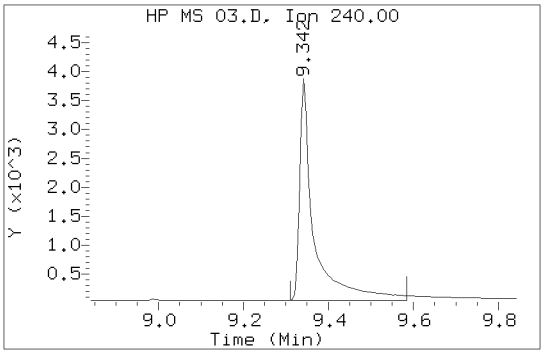
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29-Jun-2023
10:27
ALSHS
Server



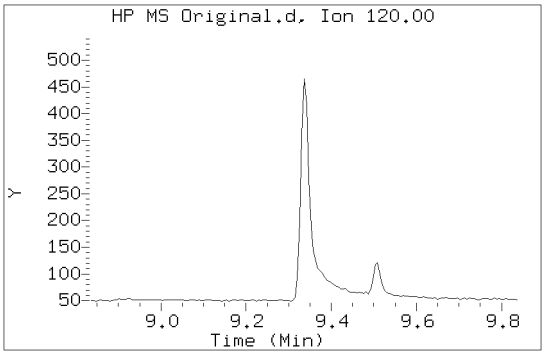
AFTER

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AREA
8771
HEIGHT
3828
29-Jun-2023
10:30
ALSHS
Se



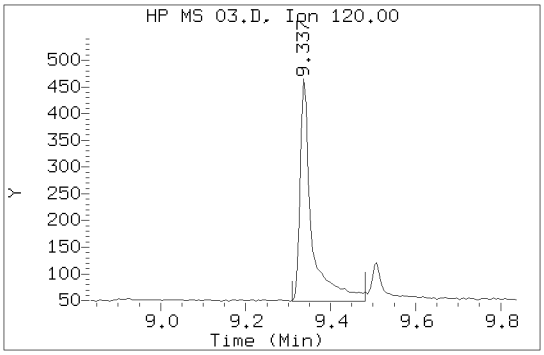
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29-Jun-2023
10:27
ALSHS
Server



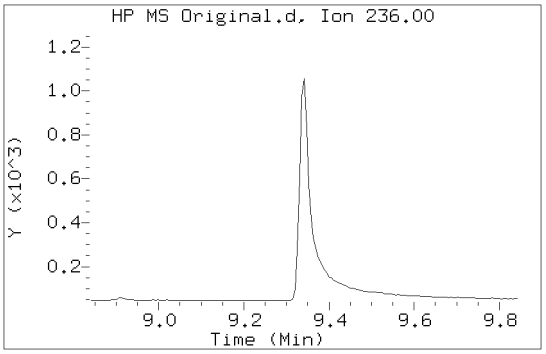
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795
HEIGHT
416
29-Jun-2023
10:30
ALSHS
Se



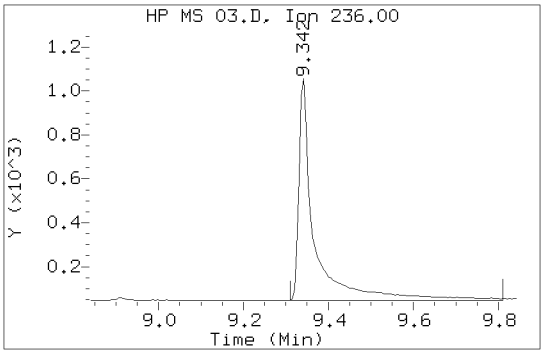
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HEIGHT
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29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
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AREA
2583
HEIGHT
1009
29-Jun-2023
10:30
ALSHS
Se



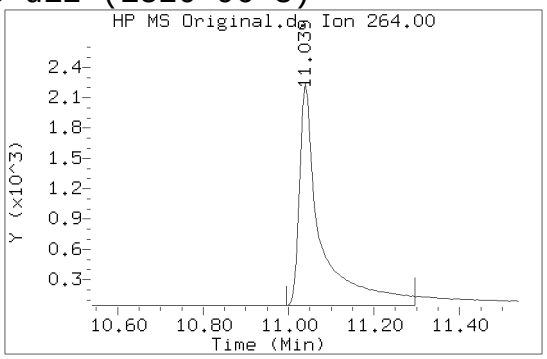
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Inj Date : 29-JUN-2023 10:12
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

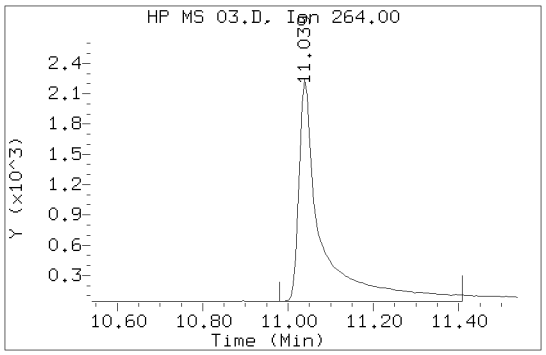
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HEIGHT
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29-Jun-2023
10:27
ALSHS
Server



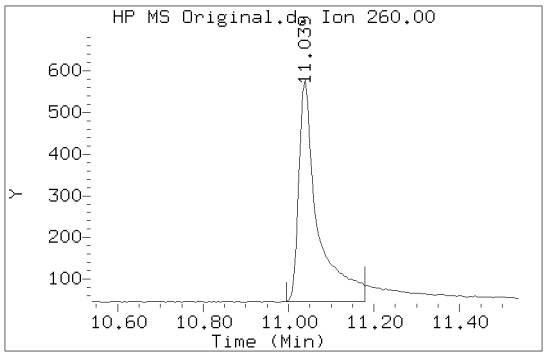
AFTER

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2194
29-Jun-2023
10:30
ALSHS
Se



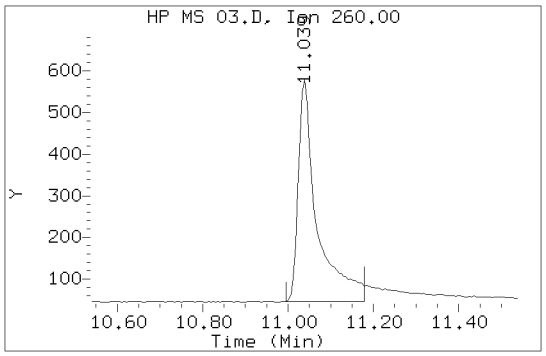
BEFORE

MASS
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AREA
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HEIGHT
532
29-Jun-2023
10:27
ALSHS
Server



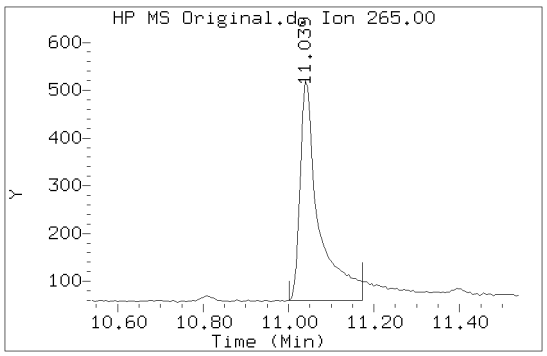
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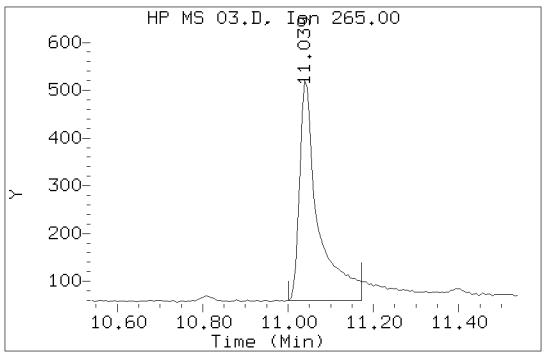
BEFORE

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AFTER

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AREA
1397
HEIGHT
460
29-Jun-2023
10:30
ALSHS
Se

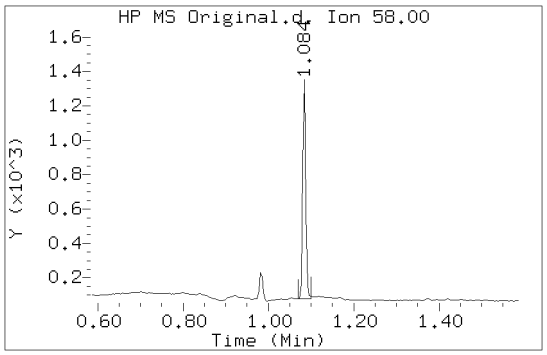


1,4-Dioxane ()

Reason Code:

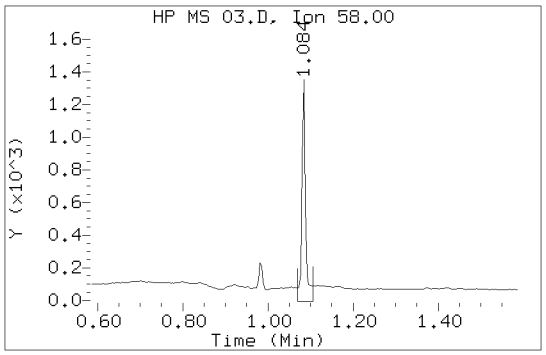
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HEIGHT
1273
29-Jun-2023
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Server



AFTER

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AREA
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1357
29-Jun-2023
10:30
ALSHS
Se



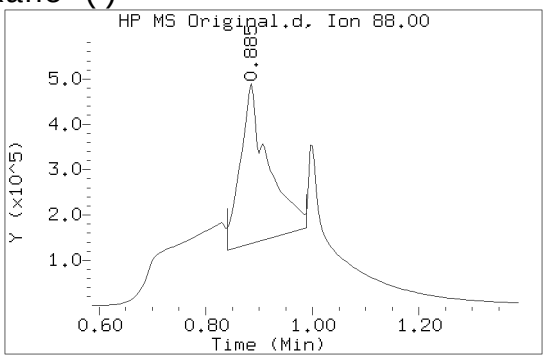
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Inj Date : 29-JUN-2023 10:12
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dioxane ()

Reason Code:

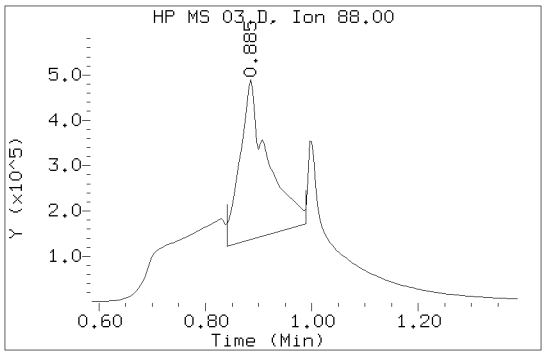
BEFORE

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HEIGHT
352349
29-Jun-2023
10:27
ALSHS
Server



AFTER

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AREA
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352349
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ALSHS
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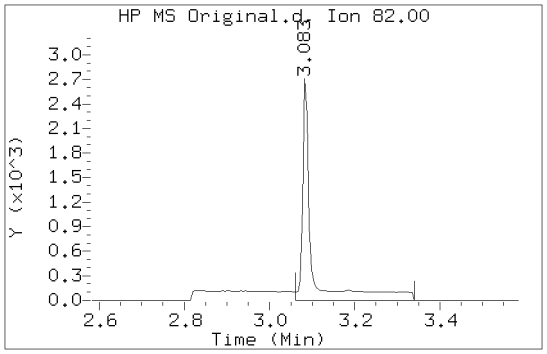


Nitrobenzene-d5 (4165-60-0)

Reason Code:

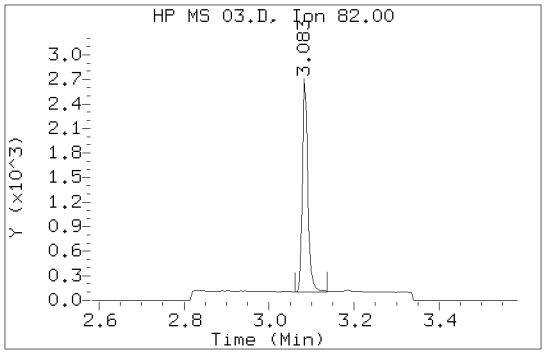
BEFORE

MASS
82
AREA
4092
HEIGHT
2708
29-Jun-2023
10:27
ALSHS
Server



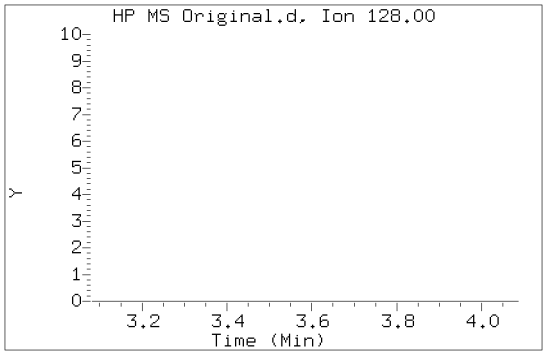
AFTER

MASS
82
AREA
2346
HEIGHT
2605
29-Jun-2023
10:30
ALSHS
Se



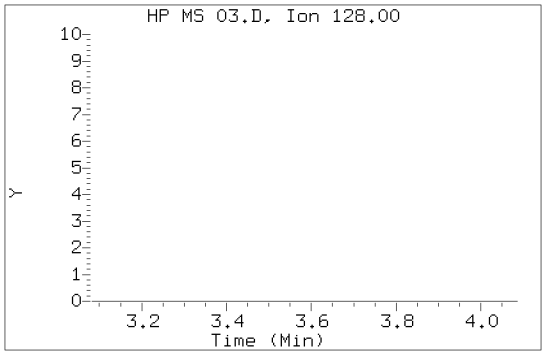
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
10:27
ALSHS
Server



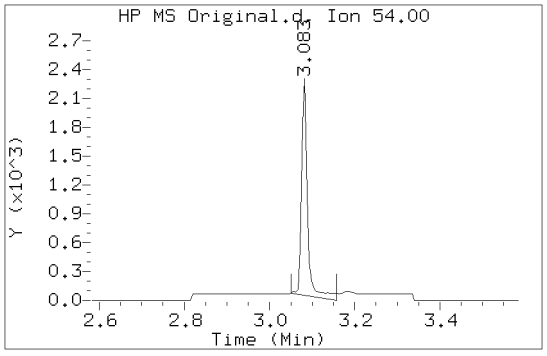
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
10:30
ALSHS
Se



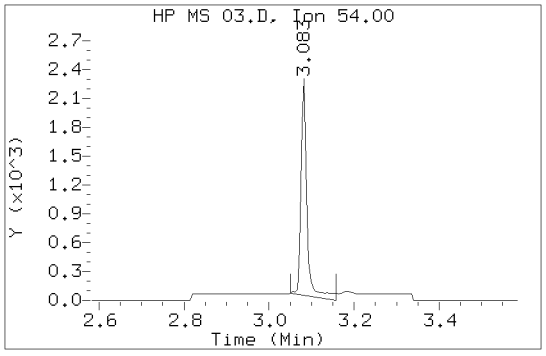
BEFORE

MASS
54
AREA
2223
HEIGHT
2256
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
54
AREA
2223
HEIGHT
2256
29-Jun-2023
10:30
ALSHS
Se



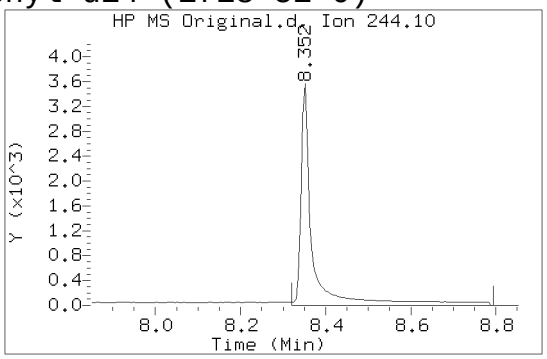
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Inj Date : 29-JUN-2023 10:12
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

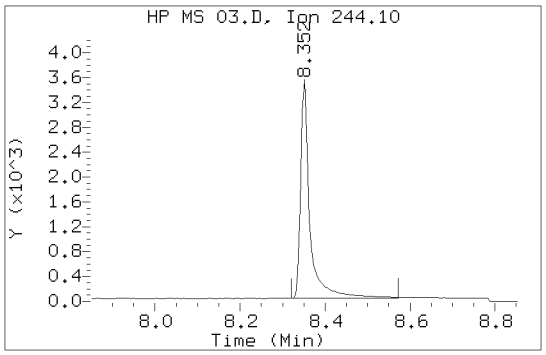
BEFORE

MASS
244.1
AREA
6789
HEIGHT
3567
29-Jun-2023
10:27
ALSHS
Server



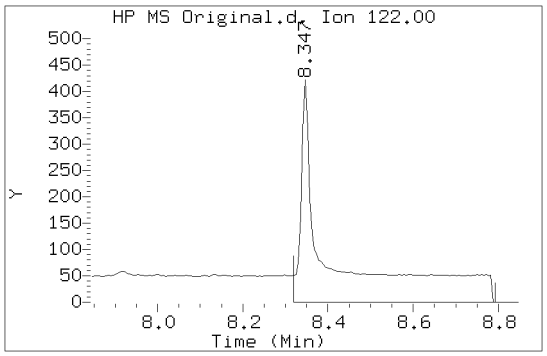
AFTER

MASS
244.1
AREA
5308
HEIGHT
3518
29-Jun-2023
10:30
ALSHS
Se



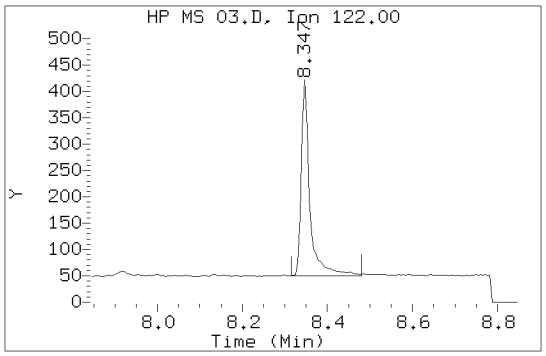
BEFORE

MASS
122
AREA
1944
HEIGHT
422
29-Jun-2023
10:27
ALSHS
Server



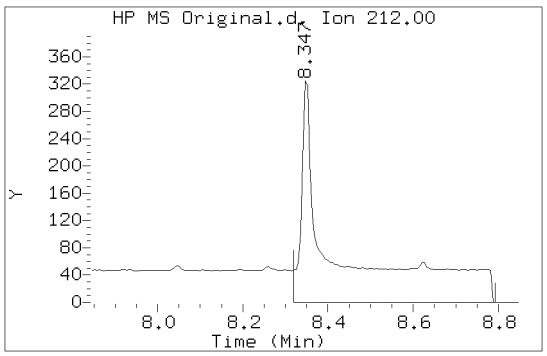
AFTER

MASS
122
AREA
516
HEIGHT
372
29-Jun-2023
10:30
ALSHS
Se



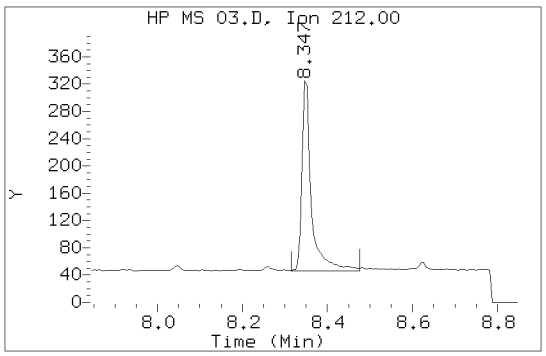
BEFORE

MASS
212
AREA
1776
HEIGHT
325
29-Jun-2023
10:27
ALSHS
Server



AFTER

MASS
212
AREA
429
HEIGHT
279
29-Jun-2023
10:30
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\06.D
Lab Smp Id: MBLK-196799 Client Smp ID: MBLK-196799
Inj Date : 29-JUN-2023 11:25
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-196799
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.642	2.637	(1.000)	3138	0.10000	(a)
* 45 Naphthalene-d8	136	3.701	3.702	(1.000)	9866	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.087	3.082	(0.834)	2753	0.09184	0.09184(M)
* 86 Acenaphthene-d10	164	5.341	5.342	(1.000)	6513	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	6190	0.09294	0.09294(M)
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	11177	0.10000	
* 182 Chrysene-d12	240	9.341	9.341	(1.000)	9625	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.893)	6428	0.09052	0.09052(M)
* 198 Perylene-d12	264	11.038	11.038	(1.000)	6541	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01199986

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\06.D

Date : 29-JUN-2023 11:25

Client ID: MBLK-196799

Instrument: SV6.i

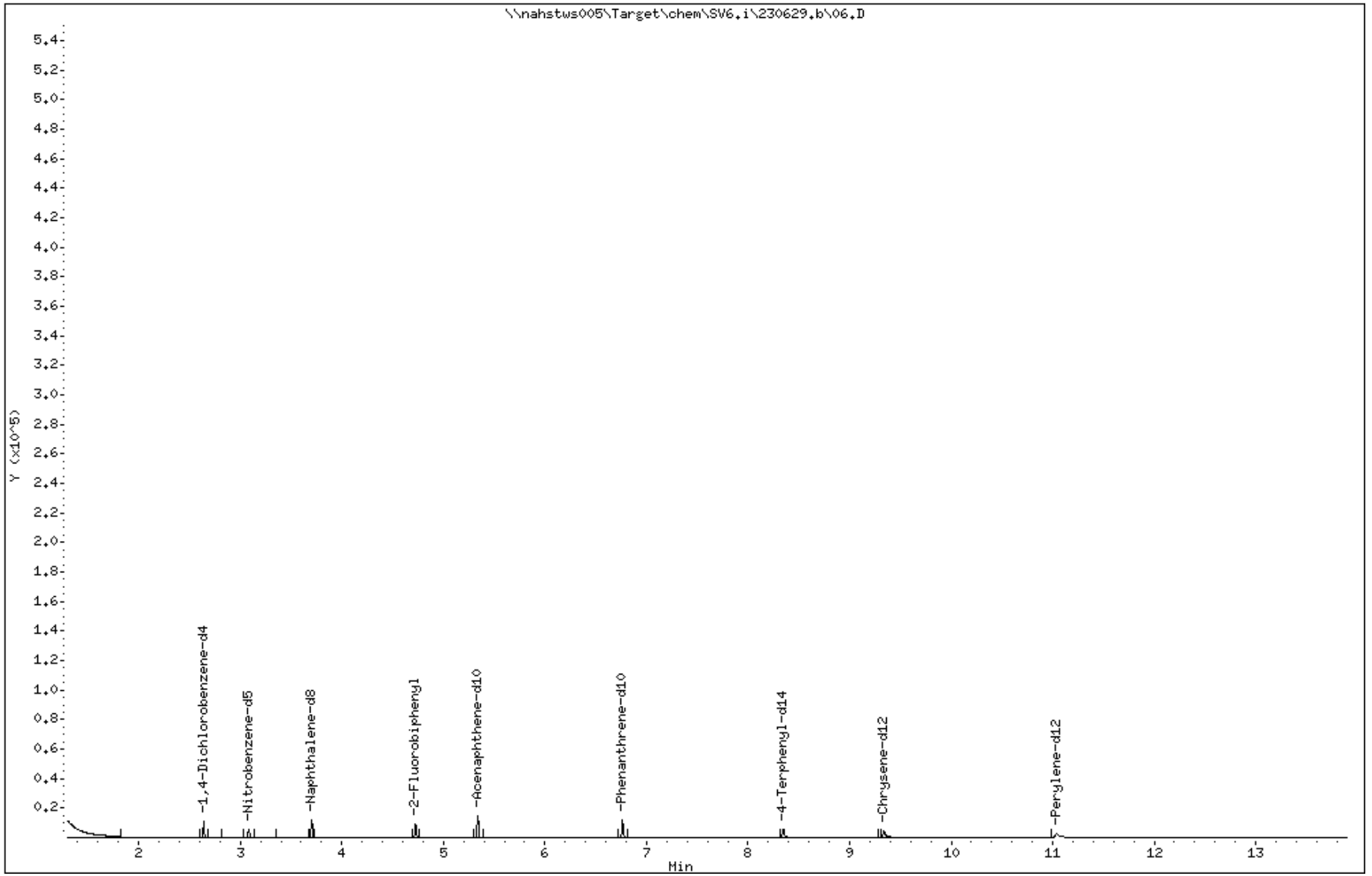
Sample Info: MBLK-196799

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



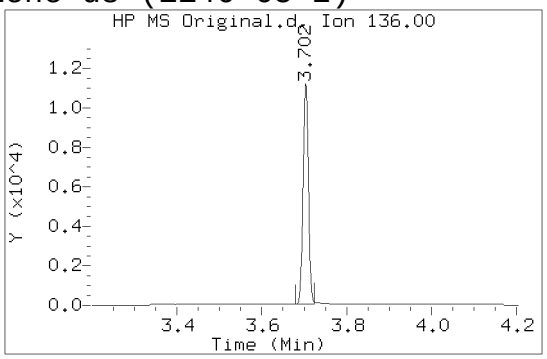
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\06.D
Inj Date : 29-JUN-2023 11:25
InstruID : SV6.i
LabSampID : MBLK-196799

Naphthalene-d8 (1146-65-2)

Reason Code:

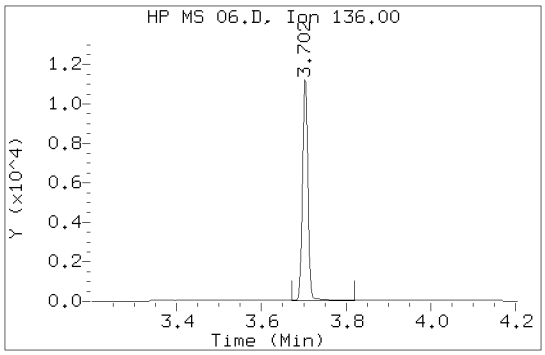
BEFORE

MASS
136
AREA
9610
HEIGHT
11179
29-Jun-2023
12:01
ALSHS
Server



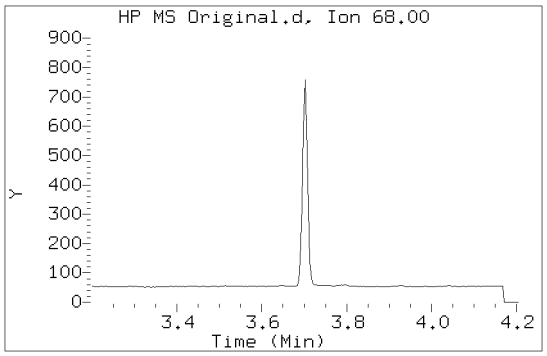
AFTER

MASS
136
AREA
9866
HEIGHT
11187
29-Jun-2023
12:09
ALSHS
Se



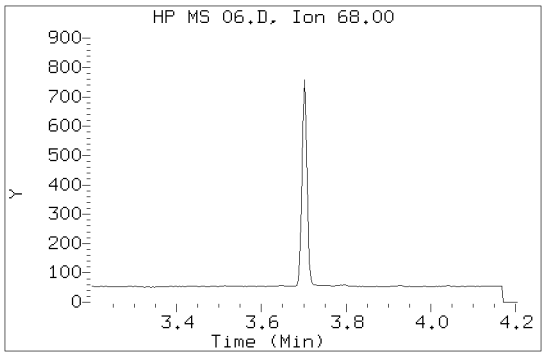
BEFORE

MASS
68
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
68
AREA
0
HEIGHT
0
29-Jun-2023
12:09
ALSHS
Se

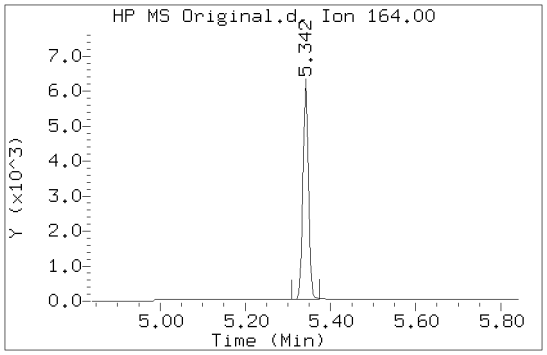


Acenaphthene-d10 (15067-26-2)

Reason Code:

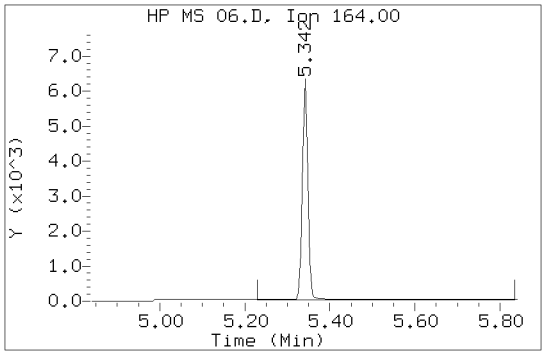
BEFORE

MASS
164
AREA
5655
HEIGHT
6298
29-Jun-2023
12:01
ALSHS
Server



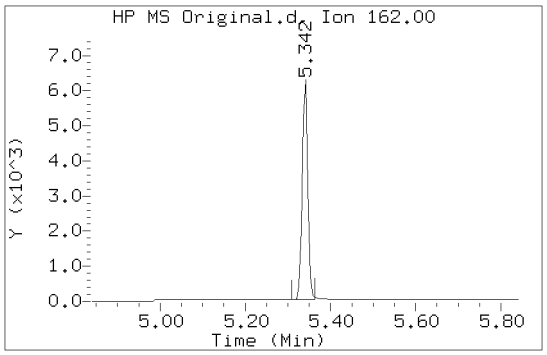
AFTER

MASS
164
AREA
6513
HEIGHT
6321
29-Jun-2023
12:09
ALSHS
Se



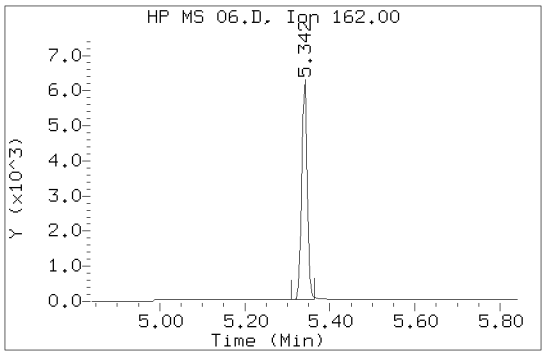
BEFORE

MASS
162
AREA
5741
HEIGHT
6263
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
162
AREA
5741
HEIGHT
6263
29-Jun-2023
12:09
ALSHS
Se



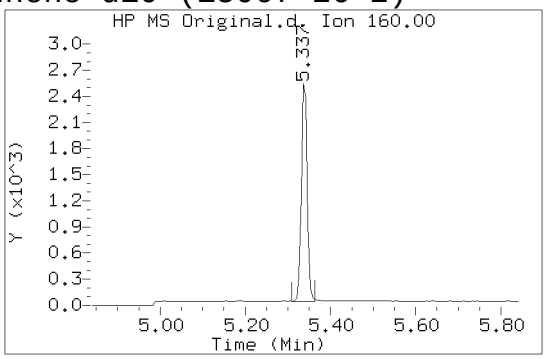
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Inj Date : 29-JUN-2023 11:25
InstruID : SV6.i
LabSampID : MBLK-196799

Acenaphthene-d10 (15067-26-2)

Reason Code:

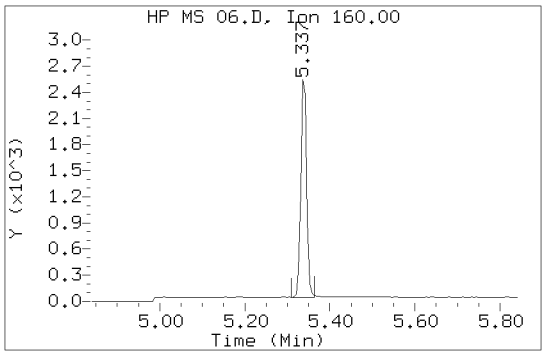
BEFORE

MASS
160
AREA
2405
HEIGHT
2499
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
160
AREA
2405
HEIGHT
2499
29-Jun-2023
12:09
ALSHS
Se

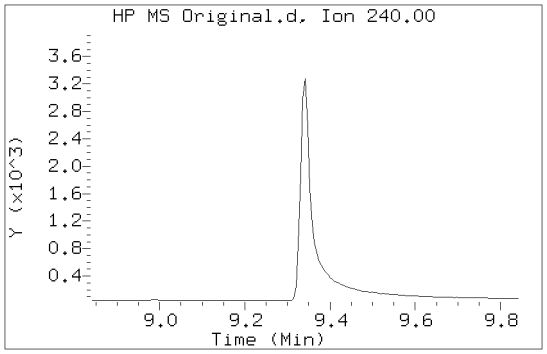


Chrysene-d12 (1719-03-5)

Reason Code:

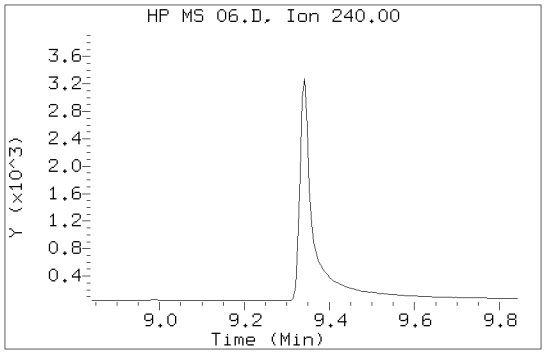
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



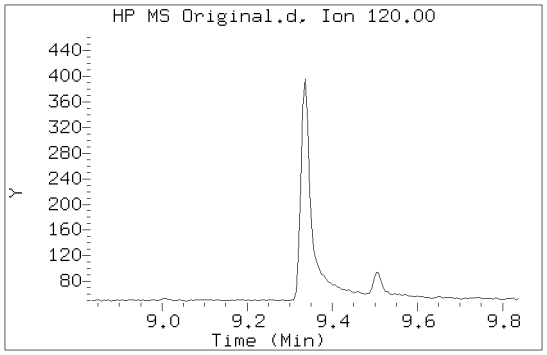
AFTER

MASS
240
AREA
9625
HEIGHT
3250
29-Jun-2023
12:09
ALSHS
Se



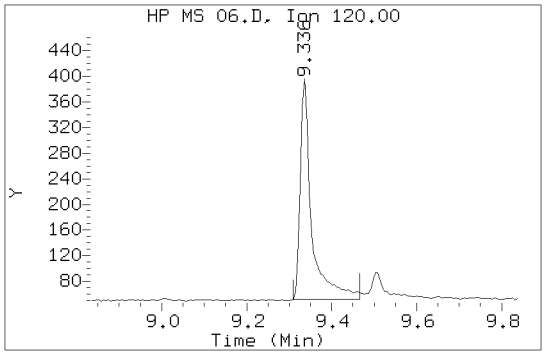
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



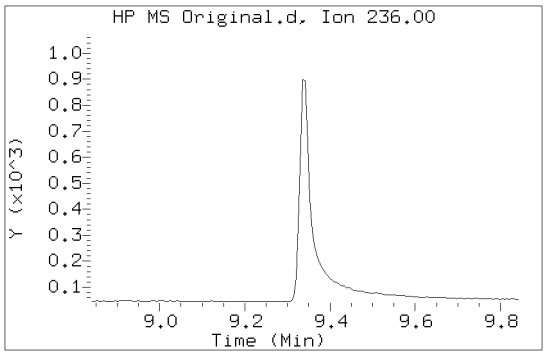
AFTER

MASS
120
AREA
637
HEIGHT
344
29-Jun-2023
12:09
ALSHS
Se



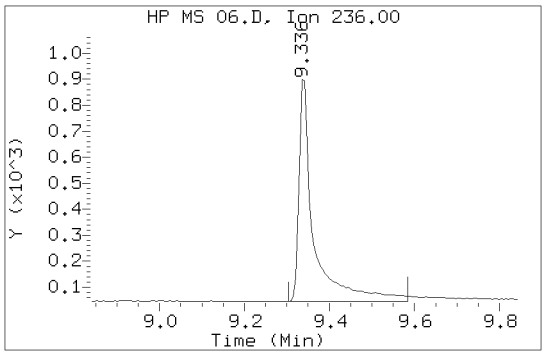
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
236
AREA
2054
HEIGHT
852
29-Jun-2023
12:09
ALSHS
Se



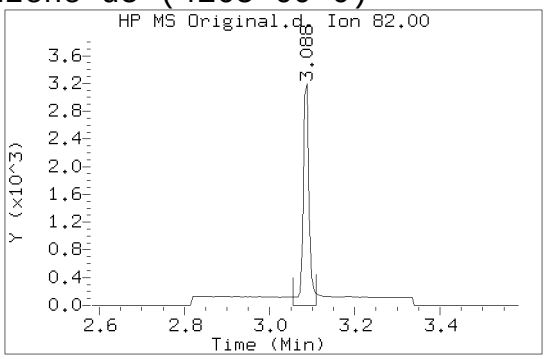
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\06.D
Inj Date : 29-JUN-2023 11:25
InstruID : SV6.i
LabSampID : MBLK-196799

Nitrobenzene-d5 (4165-60-0)

Reason Code:

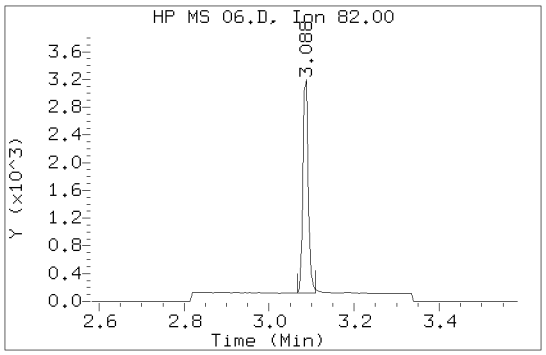
BEFORE

MASS
82
AREA
3181
HEIGHT
3197
29-Jun-2023
12:01
ALSHS
Server



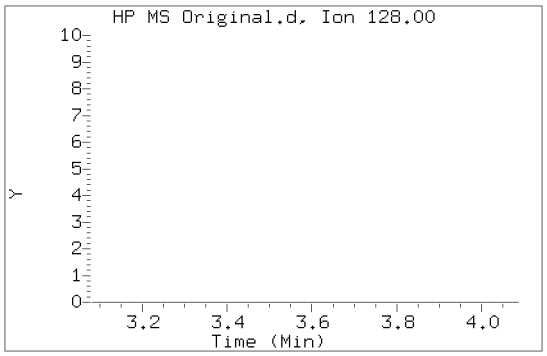
AFTER

MASS
82
AREA
2753
HEIGHT
3076
29-Jun-2023
12:09
ALSHS
Se



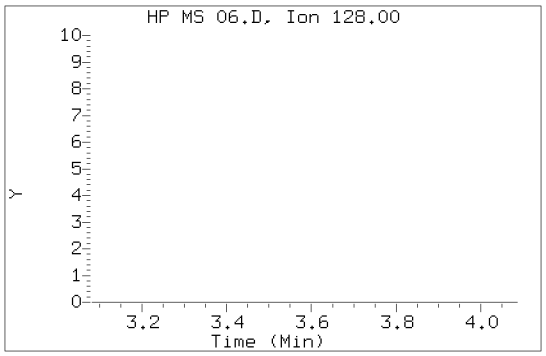
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server



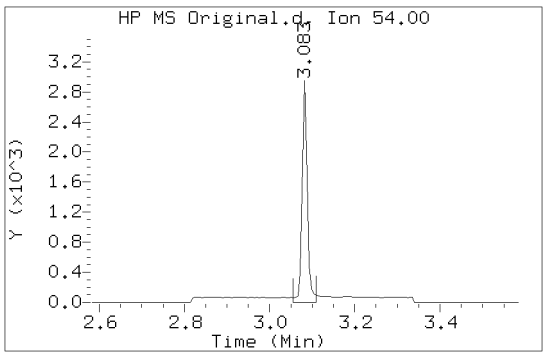
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
12:09
ALSHS
Se



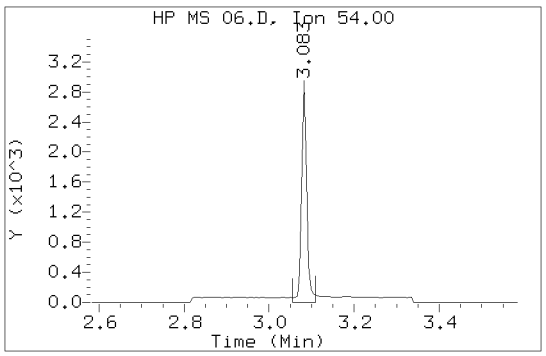
BEFORE

MASS
54
AREA
2558
HEIGHT
2949
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
54
AREA
2558
HEIGHT
2949
29-Jun-2023
12:09
ALSHS
Se

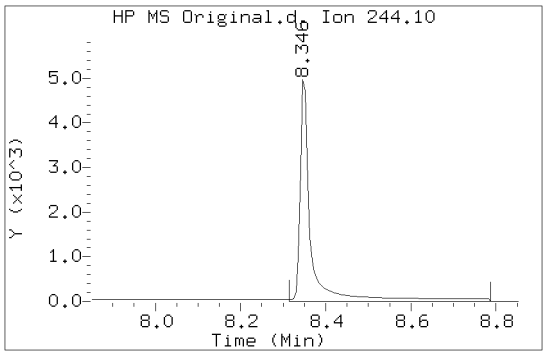


4-Terphenyl-d14 (1718-51-0)

Reason Code:

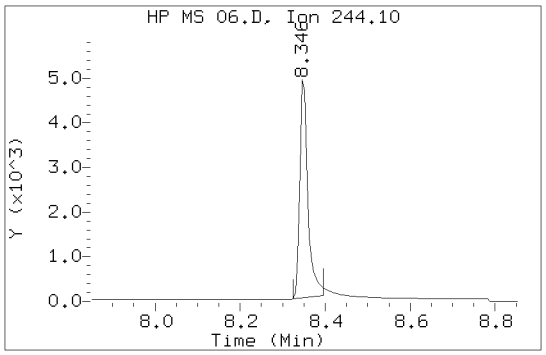
BEFORE

MASS
244.1
AREA
8900
HEIGHT
4966
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
244.1
AREA
6428
HEIGHT
4887
29-Jun-2023
12:09
ALSHS
Se



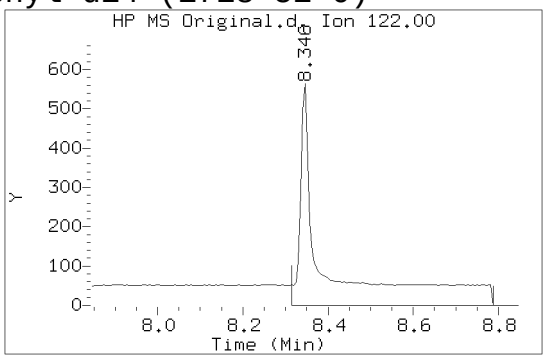
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\06.D
Inj Date : 29-JUN-2023 11:25
InstruID : SV6.i
LabSampID : MBLK-196799

4-Terphenyl-d14 (1718-51-0)

Reason Code:

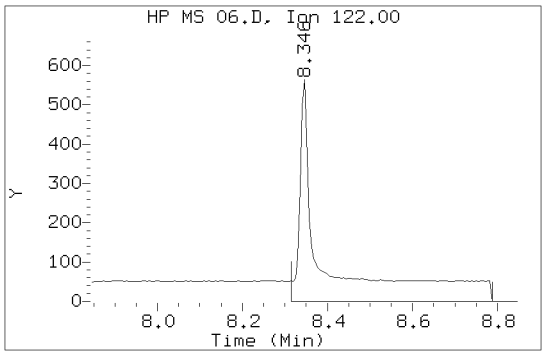
BEFORE

MASS
122
AREA
2174
HEIGHT
564
29-Jun-2023
12:01
ALSHS
Server



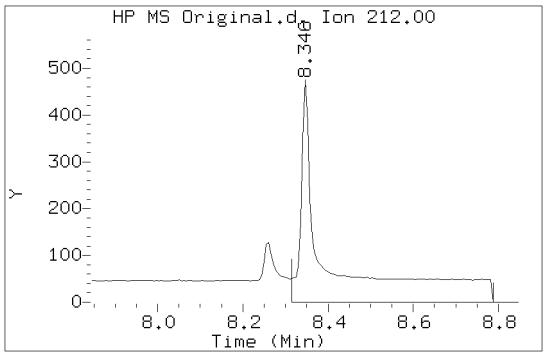
AFTER

MASS
122
AREA
2174
HEIGHT
564
29-Jun-2023
12:09
ALSHS
Se



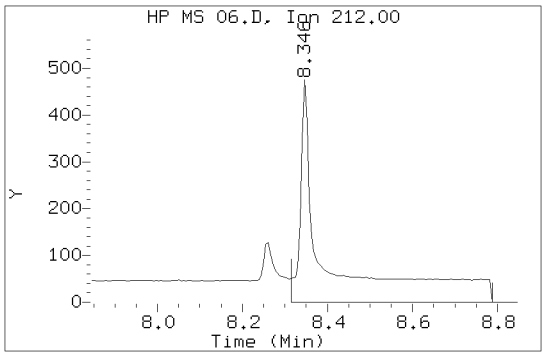
BEFORE

MASS
212
AREA
1974
HEIGHT
475
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
212
AREA
1974
HEIGHT
475
29-Jun-2023
12:09
ALSHS
Se

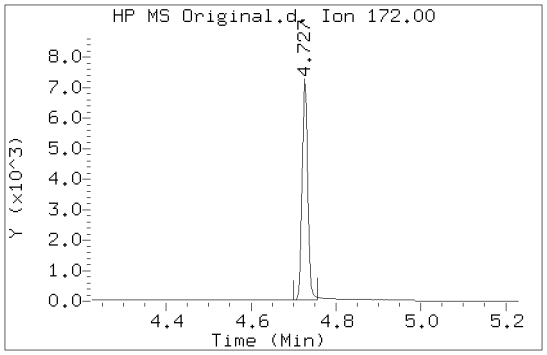


2-Fluorobiphenyl (321-60-8)

Reason Code:

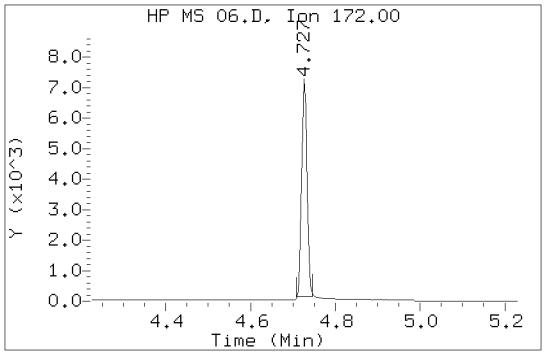
BEFORE

MASS
172
AREA
6528
HEIGHT
7237
29-Jun-2023
12:01
ALSHS
Server



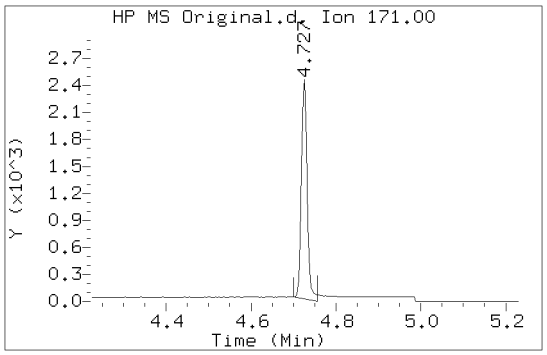
AFTER

MASS
172
AREA
6190
HEIGHT
7128
29-Jun-2023
12:09
ALSHS
Se



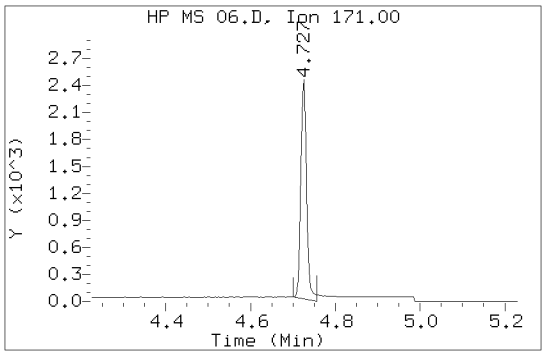
BEFORE

MASS
171
AREA
2305
HEIGHT
2439
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
171
AREA
2305
HEIGHT
2439
29-Jun-2023
12:09
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\07.D Page 1
Report Date: 29-Jun-2023 12:10

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Lab Smp Id: LCS1-196799 Client Smp ID: LCS1-196799
Inj Date : 29-JUN-2023 11:43
Operator : LG Inst ID: SV6.i
Smp Info : LCS1-196799
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

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	2.637	2.637	(1.000)	2525	0.10000	(aM)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	8855	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2444	0.09084	0.09084(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	6710	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	6155	0.08970	0.08970
* 126 Phenanthrene-d10	188	6.759	6.765	(1.000)	8887	0.10000	
* 182 Chrysene-d12	240	9.336	9.341	(1.000)	9266	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.894)	6192	0.09058	0.09058(M)
* 198 Perylene-d12	264	11.039	11.038	(1.000)	5389	0.10000	
1 1,4-Dioxane	58	1.084	1.084	(0.411)	618	0.07213	0.07213(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.

01199992

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\07.D

Date : 29-JUN-2023 11:43

Client ID: LCS1-196799

Instrument: SV6.i

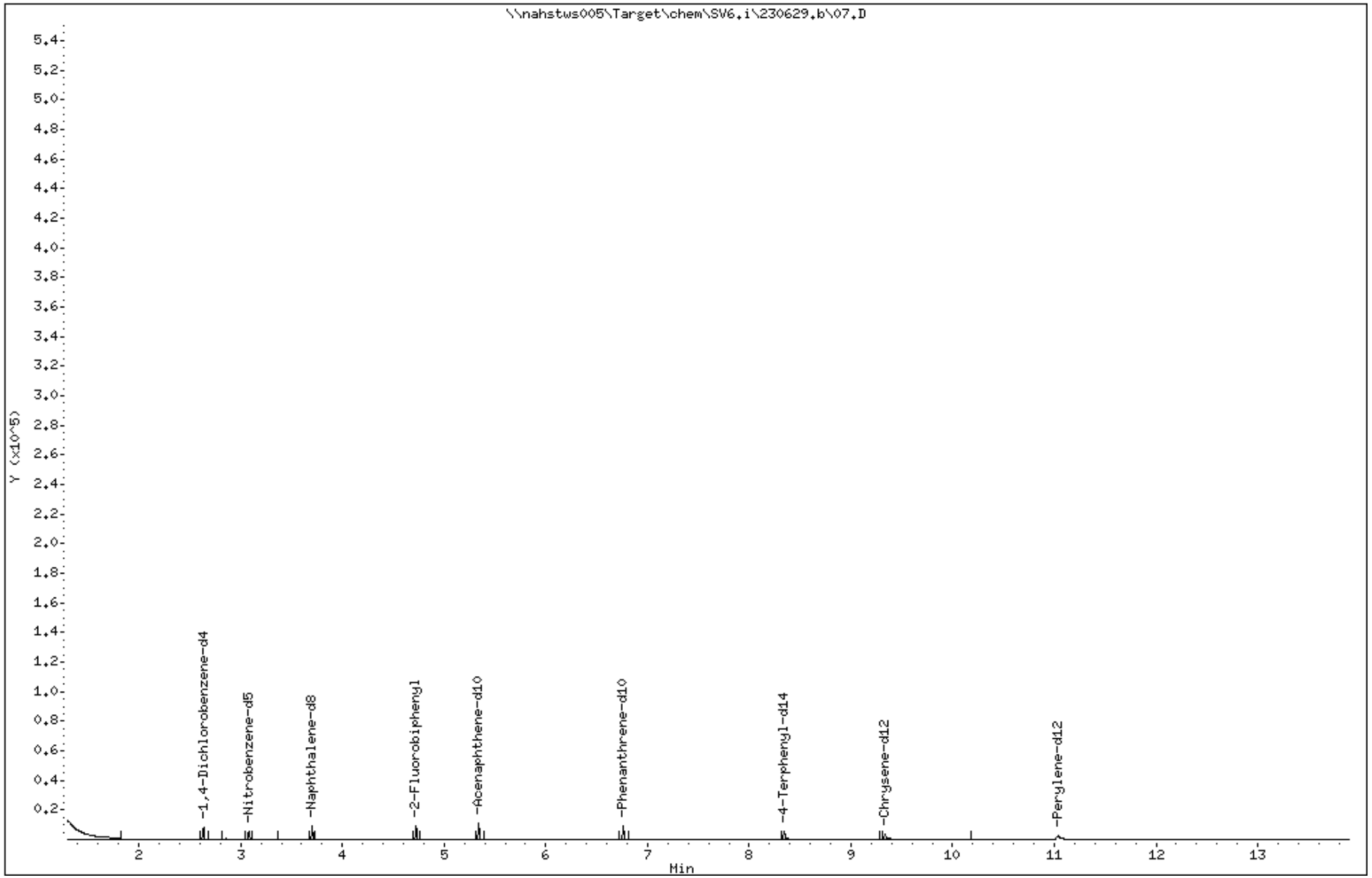
Sample Info: LCS1-196799

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



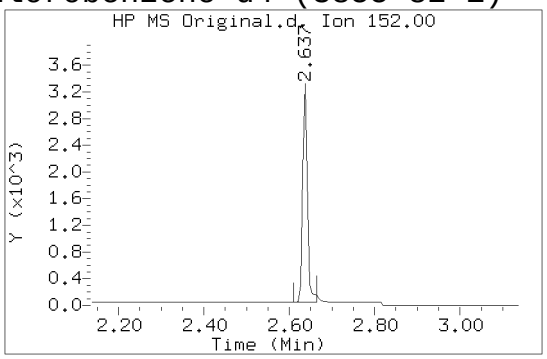
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Inj Date : 29-JUN-2023 11:43
InstruID : SV6.i
LabSampID : LCS1-196799

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

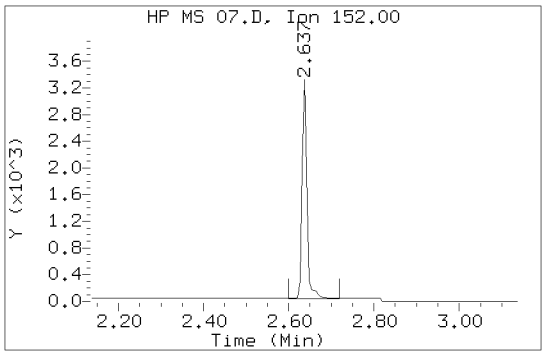
BEFORE

MASS
152
AREA
2435
HEIGHT
3277
29-Jun-2023
12:01
ALSHS
Server



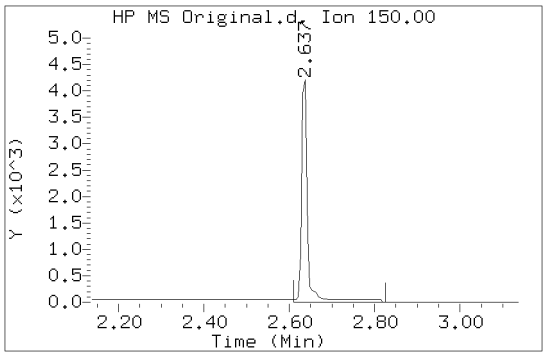
AFTER

MASS
152
AREA
2525
HEIGHT
3284
29-Jun-2023
12:10
ALSHS
Se



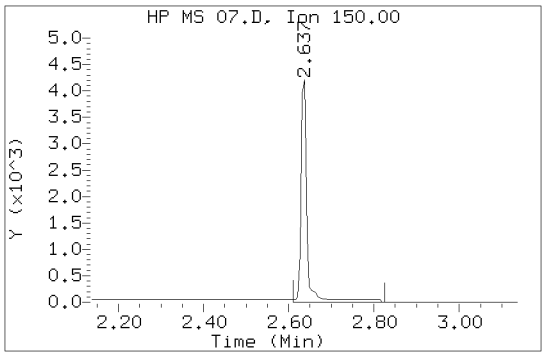
BEFORE

MASS
150
AREA
4160
HEIGHT
4208
29-Jun-2023
12:01
ALSHS
Server



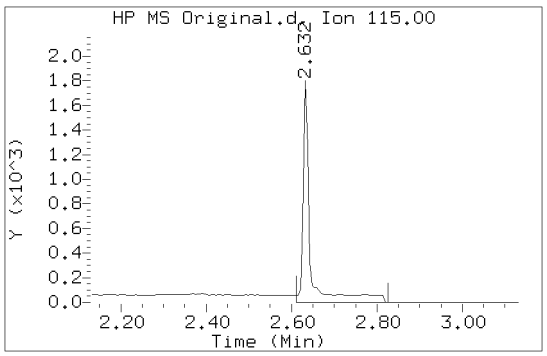
AFTER

MASS
150
AREA
4160
HEIGHT
4208
29-Jun-2023
12:10
ALSHS
Se



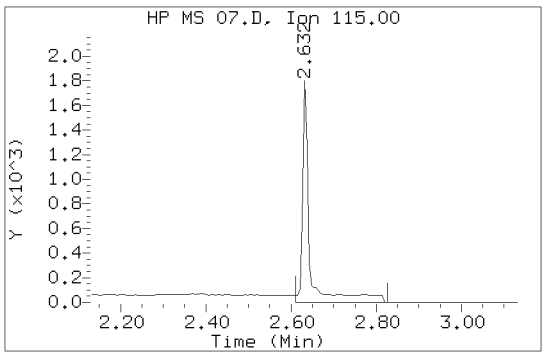
BEFORE

MASS
115
AREA
2060
HEIGHT
1801
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
115
AREA
2060
HEIGHT
1801
29-Jun-2023
12:10
ALSHS
Se

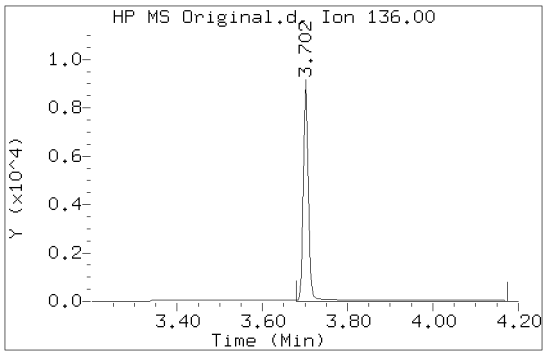


Naphthalene-d8 (1146-65-2)

Reason Code:

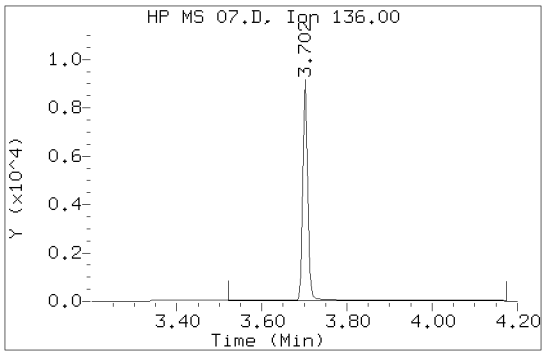
BEFORE

MASS
136
AREA
9136
HEIGHT
9167
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
136
AREA
8855
HEIGHT
9148
29-Jun-2023
12:10
ALSHS
Se



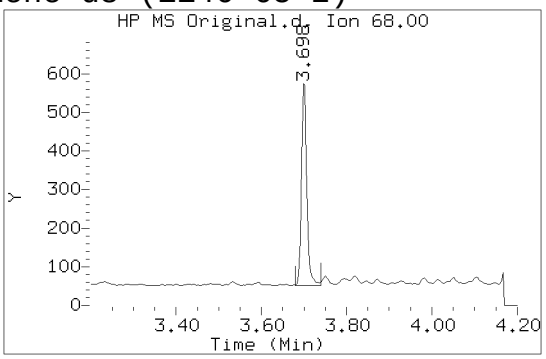
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Inj Date : 29-JUN-2023 11:43
InstruID : SV6.i
LabSampID : LCS1-196799

Naphthalene-d8 (1146-65-2)

Reason Code:

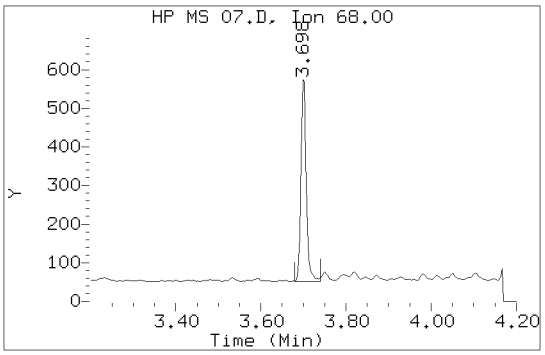
BEFORE

MASS
68
AREA
467
HEIGHT
522
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
68
AREA
467
HEIGHT
522
29-Jun-2023
12:10
ALSHS
Se

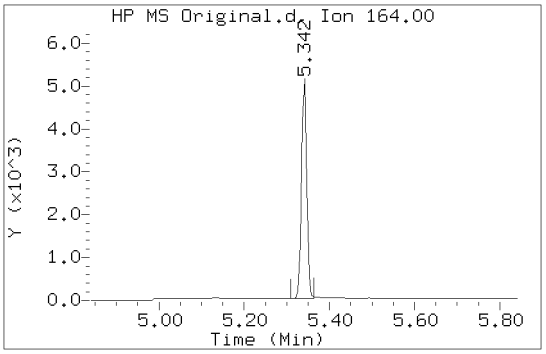


Acenaphthene-d10 (15067-26-2)

Reason Code:

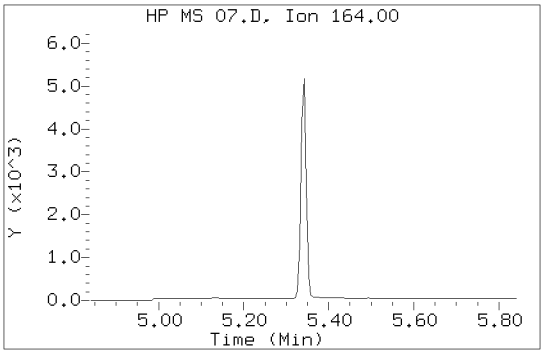
BEFORE

MASS
164
AREA
4468
HEIGHT
5123
29-Jun-2023
12:01
ALSHS
Server



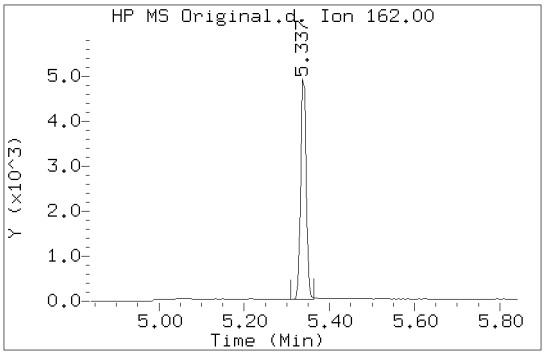
AFTER

MASS
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AREA
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HEIGHT
5159
29-Jun-2023
12:10
ALSHS
Se



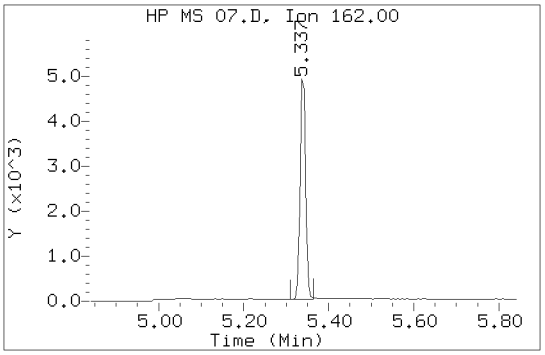
BEFORE

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AREA
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HEIGHT
4886
29-Jun-2023
12:01
ALSHS
Server



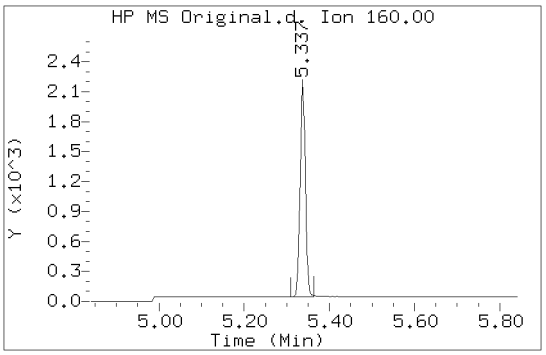
AFTER

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4523
HEIGHT
4886
29-Jun-2023
12:10
ALSHS
Se



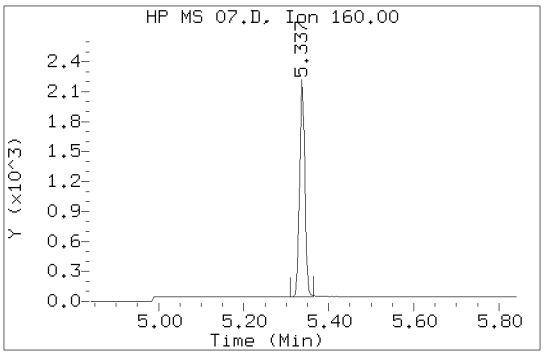
BEFORE

MASS
160
AREA
1879
HEIGHT
2174
29-Jun-2023
12:01
ALSHS
Server



AFTER

MASS
160
AREA
1879
HEIGHT
2174
29-Jun-2023
12:10
ALSHS
Se

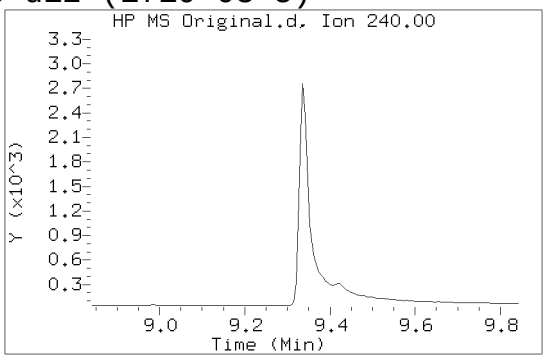


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Inj Date : 29-JUN-2023 11:43
InstruID : SV6.i
LabSampID : LCS1-196799

Chrysene-d12 (1719-03-5)

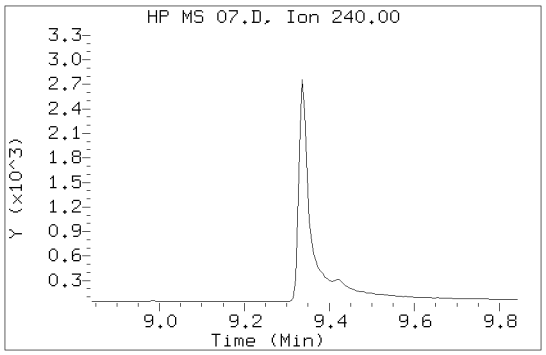
Reason Code:

BEFORE



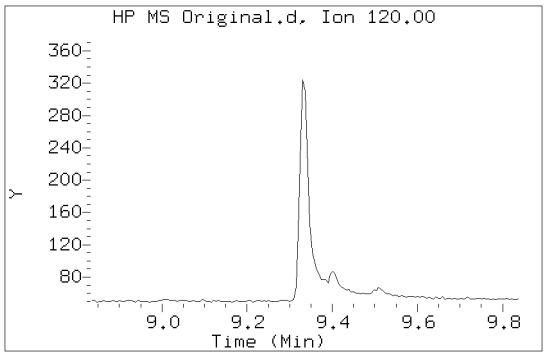
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HEIGHT
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29-Jun-2023
12:01
ALSHS
Server

AFTER



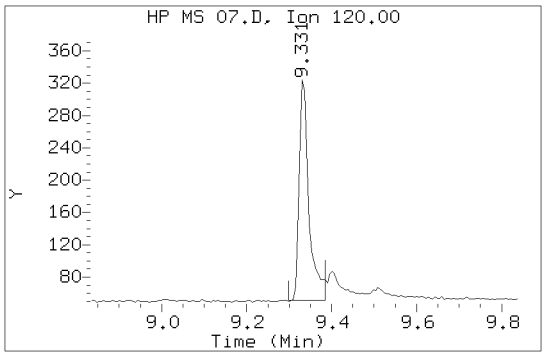
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AREA
9266
HEIGHT
2745
29-Jun-2023
12:10
ALSHS
Se

BEFORE



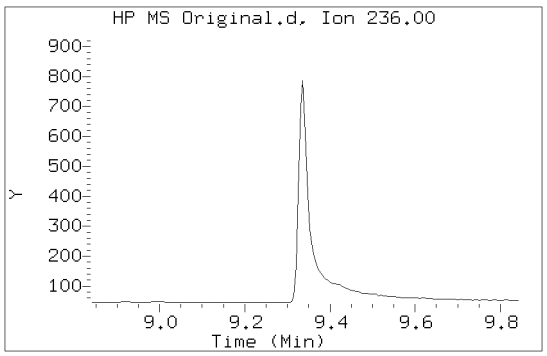
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AREA
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HEIGHT
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29-Jun-2023
12:01
ALSHS
Server

AFTER



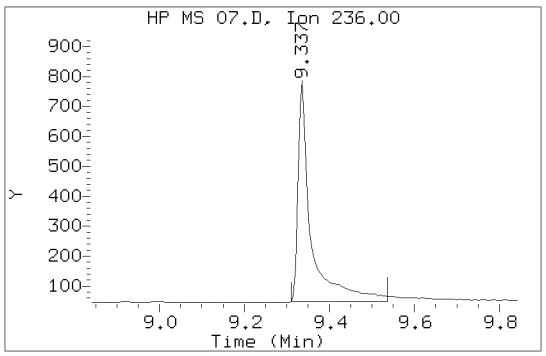
MASS
120
AREA
436
HEIGHT
273
29-Jun-2023
12:10
ALSHS
Se

BEFORE



MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server

AFTER

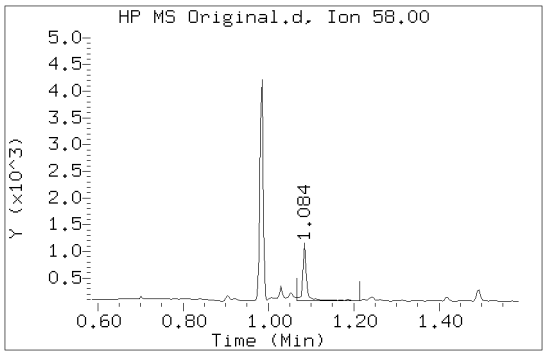


MASS
236
AREA
1574
HEIGHT
738
29-Jun-2023
12:10
ALSHS
Se

1,4-Dioxane ()

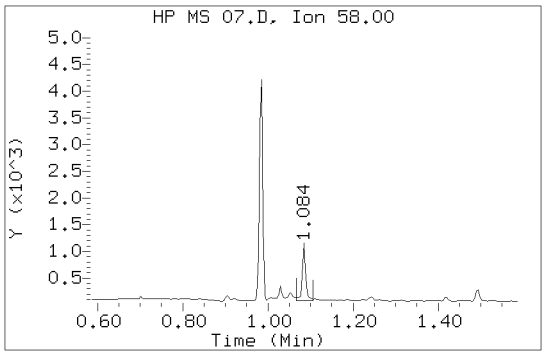
Reason Code:

BEFORE



MASS
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AREA
711
HEIGHT
1090
29-Jun-2023
12:01
ALSHS
Server

AFTER



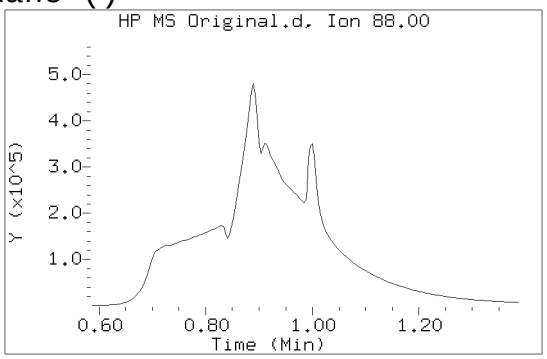
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AREA
618
HEIGHT
1090
29-Jun-2023
12:10
ALSHS
Se

Data File : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Inj Date : 29-JUN-2023 11:43
InstruID : SV6.i
LabSampID : LCS1-196799

1,4-Dioxane ()

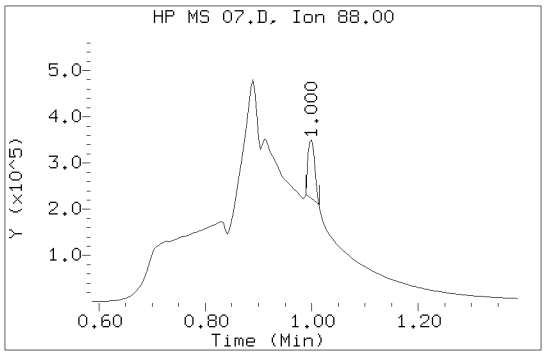
Reason Code:

BEFORE



MASS
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AREA
1586903
HEIGHT
348266
29-Jun-2023
12:01
ALSHS
Server

AFTER

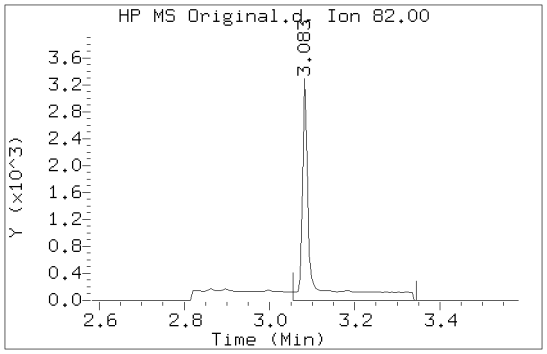


MASS
88
AREA
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HEIGHT
127161
29-Jun-2023
12:10
ALSHS
Se

Nitrobenzene-d5 (4165-60-0)

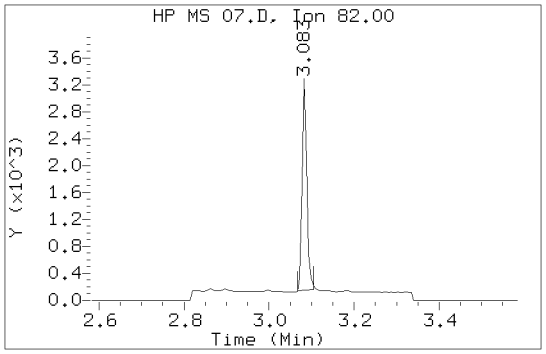
Reason Code:

BEFORE



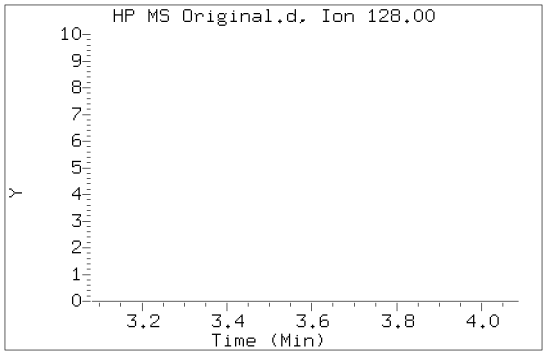
MASS
82
AREA
4664
HEIGHT
3293
29-Jun-2023
12:01
ALSHS
Server

AFTER



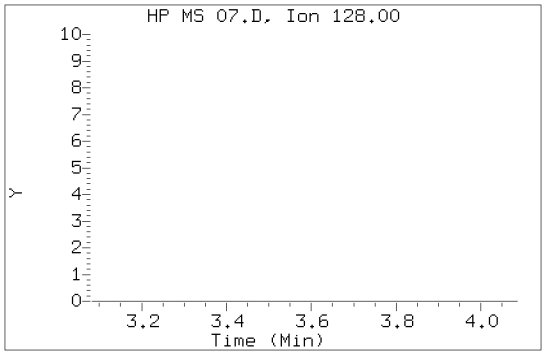
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82
AREA
2444
HEIGHT
3143
29-Jun-2023
12:10
ALSHS
Se

BEFORE



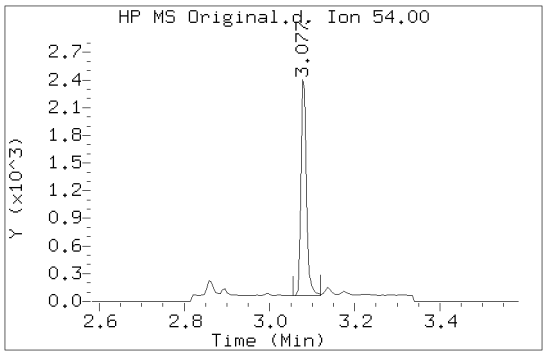
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128
AREA
0
HEIGHT
0
29-Jun-2023
12:01
ALSHS
Server

AFTER



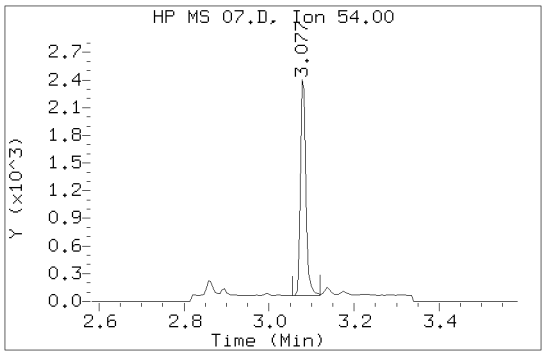
MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
12:10
ALSHS
Se

BEFORE



MASS
54
AREA
2115
HEIGHT
2339
29-Jun-2023
12:01
ALSHS
Server

AFTER



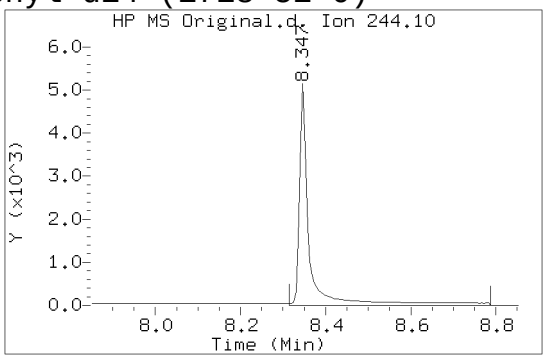
MASS
54
AREA
2115
HEIGHT
2339
29-Jun-2023
12:10
ALSHS
Se

Data File : \\nahstws005\Target\chem\SV6.i\230629.b\07.D
Inj Date : 29-JUN-2023 11:43
InstruID : SV6.i
LabSampID : LCS1-196799

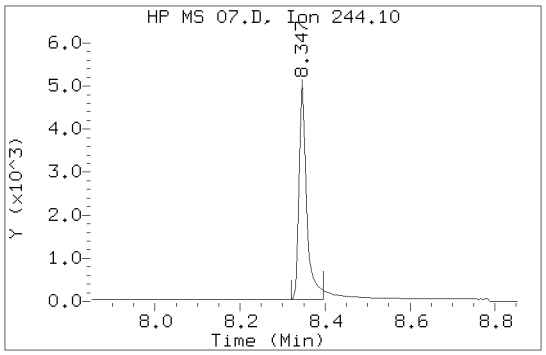
4-Terphenyl-d14 (1718-51-0)

Reason Code:

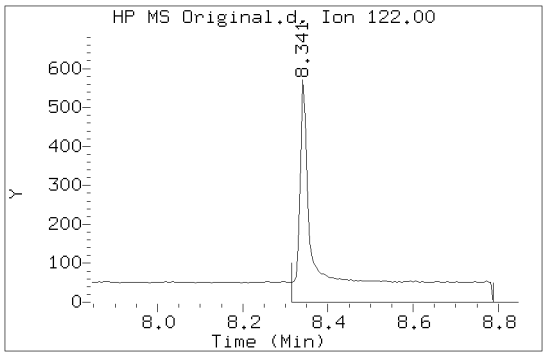
BEFORE
MASS
244.1
AREA
8301
HEIGHT
5148
29-Jun-2023
12:01
ALSHS
Server



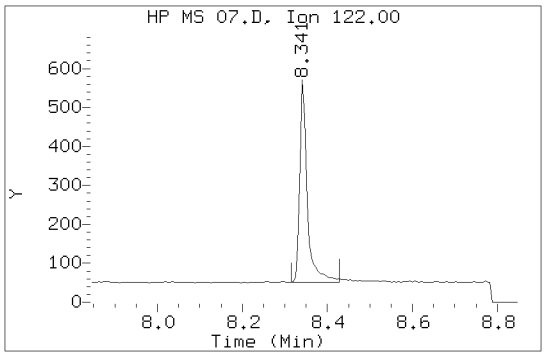
AFTER
MASS
244.1
AREA
6192
HEIGHT
5099
29-Jun-2023
12:10
ALSHS
Se



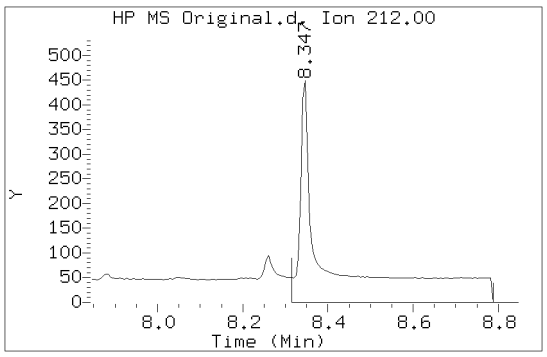
BEFORE
MASS
122
AREA
2131
HEIGHT
571
29-Jun-2023
12:01
ALSHS
Server



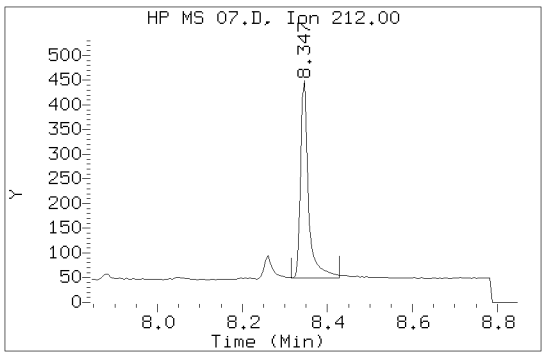
AFTER
MASS
122
AREA
635
HEIGHT
520
29-Jun-2023
12:10
ALSHS
Se



BEFORE
MASS
212
AREA
1923
HEIGHT
449
29-Jun-2023
12:01
ALSHS
Server



AFTER
MASS
212
AREA
516
HEIGHT
400
29-Jun-2023
12:10
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\08.D Page 1
Report Date: 29-Jun-2023 13:03

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Lab Smp Id: LCSD1-196799 Client Smp ID: LCSD1-196799
Inj Date : 29-JUN-2023 12:01
Operator : LG Inst ID: SV6.i
Smp Info : LCSD1-196799
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.637	2.637	(1.000)	2392	0.10000	(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	9109	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2463	0.08899	0.08899(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	6213	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	5978	0.09409	0.09409(M)
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	8673	0.10000	
* 182 Chrysene-d12	240	9.336	9.341	(1.000)	9191	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.894)	6164	0.09090	0.09090(M)
* 198 Perylene-d12	264	11.039	11.038	(1.000)	5394	0.10000	(M)
1 1,4-Dioxane	58	1.080	1.084	(0.410)	665	0.08194	0.08194(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.

01199999

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\08.D

Page 1

Date : 29-JUN-2023 12:01

Client ID: LCSD1-196799

Instrument: SV6.i

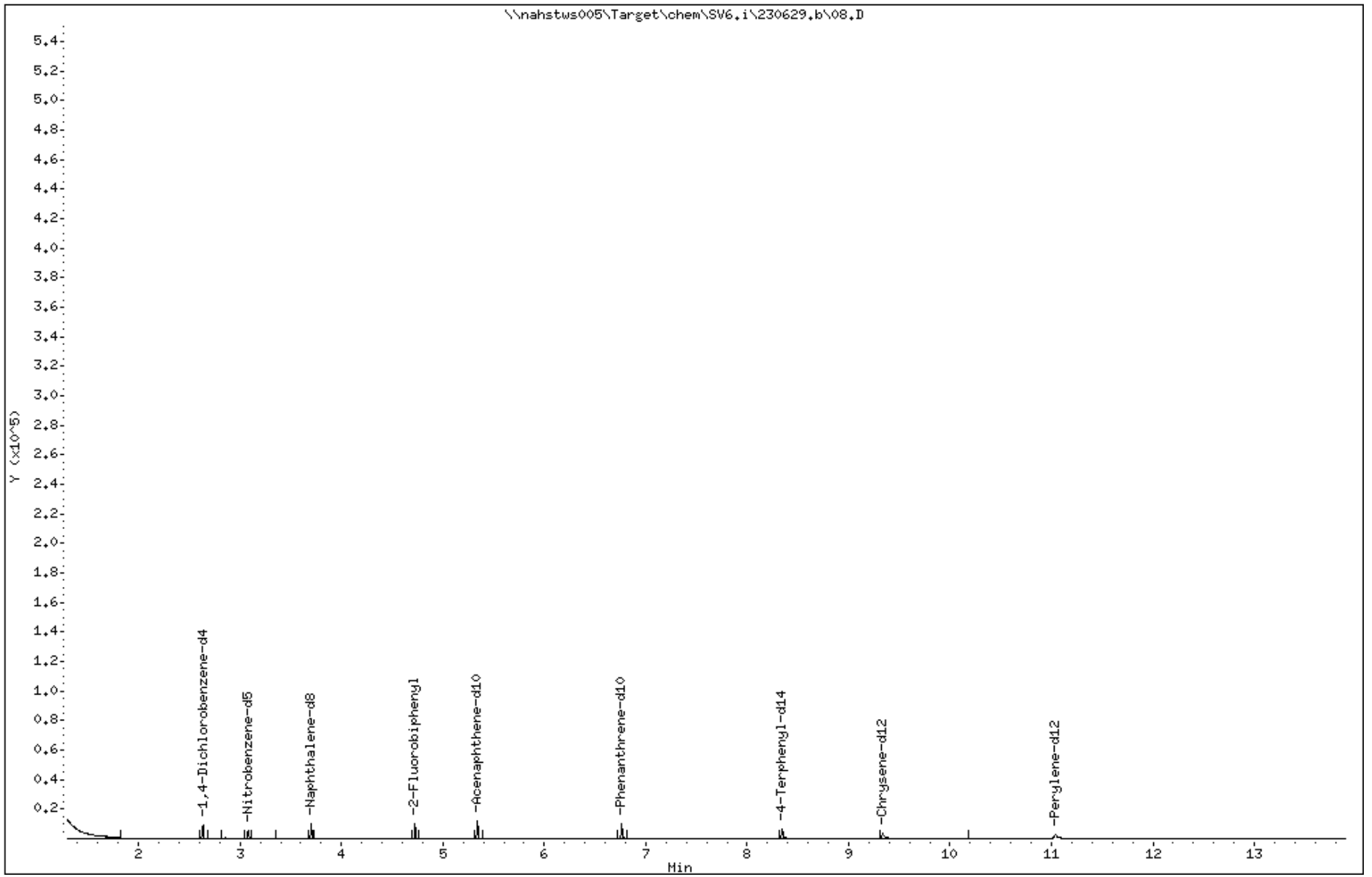
Sample Info: LCSD1-196799

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



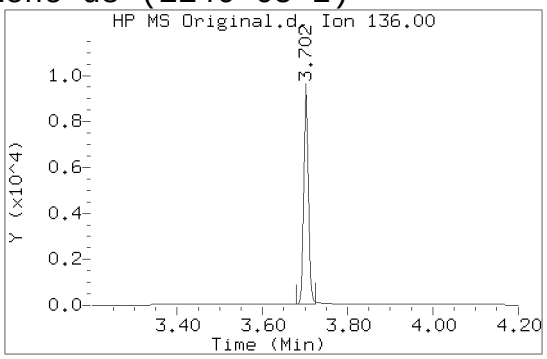
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

Naphthalene-d8 (1146-65-2)

Reason Code:

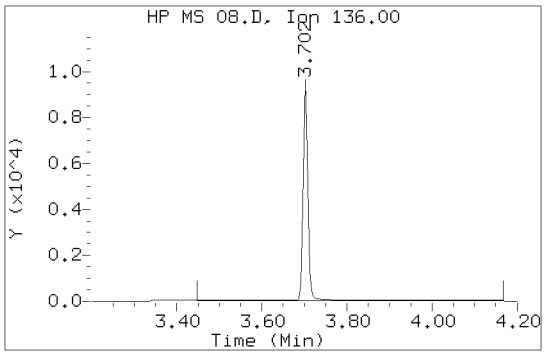
BEFORE

MASS
136
AREA
7394
HEIGHT
9598
29-Jun-2023
12:16
ALSHS
Server



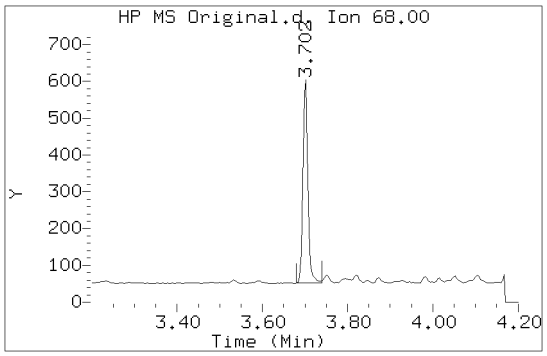
AFTER

MASS
136
AREA
9109
HEIGHT
9632
29-Jun-2023
13:03
ALSHS
Se



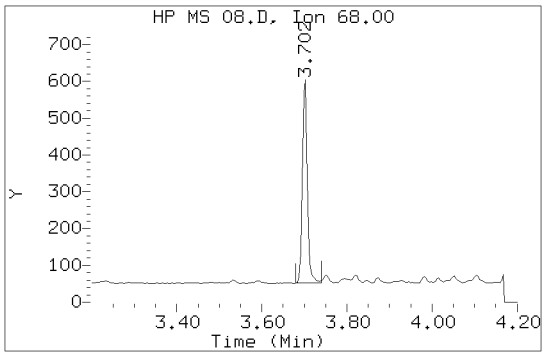
BEFORE

MASS
68
AREA
459
HEIGHT
552
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
68
AREA
459
HEIGHT
552
29-Jun-2023
13:03
ALSHS
Se

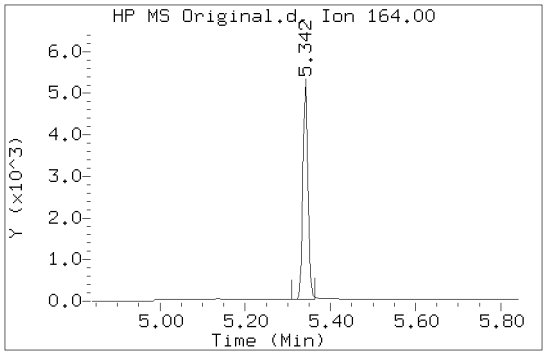


Acenaphthene-d10 (15067-26-2)

Reason Code:

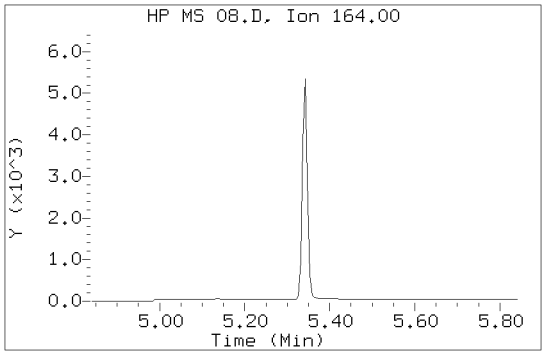
BEFORE

MASS
164
AREA
4387
HEIGHT
5296
29-Jun-2023
12:16
ALSHS
Server



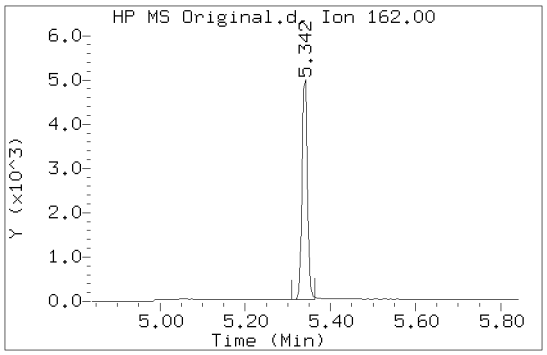
AFTER

MASS
164
AREA
6213
HEIGHT
5325
29-Jun-2023
13:03
ALSHS
Se



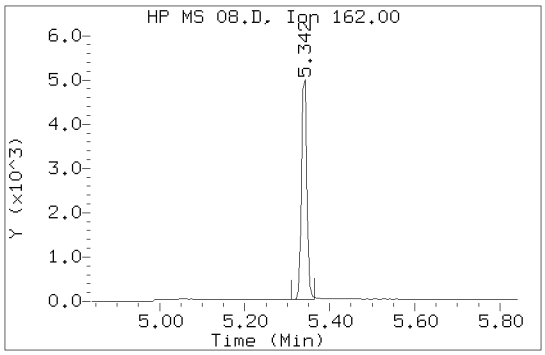
BEFORE

MASS
162
AREA
4465
HEIGHT
4958
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
162
AREA
4465
HEIGHT
4958
29-Jun-2023
13:03
ALSHS
Se



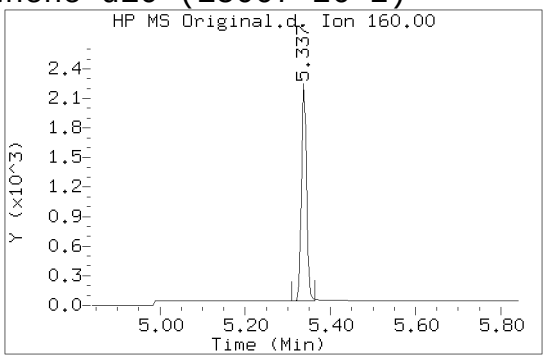
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Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

Acenaphthene-d10 (15067-26-2)

Reason Code:

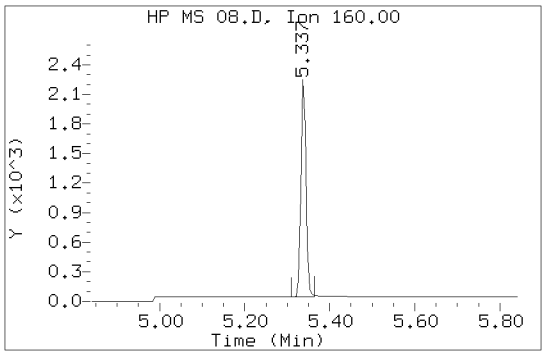
BEFORE

MASS
160
AREA
1860
HEIGHT
2202
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
160
AREA
1860
HEIGHT
2202
29-Jun-2023
13:03
ALSHS
Se

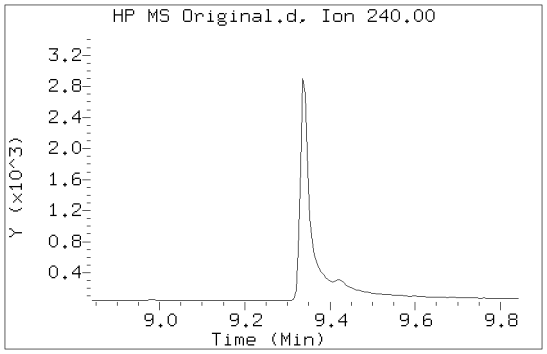


Chrysene-d12 (1719-03-5)

Reason Code:

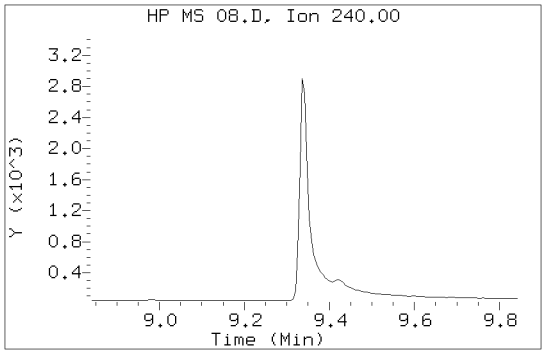
BEFORE

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AREA
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HEIGHT
0
29-Jun-2023
12:16
ALSHS
Server



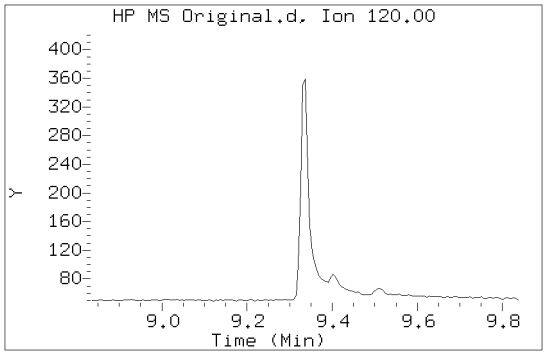
AFTER

MASS
240
AREA
9191
HEIGHT
2884
29-Jun-2023
13:03
ALSHS
Se



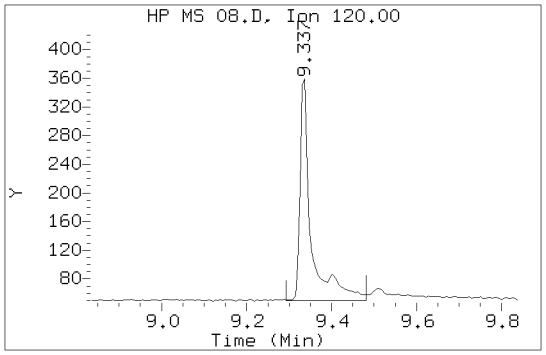
BEFORE

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AREA
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HEIGHT
0
29-Jun-2023
12:16
ALSHS
Server



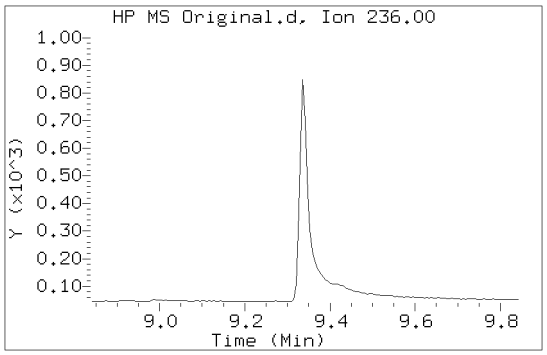
AFTER

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AREA
556
HEIGHT
309
29-Jun-2023
13:03
ALSHS
Se



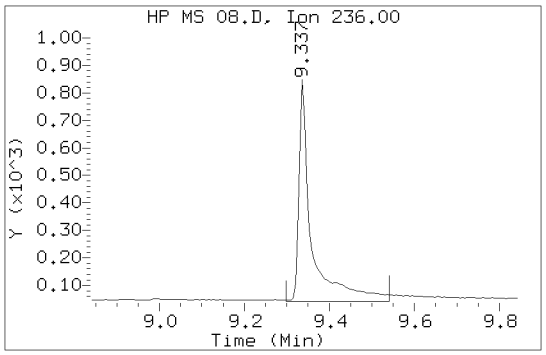
BEFORE

MASS
236
AREA
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HEIGHT
0
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
236
AREA
1649
HEIGHT
806
29-Jun-2023
13:03
ALSHS
Se



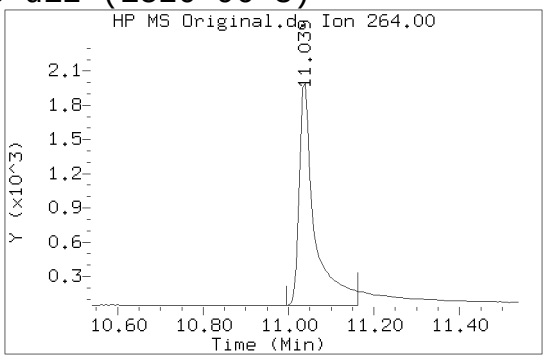
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

Perylene-d12 (1520-96-3)

Reason Code:

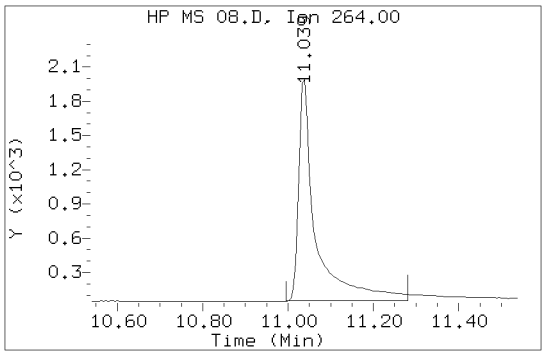
BEFORE

MASS
264
AREA
4871
HEIGHT
1941
29-Jun-2023
12:16
ALSHS
Server



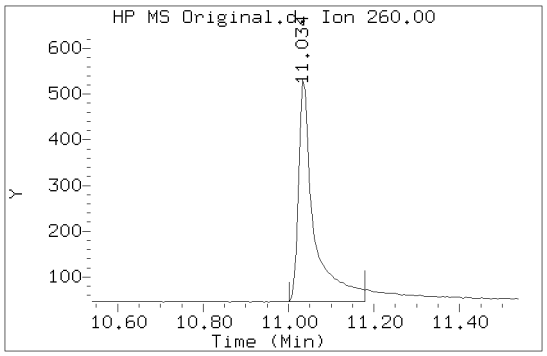
AFTER

MASS
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AREA
5394
HEIGHT
1937
29-Jun-2023
13:03
ALSHS
Se



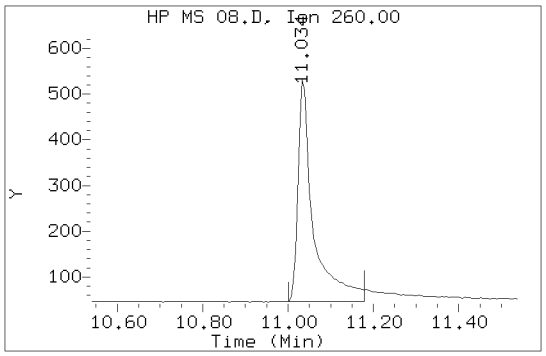
BEFORE

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AREA
1208
HEIGHT
484
29-Jun-2023
12:16
ALSHS
Server



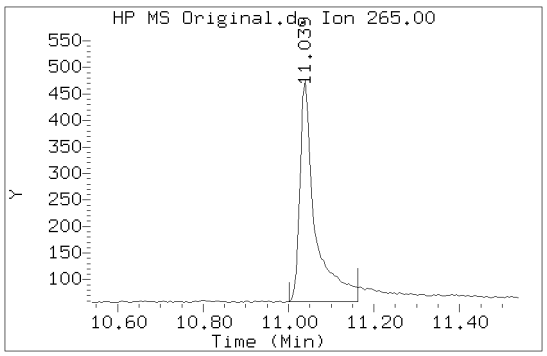
AFTER

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AREA
1208
HEIGHT
484
29-Jun-2023
13:03
ALSHS
Se



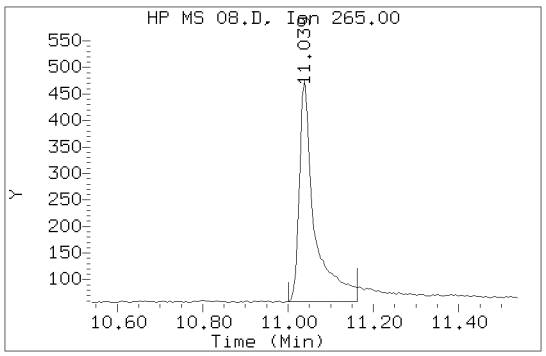
BEFORE

MASS
265
AREA
1033
HEIGHT
417
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
265
AREA
1033
HEIGHT
417
29-Jun-2023
13:03
ALSHS
Se

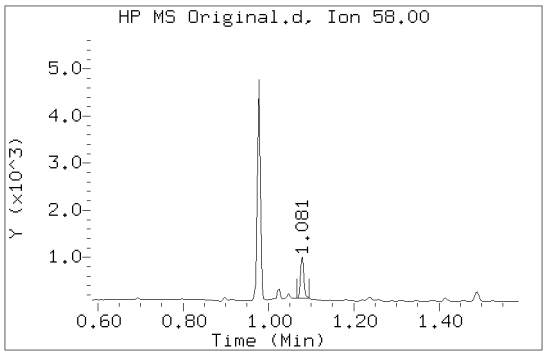


1,4-Dioxane ()

Reason Code:

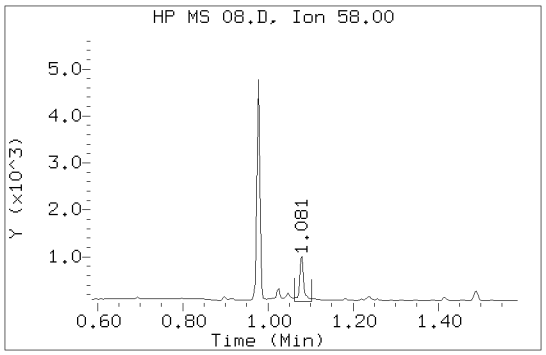
BEFORE

MASS
58
AREA
475
HEIGHT
875
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
58
AREA
665
HEIGHT
950
29-Jun-2023
13:03
ALSHS
Se

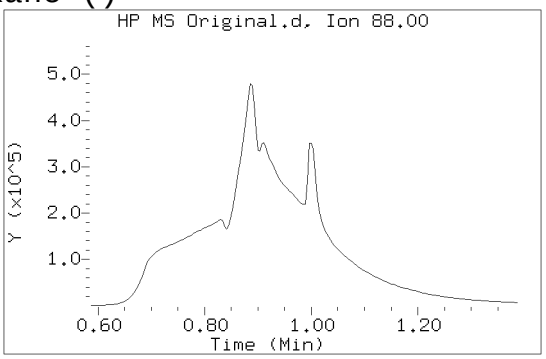


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

1,4-Dioxane ()

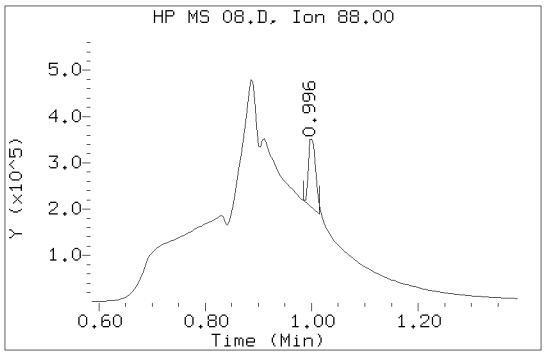
Reason Code:

BEFORE



MASS
88
AREA
1584203
HEIGHT
350038
29-Jun-2023
12:16
ALSHS
Server

AFTER

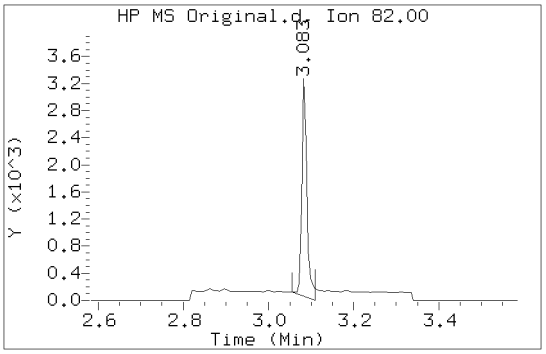


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HEIGHT
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29-Jun-2023
13:03
ALSHS
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Nitrobenzene-d5 (4165-60-0)

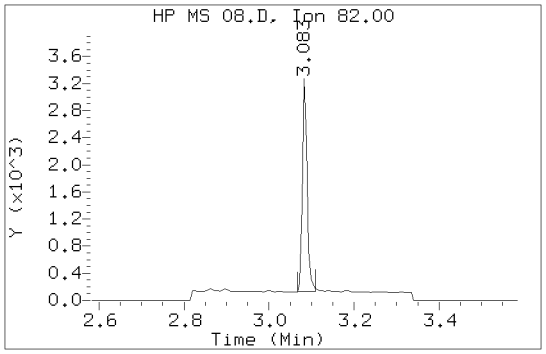
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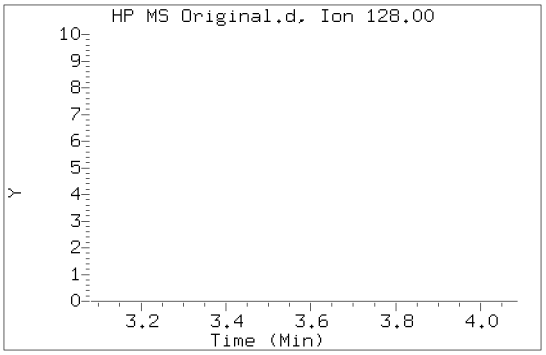
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AFTER



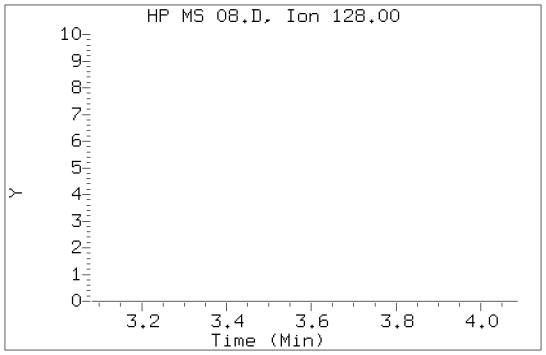
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HEIGHT
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29-Jun-2023
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ALSHS
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BEFORE



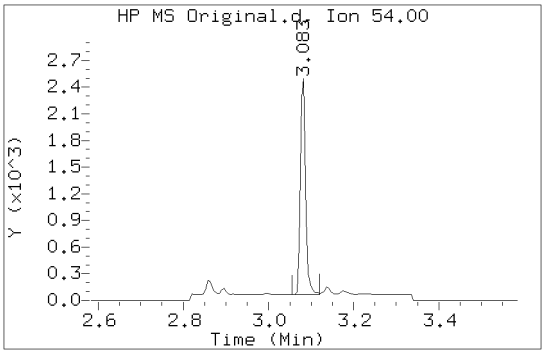
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Server

AFTER



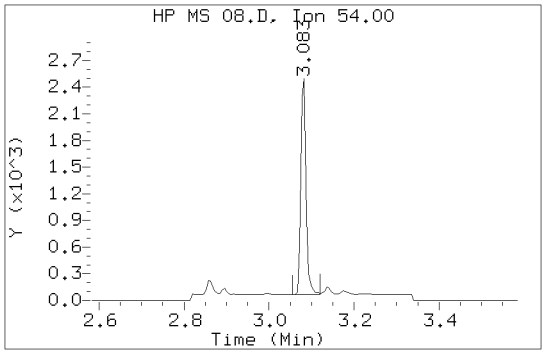
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29-Jun-2023
13:03
ALSHS
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BEFORE



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HEIGHT
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29-Jun-2023
12:16
ALSHS
Server

AFTER



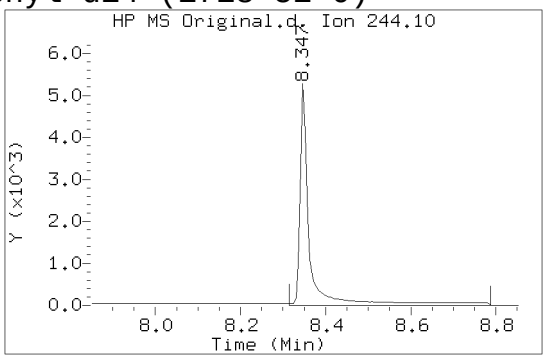
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HEIGHT
2432
29-Jun-2023
13:03
ALSHS
Se

Data File : \\nahstws005\Target\chem\SV6.i\230629.b\08.D
Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

4-Terphenyl-d14 (1718-51-0)

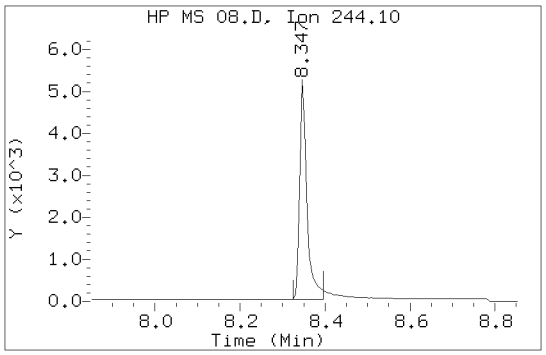
Reason Code:

BEFORE



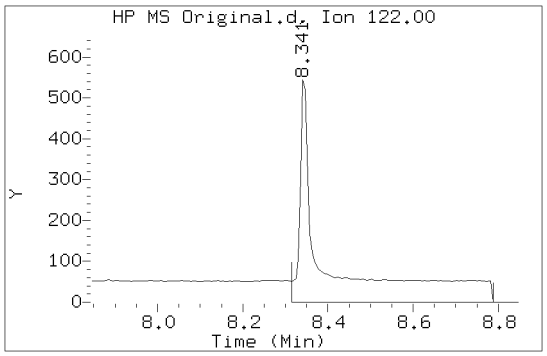
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29-Jun-2023
12:16
ALSHS
Server

AFTER



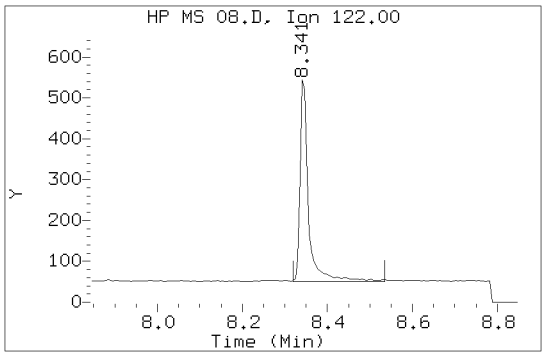
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13:03
ALSHS
Se

BEFORE



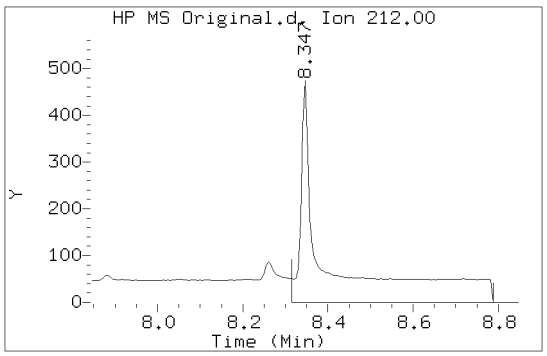
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HEIGHT
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29-Jun-2023
12:16
ALSHS
Server

AFTER



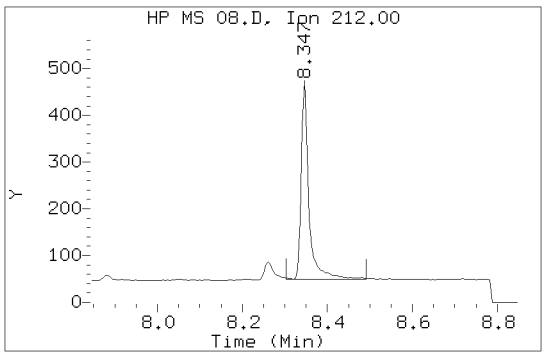
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AREA
669
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493
29-Jun-2023
13:03
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BEFORE



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AREA
1926
HEIGHT
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29-Jun-2023
12:16
ALSHS
Server

AFTER

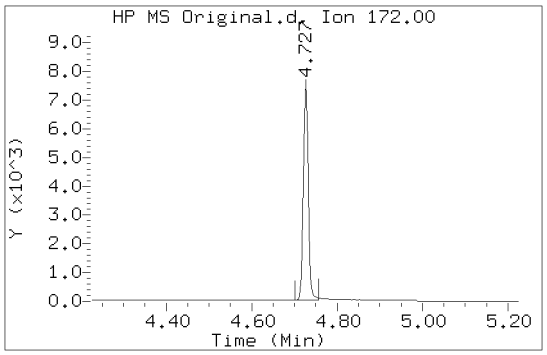


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HEIGHT
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29-Jun-2023
13:03
ALSHS
Se

2-Fluorobiphenyl (321-60-8)

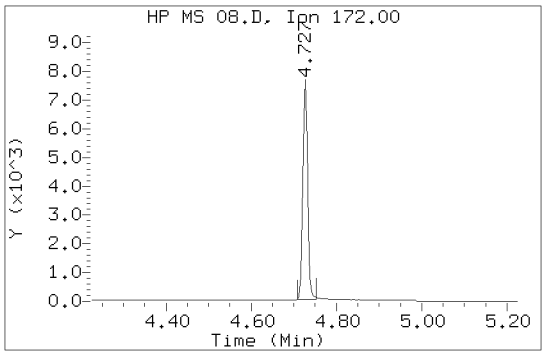
Reason Code:

BEFORE



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HEIGHT
7663
29-Jun-2023
12:16
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Server

AFTER



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AREA
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HEIGHT
7641
29-Jun-2023
13:03
ALSHS
Se

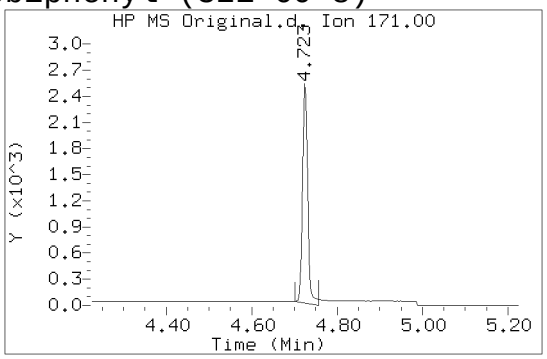
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Inj Date : 29-JUN-2023 12:01
InstruID : SV6.i
LabSampID : LCSD1-196799

2-Fluorobiphenyl (321-60-8)

Reason Code:

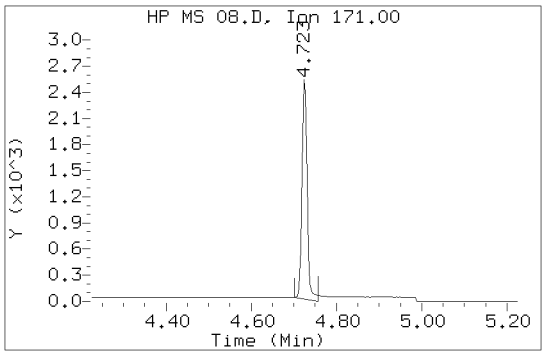
BEFORE

MASS
171
AREA
2125
HEIGHT
2518
29-Jun-2023
12:16
ALSHS
Server



AFTER

MASS
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AREA
2125
HEIGHT
2518
29-Jun-2023
13:03
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\09.D
Lab Smp Id: HS23061557-01
Inj Date : 29-JUN-2023 12:20
Operator : LG Inst ID: SV6.i
Smp Info : HS23061557-01
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.637	2.637	(1.000)	2662	0.10000	(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	8207	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2245	0.09003	0.09003(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	5992	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	5614	0.09162	0.09162(M)
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	9600	0.10000	
* 182 Chrysene-d12	240	9.336	9.341	(1.000)	9204	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.894)	6239	0.09188	0.09188(M)
* 198 Perylene-d12	264	11.039	11.038	(1.000)	5662	0.10000	
1 1,4-Dioxane	58	1.088	1.084	(0.413)	147	0.01628	0.01628(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01200007

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\09.D

Page 1

Date : 29-JUN-2023 12:20

Client ID:

Instrument: SV6.i

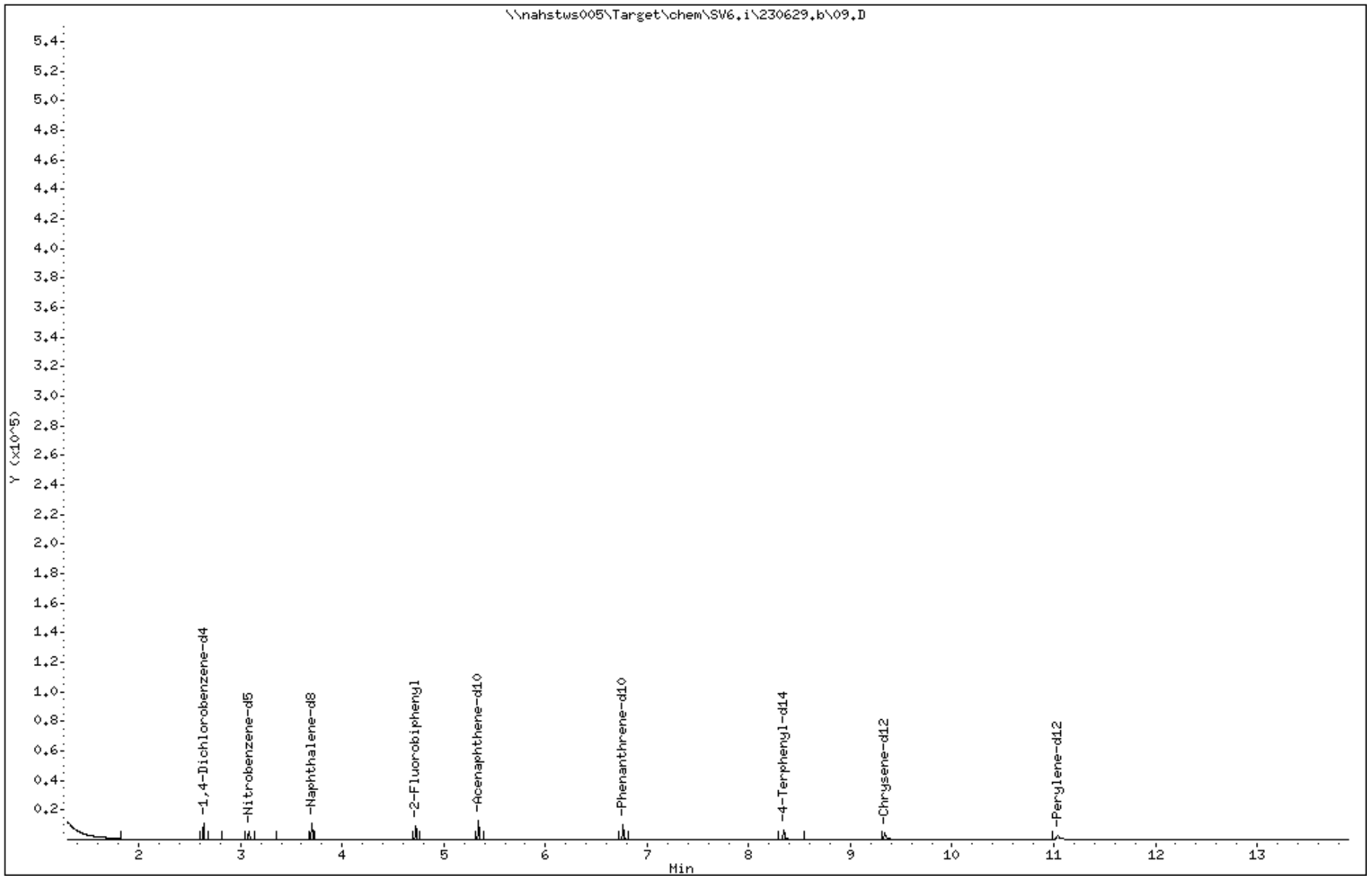
Sample Info: HS23061557-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\09.D

Date : 29-JUN-2023 12:20

Client ID:

Instrument: SV6.i

Sample Info: HS23061557-01

Purge Volume: 1000.0

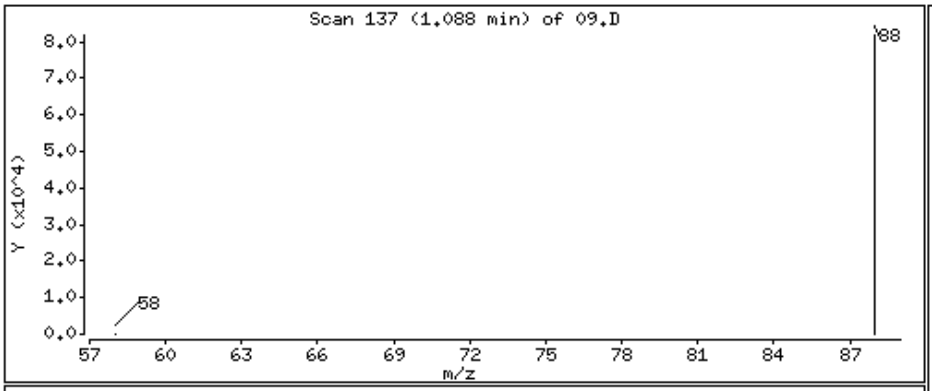
Operator: LG

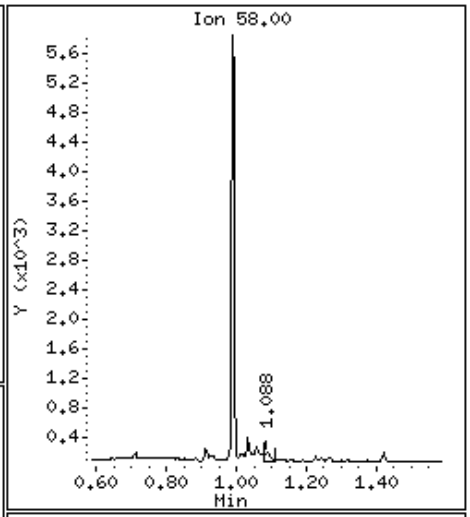
Column phase: RTX-5SIL MS

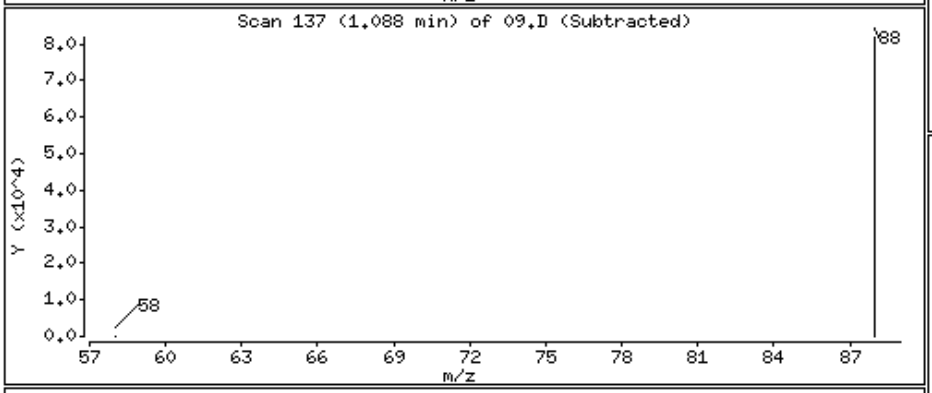
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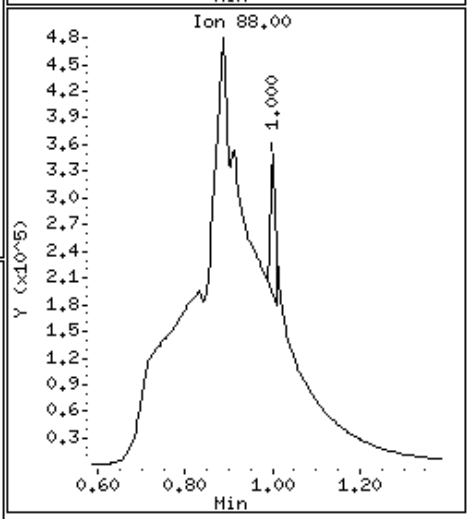
1 1,4-Dioxane

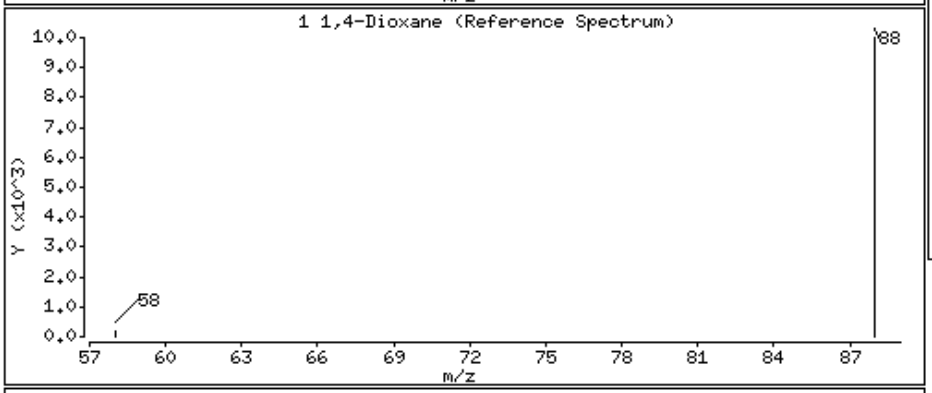
Concentration: 0.01628 ug/L

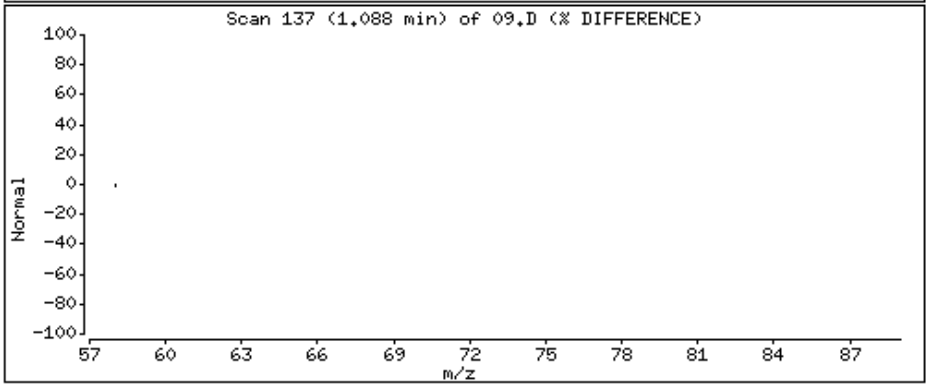










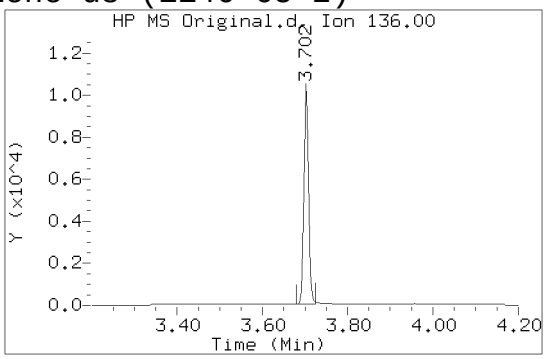


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\09.D
Inj Date : 29-JUN-2023 12:20
InstruID : SV6.i
LabSampID : HS23061557-01

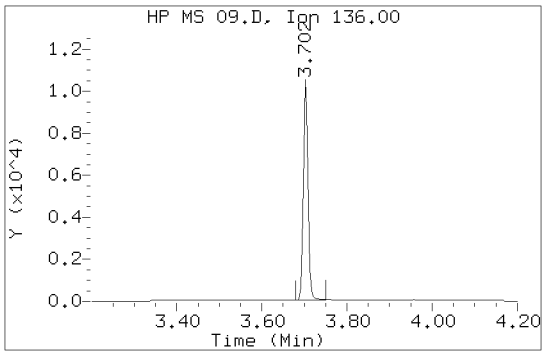
Naphthalene-d8 (1146-65-2)

Reason Code:

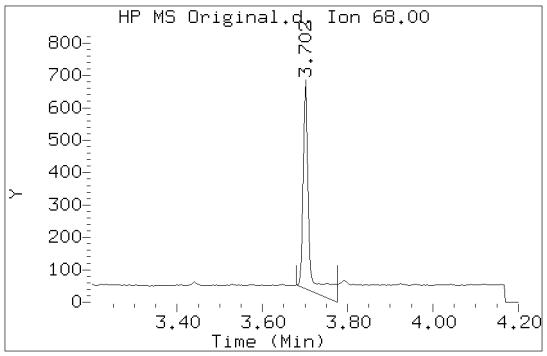
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HEIGHT
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29-Jun-2023
12:34
ALSHS
Server



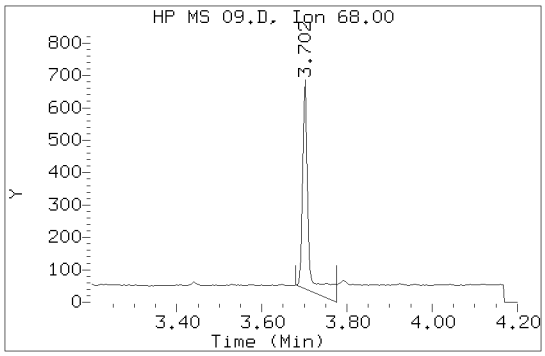
AFTER
MASS
136
AREA
8207
HEIGHT
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29-Jun-2023
13:03
ALSHS
Se



BEFORE
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645
29-Jun-2023
12:34
ALSHS
Server



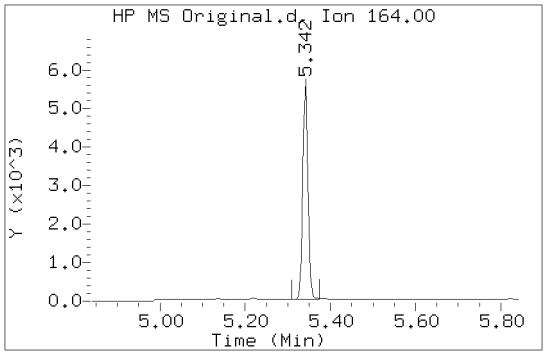
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13:03
ALSHS
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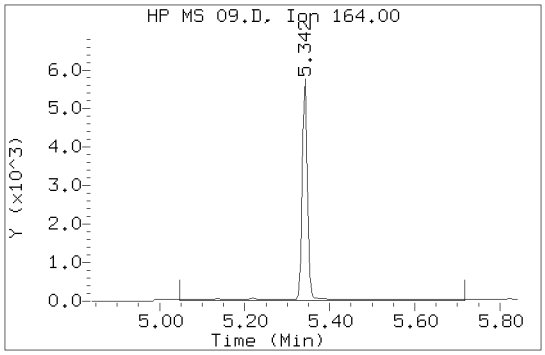
Acenaphthene-d10 (15067-26-2)

Reason Code:

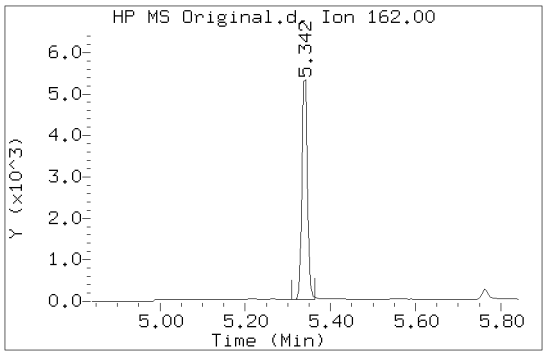
BEFORE
MASS
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AREA
4825
HEIGHT
5720
29-Jun-2023
12:34
ALSHS
Server



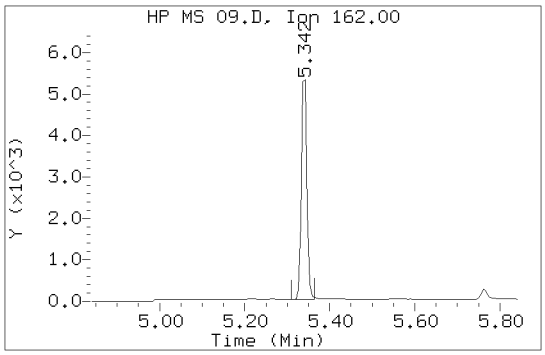
AFTER
MASS
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5748
29-Jun-2023
13:03
ALSHS
Se



BEFORE
MASS
162
AREA
4889
HEIGHT
5295
29-Jun-2023
12:34
ALSHS
Server



AFTER
MASS
162
AREA
4889
HEIGHT
5295
29-Jun-2023
13:03
ALSHS
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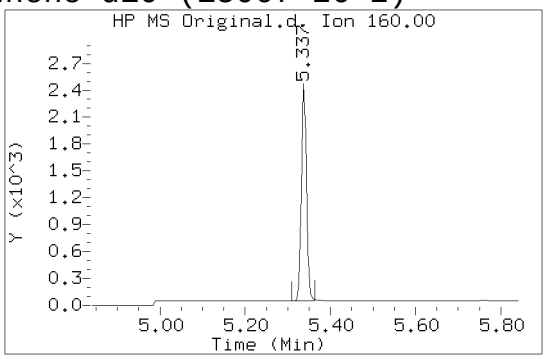
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Inj Date : 29-JUN-2023 12:20
InstruID : SV6.i
LabSampID : HS23061557-01

Acenaphthene-d10 (15067-26-2)

Reason Code:

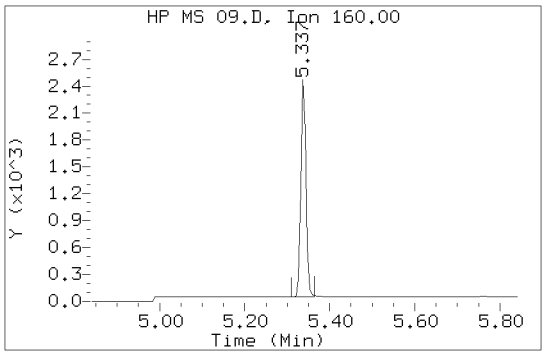
BEFORE

MASS
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AREA
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HEIGHT
2427
29-Jun-2023
12:34
ALSHS
Server



AFTER

MASS
160
AREA
2056
HEIGHT
2427
29-Jun-2023
13:03
ALSHS
Se

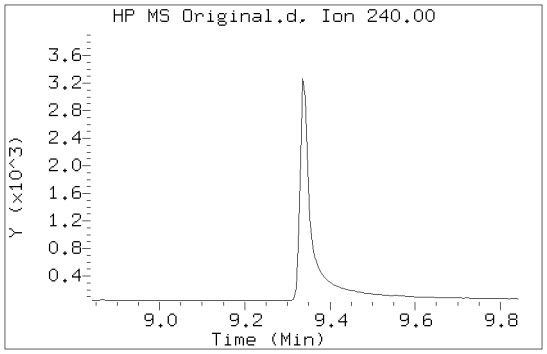


Chrysene-d12 (1719-03-5)

Reason Code:

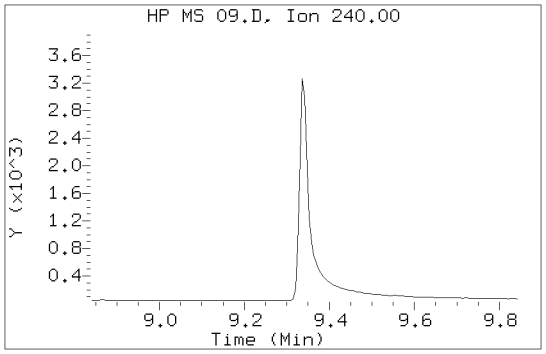
BEFORE

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29-Jun-2023
12:34
ALSHS
Server



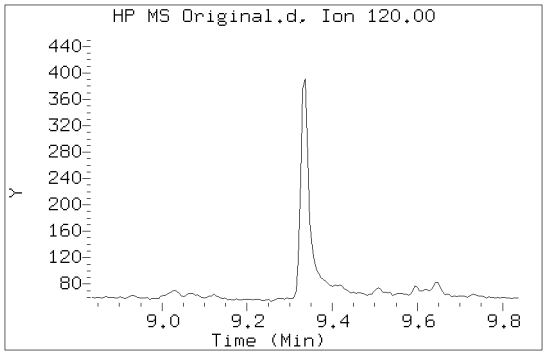
AFTER

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9204
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3248
29-Jun-2023
13:03
ALSHS
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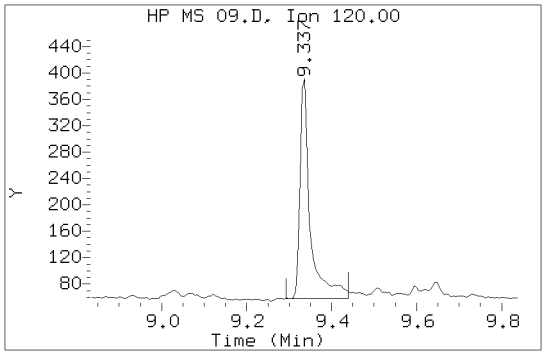
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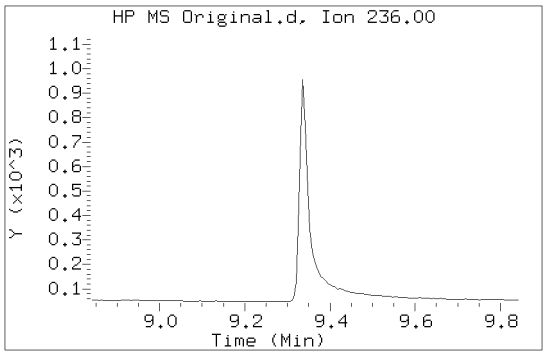
AFTER

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29-Jun-2023
13:03
ALSHS
Se



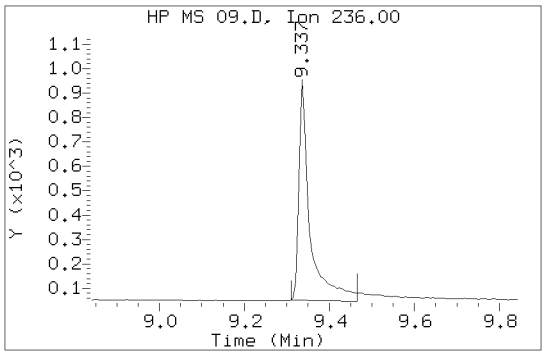
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
12:34
ALSHS
Server



AFTER

MASS
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AREA
1627
HEIGHT
904
29-Jun-2023
13:03
ALSHS
Se



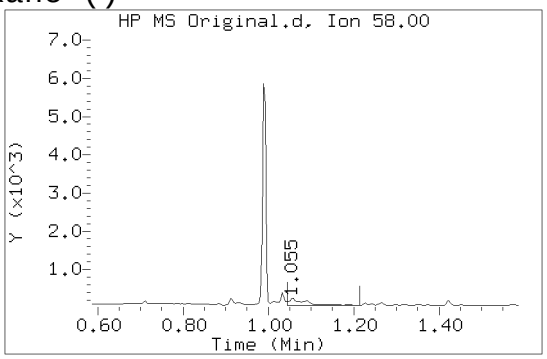
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Inj Date : 29-JUN-2023 12:20
InstruID : SV6.i
LabSampID : HS23061557-01

1,4-Dioxane ()

Reason Code:

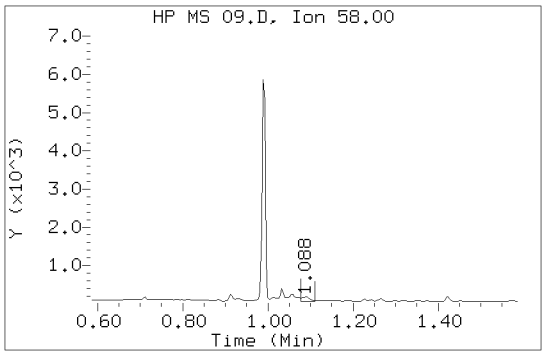
BEFORE

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AREA
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HEIGHT
186
29-Jun-2023
12:34
ALSHS
Server



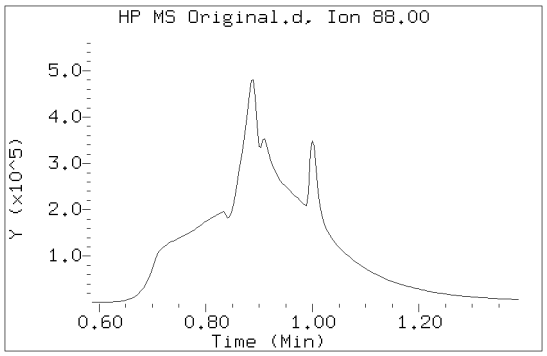
AFTER

MASS
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AREA
147
HEIGHT
111
29-Jun-2023
13:03
ALSHS
Se



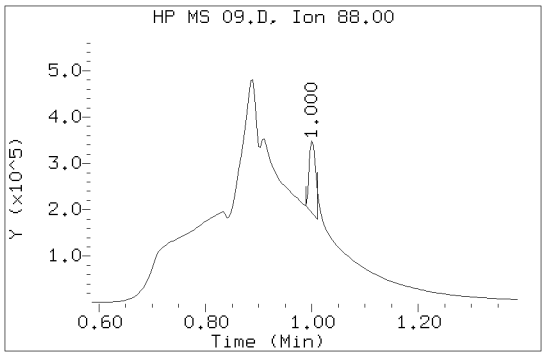
BEFORE

MASS
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AREA
1536147
HEIGHT
347582
29-Jun-2023
12:34
ALSHS
Server



AFTER

MASS
88
AREA
138512
HEIGHT
154953
29-Jun-2023
13:03
ALSHS
Se

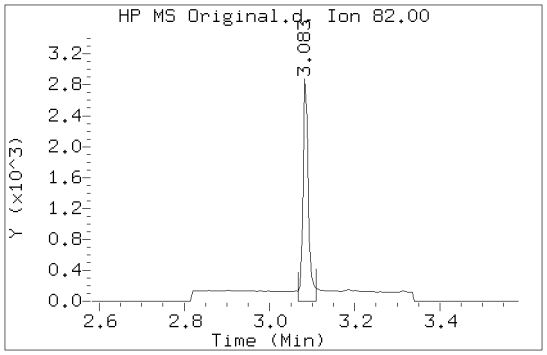


Nitrobenzene-d5 (4165-60-0)

Reason Code:

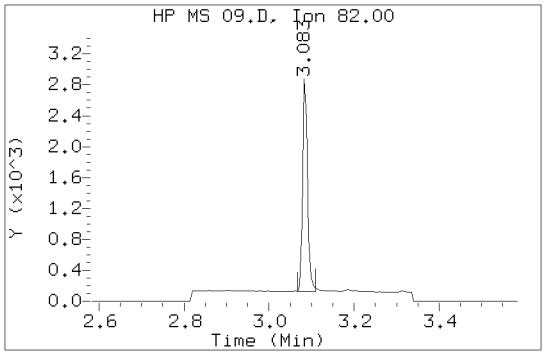
BEFORE

MASS
82
AREA
2607
HEIGHT
2877
29-Jun-2023
12:34
ALSHS
Server



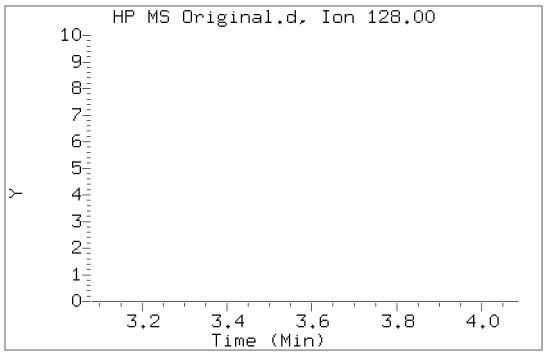
AFTER

MASS
82
AREA
2245
HEIGHT
2752
29-Jun-2023
13:03
ALSHS
Se



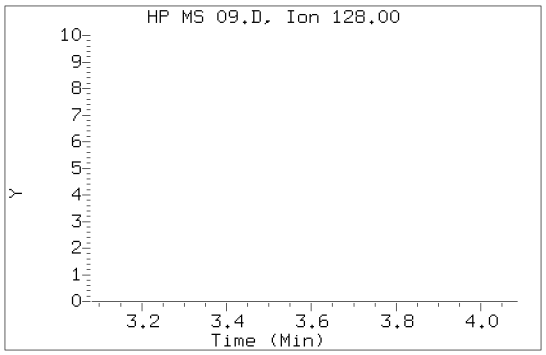
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
12:34
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
13:03
ALSHS
Se

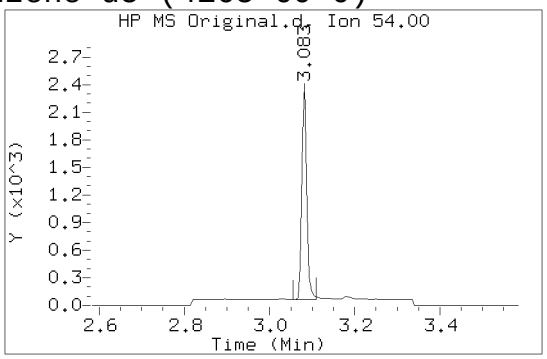


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\09.D
Inj Date : 29-JUN-2023 12:20
InstruID : SV6.i
LabSampID : HS23061557-01

Nitrobenzene-d5 (4165-60-0)

BEFORE

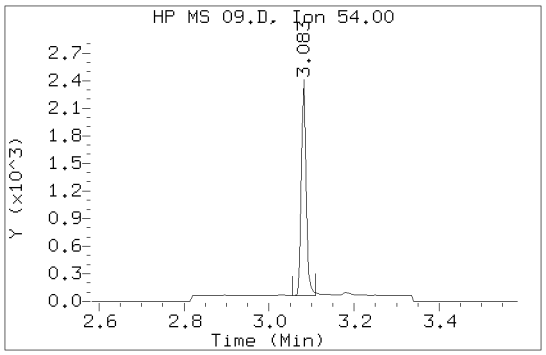
MASS
54
AREA
1888
HEIGHT
2347
29-Jun-2023
12:34
ALSHS
Server



AFTER

MASS
54
AREA
1888
HEIGHT
2347
29-Jun-2023
13:03
ALSHS
Se

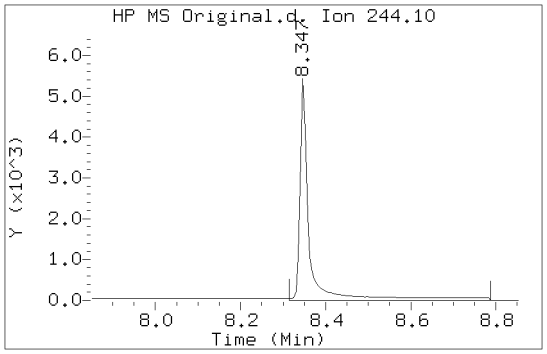
Reason Code:



4-Terphenyl-d14 (1718-51-0)

BEFORE

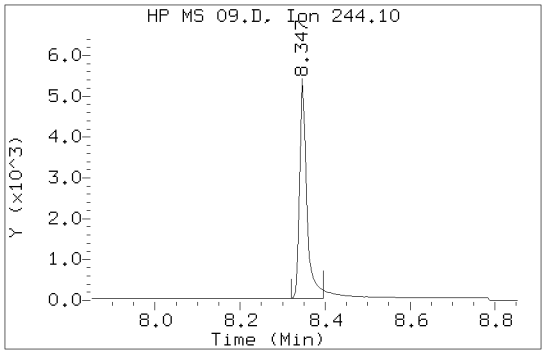
MASS
244.1
AREA
8395
HEIGHT
5432
29-Jun-2023
12:34
ALSHS
Server



AFTER

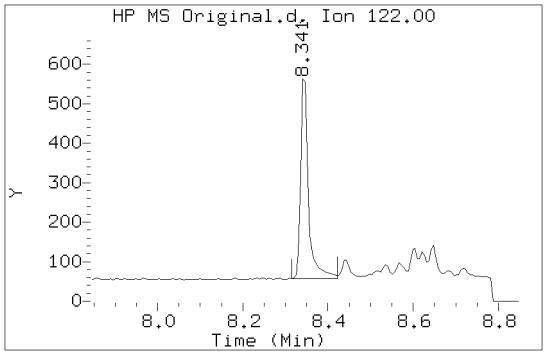
MASS
244.1
AREA
6239
HEIGHT
5382
29-Jun-2023
13:03
ALSHS
Se

Reason Code:



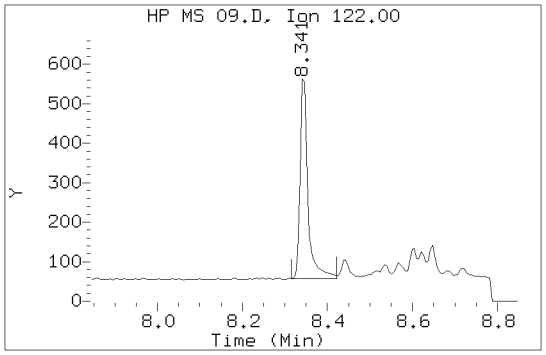
BEFORE

MASS
122
AREA
644
HEIGHT
506
29-Jun-2023
12:34
ALSHS
Server



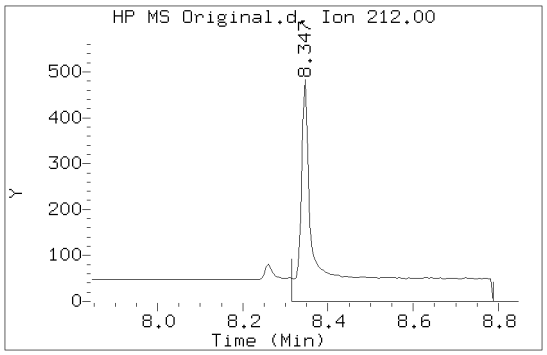
AFTER

MASS
122
AREA
644
HEIGHT
506
29-Jun-2023
13:03
ALSHS
Se



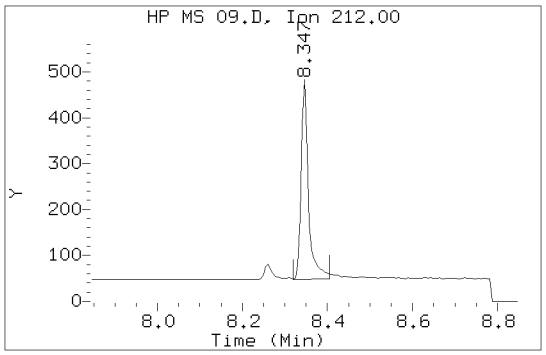
BEFORE

MASS
212
AREA
1946
HEIGHT
483
29-Jun-2023
12:34
ALSHS
Server



AFTER

MASS
212
AREA
510
HEIGHT
434
29-Jun-2023
13:03
ALSHS
Se



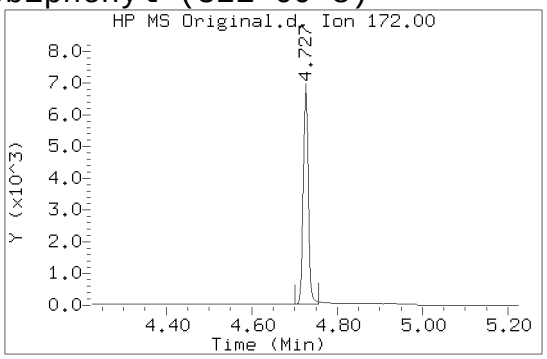
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\09.D
Inj Date : 29-JUN-2023 12:20
InstruID : SV6.i
LabSampID : HS23061557-01

2-Fluorobiphenyl (321-60-8)

Reason Code:

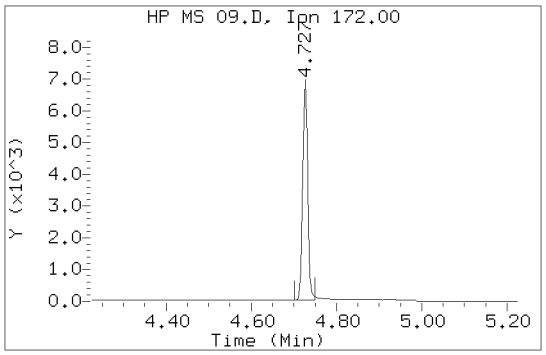
BEFORE

MASS
172
AREA
5646
HEIGHT
6934
29-Jun-2023
12:34
ALSHS
Server



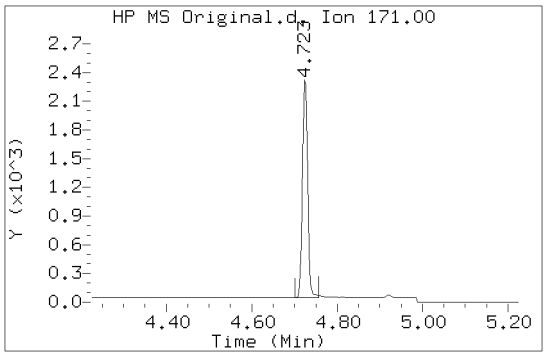
AFTER

MASS
172
AREA
5614
HEIGHT
6934
29-Jun-2023
13:03
ALSHS
Se



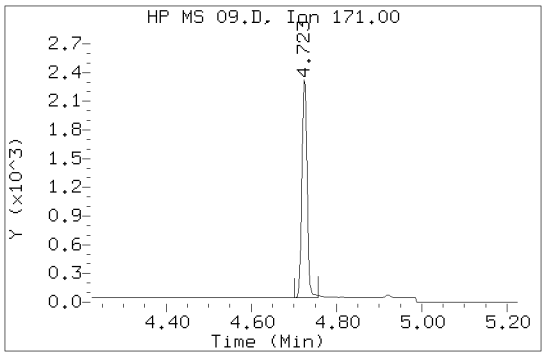
BEFORE

MASS
171
AREA
1933
HEIGHT
2277
29-Jun-2023
12:34
ALSHS
Server



AFTER

MASS
171
AREA
1933
HEIGHT
2277
29-Jun-2023
13:03
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\10.D
Lab Smp Id: HS23061557-03 Client Smp ID: HS23061557-03
Inj Date : 29-JUN-2023 12:38
Operator : LG Inst ID: SV6.i
Smp Info : HS23061557-03
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.637	2.637	(1.000)	2737	0.10000	(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	9889	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2673	0.08896	0.08896(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	6721	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	6500	0.09458	0.09458
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	9865	0.10000	
* 182 Chrysene-d12	240	9.336	9.341	(1.000)	9568	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.894)	6683	0.09468	0.09468(M)
* 198 Perylene-d12	264	11.033	11.038	(1.000)	6275	0.10000	(M)
1 1,4-Dioxane	58	1.095	1.084	(0.415)	1615	0.17391	0.1739(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01200015

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\10.D

Date : 29-JUN-2023 12:38

Client ID: HS23061557-03

Instrument: SV6.i

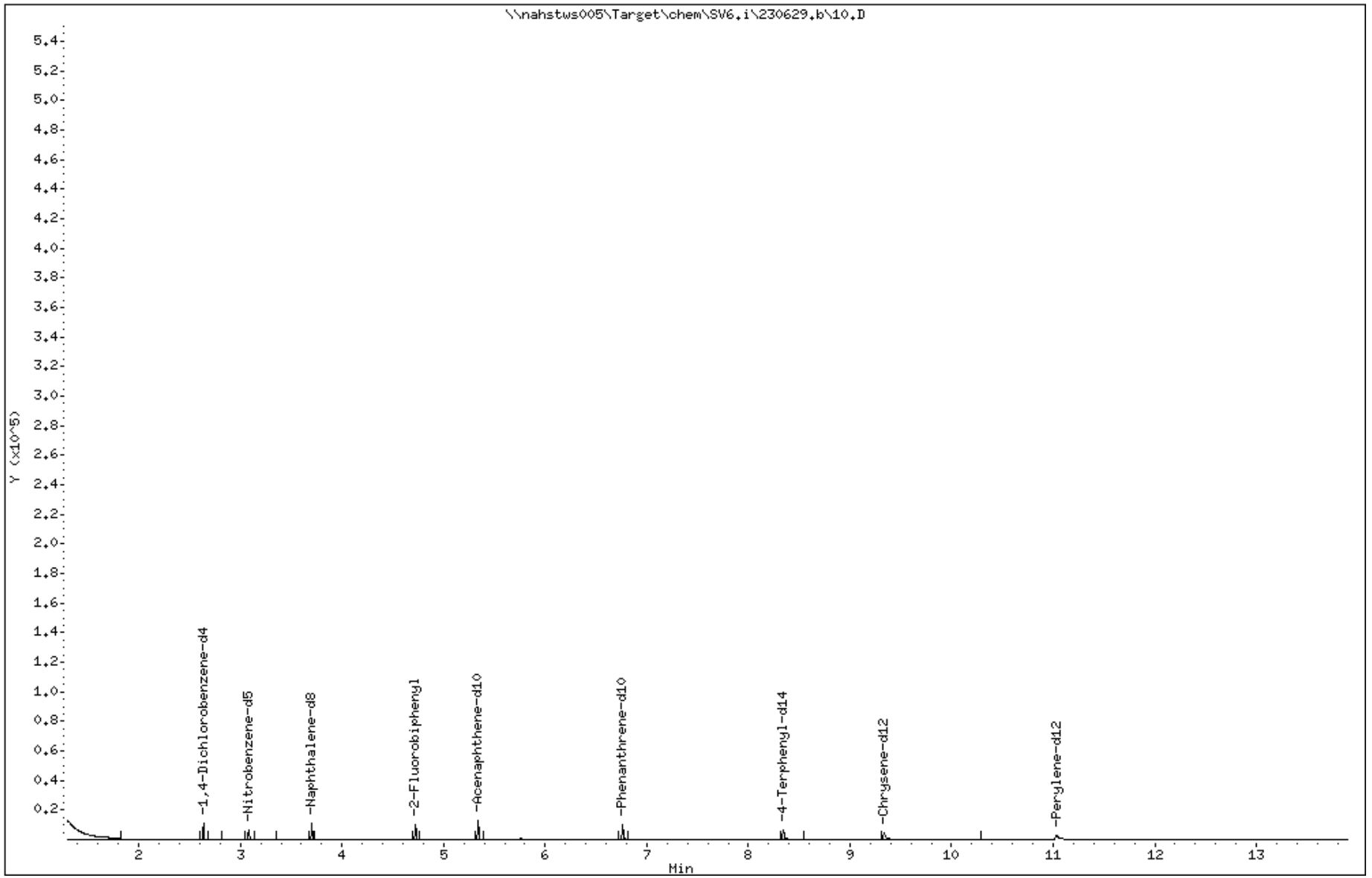
Sample Info: HS23061557-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\10.D

Date : 29-JUN-2023 12:38

Client ID: HS23061557-03

Instrument: SV6.i

Sample Info: HS23061557-03

Purge Volume: 1000.0

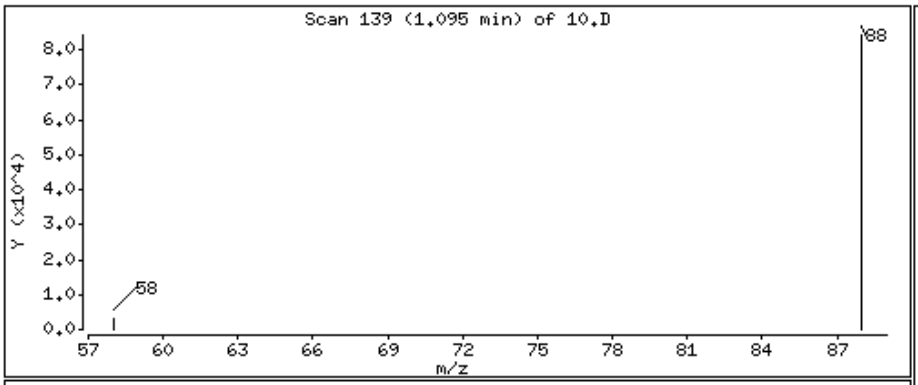
Operator: LG

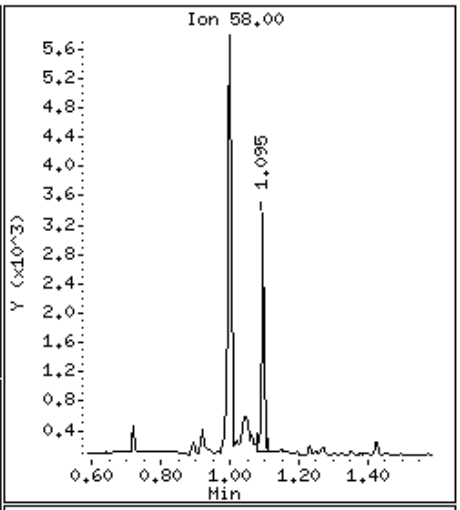
Column phase: RTX-5SIL MS

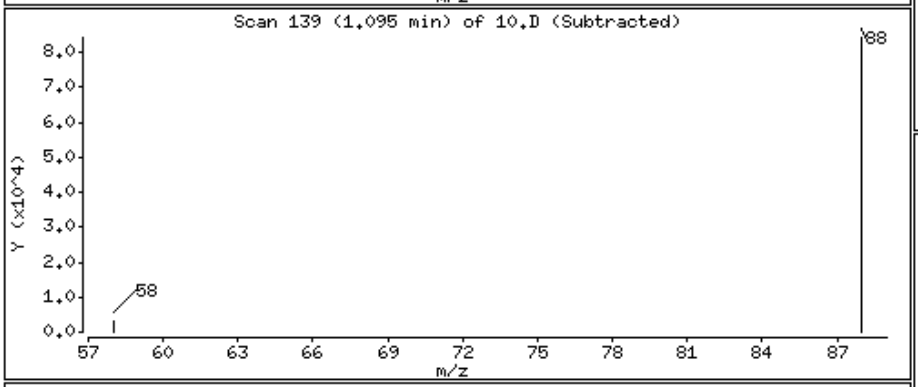
Column diameter: 0.28

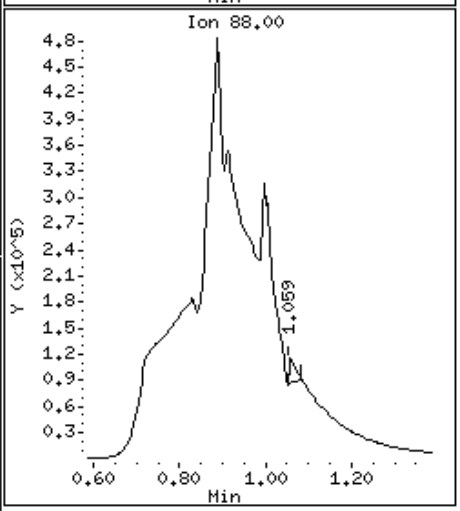
1 1,4-Dioxane

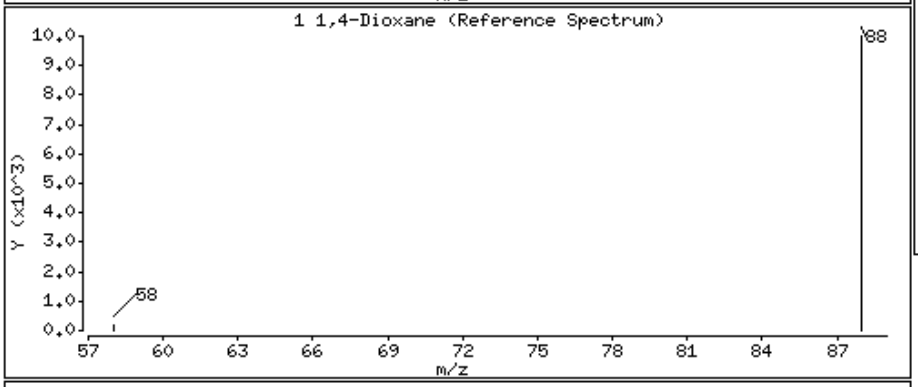
Concentration: 0.1739 ug/L

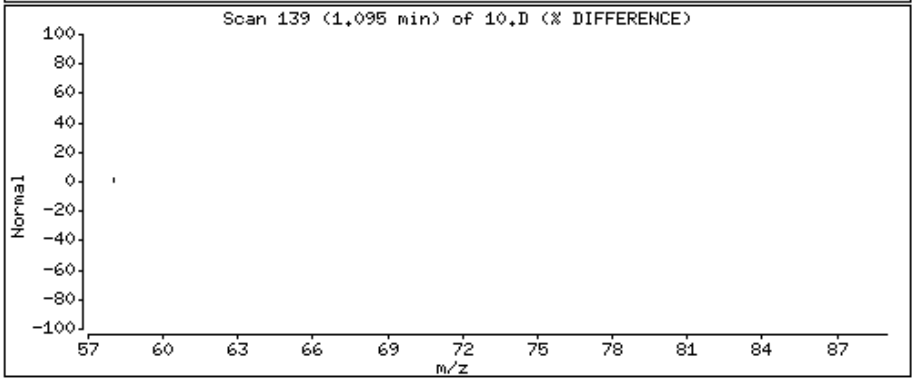










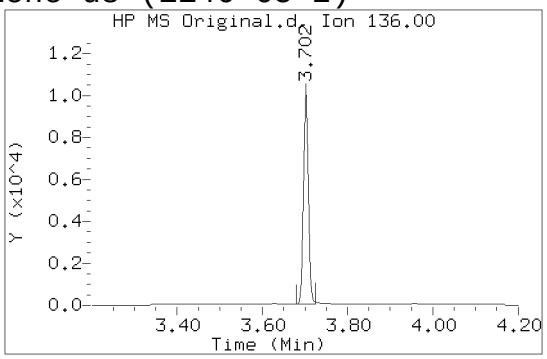


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\10.D
Inj Date : 29-JUN-2023 12:38
InstruID : SV6.i
LabSampID : HS23061557-03

Naphthalene-d8 (1146-65-2)

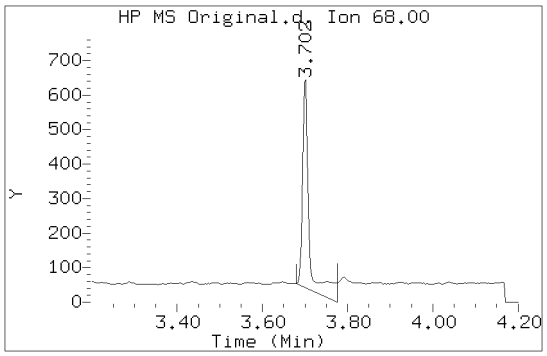
BEFORE

MASS
136
AREA
8385
HEIGHT
10514
29-Jun-2023
12:52
ALSHS
Server



BEFORE

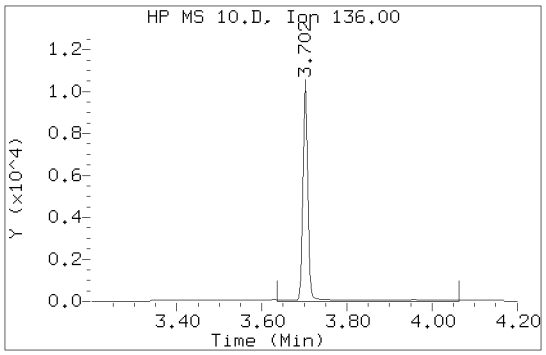
MASS
68
AREA
671
HEIGHT
602
29-Jun-2023
12:52
ALSHS
Server



Reason Code:

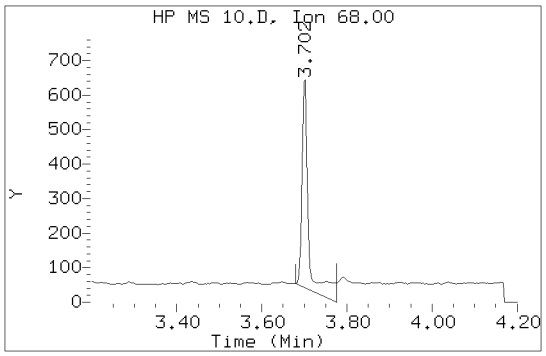
AFTER

MASS
136
AREA
9889
HEIGHT
10563
29-Jun-2023
13:03
ALSHS
Se



AFTER

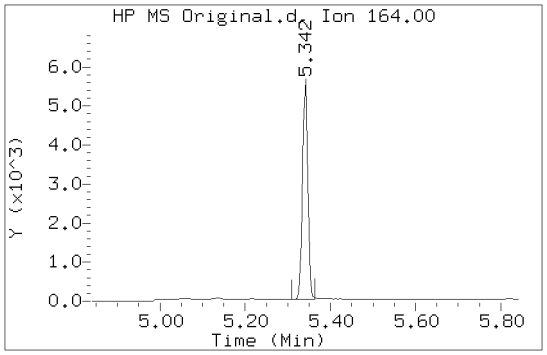
MASS
68
AREA
671
HEIGHT
602
29-Jun-2023
13:03
ALSHS
Se



Acenaphthene-d10 (15067-26-2)

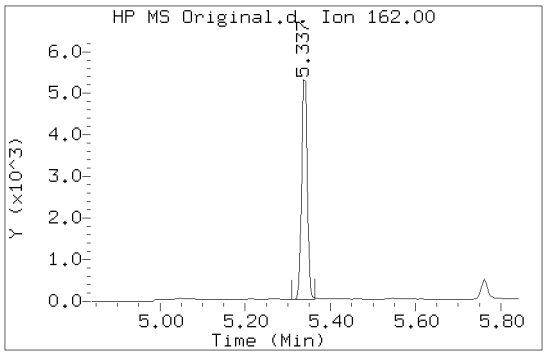
BEFORE

MASS
164
AREA
4968
HEIGHT
5641
29-Jun-2023
12:52
ALSHS
Server



BEFORE

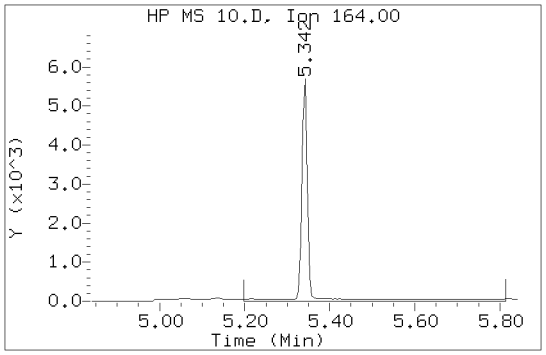
MASS
162
AREA
5032
HEIGHT
5275
29-Jun-2023
12:52
ALSHS
Server



Reason Code:

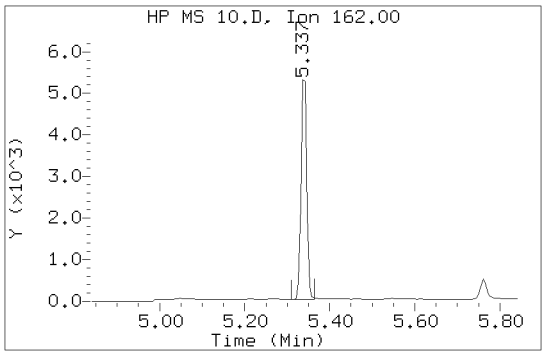
AFTER

MASS
164
AREA
6721
HEIGHT
5686
29-Jun-2023
13:03
ALSHS
Se



AFTER

MASS
162
AREA
5032
HEIGHT
5275
29-Jun-2023
13:03
ALSHS
Se



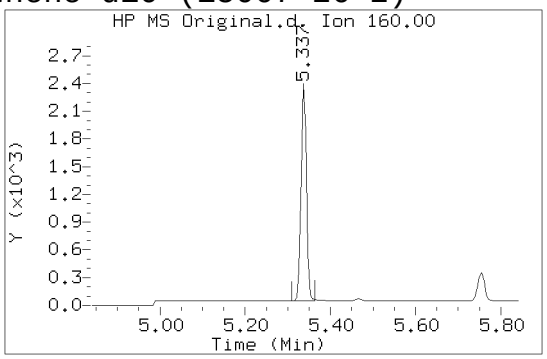
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\10.D
Inj Date : 29-JUN-2023 12:38
InstruID : SV6.i
LabSampID : HS23061557-03

Acenaphthene-d10 (15067-26-2)

Reason Code:

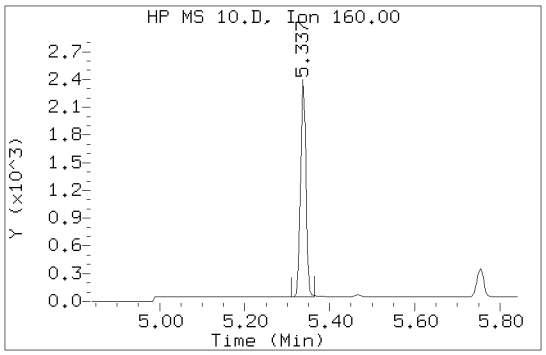
BEFORE

MASS
160
AREA
2095
HEIGHT
2349
29-Jun-2023
12:52
ALSHS
Server



AFTER

MASS
160
AREA
2095
HEIGHT
2349
29-Jun-2023
13:03
ALSHS
Se

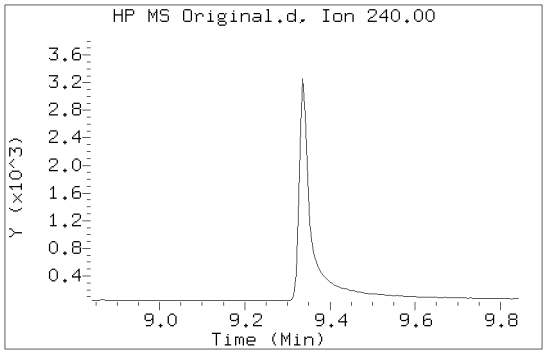


Chrysene-d12 (1719-03-5)

Reason Code:

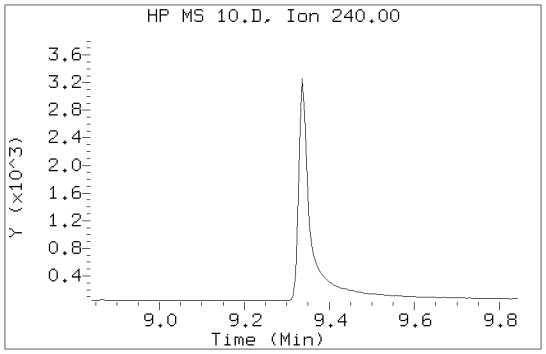
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
12:52
ALSHS
Server



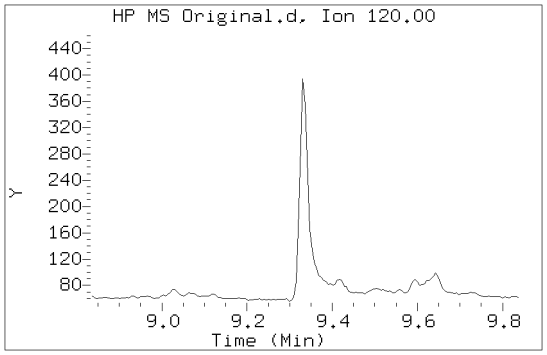
AFTER

MASS
240
AREA
9568
HEIGHT
3244
29-Jun-2023
13:03
ALSHS
Se



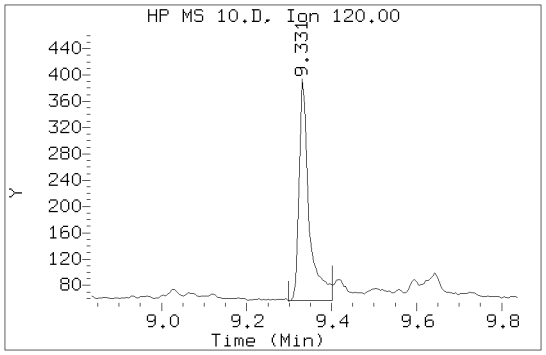
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
12:52
ALSHS
Server



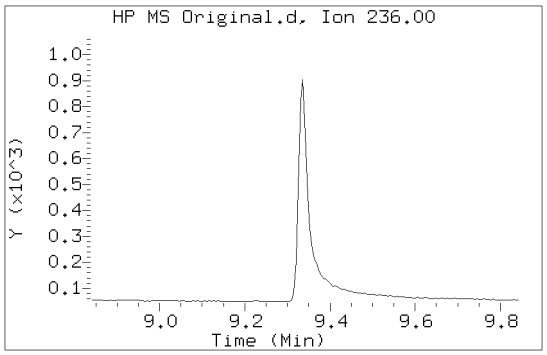
AFTER

MASS
120
AREA
547
HEIGHT
337
29-Jun-2023
13:03
ALSHS
Se



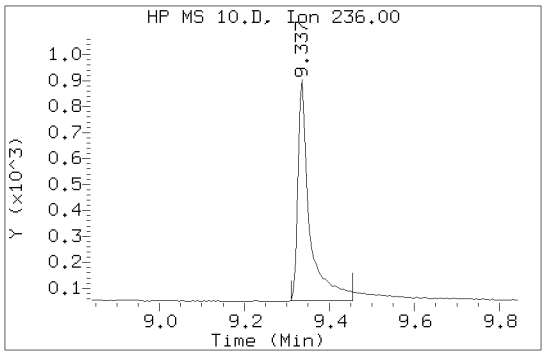
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
12:52
ALSHS
Server



AFTER

MASS
236
AREA
1631
HEIGHT
852
29-Jun-2023
13:03
ALSHS
Se



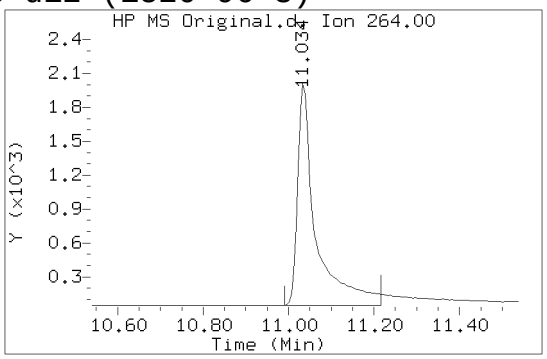
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Inj Date : 29-JUN-2023 12:38
InstruID : SV6.i
LabSampID : HS23061557-03

Perylene-d12 (1520-96-3)

Reason Code:

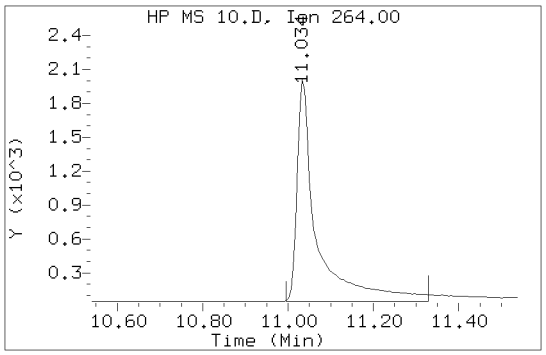
BEFORE

MASS
264
AREA
5786
HEIGHT
1960
29-Jun-2023
12:52
ALSHS
Server



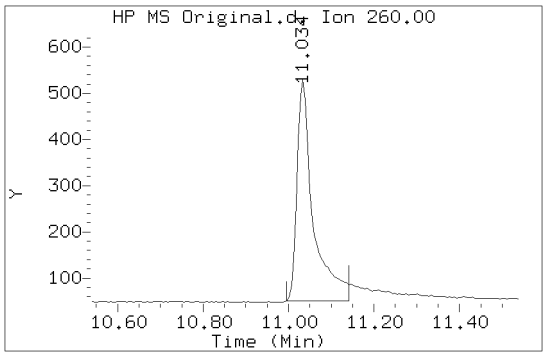
AFTER

MASS
264
AREA
6275
HEIGHT
1960
29-Jun-2023
13:03
ALSHS
Se



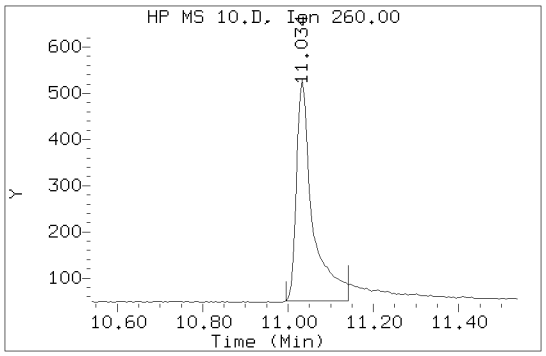
BEFORE

MASS
260
AREA
1258
HEIGHT
478
29-Jun-2023
12:52
ALSHS
Server



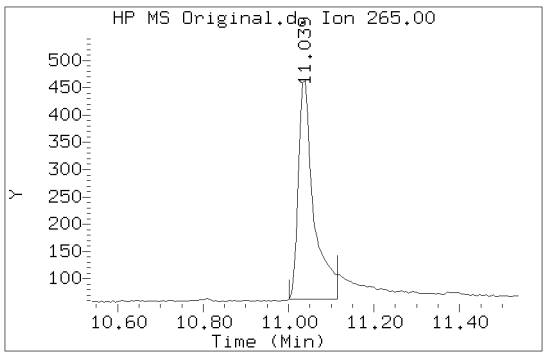
AFTER

MASS
260
AREA
1258
HEIGHT
478
29-Jun-2023
13:03
ALSHS
Se



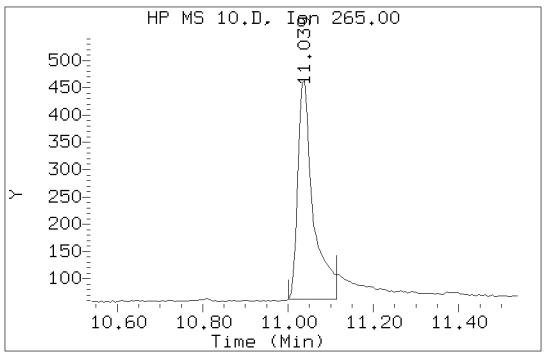
BEFORE

MASS
265
AREA
1004
HEIGHT
400
29-Jun-2023
12:52
ALSHS
Server



AFTER

MASS
265
AREA
1004
HEIGHT
400
29-Jun-2023
13:03
ALSHS
Se

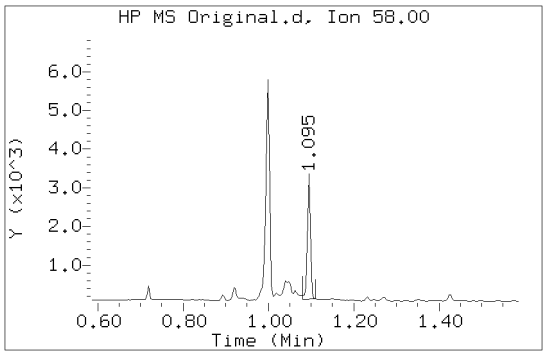


1,4-Dioxane ()

Reason Code:

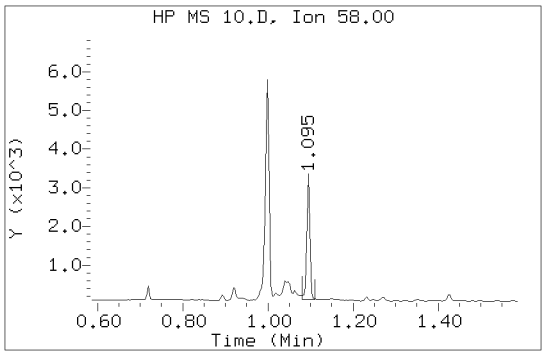
BEFORE

MASS
58
AREA
1599
HEIGHT
3230
29-Jun-2023
12:52
ALSHS
Server



AFTER

MASS
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AREA
1615
HEIGHT
3238
29-Jun-2023
13:03
ALSHS
Se



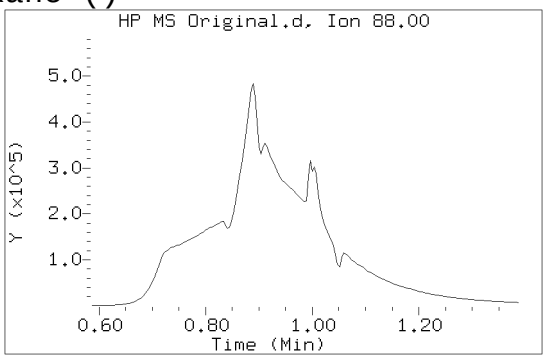
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Inj Date : 29-JUN-2023 12:38
InstruID : SV6.i
LabSampID : HS23061557-03

1,4-Dioxane ()

Reason Code:

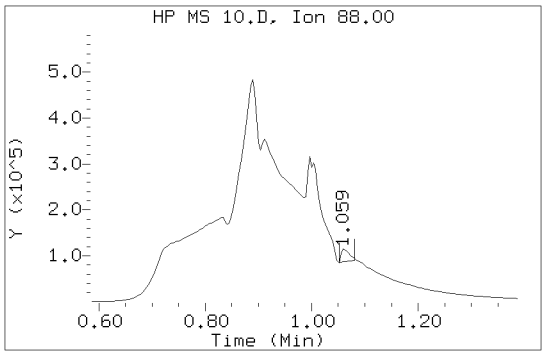
BEFORE

MASS
88
AREA
755205
HEIGHT
113463
29-Jun-2023
12:52
ALSHS
Server



AFTER

MASS
88
AREA
28967
HEIGHT
28106
29-Jun-2023
13:03
ALSHS
Se

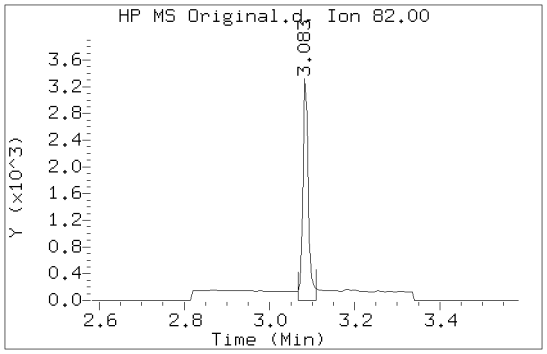


Nitrobenzene-d5 (4165-60-0)

Reason Code:

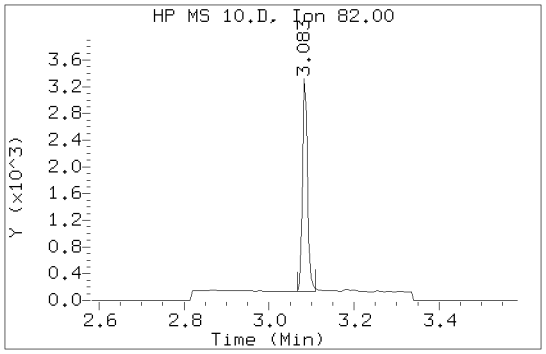
BEFORE

MASS
82
AREA
3059
HEIGHT
3320
29-Jun-2023
12:52
ALSHS
Server



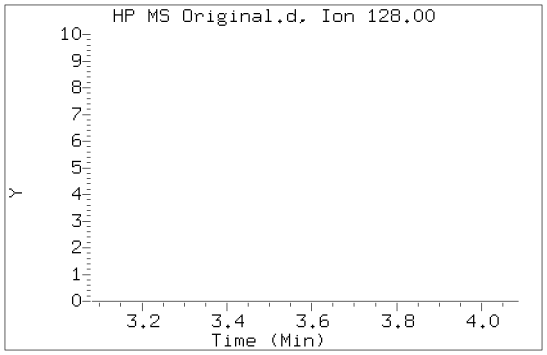
AFTER

MASS
82
AREA
2673
HEIGHT
3187
29-Jun-2023
13:03
ALSHS
Se



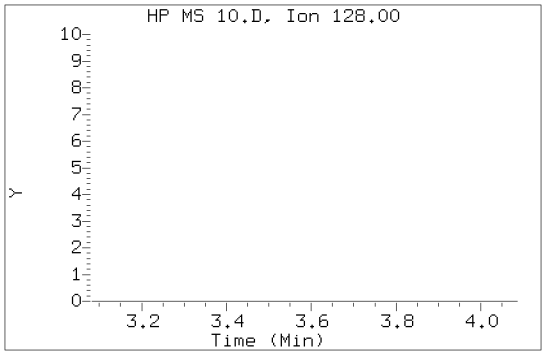
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
12:52
ALSHS
Server



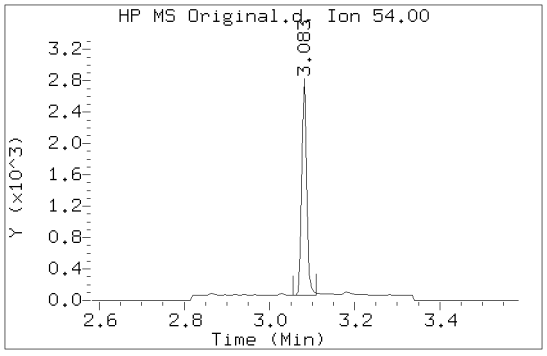
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
13:03
ALSHS
Se



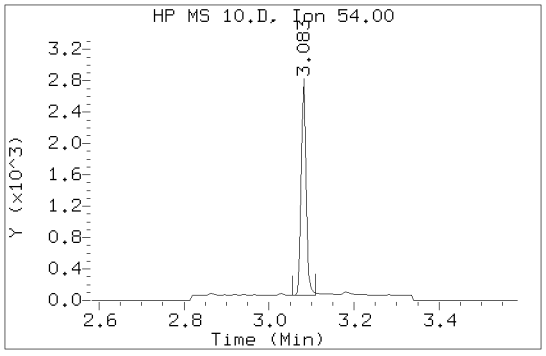
BEFORE

MASS
54
AREA
2269
HEIGHT
2759
29-Jun-2023
12:52
ALSHS
Server



AFTER

MASS
54
AREA
2269
HEIGHT
2759
29-Jun-2023
13:03
ALSHS
Se



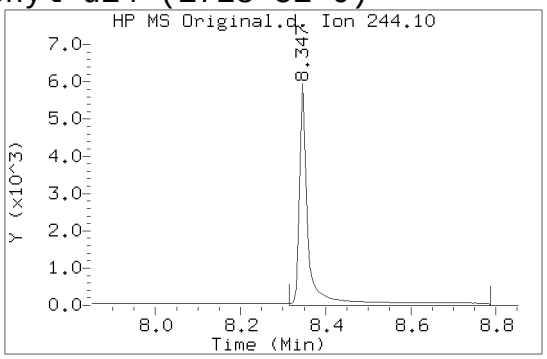
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Inj Date : 29-JUN-2023 12:38
InstruID : SV6.i
LabSampID : HS23061557-03

4-Terphenyl-d14 (1718-51-0)

Reason Code:

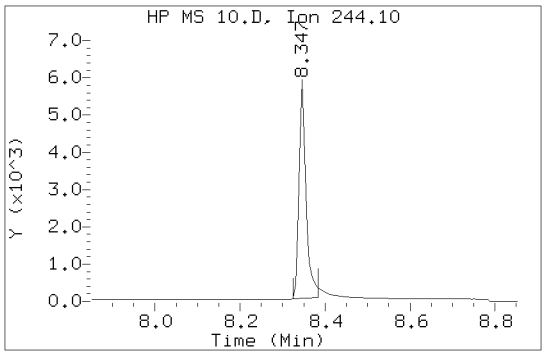
BEFORE

MASS
244.1
AREA
9265
HEIGHT
5950
29-Jun-2023
12:52
ALSHS
Server



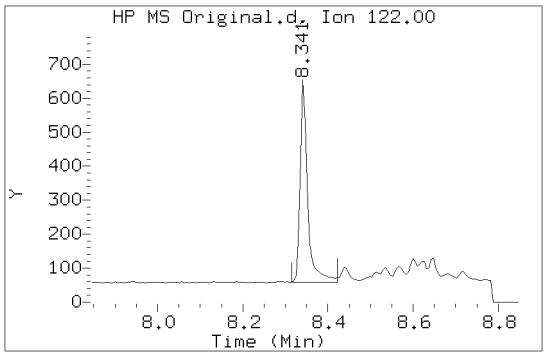
AFTER

MASS
244.1
AREA
6683
HEIGHT
5866
29-Jun-2023
13:03
ALSHS
Se



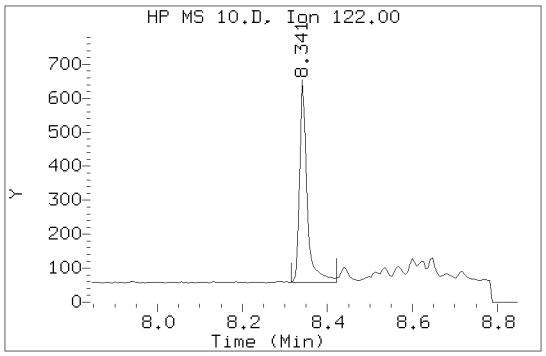
BEFORE

MASS
122
AREA
718
HEIGHT
595
29-Jun-2023
12:52
ALSHS
Server



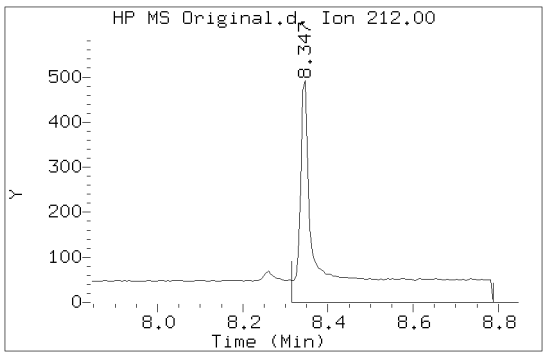
AFTER

MASS
122
AREA
718
HEIGHT
595
29-Jun-2023
13:03
ALSHS
Se



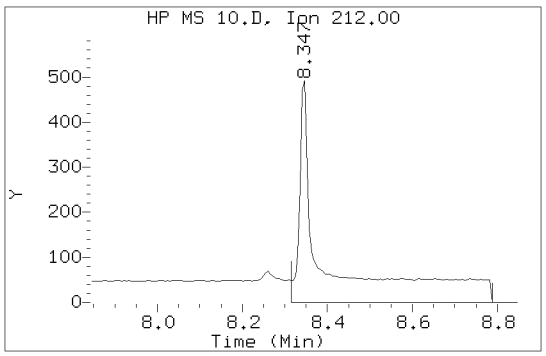
BEFORE

MASS
212
AREA
2015
HEIGHT
492
29-Jun-2023
12:52
ALSHS
Server



AFTER

MASS
212
AREA
2015
HEIGHT
492
29-Jun-2023
13:03
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\11.D
Lab Smp Id: HS23061557-04 Client Smp ID: HS23061557-04
Inj Date : 29-JUN-2023 12:56
Operator : LG Inst ID: SV6.i
Smp Info : HS23061557-04
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.642	2.637	(1.000)	3622	0.10000	(aM)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	11075	0.10000	
$ 33 Nitrobenzene-d5	82	3.088	3.082	(0.834)	3033	0.09014	0.09014(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	7231	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.723	4.726	(0.884)	6976	0.09434	0.09434(M)
* 126 Phenanthrene-d10	188	6.759	6.765	(1.000)	13127	0.10000	
* 182 Chrysene-d12	240	9.336	9.341	(1.000)	11395	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.341	8.351	(0.893)	7851	0.09339	0.09339(M)
* 198 Perylene-d12	264	11.033	11.038	(1.000)	8337	0.10000	
1 1,4-Dioxane	58	1.091	1.084	(0.413)	175	0.01424	0.01424(Q)

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.

01200023

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\11.D

Date : 29-JUN-2023 12:56

Client ID: HS23061557-04

Instrument: SV6.i

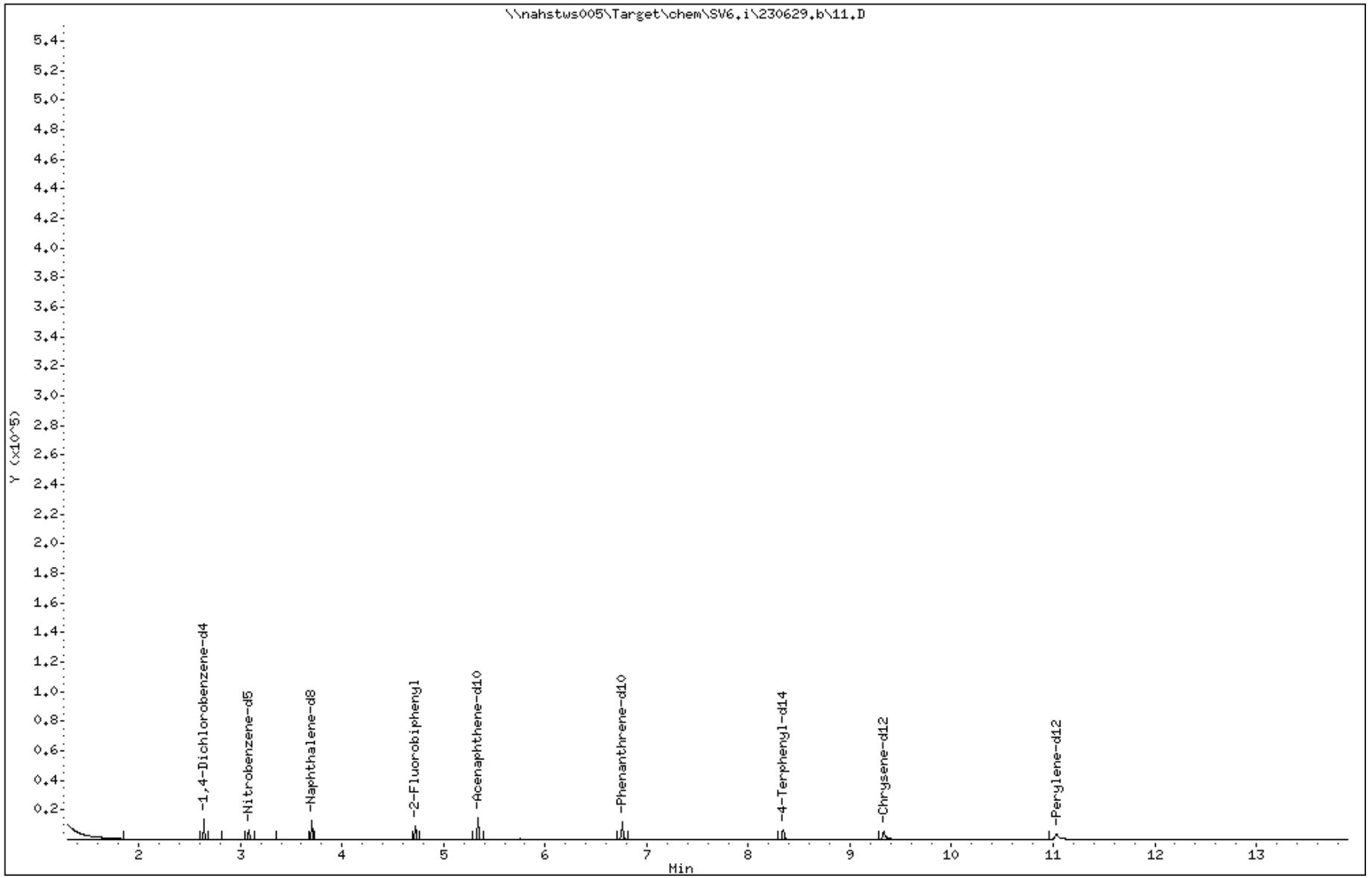
Sample Info: HS23061557-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\11.D

Date : 29-JUN-2023 12:56

Client ID: HS23061557-04

Instrument: SV6.i

Sample Info: HS23061557-04

Purge Volume: 1000.0

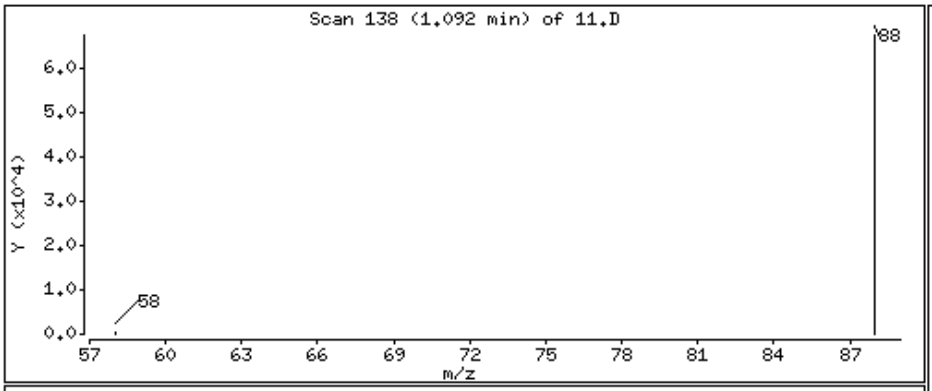
Operator: LG

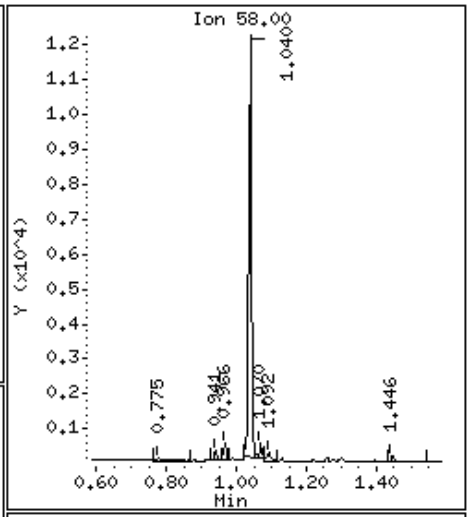
Column phase: RTX-5SIL MS

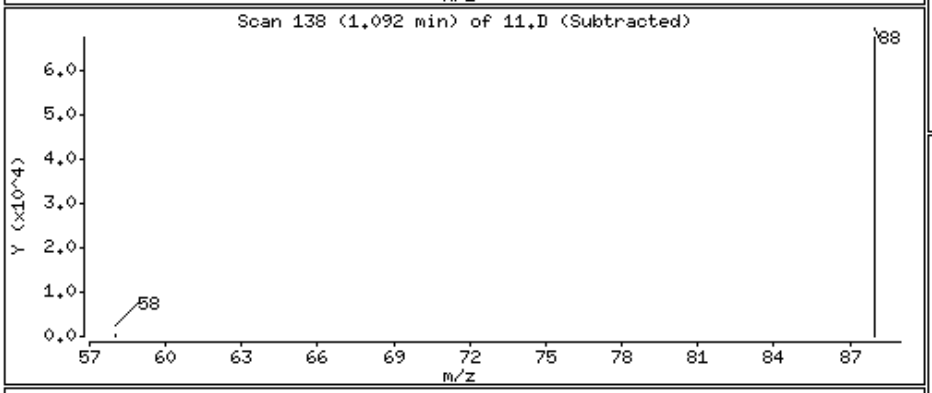
Column diameter: 0.28

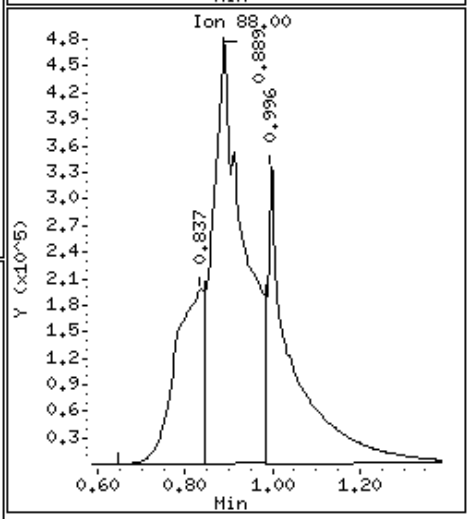
1 1,4-Dioxane

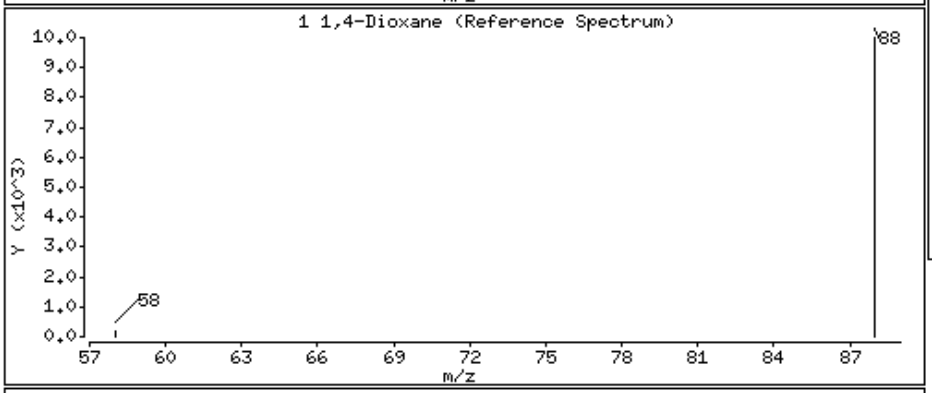
Concentration: 0.01424 ug/L

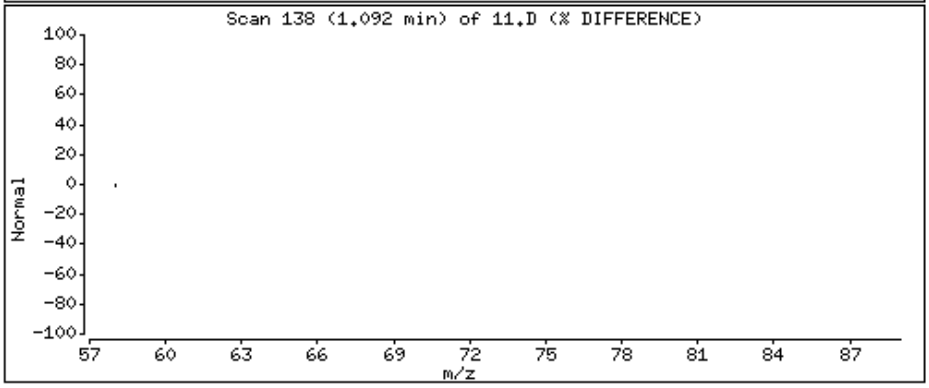












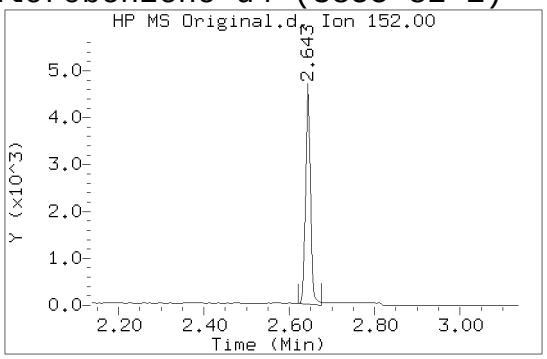
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Inj Date : 29-JUN-2023 12:56
InstruID : SV6.i
LabSampID : HS23061557-04

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

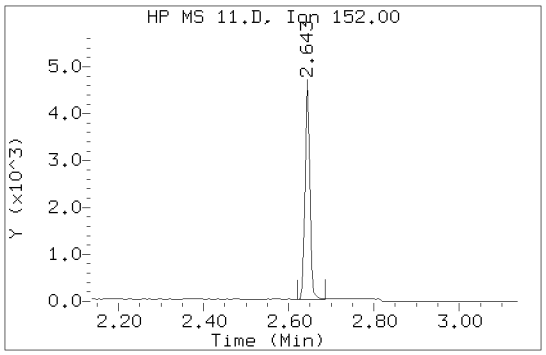
BEFORE

MASS
152
AREA
3679
HEIGHT
4695
29-Jun-2023
13:12
ALSHS
Server



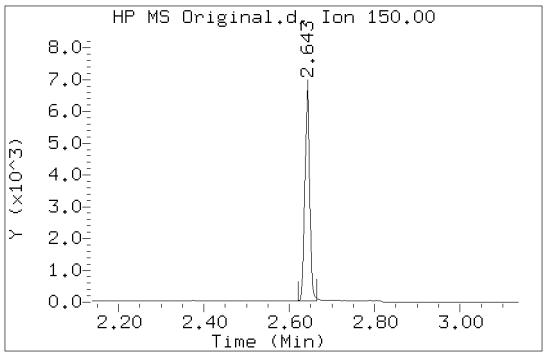
AFTER

MASS
152
AREA
3622
HEIGHT
4682
29-Jun-2023
13:16
ALSHS
Se



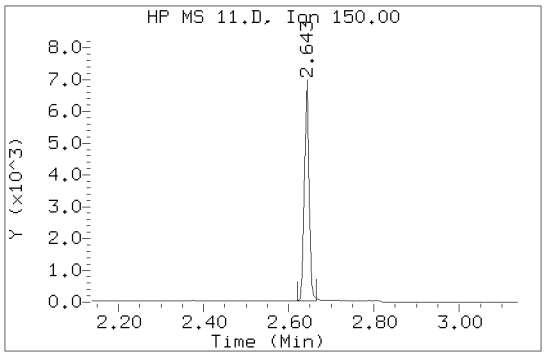
BEFORE

MASS
150
AREA
5152
HEIGHT
6942
29-Jun-2023
13:12
ALSHS
Server



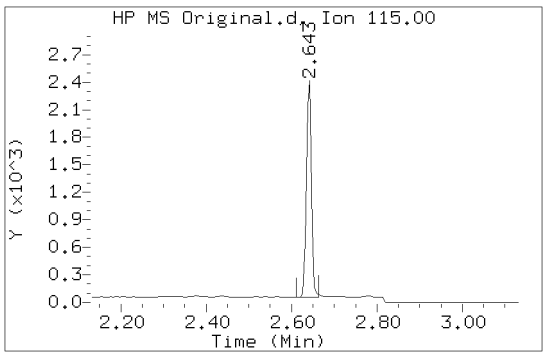
AFTER

MASS
150
AREA
5152
HEIGHT
6942
29-Jun-2023
13:16
ALSHS
Se



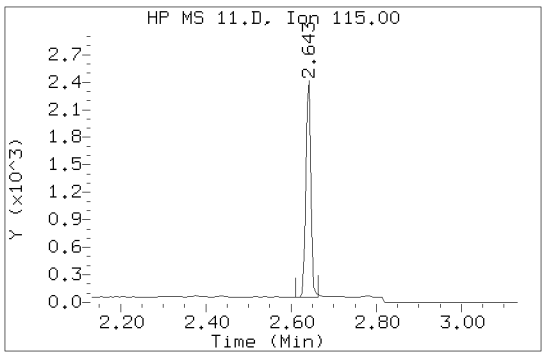
BEFORE

MASS
115
AREA
1944
HEIGHT
2360
29-Jun-2023
13:12
ALSHS
Server



AFTER

MASS
115
AREA
1944
HEIGHT
2360
29-Jun-2023
13:16
ALSHS
Se

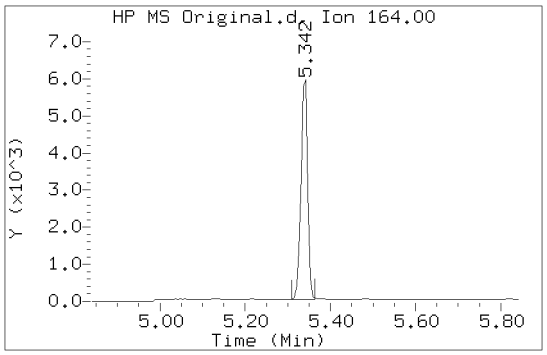


Acenaphthene-d10 (15067-26-2)

Reason Code:

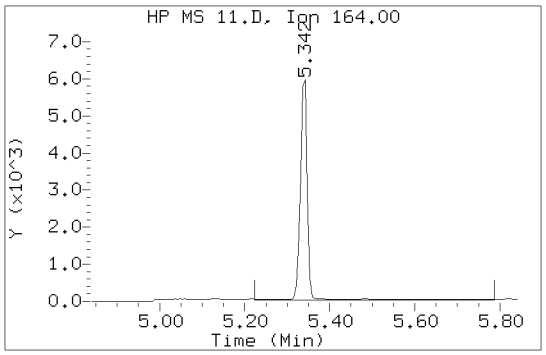
BEFORE

MASS
164
AREA
6519
HEIGHT
5918
29-Jun-2023
13:12
ALSHS
Server



AFTER

MASS
164
AREA
7231
HEIGHT
5941
29-Jun-2023
13:16
ALSHS
Se



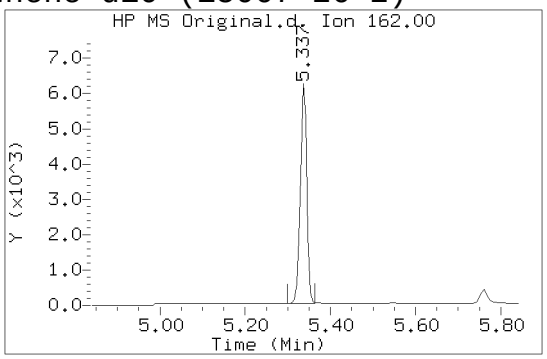
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\11.D
Inj Date : 29-JUN-2023 12:56
InstruID : SV6.i
LabSampID : HS23061557-04

Acenaphthene-d10 (15067-26-2)

Reason Code:

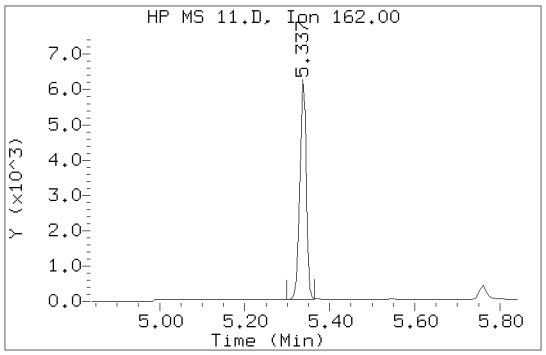
BEFORE

MASS
162
AREA
6612
HEIGHT
6225
29-Jun-2023
13:12
ALSHS
Server



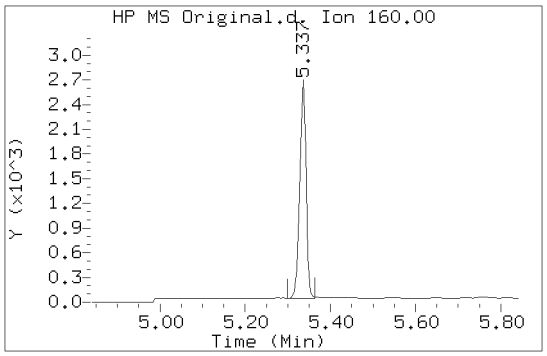
AFTER

MASS
162
AREA
6612
HEIGHT
6225
29-Jun-2023
13:16
ALSHS
Se



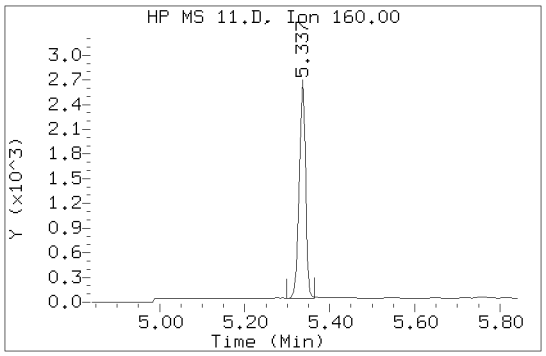
BEFORE

MASS
160
AREA
2765
HEIGHT
2650
29-Jun-2023
13:12
ALSHS
Server



AFTER

MASS
160
AREA
2765
HEIGHT
2650
29-Jun-2023
13:16
ALSHS
Se

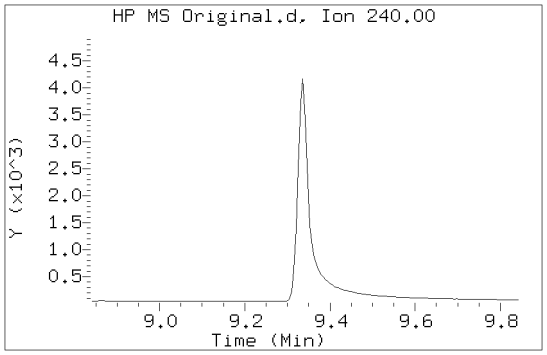


Chrysene-d12 (1719-03-5)

Reason Code:

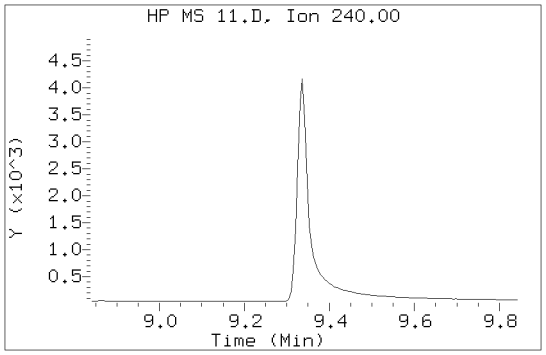
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
13:12
ALSHS
Server



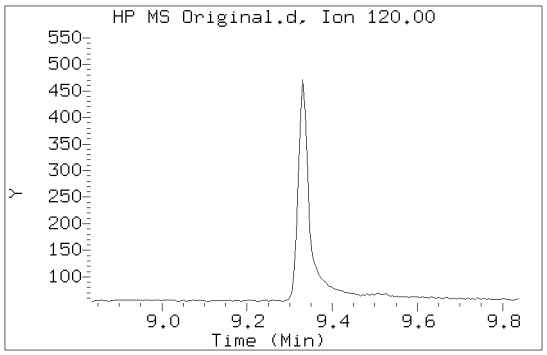
AFTER

MASS
240
AREA
11395
HEIGHT
4136
29-Jun-2023
13:16
ALSHS
Se



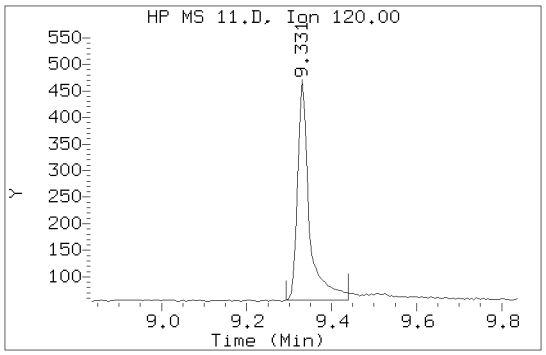
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
13:12
ALSHS
Server



AFTER

MASS
120
AREA
789
HEIGHT
414
29-Jun-2023
13:16
ALSHS
Se

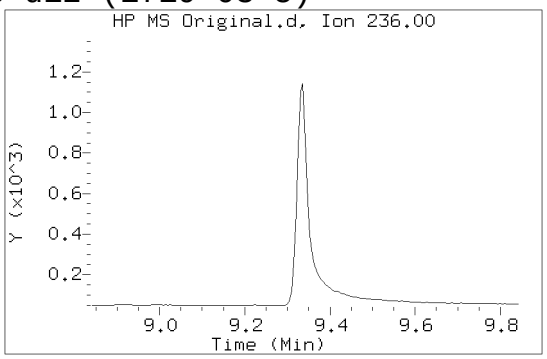


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Inj Date : 29-JUN-2023 12:56
InstruID : SV6.i
LabSampID : HS23061557-04

Chrysene-d12 (1719-03-5)

BEFORE

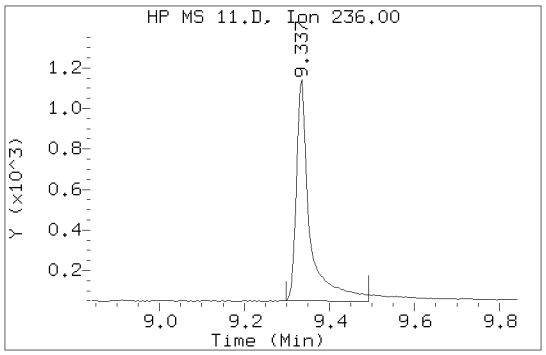
MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
13:12
ALSHS
Server



Reason Code:

AFTER

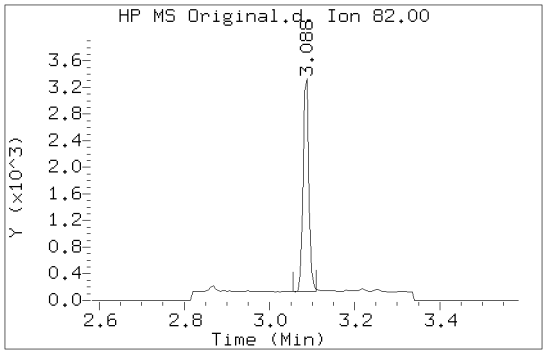
MASS
236
AREA
2410
HEIGHT
1092
29-Jun-2023
13:16
ALSHS
Se



Nitrobenzene-d5 (4165-60-0)

BEFORE

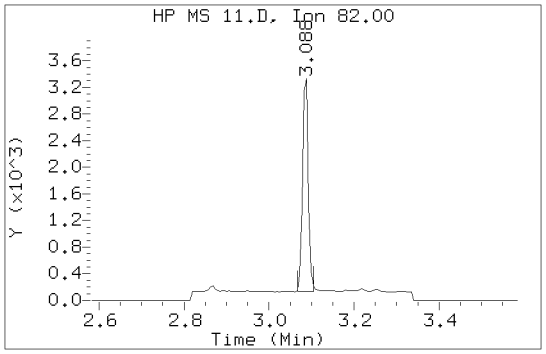
MASS
82
AREA
3054
HEIGHT
3201
29-Jun-2023
13:12
ALSHS
Server



Reason Code:

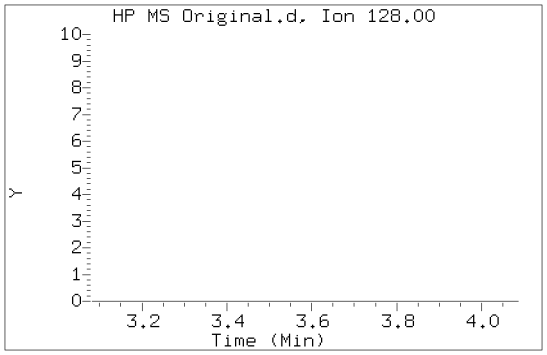
AFTER

MASS
82
AREA
3033
HEIGHT
3197
29-Jun-2023
13:16
ALSHS
Se



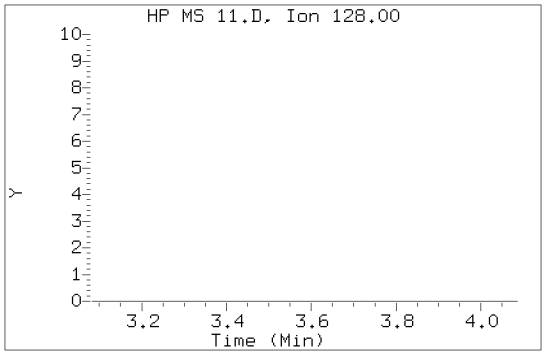
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
13:12
ALSHS
Server



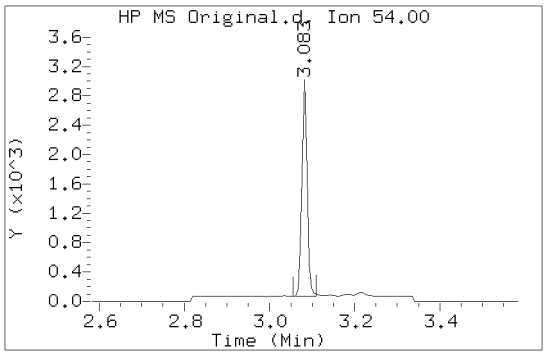
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
13:16
ALSHS
Se



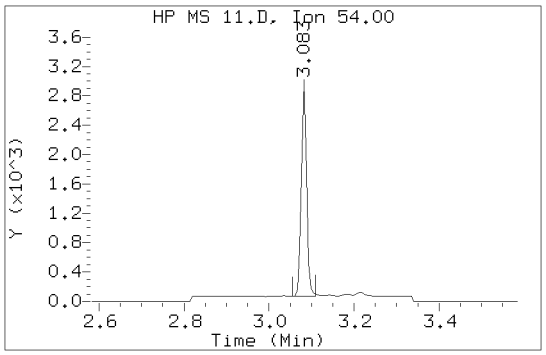
BEFORE

MASS
54
AREA
2581
HEIGHT
2954
29-Jun-2023
13:12
ALSHS
Server



AFTER

MASS
54
AREA
2581
HEIGHT
2954
29-Jun-2023
13:16
ALSHS
Se

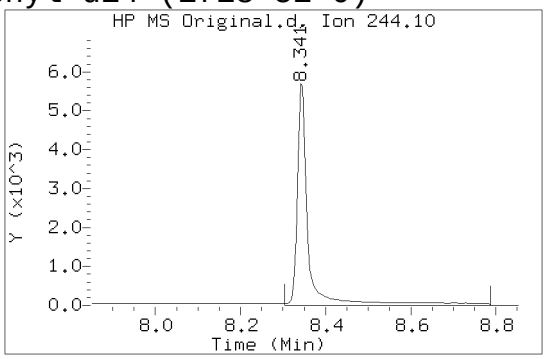


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Inj Date : 29-JUN-2023 12:56
InstruID : SV6.i
LabSampID : HS23061557-04

4-Terphenyl-d14 (1718-51-0)

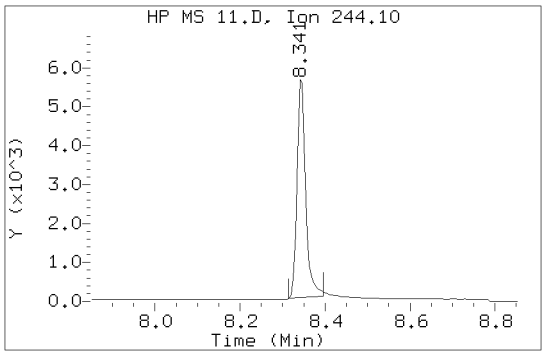
Reason Code:

BEFORE



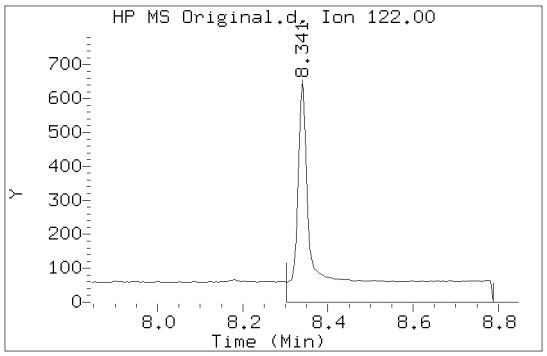
MASS
244.1
AREA
10287
HEIGHT
5696
29-Jun-2023
13:12
ALSHS
Server

AFTER



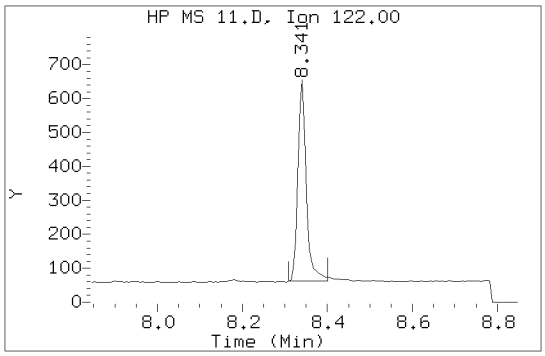
MASS
244.1
AREA
7851
HEIGHT
5592
29-Jun-2023
13:16
ALSHS
Se

BEFORE



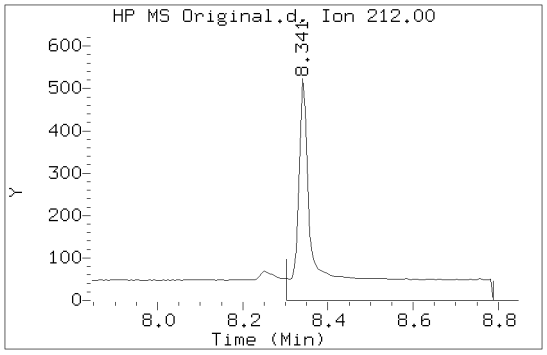
MASS
122
AREA
2627
HEIGHT
655
29-Jun-2023
13:12
ALSHS
Server

AFTER



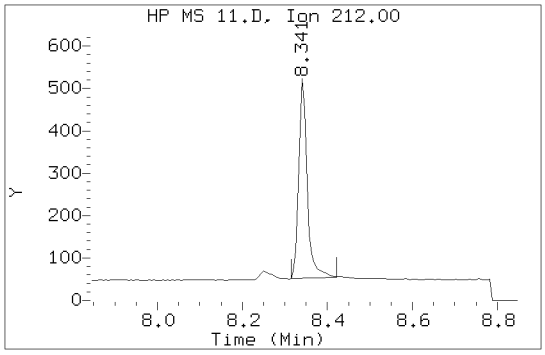
MASS
122
AREA
812
HEIGHT
593
29-Jun-2023
13:16
ALSHS
Se

BEFORE



MASS
212
AREA
2132
HEIGHT
523
29-Jun-2023
13:12
ALSHS
Server

AFTER

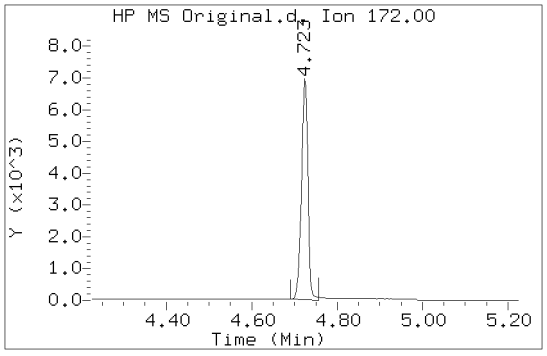


MASS
212
AREA
652
HEIGHT
471
29-Jun-2023
13:16
ALSHS
Se

2-Fluorobiphenyl (321-60-8)

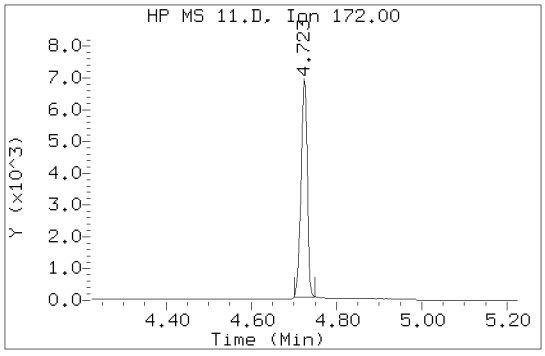
Reason Code:

BEFORE



MASS
172
AREA
7254
HEIGHT
6953
29-Jun-2023
13:12
ALSHS
Server

AFTER



MASS
172
AREA
6976
HEIGHT
6880
29-Jun-2023
13:16
ALSHS
Se

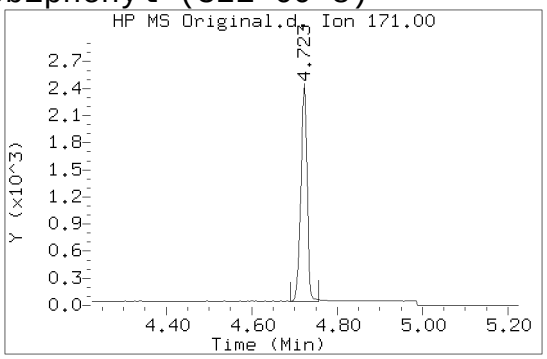
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\11.D
Inj Date : 29-JUN-2023 12:56
InstruID : SV6.i
LabSampID : HS23061557-04

2-Fluorobiphenyl (321-60-8)

Reason Code:

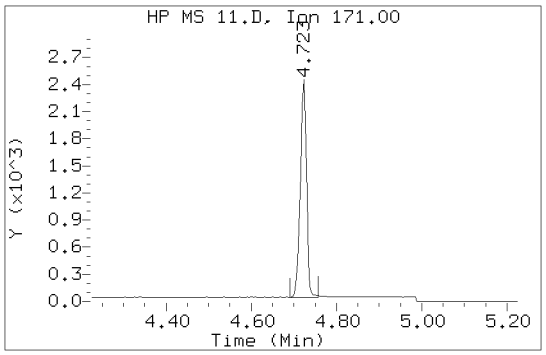
BEFORE

MASS
171
AREA
2425
HEIGHT
2408
29-Jun-2023
13:12
ALSHS
Server



AFTER

MASS
171
AREA
2425
HEIGHT
2408
29-Jun-2023
13:16
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\12.D Page 1
Report Date: 29-Jun-2023 13:36

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\12.D
Lab Smp Id: HS23061557-05 Client Smp ID: HS23061557-05
Inj Date : 29-JUN-2023 13:14
Operator : LG Inst ID: SV6.i
Smp Info : HS23061557-05
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.642	2.637	(1.000)	2894	0.10000	(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	9092	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2557	0.09256	0.09256(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	6431	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	6120	0.09306	0.09306(M)
* 126 Phenanthrene-d10	188	6.759	6.765	(1.000)	10607	0.10000	
* 182 Chrysene-d12	240	9.336	9.341	(1.000)	9825	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.894)	6463	0.08916	0.08916(M)
* 198 Perylene-d12	264	11.033	11.038	(1.000)	6687	0.10000	
1 1,4-Dioxane	58	1.106	1.084	(0.419)	502	0.05112	0.05112(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01200031

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\12.D

Date : 29-JUN-2023 13:14

Client ID: HS23061557-05

Instrument: SV6.i

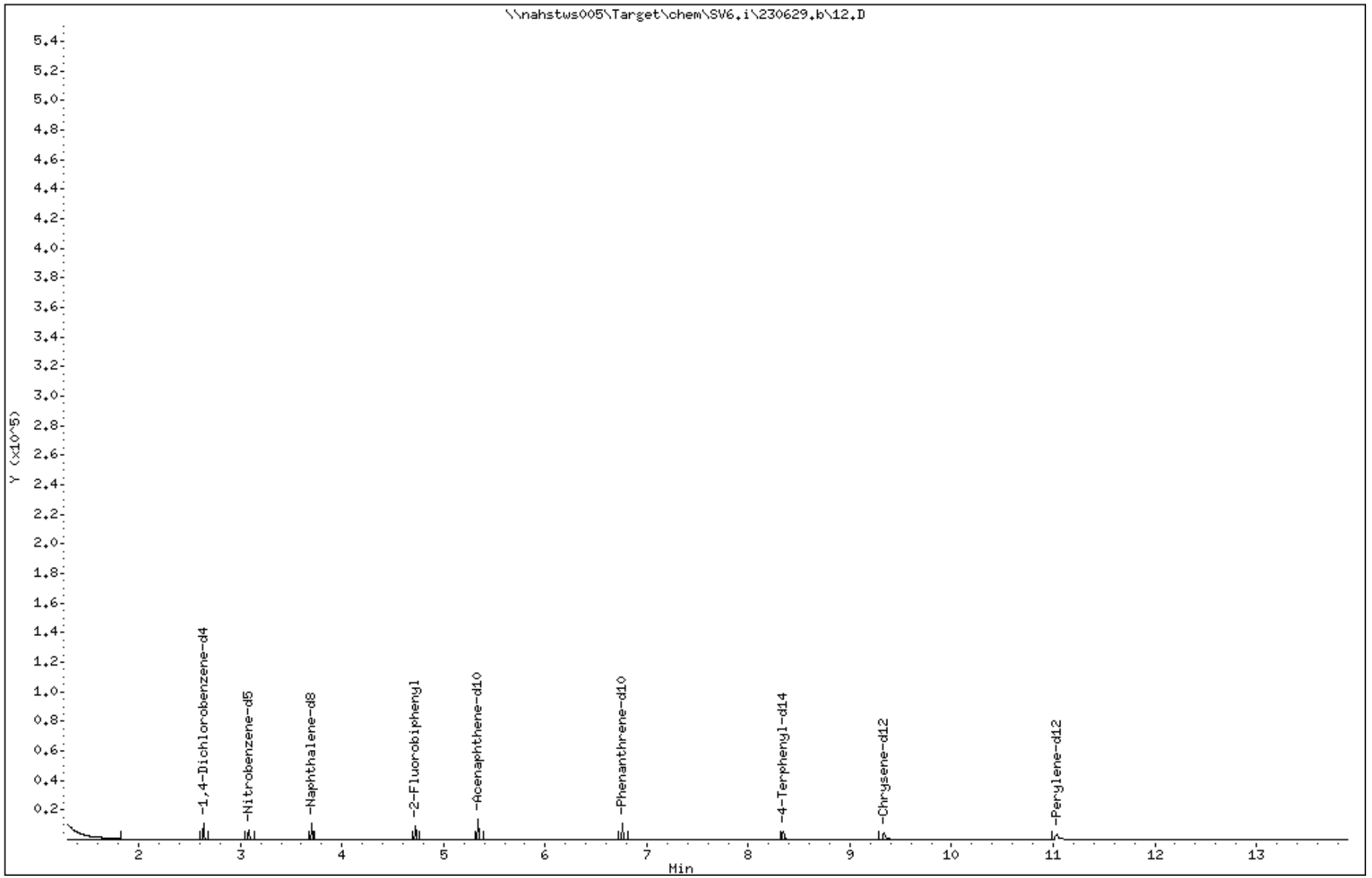
Sample Info: HS23061557-05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\12.D

Date : 29-JUN-2023 13:14

Client ID: HS23061557-05

Instrument: SV6.i

Sample Info: HS23061557-05

Purge Volume: 1000.0

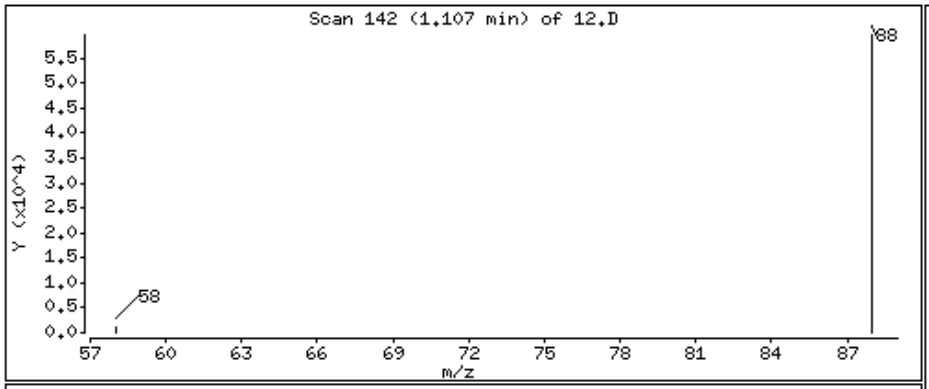
Operator: LG

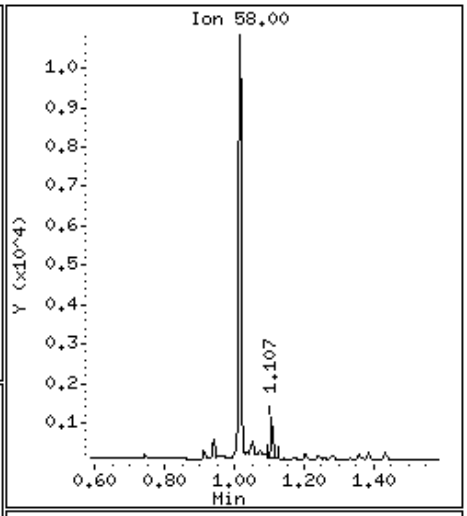
Column phase: RTX-5SIL MS

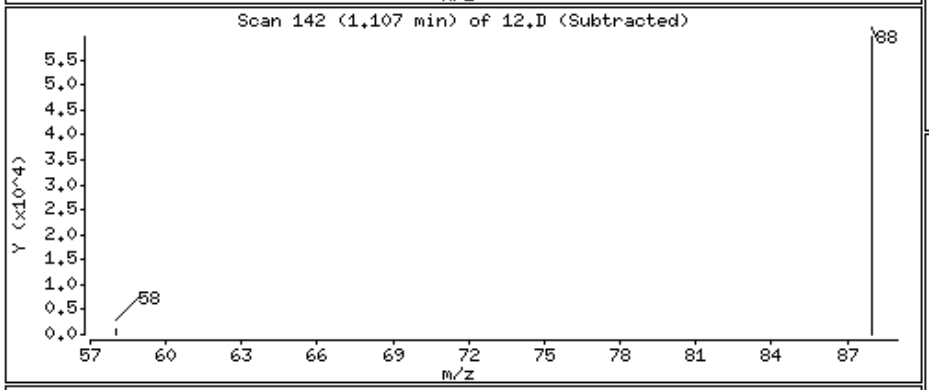
Column diameter: 0.28

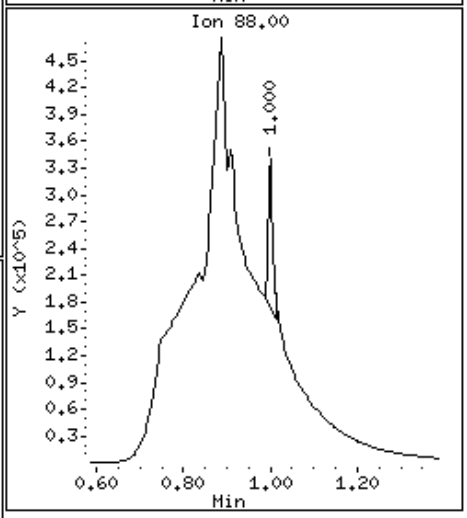
1 1,4-Dioxane

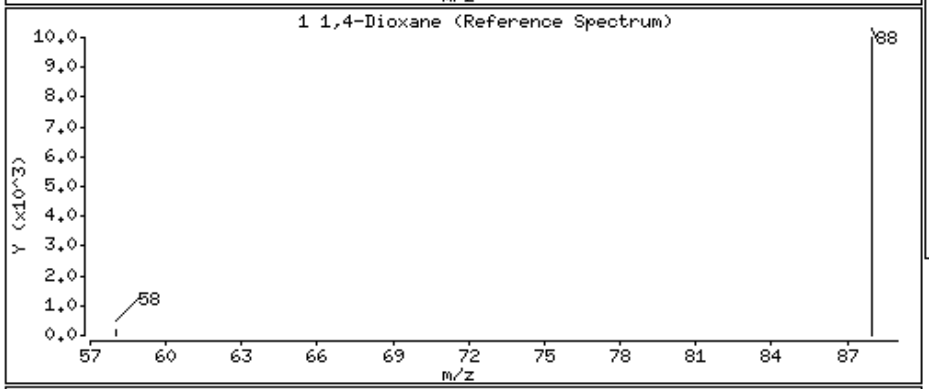
Concentration: 0.05112 ug/L

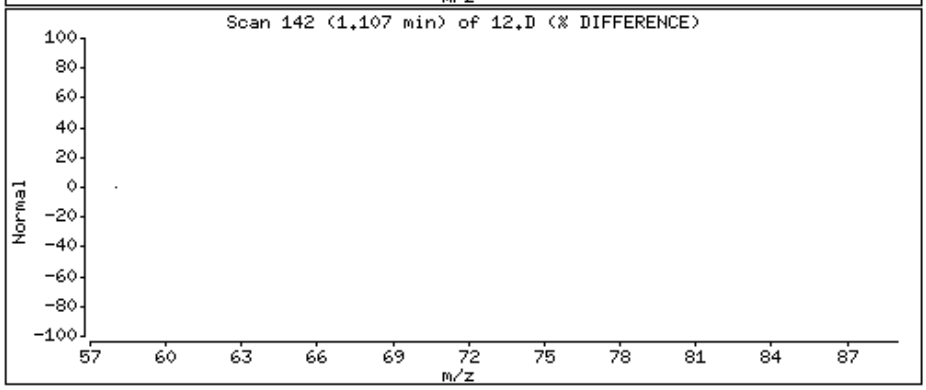












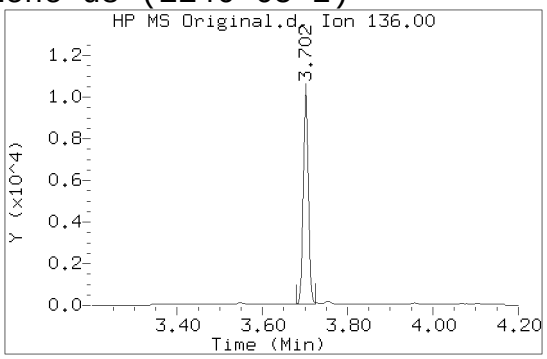
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Inj Date : 29-JUN-2023 13:14
InstruID : SV6.i
LabSampID : HS23061557-05

Naphthalene-d8 (1146-65-2)

Reason Code:

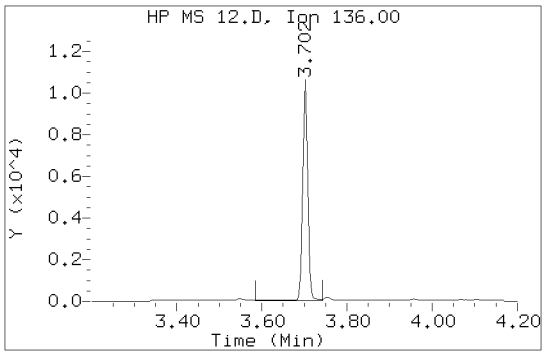
BEFORE

MASS
136
AREA
8851
HEIGHT
10589
29-Jun-2023
13:29
ALSHS
Server



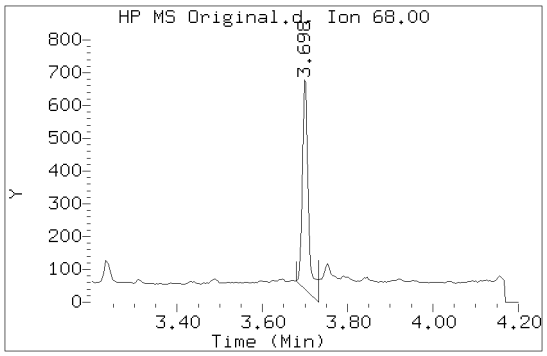
AFTER

MASS
136
AREA
9092
HEIGHT
10610
29-Jun-2023
13:36
ALSHS
Se



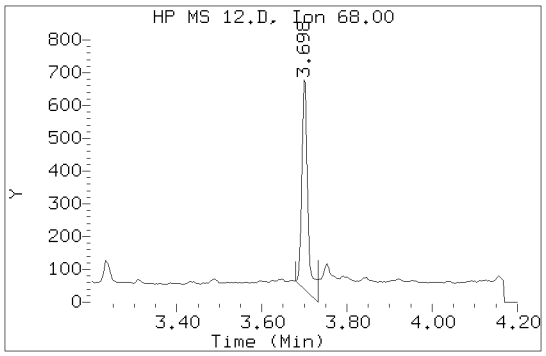
BEFORE

MASS
68
AREA
653
HEIGHT
636
29-Jun-2023
13:29
ALSHS
Server



AFTER

MASS
68
AREA
653
HEIGHT
636
29-Jun-2023
13:36
ALSHS
Se

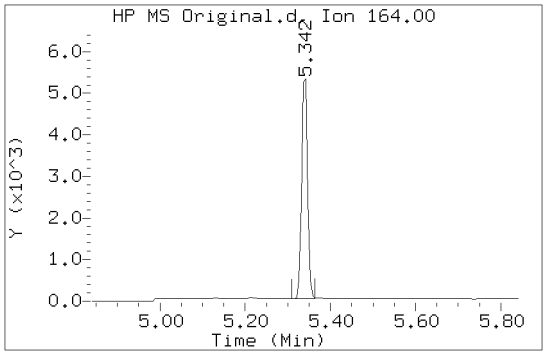


Acenaphthene-d10 (15067-26-2)

Reason Code:

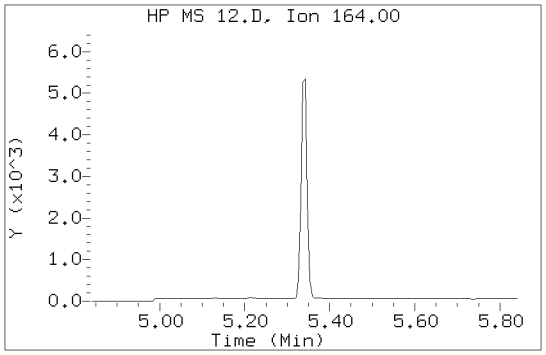
BEFORE

MASS
164
AREA
5214
HEIGHT
5285
29-Jun-2023
13:29
ALSHS
Server



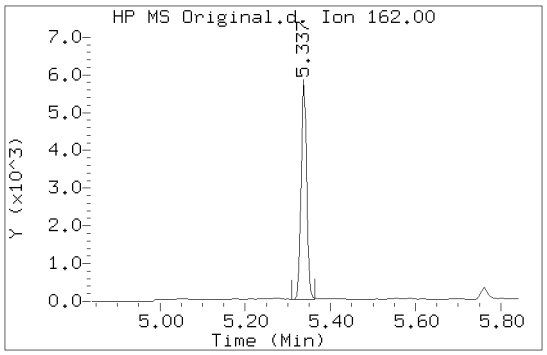
AFTER

MASS
164
AREA
6431
HEIGHT
5313
29-Jun-2023
13:36
ALSHS
Se



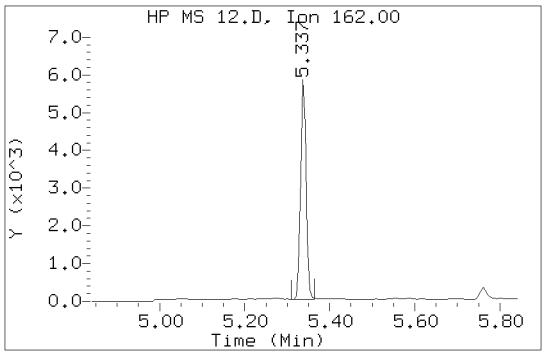
BEFORE

MASS
162
AREA
5315
HEIGHT
5817
29-Jun-2023
13:29
ALSHS
Server



AFTER

MASS
162
AREA
5315
HEIGHT
5817
29-Jun-2023
13:36
ALSHS
Se



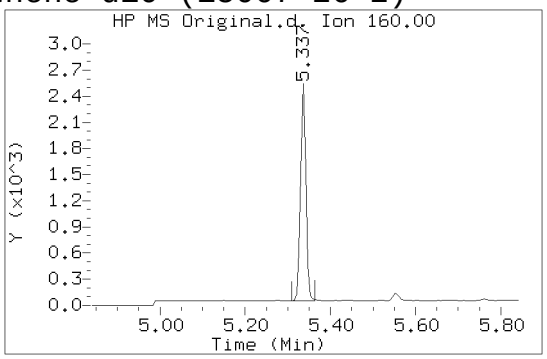
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\12.D
Inj Date : 29-JUN-2023 13:14
InstruID : SV6.i
LabSampID : HS23061557-05

Acenaphthene-d10 (15067-26-2)

Reason Code:

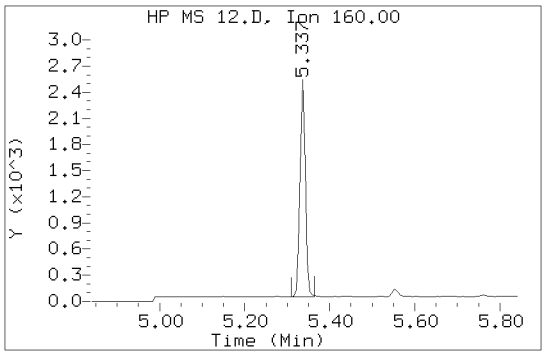
BEFORE

MASS
160
AREA
2221
HEIGHT
2491
29-Jun-2023
13:29
ALSHS
Server



AFTER

MASS
160
AREA
2221
HEIGHT
2491
29-Jun-2023
13:36
ALSHS
Se

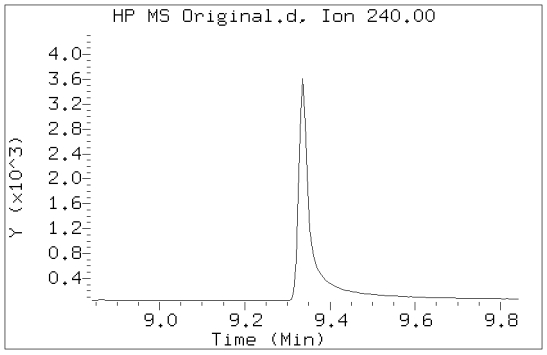


Chrysene-d12 (1719-03-5)

Reason Code:

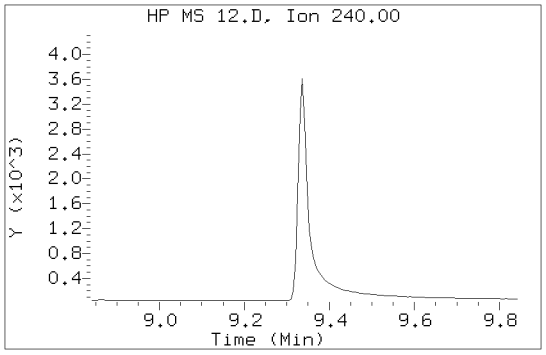
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
13:29
ALSHS
Server



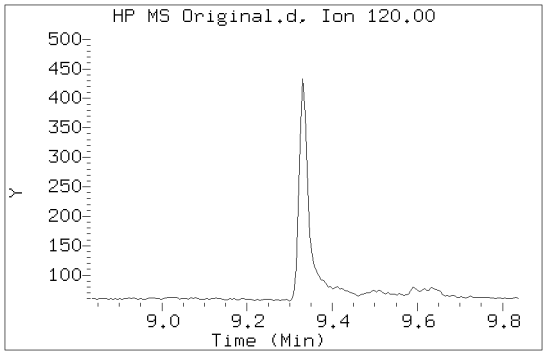
AFTER

MASS
240
AREA
9825
HEIGHT
3587
29-Jun-2023
13:36
ALSHS
Se



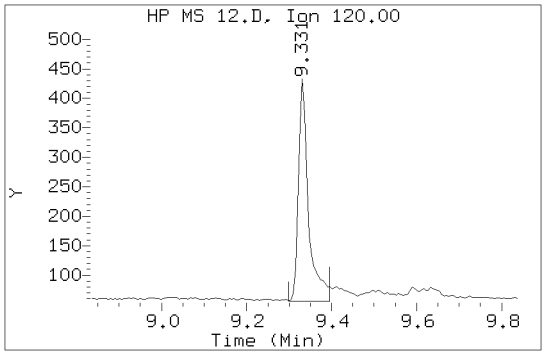
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
13:29
ALSHS
Server



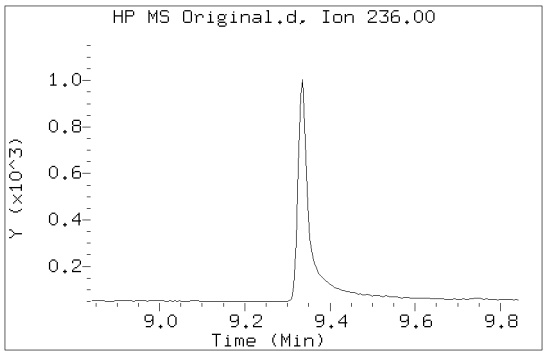
AFTER

MASS
120
AREA
617
HEIGHT
377
29-Jun-2023
13:36
ALSHS
Se



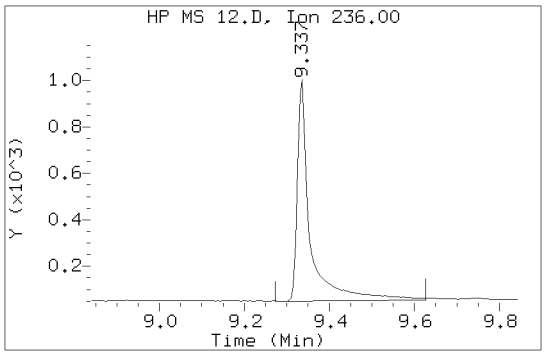
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
13:29
ALSHS
Server



AFTER

MASS
236
AREA
2012
HEIGHT
953
29-Jun-2023
13:36
ALSHS
Se



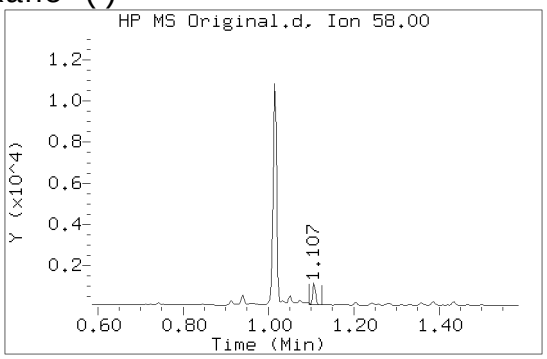
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Inj Date : 29-JUN-2023 13:14
InstruID : SV6.i
LabSampID : HS23061557-05

1,4-Dioxane ()

Reason Code:

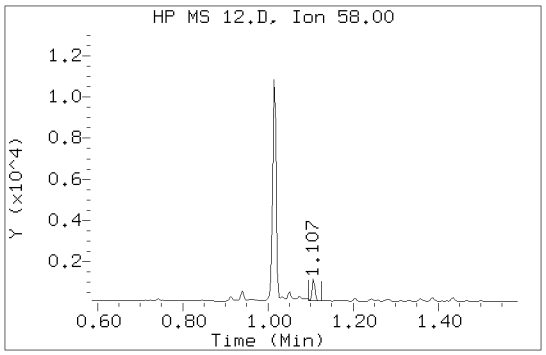
BEFORE

MASS
58
AREA
502
HEIGHT
1048
29-Jun-2023
13:29
ALSHS
Server



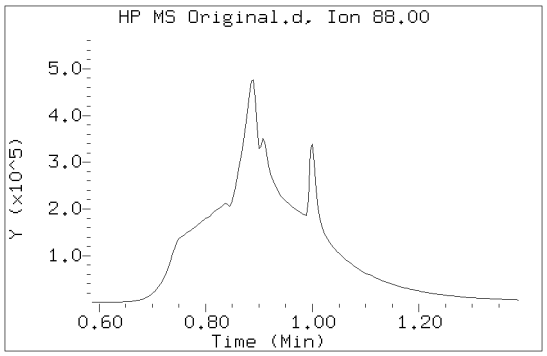
AFTER

MASS
58
AREA
502
HEIGHT
1048
29-Jun-2023
13:36
ALSHS
Se



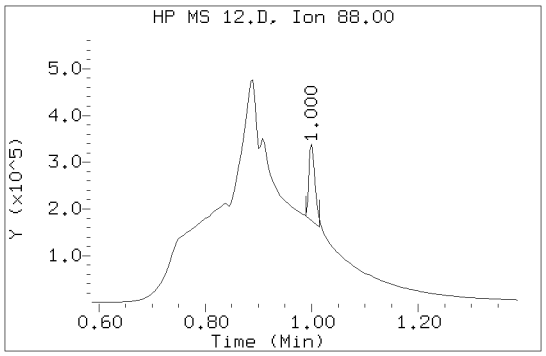
BEFORE

MASS
88
AREA
1348445
HEIGHT
337938
29-Jun-2023
13:29
ALSHS
Server



AFTER

MASS
88
AREA
133970
HEIGHT
164795
29-Jun-2023
13:36
ALSHS
Se

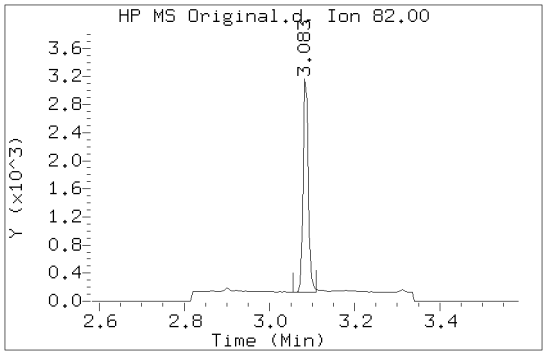


Nitrobenzene-d5 (4165-60-0)

Reason Code:

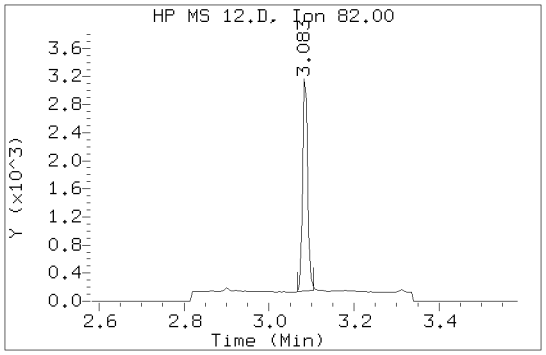
BEFORE

MASS
82
AREA
2615
HEIGHT
3036
29-Jun-2023
13:29
ALSHS
Server



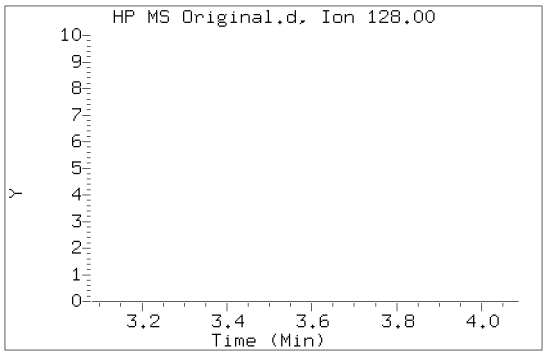
AFTER

MASS
82
AREA
2557
HEIGHT
3020
29-Jun-2023
13:36
ALSHS
Se



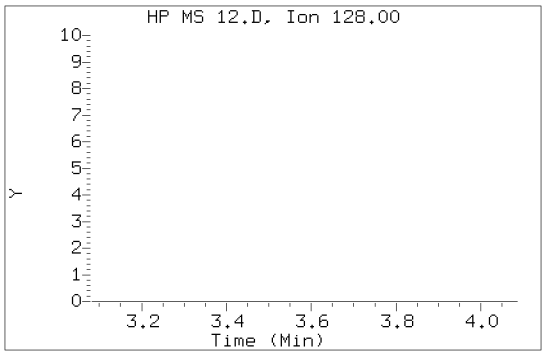
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
13:29
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
13:36
ALSHS
Se



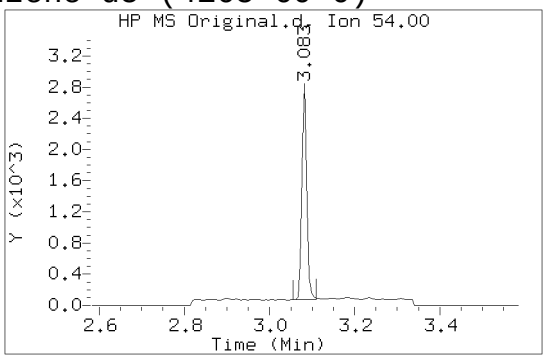
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Inj Date : 29-JUN-2023 13:14
InstruID : SV6.i
LabSampID : HS23061557-05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

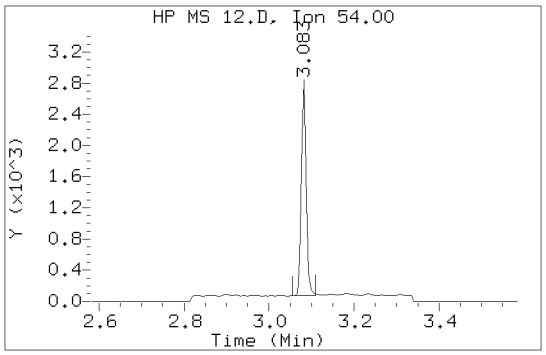
BEFORE

MASS
54
AREA
2214
HEIGHT
2768
29-Jun-2023
13:29
ALSHS
Server



AFTER

MASS
54
AREA
2214
HEIGHT
2768
29-Jun-2023
13:36
ALSHS
Se

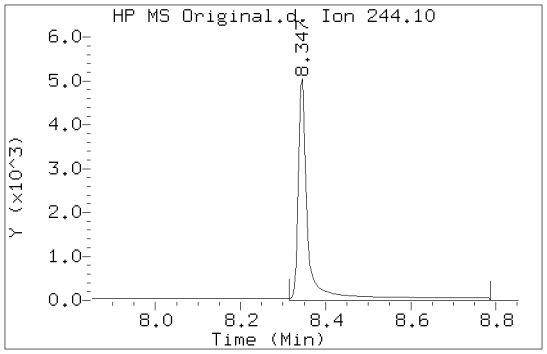


4-Terphenyl-d14 (1718-51-0)

Reason Code:

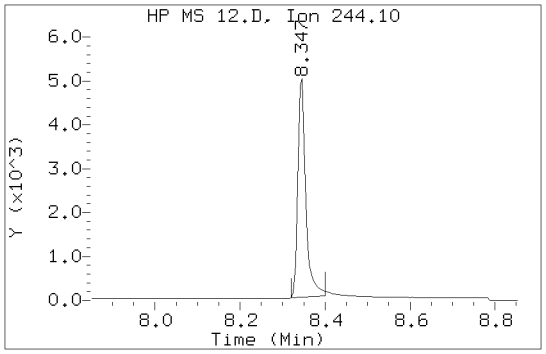
BEFORE

MASS
244.1
AREA
8675
HEIGHT
5053
29-Jun-2023
13:29
ALSHS
Server



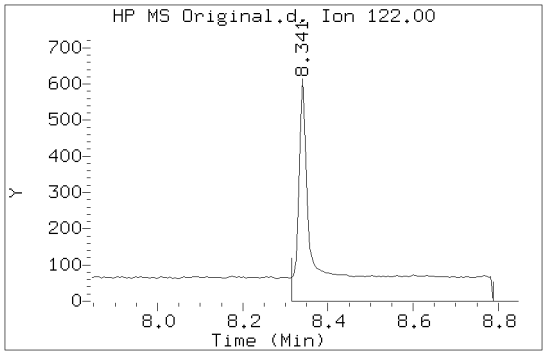
AFTER

MASS
244.1
AREA
6463
HEIGHT
4977
29-Jun-2023
13:36
ALSHS
Se



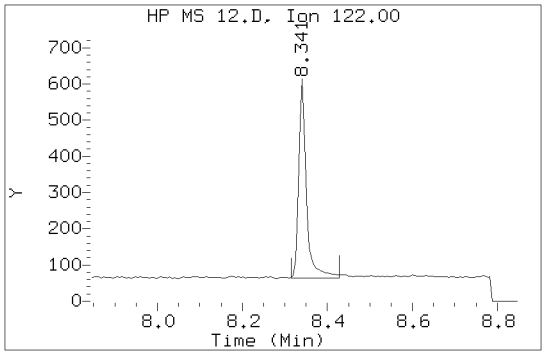
BEFORE

MASS
122
AREA
2602
HEIGHT
614
29-Jun-2023
13:29
ALSHS
Server



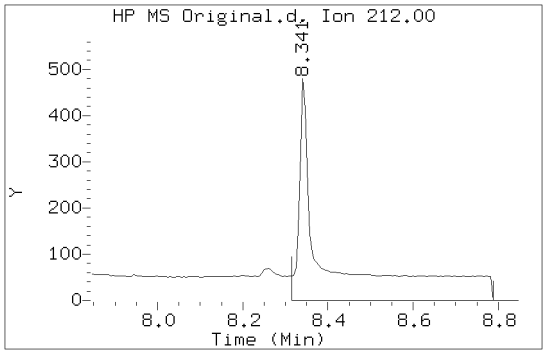
AFTER

MASS
122
AREA
685
HEIGHT
550
29-Jun-2023
13:36
ALSHS
Se



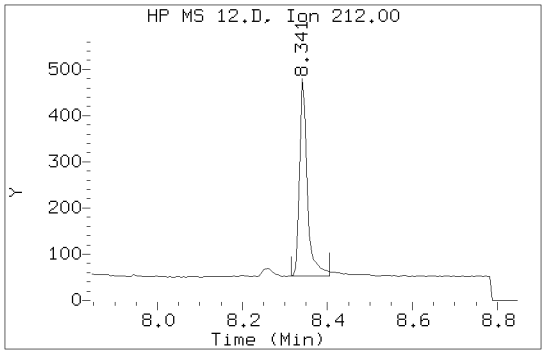
BEFORE

MASS
212
AREA
2058
HEIGHT
480
29-Jun-2023
13:29
ALSHS
Server



AFTER

MASS
212
AREA
534
HEIGHT
427
29-Jun-2023
13:36
ALSHS
Se



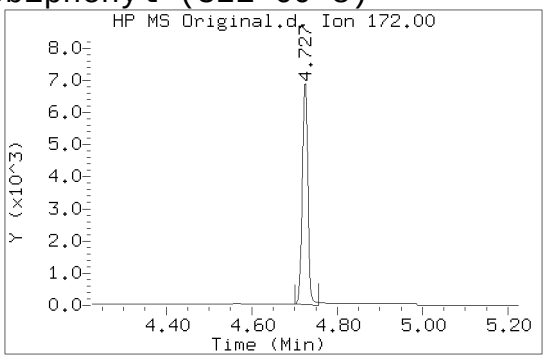
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Inj Date : 29-JUN-2023 13:14
InstruID : SV6.i
LabSampID : HS23061557-05

2-Fluorobiphenyl (321-60-8)

Reason Code:

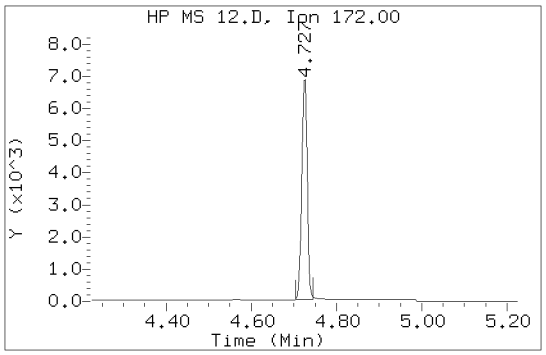
BEFORE

MASS
172
AREA
6274
HEIGHT
6868
29-Jun-2023
13:29
ALSHS
Server



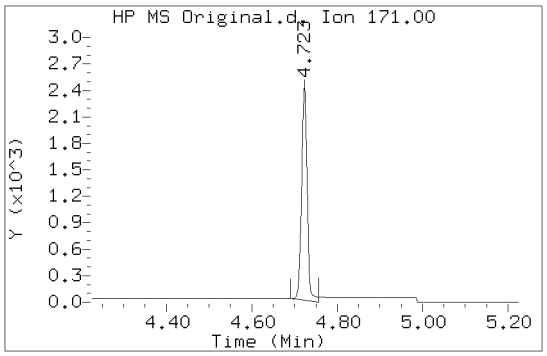
AFTER

MASS
172
AREA
6120
HEIGHT
6833
29-Jun-2023
13:36
ALSHS
Se



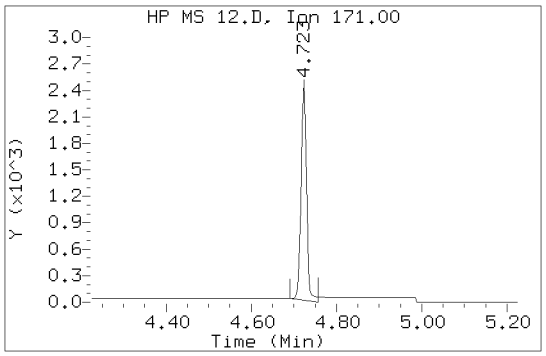
BEFORE

MASS
171
AREA
2192
HEIGHT
2497
29-Jun-2023
13:29
ALSHS
Server



AFTER

MASS
171
AREA
2192
HEIGHT
2497
29-Jun-2023
13:36
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\13.D
Lab Smp Id: HS23061557-06 Client Smp ID: HS23061557-06
Inj Date : 29-JUN-2023 13:32
Operator : LG Inst ID: SV6.i
Smp Info : HS23061557-06
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.637	2.637	(1.000)	2904	0.10000	(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	8875	0.10000	
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2474	0.09175	0.09175
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	5220	0.10000	
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	7056	0.13219	0.1322(R)
* 126 Phenanthrene-d10	188	6.759	6.765	(1.000)	10382	0.10000	
$ 158 4-Terphenyl-d14	244	8.346	8.351	(1.000)	14311		(aR)
* 198 Perylene-d12	264	11.033	11.038	(1.000)	6912	0.10000	
1 1,4-Dioxane	58	1.058	1.084	(0.401)	445	0.04516	0.04516(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

01200039

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\13.D

Page 1

Date : 29-JUN-2023 13:32

Client ID: HS23061557-06

Instrument: SV6.i

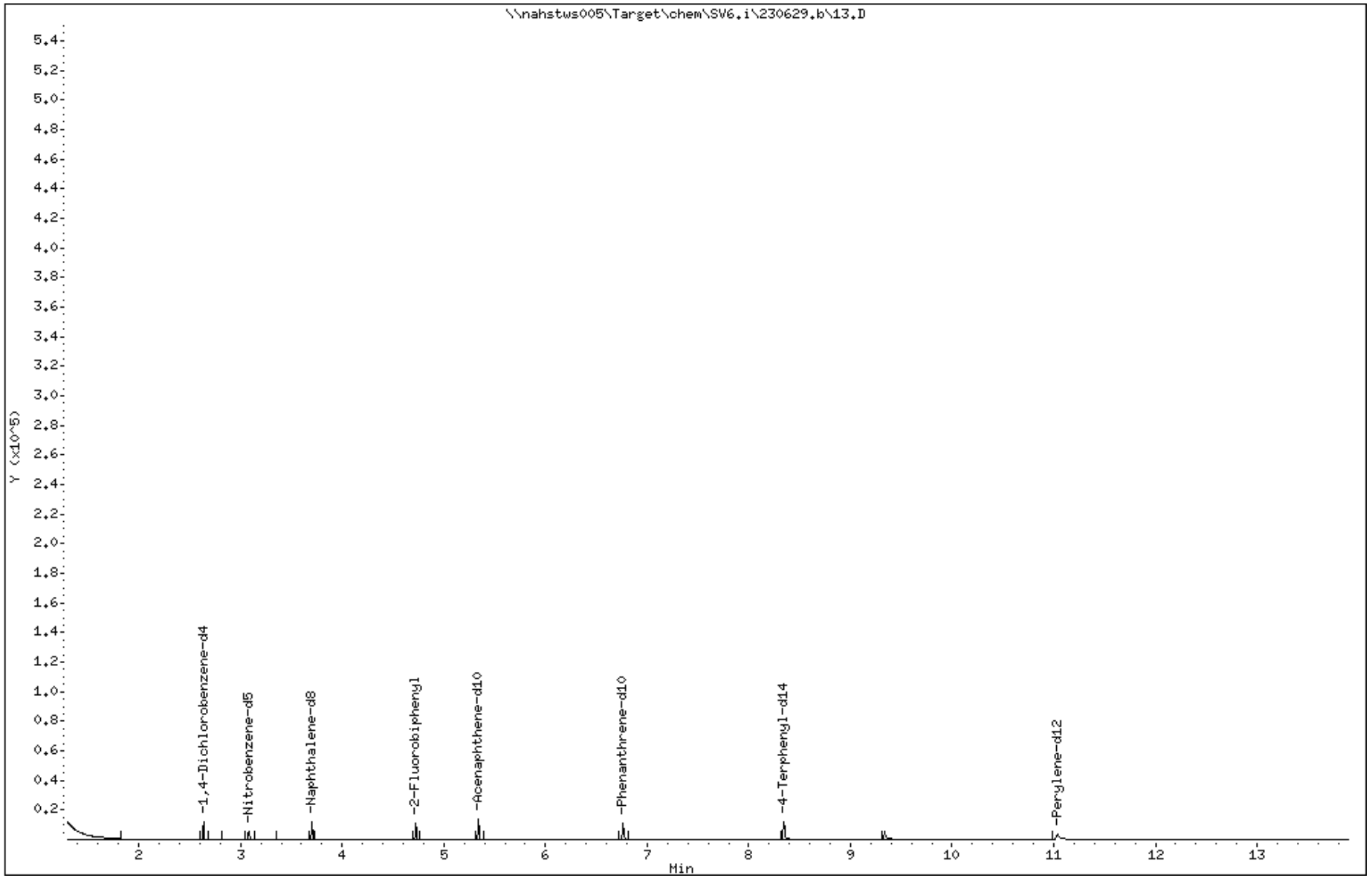
Sample Info: HS23061557-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\13.D

Date : 29-JUN-2023 13:32

Client ID: HS23061557-06

Instrument: SV6.i

Sample Info: HS23061557-06

Purge Volume: 1000.0

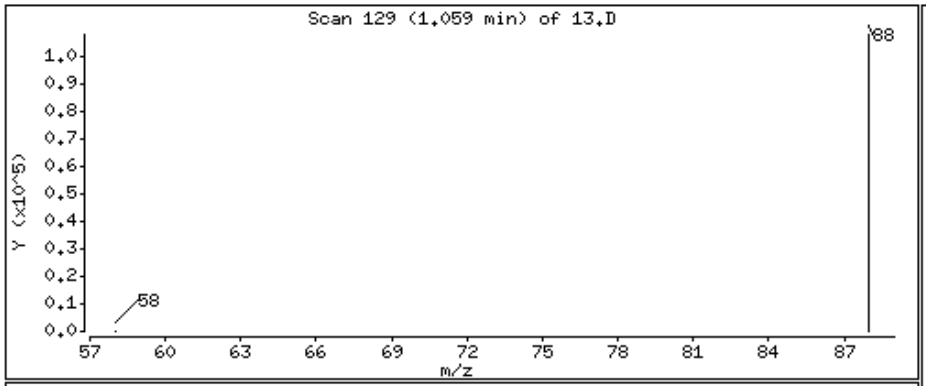
Operator: LG

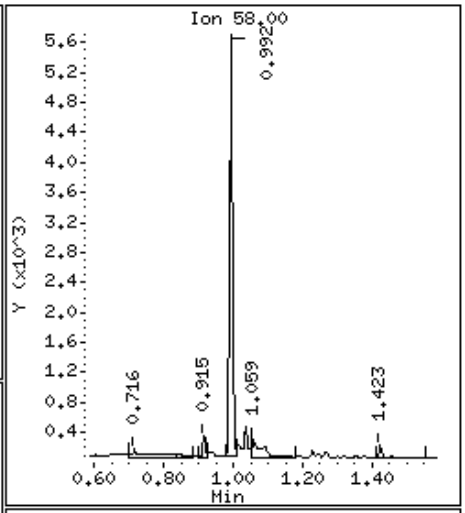
Column phase: RTX-5SIL MS

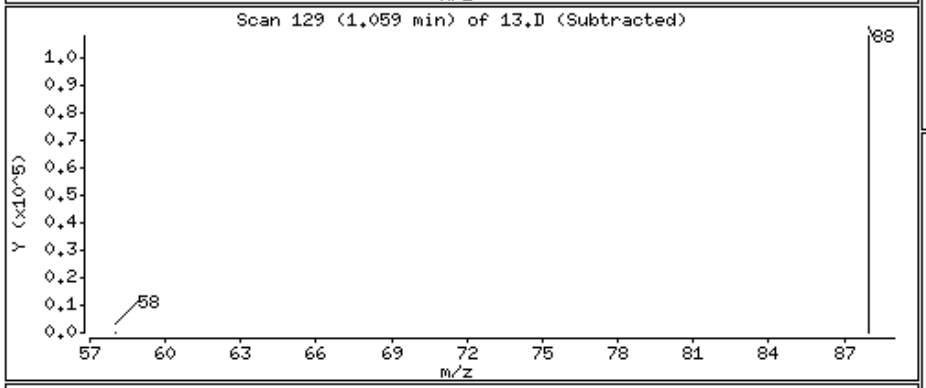
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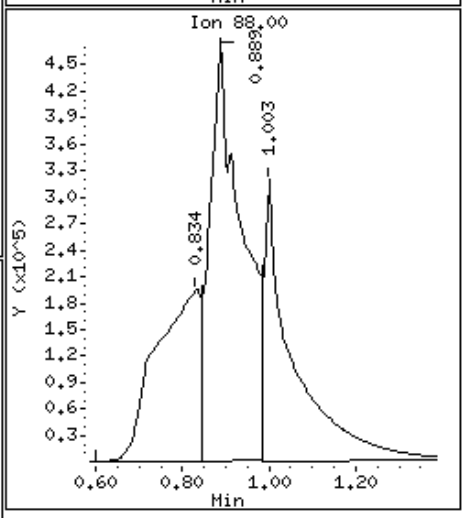
1 1,4-Dioxane

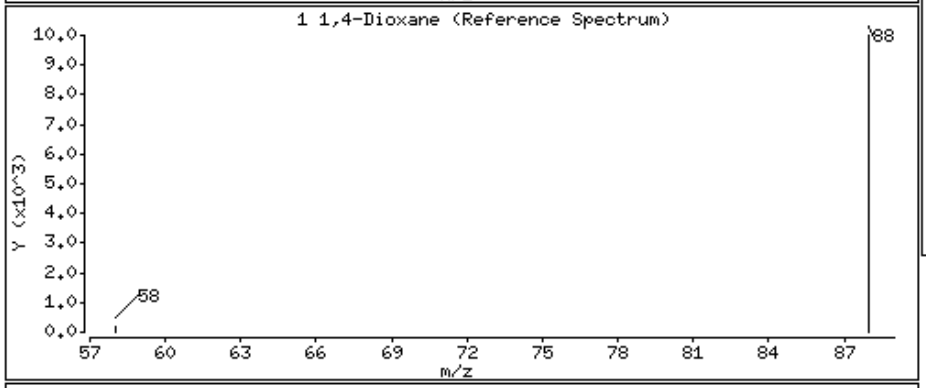
Concentration: 0.04516 ug/L

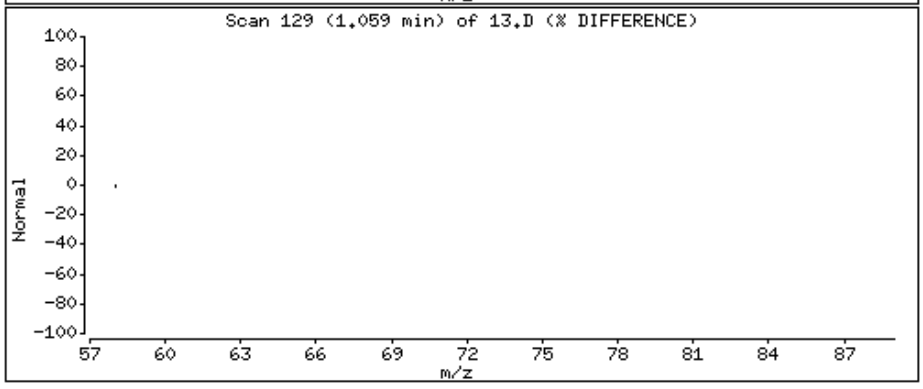












Data File : \\nahstws005\Target\chem\SV6.i\230629.b\13.D
Inj Date : 29-JUN-2023 13:32
InstruID : SV6.i
LabSampID : HS23061557-06

NO MANUAL INTEGRATIONS

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\14.D
Lab Smp Id: HS23061557-07 Client Smp ID: HS23061557-07
Inj Date : 29-JUN-2023 13:50
Operator : LG Inst ID: SV6.i
Smp Info : HS23061557-07
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 29-Jun-2023 10:28 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.637	2.637	(1.000)	2754	0.10000	(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	8425	0.10000	
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2302	0.08993	0.08993(M)
* 86 Acenaphthene-d10	164	5.342	5.342	(1.000)	6995	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.885)	6094	0.08519	0.08519
* 126 Phenanthrene-d10	188	6.765	6.765	(1.000)	9861	0.10000	
* 182 Chrysene-d12	240	9.336	9.341	(1.000)	13050	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.346	8.351	(0.894)	9203	0.09559	0.09559(M)
* 198 Perylene-d12	264	11.039	11.038	(1.000)	6081	0.10000	
1 1,4-Dioxane	58	1.088	1.084	(0.413)	364	0.03895	0.03895(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01200043

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\14.D

Date : 29-JUN-2023 13:50

Client ID: HS23061557-07

Instrument: SV6.i

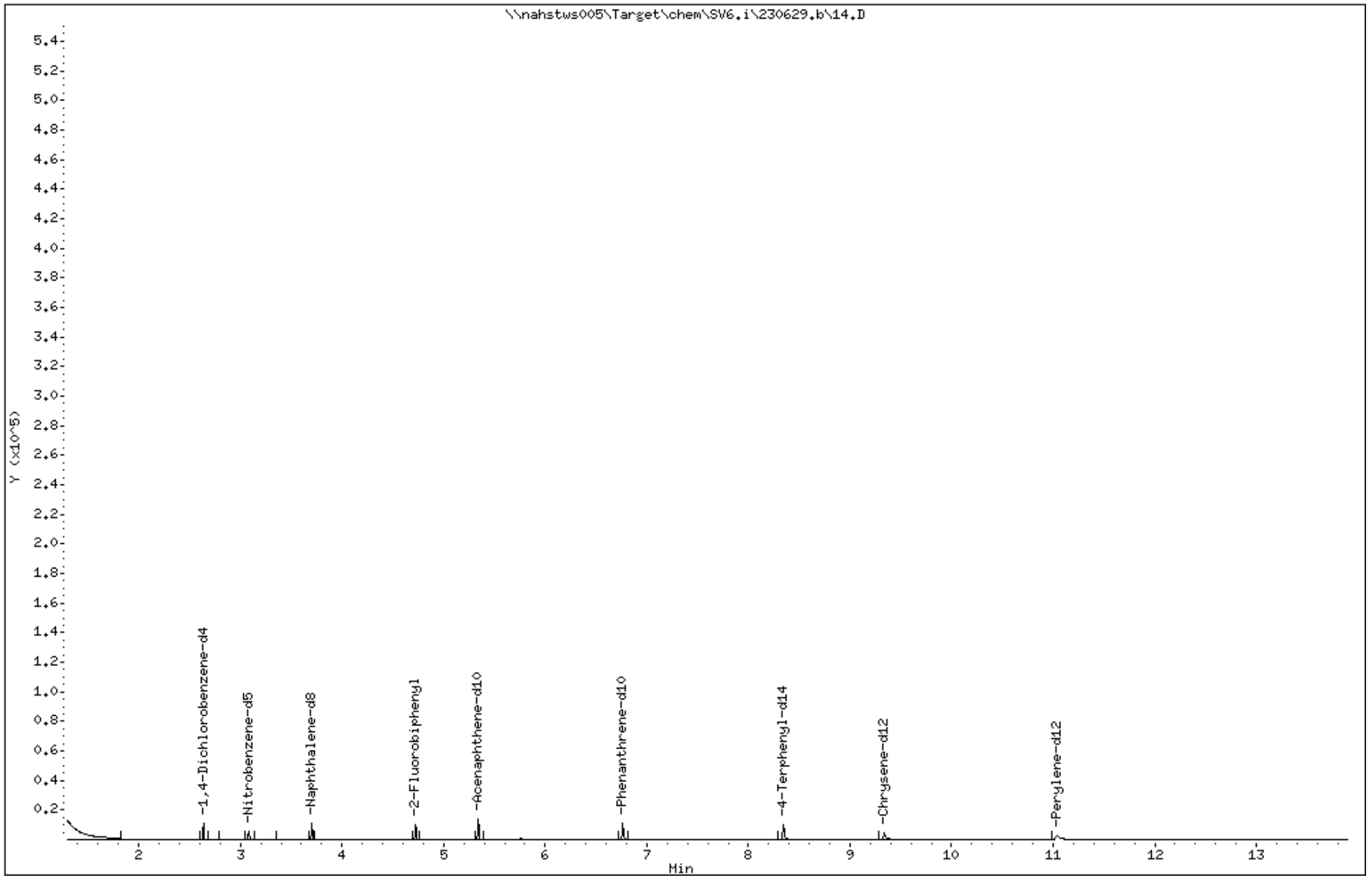
Sample Info: HS23061557-07

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230629.b\14.D

Date : 29-JUN-2023 13:50

Client ID: HS23061557-07

Instrument: SV6.i

Sample Info: HS23061557-07

Purge Volume: 1000.0

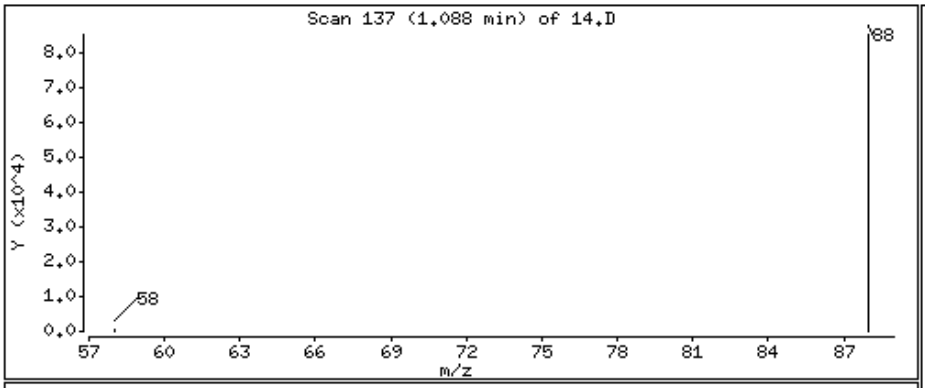
Operator: LG

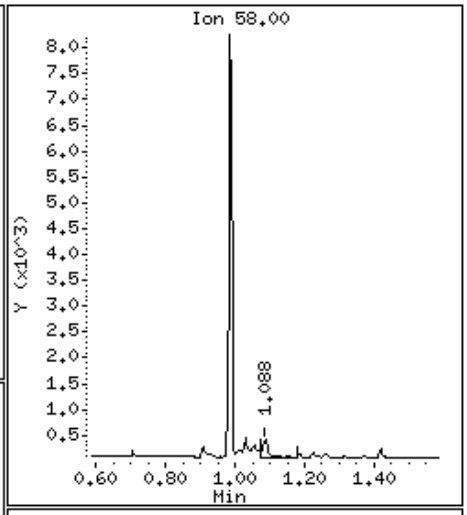
Column phase: RTX-5SIL MS

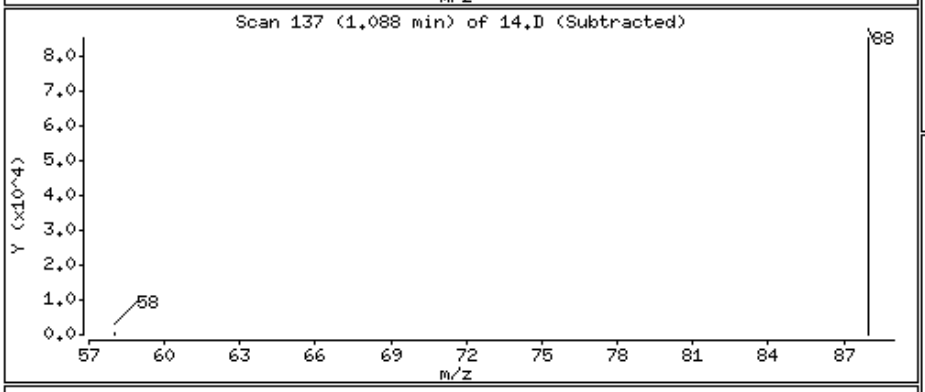
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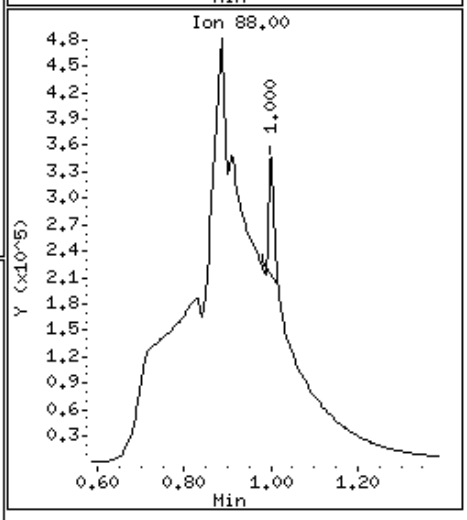
1 1,4-Dioxane

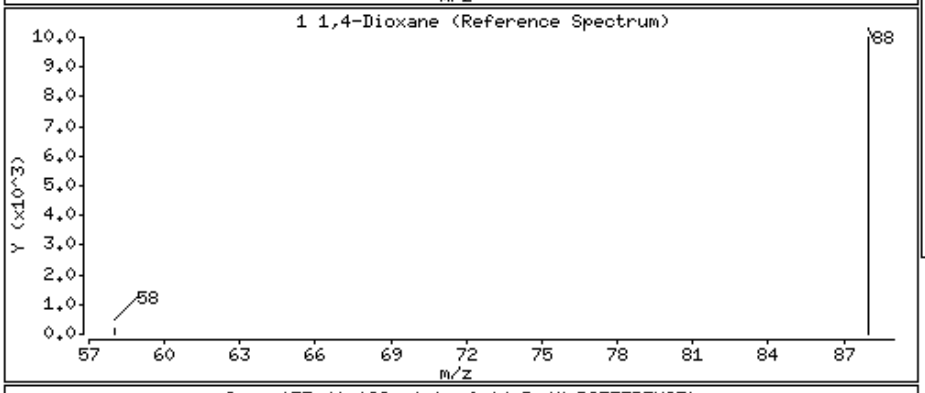
Concentration: 0.03895 ug/L

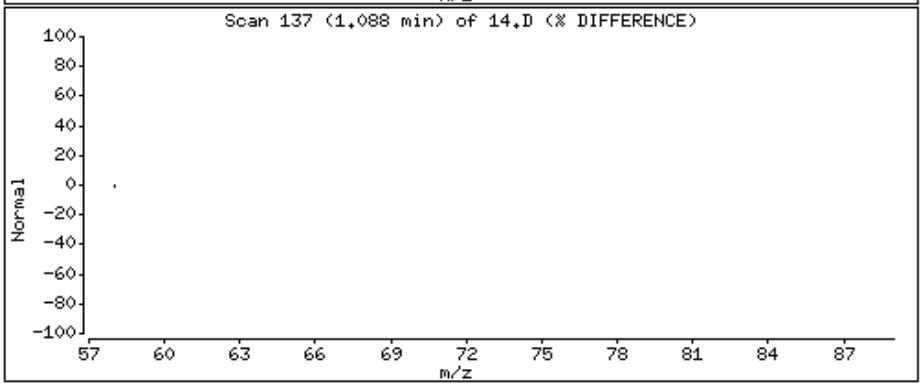












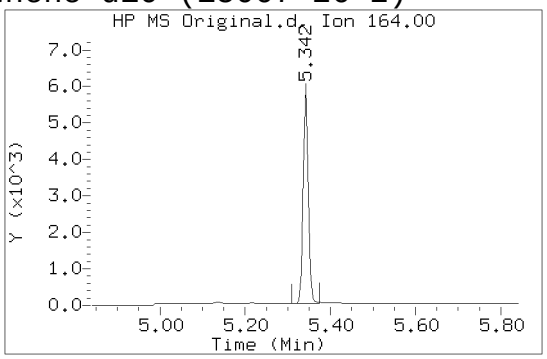
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\14.D
Inj Date : 29-JUN-2023 13:50
InstruID : SV6.i
LabSampID : HS23061557-07

Acenaphthene-d10 (15067-26-2)

Reason Code:

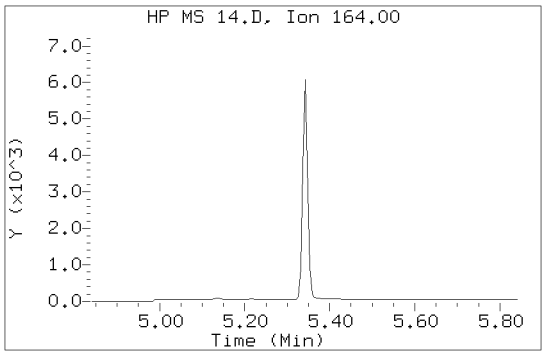
BEFORE

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HEIGHT
6022
29-Jun-2023
14:07
ALSHS
Server



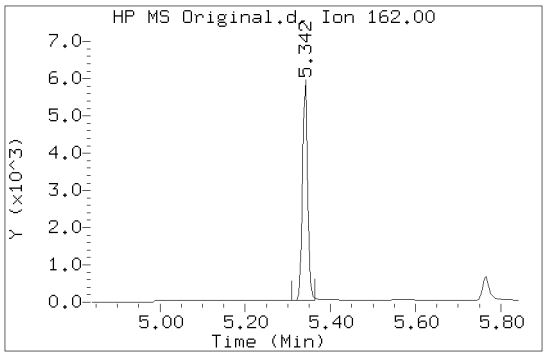
AFTER

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15:41
ALSHS
Se



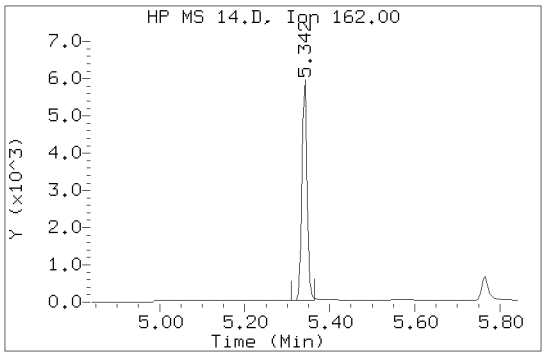
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HEIGHT
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29-Jun-2023
14:07
ALSHS
Server



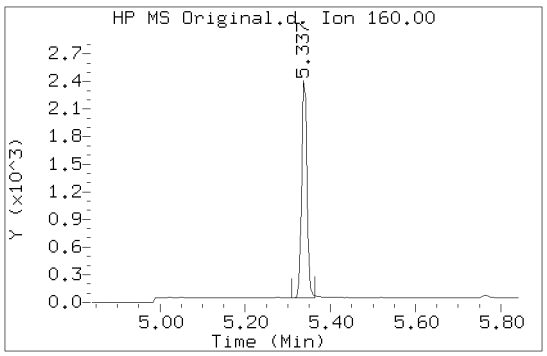
AFTER

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AREA
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HEIGHT
5914
29-Jun-2023
15:41
ALSHS
Se



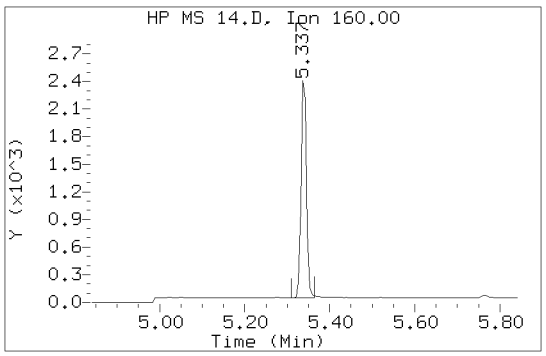
BEFORE

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AREA
2117
HEIGHT
2359
29-Jun-2023
14:07
ALSHS
Server



AFTER

MASS
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AREA
2117
HEIGHT
2359
29-Jun-2023
15:41
ALSHS
Se

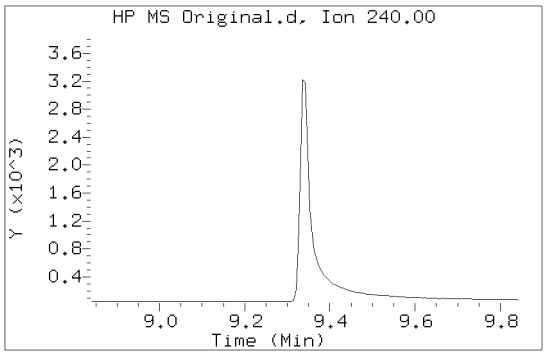


Chrysene-d12 (1719-03-5)

Reason Code:

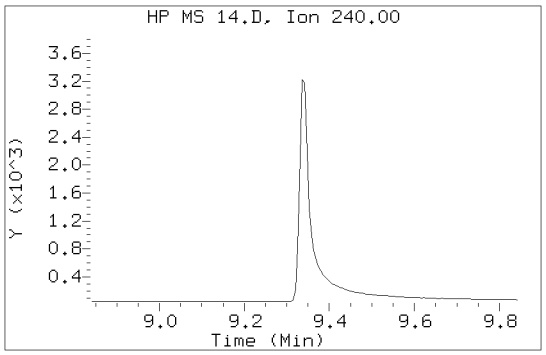
BEFORE

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HEIGHT
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29-Jun-2023
14:07
ALSHS
Server



AFTER

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AREA
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HEIGHT
3238
29-Jun-2023
15:41
ALSHS
Se



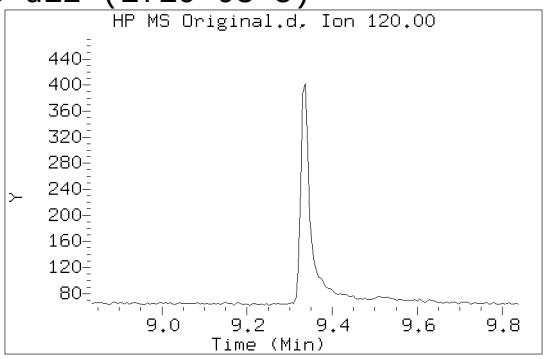
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\14.D
Inj Date : 29-JUN-2023 13:50
InstruID : SV6.i
LabSampID : HS23061557-07

Chrysene-d12 (1719-03-5)

Reason Code:

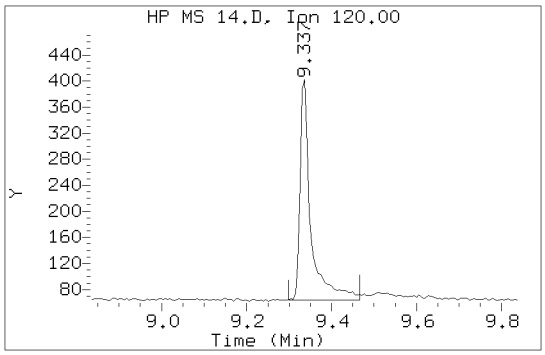
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29-Jun-2023
14:07
ALSHS
Server



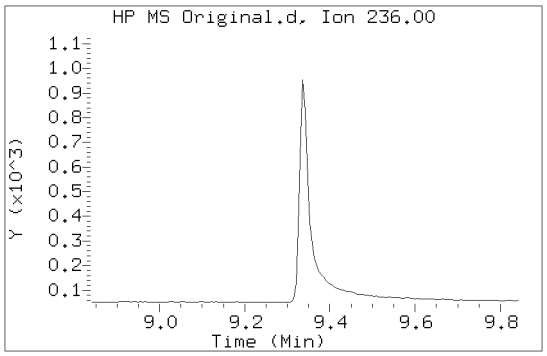
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15:41
ALSHS
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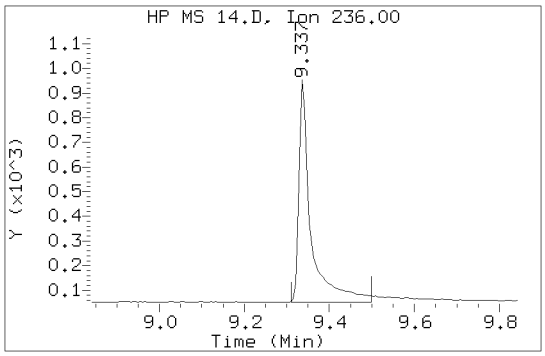
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HEIGHT
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29-Jun-2023
14:07
ALSHS
Server



AFTER

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AREA
1756
HEIGHT
901
29-Jun-2023
15:41
ALSHS
Se

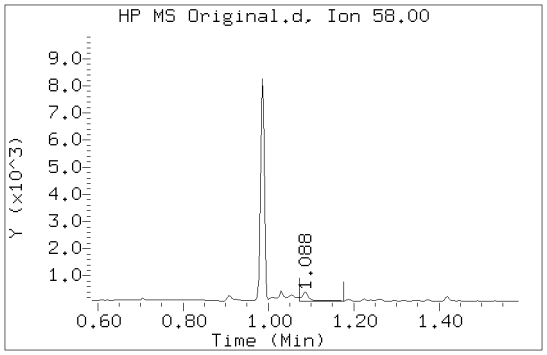


1,4-Dioxane ()

Reason Code:

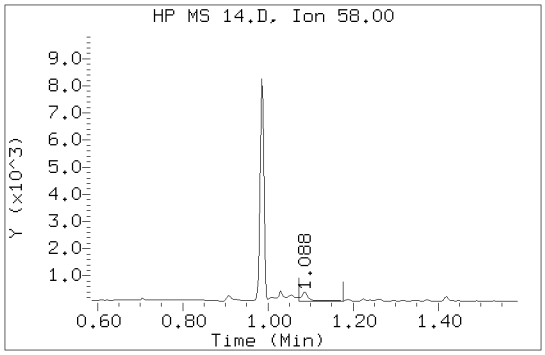
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AREA
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HEIGHT
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14:07
ALSHS
Server



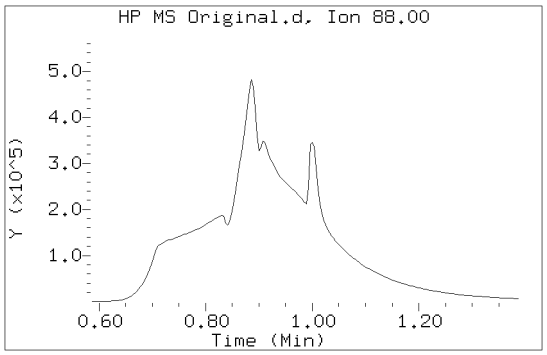
AFTER

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AREA
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15:41
ALSHS
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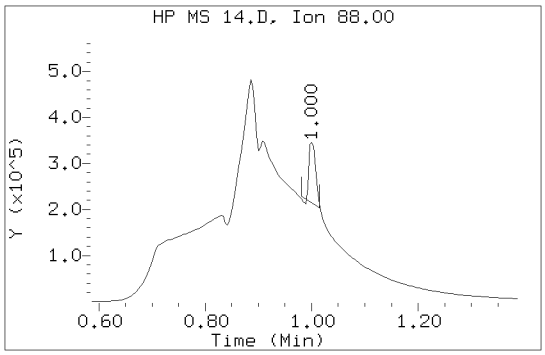
BEFORE

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AREA
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HEIGHT
344253
29-Jun-2023
14:07
ALSHS
Server



AFTER

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AREA
112774
HEIGHT
131073
29-Jun-2023
15:41
ALSHS
Se



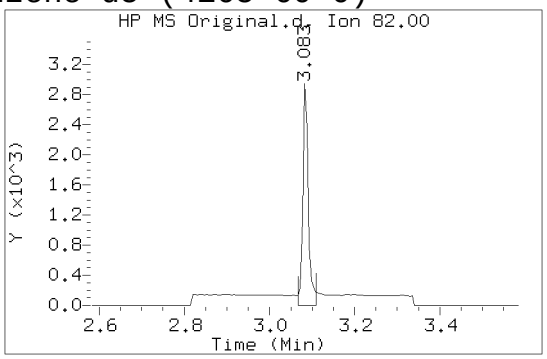
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\14.D
Inj Date : 29-JUN-2023 13:50
InstruID : SV6.i
LabSampID : HS23061557-07

Nitrobenzene-d5 (4165-60-0)

Reason Code:

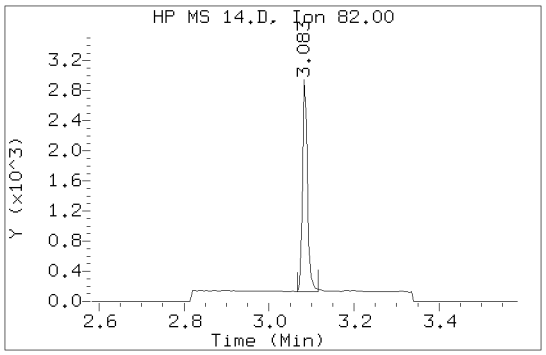
BEFORE

MASS
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AREA
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HEIGHT
2947
29-Jun-2023
14:07
ALSHS
Server



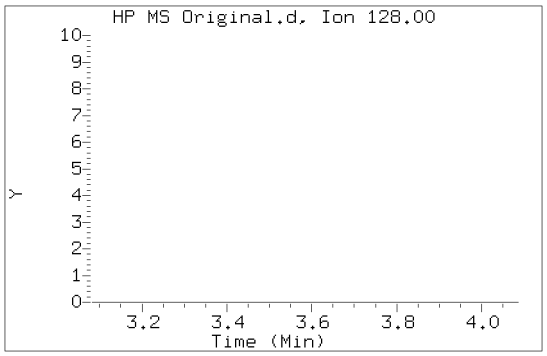
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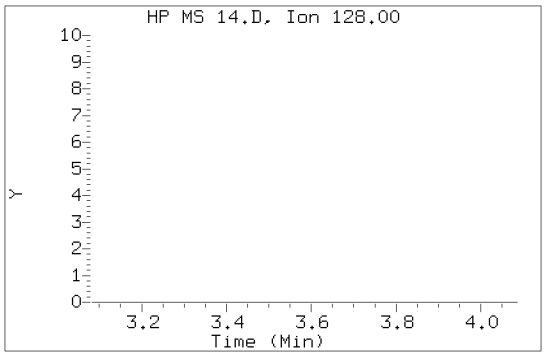
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14:07
ALSHS
Server



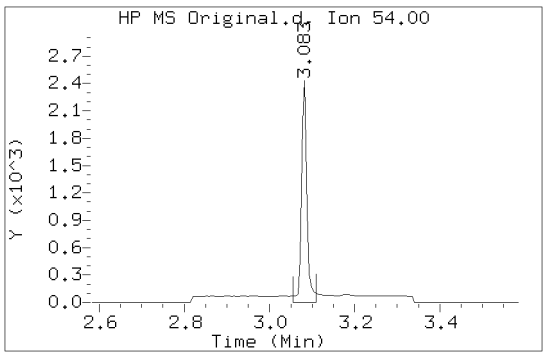
AFTER

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29-Jun-2023
15:41
ALSHS
Se



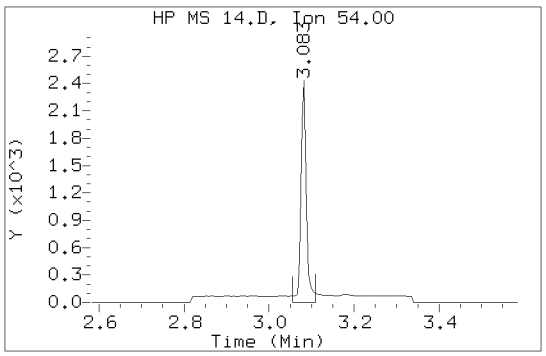
BEFORE

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AREA
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HEIGHT
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29-Jun-2023
14:07
ALSHS
Server



AFTER

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HEIGHT
2430
29-Jun-2023
15:41
ALSHS
Se

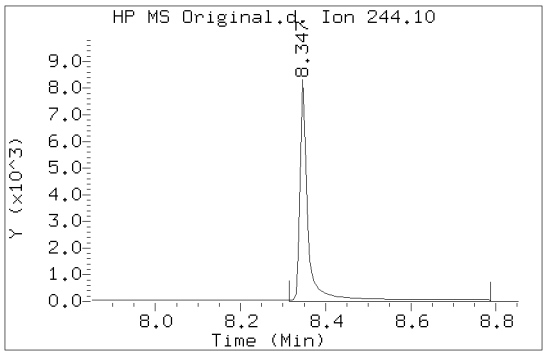


4-Terphenyl-d14 (1718-51-0)

Reason Code:

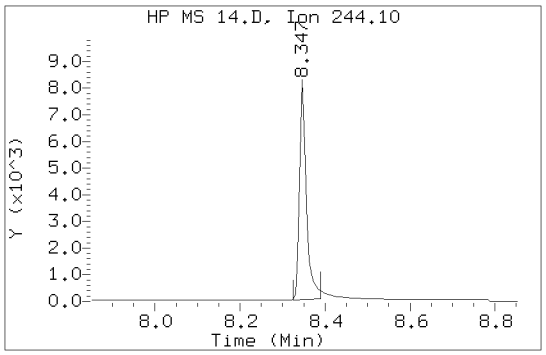
BEFORE

MASS
244.1
AREA
11843
HEIGHT
8320
29-Jun-2023
14:07
ALSHS
Server



AFTER

MASS
244.1
AREA
9203
HEIGHT
8260
29-Jun-2023
15:41
ALSHS
Se



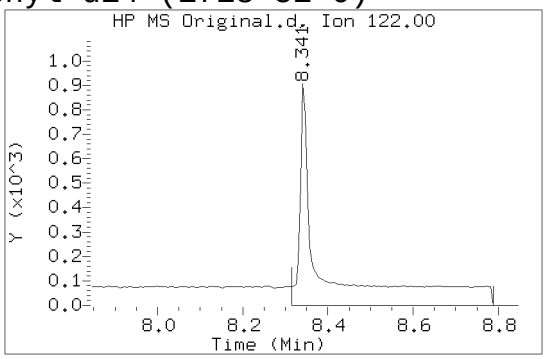
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Inj Date : 29-JUN-2023 13:50
InstruID : SV6.i
LabSampID : HS23061557-07

4-Terphenyl-d14 (1718-51-0)

Reason Code:

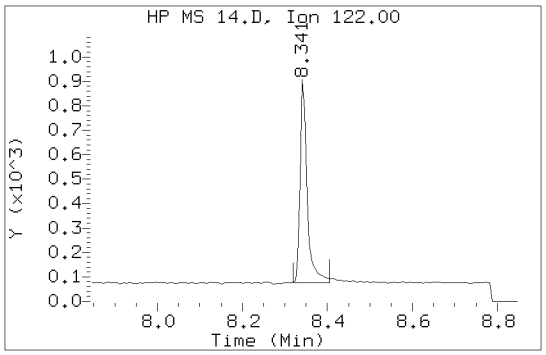
BEFORE

MASS
122
AREA
3160
HEIGHT
907
29-Jun-2023
14:07
ALSHS
Server



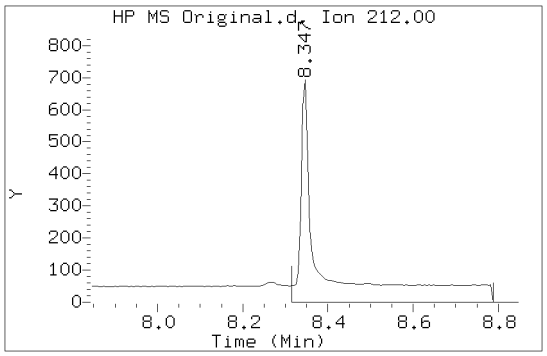
AFTER

MASS
122
AREA
955
HEIGHT
832
29-Jun-2023
15:41
ALSHS
Se



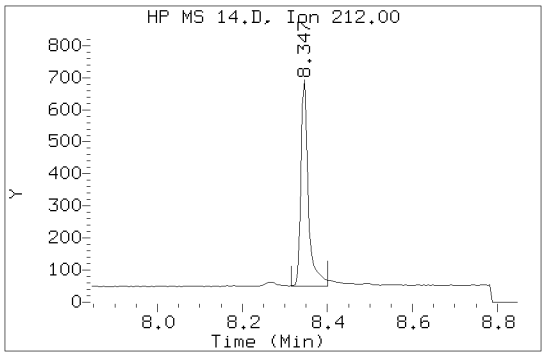
BEFORE

MASS
212
AREA
2317
HEIGHT
693
29-Jun-2023
14:07
ALSHS
Server



AFTER

MASS
212
AREA
771
HEIGHT
642
29-Jun-2023
15:41
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230629.b\22.D
Lab Smp Id: 14DXCCV-END Client Smp ID: 14DXCCV-END
Inj Date : 29-JUN-2023 16:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DXCCV-END
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230629.b\DXSIM.m
Meth Date : 30-Jun-2023 13:07 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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)
* 20 1,4-Dichlorobenzene-d4	152	2.637	2.637	(1.000)	2952	0.10000	(a)
* 45 Naphthalene-d8	136	3.702	3.702	(1.000)	9513	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.082	3.082	(0.833)	2092	0.08000	0.07238(Q)
* 86 Acenaphthene-d10	164	5.347	5.347	(1.000)	5975	0.10000	
$ 69 2-Fluorobiphenyl	172	4.730	4.730	(0.885)	4843	0.08000	0.07926(M)
* 126 Phenanthrene-d10	188	6.770	6.770	(1.000)	10474	0.10000	
* 182 Chrysene-d12	240	9.347	9.347	(1.000)	7416	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.351	8.351	(0.894)	4567	0.08000	0.08347(M)
* 198 Perylene-d12	264	11.044	11.044	(1.000)	6630	0.10000	(M)
1 1,4-Dioxane	58	1.077	1.077	(0.408)	789	0.08000	0.07877(QM)

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.

01200050

Data File: \\nahstws005\Target\chem\SV6.i\230629.b\22.D

Date : 29-JUN-2023 16:42

Client ID: 14DXCCV-END

Instrument: SV6.i

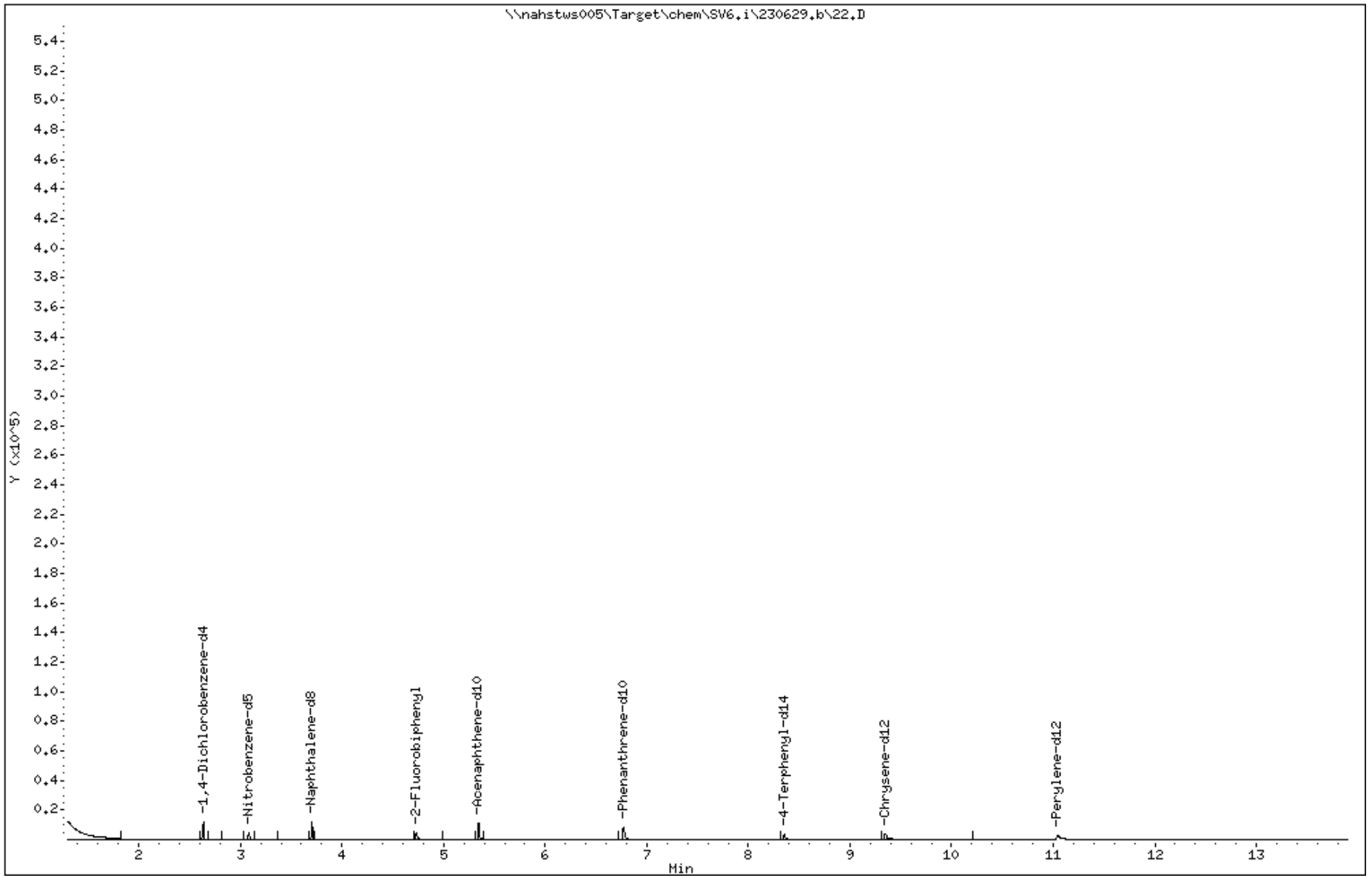
Sample Info: 14DXCCV-END

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



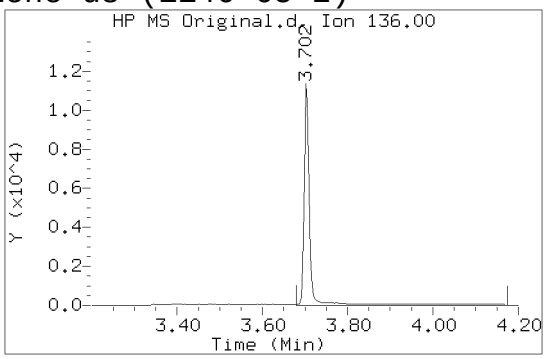
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\22.D
Inj Date : 29-JUN-2023 16:42
InstruID : SV6.i
LabSampID : 14DXCCV-END

Naphthalene-d8 (1146-65-2)

Reason Code:

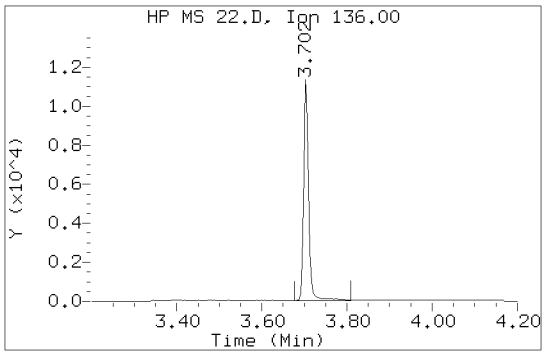
BEFORE

MASS
136
AREA
11032
HEIGHT
11363
29-Jun-2023
16:58
ALSHS
Server



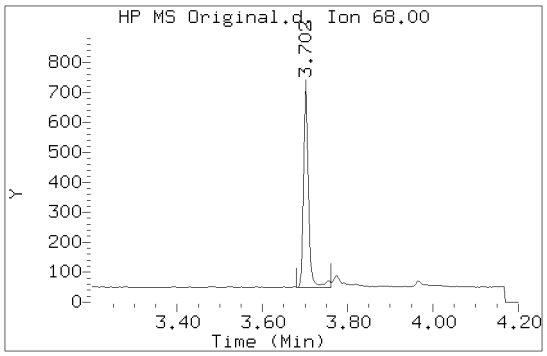
AFTER

MASS
136
AREA
9513
HEIGHT
11332
30-Jun-2023
13:07
ALSHS
Se



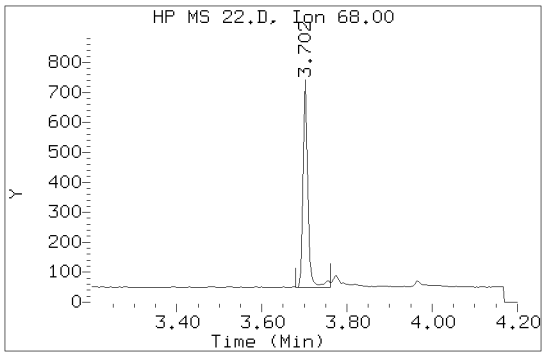
BEFORE

MASS
68
AREA
566
HEIGHT
692
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
68
AREA
566
HEIGHT
692
30-Jun-2023
13:07
ALSHS
Se

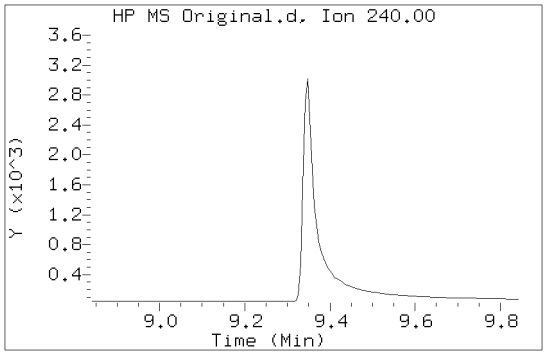


Chrysene-d12 (1719-03-5)

Reason Code:

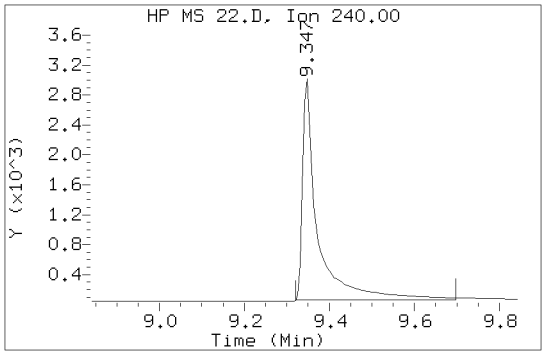
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Jun-2023
16:58
ALSHS
Server



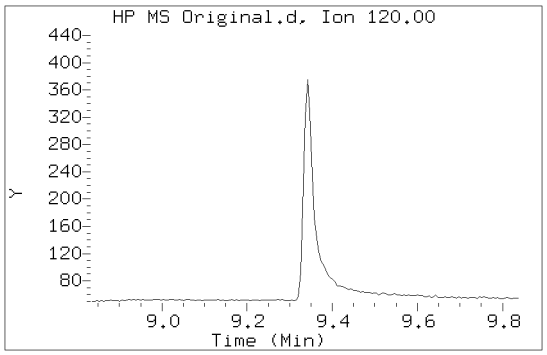
AFTER

MASS
240
AREA
7416
HEIGHT
2956
30-Jun-2023
13:07
ALSHS
Se



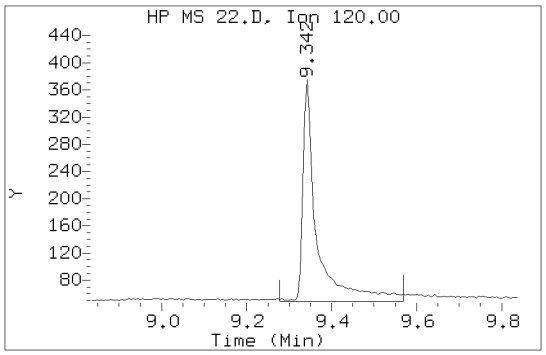
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
120
AREA
742
HEIGHT
326
30-Jun-2023
13:07
ALSHS
Se

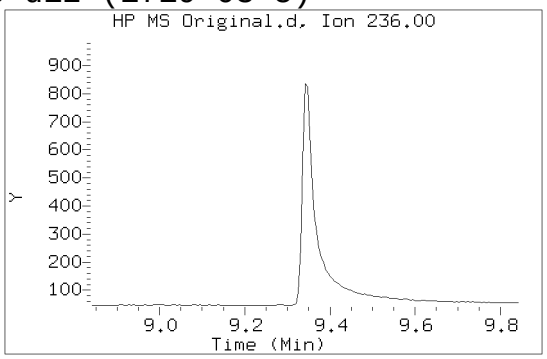


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\22.D
Inj Date : 29-JUN-2023 16:42
InstruID : SV6.i
LabSampID : 14DXCCV-END

Chrysene-d12 (1719-03-5)

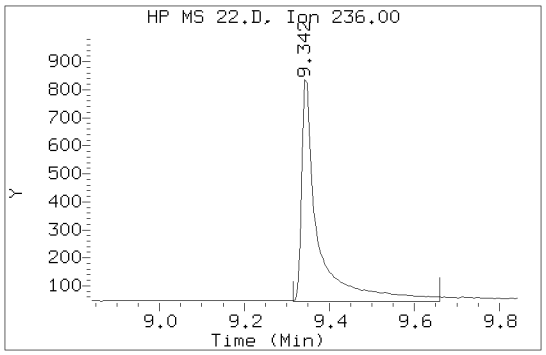
Reason Code:

BEFORE



MASS
236
AREA
0
HEIGHT
0
29-Jun-2023
16:58
ALSHS
Server

AFTER

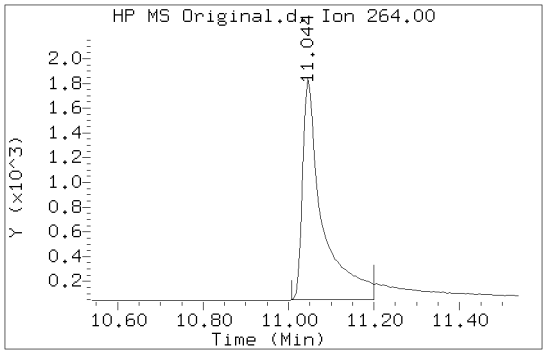


MASS
236
AREA
2111
HEIGHT
791
30-Jun-2023
13:07
ALSHS
Se

Perylene-d12 (1520-96-3)

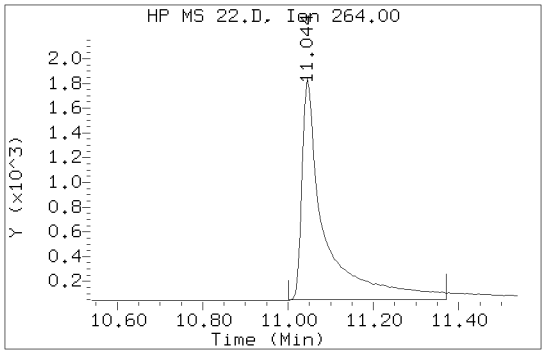
Reason Code:

BEFORE



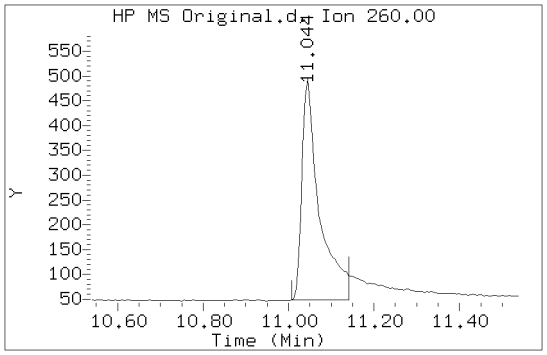
MASS
264
AREA
5738
HEIGHT
1787
29-Jun-2023
16:58
ALSHS
Server

AFTER



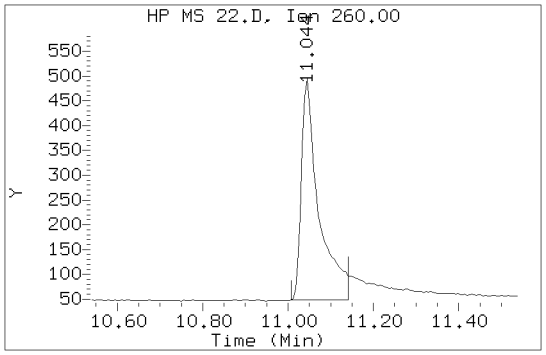
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264
AREA
6630
HEIGHT
1788
30-Jun-2023
13:07
ALSHS
Se

BEFORE



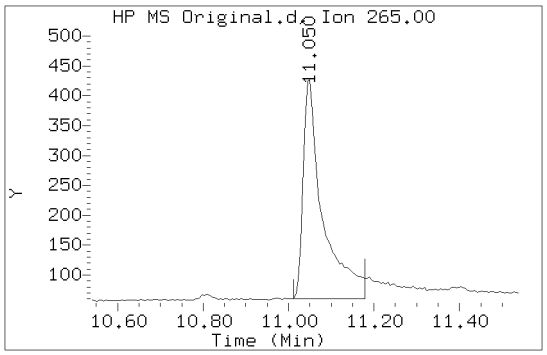
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AREA
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HEIGHT
446
29-Jun-2023
16:58
ALSHS
Server

AFTER



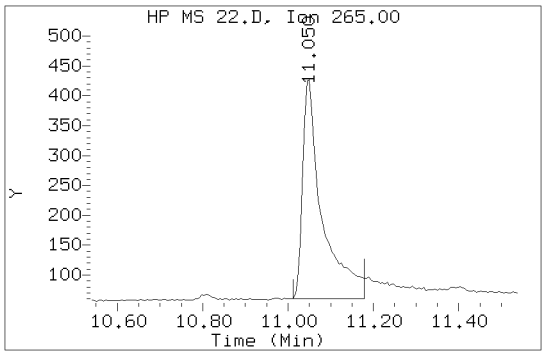
MASS
260
AREA
1268
HEIGHT
446
30-Jun-2023
13:07
ALSHS
Se

BEFORE



MASS
265
AREA
1170
HEIGHT
367
29-Jun-2023
16:58
ALSHS
Server

AFTER



MASS
265
AREA
1170
HEIGHT
367
30-Jun-2023
13:07
ALSHS
Se

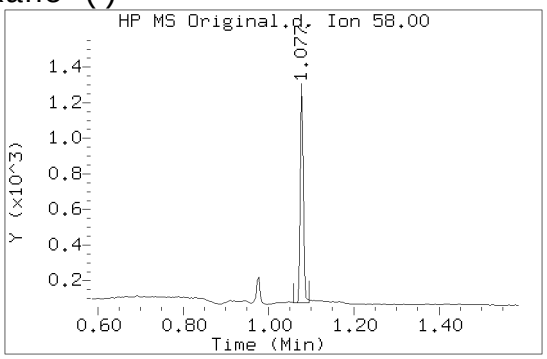
Data File : \\nahstws005\Target\chem\SV6.i\230629.b\22.D
Inj Date : 29-JUN-2023 16:42
InstruID : SV6.i
LabSampID : 14DXCCV-END

1,4-Dioxane ()

Reason Code:

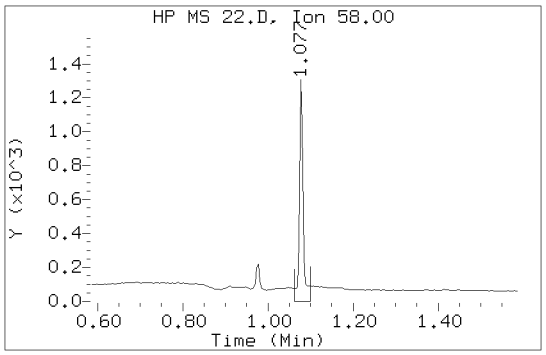
BEFORE

MASS
58
AREA
601
HEIGHT
1231
29-Jun-2023
16:58
ALSHS
Server



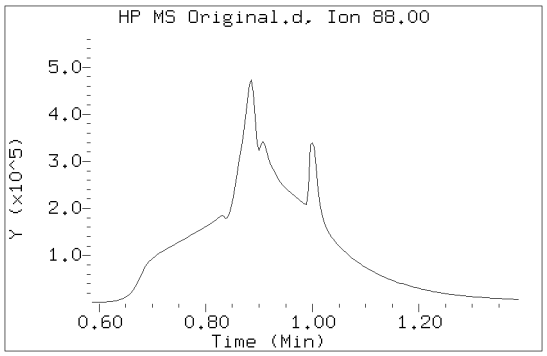
AFTER

MASS
58
AREA
789
HEIGHT
1307
30-Jun-2023
13:07
ALSHS
Se



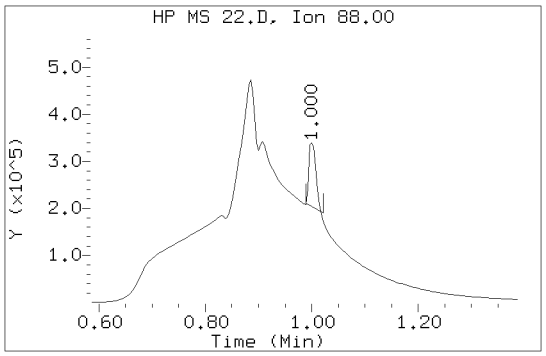
BEFORE

MASS
88
AREA
1554911
HEIGHT
338147
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
88
AREA
119683
HEIGHT
135278
30-Jun-2023
13:07
ALSHS
Se

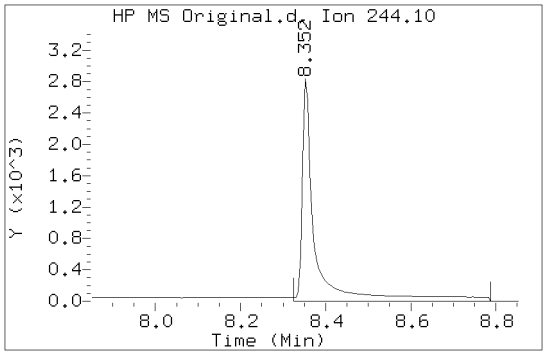


4-Terphenyl-d14 (1718-51-0)

Reason Code:

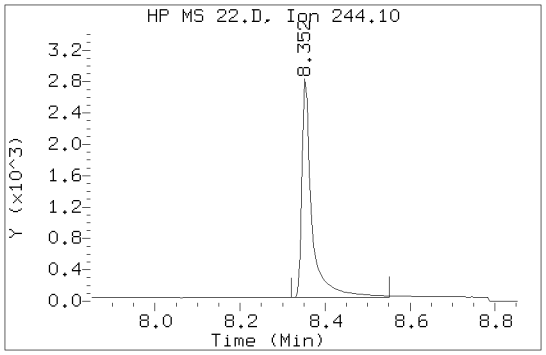
BEFORE

MASS
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AREA
6016
HEIGHT
2835
29-Jun-2023
16:58
ALSHS
Server



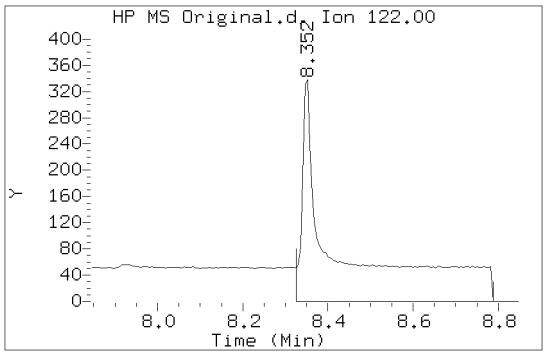
AFTER

MASS
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AREA
4567
HEIGHT
2788
30-Jun-2023
13:07
ALSHS
Se



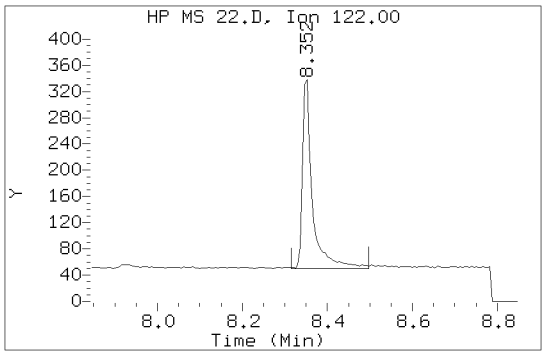
BEFORE

MASS
122
AREA
1905
HEIGHT
338
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
122
AREA
467
HEIGHT
288
30-Jun-2023
13:07
ALSHS
Se

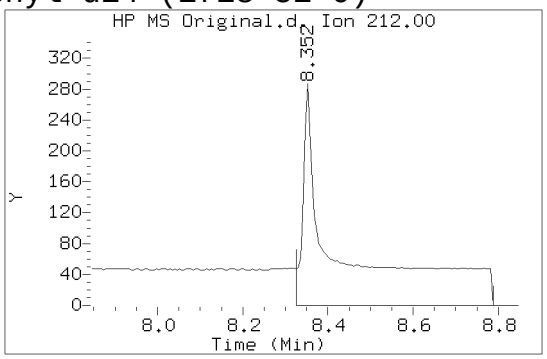


Data File : \\nahstws005\Target\chem\SV6.i\230629.b\22.D
Inj Date : 29-JUN-2023 16:42
InstruID : SV6.i
LabSampID : 14DXCCV-END

4-Terphenyl-d14 (1718-51-0)

BEFORE

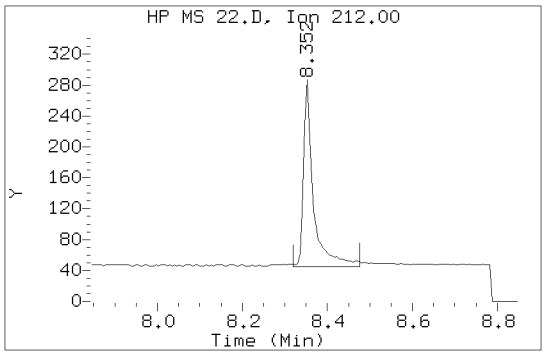
MASS
212
AREA
1692
HEIGHT
287
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
212
AREA
387
HEIGHT
242
30-Jun-2023
13:07
ALSHS
Se

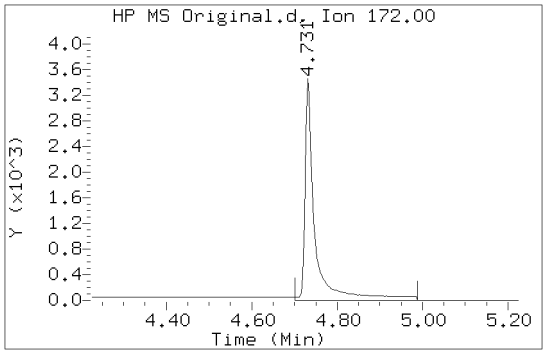
Reason Code:



2-Fluorobiphenyl (321-60-8)

BEFORE

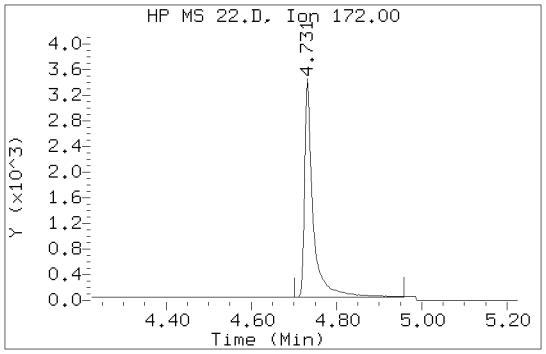
MASS
172
AREA
5637
HEIGHT
3458
29-Jun-2023
16:58
ALSHS
Server



AFTER

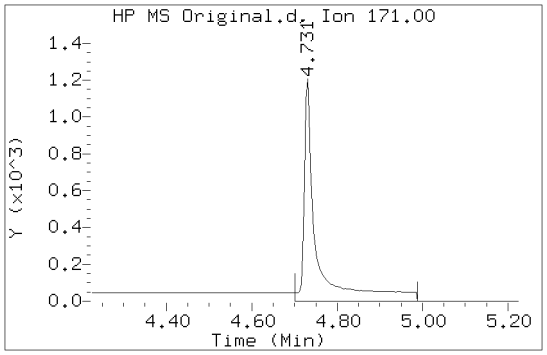
MASS
172
AREA
4843
HEIGHT
3413
30-Jun-2023
13:07
ALSHS
Se

Reason Code:



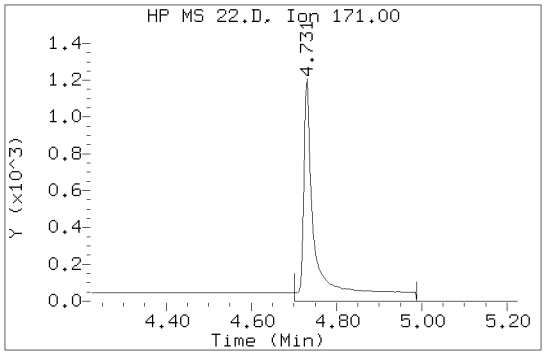
BEFORE

MASS
171
AREA
2434
HEIGHT
1207
29-Jun-2023
16:58
ALSHS
Server



AFTER

MASS
171
AREA
2434
HEIGHT
1207
30-Jun-2023
13:07
ALSHS
Se



HS23061557 - ME - HG_W_DODICP_W_DOD

ALS WO# HS23061557

ALS Houston, US

Date: 24-Jul-23

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Instrument:ICPMS06

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

ALS Houston, US Date: 24-Jul-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557
Start Date: 06-Jul-2023 End Date: 06-Jul-2023

Run ID:HG04_440667
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICCV 1	1	06-Jul-2023 12:15	_7404663	HG
ICV	1	06-Jul-2023 12:16	_7404664	HG
ICB	1	06-Jul-2023 12:18	_7404665	HG
CRA	1	06-Jul-2023 12:20	_7404666	HG
CCV 2	1	06-Jul-2023 12:29	_7404667	HG
CCB 1	1	06-Jul-2023 12:30	_7404668	HG
CCV 3	1	06-Jul-2023 12:55	_7404679	HG
CCB 2	1	06-Jul-2023 12:56	_7404680	HG
CCV 4	1	06-Jul-2023 13:19	HG04_440667 Raw Data_7404660	HG
CCB 3	1	06-Jul-2023 13:21	_7404661	HG
CCV 5	1	06-Jul-2023 13:58	_7404691	HG
CCB 4	1	06-Jul-2023 14:00	_7404692	HG
CCV 6	1	06-Jul-2023 14:24	_7404703	HG
CCB 5	1	06-Jul-2023 14:25	_7404704	HG
CCV 7	1	06-Jul-2023 14:49	_7404715	HG
CCB 6	1	06-Jul-2023 14:51	_7404716	HG
MBLK-197186	1	06-Jul-2023 15:08	_7404723	HG
LCS-197186	1	06-Jul-2023 15:10	_7404724	HG
ZZZZZZMS	1	06-Jul-2023 15:16	_7404726	HG
CCV 8	1	06-Jul-2023 15:19	_7404727	HG
CCB 7	1	06-Jul-2023 15:21	_7404728	HG
ZZZZZZMSD	1	06-Jul-2023 15:24	_7404729	HG
18WW22_062123	1	06-Jul-2023 15:36	_7404736	HG
18CPTMW14_062123	1	06-Jul-2023 15:38	_7404737	HG
18WW25_062123	1	06-Jul-2023 15:39	_7404738	HG
CCV 9	1	06-Jul-2023 15:42	_7404739	HG
CCB 8	1	06-Jul-2023 15:44	_7404740	HG
MW20_062123	1	06-Jul-2023 15:47	_7404741	HG
CCV 10	1	06-Jul-2023 16:07	_7404795	HG
CCB 9	1	06-Jul-2023 16:09	_7404796	HG
CCV 11	1	06-Jul-2023 16:44	_7405296	HG
CCB 10	1	06-Jul-2023 16:46	_7405297	HG
CCV 12	1	06-Jul-2023 17:10	_7405308	HG
CCB 11	1	06-Jul-2023 17:12	_7405309	HG
CCV 13	1	06-Jul-2023 17:32	_7405320	HG
CCB 12	1	06-Jul-2023 17:33	_7405321	HG
CCV 14	1	06-Jul-2023 17:55	_7405332	HG
CCB 13	1	06-Jul-2023 17:56	_7405333	HG
CCV 15	1	06-Jul-2023 18:16	_7405341	HG
CCB 14	1	06-Jul-2023 18:18	_7405342	HG
CCV 16	1	06-Jul-2023 18:40	_7406803	HG
CCB 15	1	06-Jul-2023 18:41	_7406804	HG
CCV 17	1	06-Jul-2023 19:00	_7406815	HG
CCB 16	1	06-Jul-2023 19:02	_7406816	HG
CCV 18	1	06-Jul-2023 19:22	_7406827	HG
CCB 17	1	06-Jul-2023 19:24	_7406828	HG
CCV 19	1	06-Jul-2023 19:31	_7406832	HG
CCB 18	1	06-Jul-2023 19:32	_7406833	HG

ALS Houston, US Date: 24-Jul-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557
Start Date: 07-Jul-2023 End Date: 07-Jul-2023

Run ID:ICPMS06_440735
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS06_440735_Tune	1	07-Jul-2023 00:00	ICPMS06_440735_Tune_1	
CAL BLK	1	07-Jul-2023 11:02	015CALB.d_7406350	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	07-Jul-2023 11:04	016CALS.d_7406351	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	07-Jul-2023 11:06	017CALS.d_7406352	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	07-Jul-2023 11:08	018CALS.d_7406353	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	07-Jul-2023 11:10	019CALS.d_7406354	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	07-Jul-2023 11:12	020CALS.d_7406355	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	07-Jul-2023 11:18	022_ICV.d_7406357	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	07-Jul-2023 11:22	024LCV2.d_7406359	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	07-Jul-2023 11:24	025LCV5.d_7406360	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	07-Jul-2023 11:26	026_ICB.d_7406361	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	07-Jul-2023 11:34	028ICSA.d_7406363	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	07-Jul-2023 11:36	029ICSB.d_7406364	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	07-Jul-2023 16:51	146_CCV.d_7407789	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	07-Jul-2023 16:52	147_CCB.d_7407790	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-197198	1	07-Jul-2023 16:55	148SMPL.d_7407791	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-197198	1	07-Jul-2023 16:57	149SMPL.d_7407792	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI SB SE V ZN
ZZZZZZSD	5	07-Jul-2023 17:01	151SMPL.d_7407794	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
ZZZZZZMS	1	07-Jul-2023 17:03	152SMPL.d_7407795	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI SB SE V ZN
ZZZZZZMSD	1	07-Jul-2023 17:05	153SMPL.d_7407796	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZPDS	1	07-Jul-2023 17:07	154SMPL.d_7407797	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
CCV 2	1	07-Jul-2023 17:09	155_CCV.d_7407798	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	07-Jul-2023 17:11	156_CCB.d_7407799	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW22_062123	1	07-Jul-2023 17:21	157SMPL.d_7407800	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW14_062123	1	07-Jul-2023 17:23	158SMPL.d_7407801	AG AL AS BE CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
18WW25_062123	1	07-Jul-2023 17:25	159SMPL.d_7407802	AG AL AS BA BE CA CD CO CR CU FE K MG NA NI PB SB SE TL V ZN
MW20_062123	1	07-Jul-2023 17:27	160SMPL.d_7407803	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	07-Jul-2023 17:41	167_CCV.d_7407810	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	07-Jul-2023 17:43	168_CCB.d_7407811	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMS	1	07-Jul-2023 18:09	175SMPL.d_7407889	PB TL
CCV 4	1	07-Jul-2023 18:17	179_CCV.d_7407890	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 4	1	07-Jul-2023 18:19	180_CCB.d_7407891	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 24-Jul-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557
Start Date: 07-Jul-2023 End Date: 07-Jul-2023

Run ID:ICPMS06_440735
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
CCV 5	1	07-Jul-2023 18:24	182_CCV.d_7407893	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 6	1	07-Jul-2023 18:26	183_CCV.d_7407894	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-197198	1	07-Jul-2023 18:28	184SMPL.d_7407895	PB TL
ZZZZZZSD	100	07-Jul-2023 18:34	187SMPL.d_7407898	NA
ZZZZZZPDS	20	07-Jul-2023 18:36	188SMPL.d_7407899	NA
18CPTMW14_062123	20	07-Jul-2023 18:38	189SMPL.d_7407900	BA CA NA
18WW25_062123	20	07-Jul-2023 18:40	190SMPL.d_7407901	MN
CCV 7	1	07-Jul-2023 18:46	193_CCV.d_7407904	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	07-Jul-2023 18:48	194_CCB.d_7407905	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: HG04_440667
Instrument: HG04
Method: SW7470A

ICCV1	Date: 06-Jul-2023 12:15		Seq: 7404663	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

ICV	Date: 06-Jul-2023 12:16		Seq: 7404664	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.63	93	90-110	

CCV2	Date: 06-Jul-2023 12:29		Seq: 7404667	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV3	Date: 06-Jul-2023 12:55		Seq: 7404679	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.38	108	90-110	

CCV4	Date: 06-Jul-2023 13:19		Seq: 7404660	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.13	103	90-110	

CCV5	Date: 06-Jul-2023 13:58		Seq: 7404691	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.34	107	90-110	

CCV6	Date: 06-Jul-2023 14:24		Seq: 7404703	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.31	106	90-110	

CCV7	Date: 06-Jul-2023 14:49		Seq: 7404715	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.38	108	90-110	

CCV8	Date: 06-Jul-2023 15:19		Seq: 7404727	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.3	106	90-110	

CCV9	Date: 06-Jul-2023 15:42		Seq: 7404739	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.33	107	90-110	

CCV10	Date: 06-Jul-2023 16:07		Seq: 7404795	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.13	103	90-110	

CCV11	Date: 06-Jul-2023 16:44		Seq: 7405296	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.7	94	90-110	

CCV12	Date: 06-Jul-2023 17:10		Seq: 7405308	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.02	100	90-110	

CCV13	Date: 06-Jul-2023 17:32		Seq: 7405320	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.74	95	90-110	

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: HG04_440667
Instrument: HG04
Method: SW7470A

CCV14	Date: 06-Jul-2023 17:55		Seq: 7405332	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5	100	90-110	

CCV15	Date: 06-Jul-2023 18:16		Seq: 7405341	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV16	Date: 06-Jul-2023 18:40		Seq: 7406803	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.87	97	90-110	

CCV17	Date: 06-Jul-2023 19:00		Seq: 7406815	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.87	97	90-110	

CCV18	Date: 06-Jul-2023 19:22		Seq: 7406827	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.98	100	90-110	

CCV19	Date: 06-Jul-2023 19:31		Seq: 7406832	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

ICV Date: 07-Jul-2023 11:18 Seq: 7406357 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	95.928	96	90-110	
Antimony	100	95.85	96	90-110	
Arsenic	100	96.027	96	90-110	
Barium	100	97.543	98	90-110	
Beryllium	100	99.339	99	90-110	
Cadmium	100	97.941	98	90-110	
Calcium	10000	9845.519	99	90-110	
Chromium	100	96.572	97	90-110	
Cobalt	100	95.214	95	90-110	
Copper	100	95.769	96	90-110	
Iron	10000	9757.482	98	90-110	
Lead	100	97.048	97	90-110	
Magnesium	10000	9692.126	97	90-110	
Manganese	100	98.222	98	90-110	
Nickel	100	98.251	98	90-110	
Potassium	10000	9775.407	98	90-110	
Selenium	100	94.041	94	90-110	
Silver	100	100.798	101	90-110	
Sodium	10000	9600.424	96	90-110	
Thallium	100	99.697	100	90-110	
Vanadium	100	96.536	97	90-110	
Zinc	100	98.521	99	90-110	

CCV1 Date: 07-Jul-2023 16:51 Seq: 7407789 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.967	97	90-110	
Antimony	100	93.554	94	90-110	
Arsenic	100	96.259	96	90-110	
Barium	100	97.146	97	90-110	
Beryllium	100	100.306	100	90-110	
Cadmium	100	96.943	97	90-110	
Calcium	10000	10024.796	100	90-110	
Chromium	100	96.647	97	90-110	
Cobalt	100	94.194	94	90-110	
Copper	100	95.241	95	90-110	
Iron	10000	9933.997	99	90-110	
Lead	100	97.123	97	90-110	
Magnesium	10000	9949.105	100	90-110	
Manganese	100	97.648	98	90-110	
Nickel	100	96.737	97	90-110	
Potassium	10000	9992.364	100	90-110	
Selenium	100	96.132	96	90-110	
Silver	100	97.479	98	90-110	
Sodium	10000	9842.163	98	90-110	
Thallium	100	104.859	105	90-110	
Vanadium	100	96.032	96	90-110	
Zinc	100	97.806	98	90-110	

CCV2 Date: 07-Jul-2023 17:09 Seq: 7407798 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.486	97	90-110	
Antimony	100	94.88	95	90-110	
Arsenic	100	94.863	95	90-110	
Barium	100	96.72	97	90-110	
Beryllium	100	98.015	98	90-110	

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCV2 Date: 07-Jul-2023 17:09 Seq: 7407798 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	96.67	97	90-110	
Calcium	10000	9911.426	99	90-110	
Chromium	100	95.431	95	90-110	
Cobalt	100	94.073	94	90-110	
Copper	100	94.639	95	90-110	
Iron	10000	9743.424	97	90-110	
Lead	100	95.099	95	90-110	
Magnesium	10000	9860.753	99	90-110	
Manganese	100	98.051	98	90-110	
Nickel	100	95.948	96	90-110	
Potassium	10000	9854.869	99	90-110	
Selenium	100	96.268	96	90-110	
Silver	100	98.173	98	90-110	
Sodium	10000	9610.457	96	90-110	
Thallium	100	101.923	102	90-110	
Vanadium	100	95.312	95	90-110	
Zinc	100	96.096	96	90-110	

CCV3 Date: 07-Jul-2023 17:41 Seq: 7407810 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.082	96	90-110	
Antimony	100	94.381	94	90-110	
Arsenic	100	95.525	96	90-110	
Barium	100	96.312	96	90-110	
Beryllium	100	93.775	94	90-110	
Cadmium	100	95.693	96	90-110	
Calcium	10000	9905.042	99	90-110	
Chromium	100	95.844	96	90-110	
Cobalt	100	93.748	94	90-110	
Copper	100	94.585	95	90-110	
Iron	10000	9696.028	97	90-110	
Lead	100	94.464	95	90-110	
Magnesium	10000	9789.42	98	90-110	
Manganese	100	97.164	97	90-110	
Nickel	100	96.989	97	90-110	
Potassium	10000	9893.658	99	90-110	
Selenium	100	96.295	96	90-110	
Silver	100	99.577	100	90-110	
Sodium	10000	9766.464	98	90-110	
Thallium	100	102.411	102	90-110	
Vanadium	100	95.574	96	90-110	
Zinc	100	96.182	96	90-110	

CCV4 Date: 07-Jul-2023 18:17 Seq: 7407890 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	154.727	155	90-110	S
Antimony	100	75.521	76	90-110	S
Arsenic	100	118.911	119	90-110	S
Barium	100	96.775	97	90-110	
Beryllium	100	98.513	99	90-110	
Cadmium	100	97.962	98	90-110	
Calcium	10000	87836.149	878	90-110	S
Chromium	100	144.273	144	90-110	S
Cobalt	100	80.013	80	90-110	S
Copper	100	105.454	105	90-110	

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCV4 Date: 07-Jul-2023 18:17 Seq: 7407890 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	8681.63	87	90-110	S
Lead	100	97.643	98	90-110	
Magnesium	10000	34834.915	348	90-110	S
Manganese	100	93.109	93	90-110	
Nickel	100	92.05	92	90-110	
Potassium	10000	69075.191	691	90-110	S
Selenium	100	609.697	610	90-110	S
Silver	100	98.823	99	90-110	
Sodium	10000	111559.603	1120	90-110	S
Thallium	100	98.951	99	90-110	
Vanadium	100	83.099	83	90-110	S
Zinc	100	66.786	67	90-110	S

CCV5 Date: 07-Jul-2023 18:24 Seq: 7407893 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.309	97	90-110	
Antimony	100	95.06	95	90-110	
Arsenic	100	92.38	92	90-110	
Barium	100	94.656	95	90-110	
Beryllium	100	95.36	95	90-110	
Cadmium	100	96.008	96	90-110	
Calcium	10000	9720.91	97	90-110	
Chromium	100	93.631	94	90-110	
Cobalt	100	91.237	91	90-110	
Copper	100	93.291	93	90-110	
Iron	10000	9468.719	95	90-110	
Lead	100	94.516	95	90-110	
Magnesium	10000	9581.234	96	90-110	
Manganese	100	95.1	95	90-110	
Nickel	100	94.899	95	90-110	
Potassium	10000	9627.413	96	90-110	
Selenium	100	94.187	94	90-110	
Silver	100	97.636	98	90-110	
Sodium	10000	9492.555	95	90-110	
Thallium	100	94.775	95	90-110	
Vanadium	100	93.469	94	90-110	
Zinc	100	93.922	94	90-110	

CCV6 Date: 07-Jul-2023 18:26 Seq: 7407894 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.84	98	90-110	
Antimony	100	94.709	95	90-110	
Arsenic	100	94.172	94	90-110	
Barium	100	94.451	95	90-110	
Beryllium	100	95.589	96	90-110	
Cadmium	100	95.251	95	90-110	
Calcium	10000	9795.53	98	90-110	
Chromium	100	95.1	95	90-110	
Cobalt	100	93.122	93	90-110	
Copper	100	93.956	94	90-110	
Iron	10000	9558.84	96	90-110	
Lead	100	94.956	95	90-110	
Magnesium	10000	9725.778	97	90-110	
Manganese	100	96.071	96	90-110	
Nickel	100	95.413	95	90-110	

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Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCV6 Date: 07-Jul-2023 18:26 Seq: 7407894 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9586.907	96	90-110	
Selenium	100	94.961	95	90-110	
Silver	100	97.389	97	90-110	
Sodium	10000	9486.701	95	90-110	
Thallium	100	97.218	97	90-110	
Vanadium	100	94.202	94	90-110	
Zinc	100	95.54	96	90-110	

CCV7 Date: 07-Jul-2023 18:46 Seq: 7407904 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.052	98	90-110	
Antimony	100	95.655	96	90-110	
Arsenic	100	94.22	94	90-110	
Barium	100	96.256	96	90-110	
Beryllium	100	98.245	98	90-110	
Cadmium	100	95.629	96	90-110	
Calcium	10000	9885.781	99	90-110	
Chromium	100	94.781	95	90-110	
Cobalt	100	93.674	94	90-110	
Copper	100	94.182	94	90-110	
Iron	10000	9645.921	97	90-110	
Lead	100	96.017	96	90-110	
Magnesium	10000	9705.563	97	90-110	
Manganese	100	97.002	97	90-110	
Nickel	100	95.074	95	90-110	
Potassium	10000	9625.947	96	90-110	
Selenium	100	95.087	95	90-110	
Silver	100	96.816	97	90-110	
Sodium	10000	9566.744	96	90-110	
Thallium	100	97.186	97	90-110	
Vanadium	100	94.518	95	90-110	
Zinc	100	96.421	96	90-110	

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Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: HG04_440667
Instrument: HG04
Method: SW7470A

ICB	Date: 06-Jul-2023 12:18		Seq: 7404665	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB1	Date: 06-Jul-2023 12:30		Seq: 7404668	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB2	Date: 06-Jul-2023 12:56		Seq: 7404680	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB3	Date: 06-Jul-2023 13:21		Seq: 7404661	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB4	Date: 06-Jul-2023 14:00		Seq: 7404692	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB5	Date: 06-Jul-2023 14:25		Seq: 7404704	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB6	Date: 06-Jul-2023 14:51		Seq: 7404716	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
MBLK-197186	Date: 06-Jul-2023 15:08		Seq: 7404723	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB7	Date: 06-Jul-2023 15:21		Seq: 7404728	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB8	Date: 06-Jul-2023 15:44		Seq: 7404740	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB9	Date: 06-Jul-2023 16:09		Seq: 7404796	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB10	Date: 06-Jul-2023 16:46		Seq: 7405297	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB11	Date: 06-Jul-2023 17:12		Seq: 7405309	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB12	Date: 06-Jul-2023 17:33		Seq: 7405321	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB13	Date: 06-Jul-2023 17:56		Seq: 7405333	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

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Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: HG04_440667
Instrument: HG04
Method: SW7470A

CCB14	Date: 06-Jul-2023 18:18		Seq: 7405342	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB15	Date: 06-Jul-2023 18:41		Seq: 7406804	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB16	Date: 06-Jul-2023 19:02		Seq: 7406816	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB17	Date: 06-Jul-2023 19:24		Seq: 7406828	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB18	Date: 06-Jul-2023 19:32		Seq: 7406833	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

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Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

ICB	Date: 07-Jul-2023 11:26		Seq: 7406361	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	0.746	0.7	5	J	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB1	Date: 07-Jul-2023 16:52		Seq: 7407790	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	22.18	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-197198	Date: 07-Jul-2023 16:55		Seq: 7407791	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	

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Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

MBLK-197198	Date: 07-Jul-2023 16:55		Seq: 7407791	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	0.737	0.7	5	J	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	26.11	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB2	Date: 07-Jul-2023 17:11		Seq: 7407799	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.422	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	19.59	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	40.23	14	200	J	
Thallium	0.238	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB3	Date: 07-Jul-2023 17:43		Seq: 7407811	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

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Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCB3	Date: 07-Jul-2023 17:43		Seq: 7407811	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	36.07	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	75.66	14	200	J	
Thallium	0.231	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 07-Jul-2023 18:19		Seq: 7407891	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	17.55	14	200	J	
Thallium	0.599	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 07-Jul-2023 18:48		Seq: 7407905	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	

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Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCB5 | Date: 07-Jul-2023 18:48 | Seq: 7407905 | CCB | Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Potassium	200	18	200	U
Selenium	2	1.1	2	U
Silver	2	0.2	2	U
Sodium	200	14	200	U
Thallium	0.805	0.2	2	J
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US Date: 24-Jul-23

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Run ID:ICPMS06_440735
Instrument:ICPMS06
Method:SW6020A

ICSA	Date: 07-Jul-2023 11:34	Seq: 7406363	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	90970	91.0	
Antimony		0.248	0	
Arsenic		0.305	0	
Barium		0.611	0	
Beryllium		0	0	
Cadmium		0.344	0	
Calcium	100000	95450	95.4	
Chromium		1.563	0	
Cobalt		0.516	0	
Copper		0.153	0	
Iron	100000	98720	98.7	
Lead		0.158	0	
Magnesium	100000	98790	98.8	
Manganese		1.062	0	
Nickel		0.874	0	
Potassium	100000	99550	99.6	
Selenium		-0.158	0	
Silver		0.156	0	
Sodium	100000	97060	97.1	
Thallium		0.014	0	
Vanadium		0.174	0	
Zinc		2.591	0	

ICSAB	Date: 07-Jul-2023 11:36	Seq: 7406364	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	90290	89.8	
Antimony	100	98.35	98.4	
Arsenic	100	98.97	99.0	
Barium	100	100.3	100	
Beryllium	100	99.92	99.9	
Cadmium	100	98.91	98.9	
Calcium	110000	103400	94.0	
Chromium	100	99.43	99.4	
Cobalt	100	96.62	96.6	
Copper	100	95.98	96.0	
Iron	110000	108100	98.2	
Lead	100	101.2	101	
Magnesium	110000	107800	98.0	
Manganese	100	99.86	99.9	
Nickel	100	96.7	96.7	
Potassium	110000	108100	98.2	
Selenium	100	97.5	97.5	
Silver	100	98.18	98.2	
Sodium	110000	106700	97.0	
Thallium	100	100.3	100	
Vanadium	100	98.73	98.7	
Zinc	100	100.2	100	

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Date: 24-Jul-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Date Analyzed: 06-Jul-2023 15:24
Date Extracted: 06-Jul-2023 09:00
Units: ug/L

Matrix Spike: HS23061459-01MS
Client Sample ID:

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.750	5.000	95.0	5.280	5.000	106	82-119	10.6	20

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Date: 24-Jul-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Date Analyzed: 07-Jul-2023 17:05
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Matrix Spike: HS23061712-08MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	5.422	95.09	100.0	89.7	96.07	100.0	90.7	84-117	1.03	20
Antimony	5.000	45.05	50.00	89.9	45.92	50.00	91.6	85-117	1.91	20
Arsenic	5.000	45.42	50.00	90.5	46.24	50.00	92.2	84-116	1.79	20
Barium	493.7	517.8	50.00	48.1	533.1	50.00	78.8	86-114	2.92	20
Beryllium	2.000	47.78	50.00	95.6	47.02	50.00	94.0	83-121	1.61	20
Cadmium	2.000	44.69	50.00	89.1	46.00	50.00	91.8	87-115	2.90	20
Calcium	24200	28510	5000	86.1	29100	5000	97.9	87-118	2.05	20
Chromium	21.75	65.21	50.00	86.9	65.80	50.00	88.1	85-116	0.893	20
Cobalt	18.69	60.97	50.00	84.6	61.14	50.00	84.9	86-115	0.280	20
Copper	1.373	44.22	50.00	85.7	45.03	50.00	87.3	85-118	1.82	20
Iron	923.8	5463	5000	90.8	5518	5000	91.9	87-118	1.02	20
Lead	5.000	43.80	50.00	87.6	44.84	50.00	89.6	88-115	2.34	20
Magnesium	20720	25040	5000	86.3	25170	5000	88.9	83-118	0.508	20
Manganese	670.7	686.7	50.00	32.0	694.5	50.00	47.6	87-115	1.13	20
Nickel	1357	1381	50.00	49.1	1389	50.00	64.4	85-117	0.552	20
Potassium	2144	6671	5000	90.5	6734	5000	91.8	87-115	0.936	20
Selenium	5.000	44.58	50.00	89.3	45.70	50.00	91.5	80-120	2.47	20
Silver	5.000	43.85	50.00	87.7	44.09	50.00	88.2	85-116	0.539	20
Sodium	194000	195600	5000	31.6	197300	5000	67.0	85-117	0.902	20
Thallium	0.6360	40.61	50.00	80.0	42.40	50.00	83.5	82-116	4.31	20
Vanadium	5.000	44.48	50.00	88.7	44.68	50.00	89.1	86-115	0.437	20
Zinc	5.000	46.51	50.00	89.2	47.47	50.00	91.2	83-119	2.04	20

ALS Houston, US Date: 24-Jul-23

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Date Analyzed: 07-Jul-2023 17:07
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Lab Sample ID: HS23061712-08PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	5.422	101.2	100	96	80-120
Antimony	0	90.21	100	90	80-120
Arsenic	0	95.31	100	95	80-120
Barium	493.7	586.3	100	93	80-120
Beryllium	0	97.68	100	98	80-120
Cadmium	0	96.95	100	97	80-120
Calcium	24200	33270	10000	91	80-120
Chromium	21.75	113.1	100	91	80-120
Cobalt	18.69	111.6	100	93	80-120
Copper	1.373	91.21	100	90	80-120
Iron	923.8	10480	10000	96	80-120
Lead	0	92.66	100	93	80-120
Magnesium	20720	30570	10000	99	80-120
Manganese	670.7	746.1	100	75	80-120
Nickel	1357	1422	100	65	80-120
Potassium	2144	11870	10000	97	80-120
Selenium	0	95.44	100	96	80-120
Silver	0	96.28	100	96	80-120
Thallium	0.636	103.7	100	103	80-120
Vanadium	0	92.73	100	93	80-120
Zinc	0	95.99	100	94	80-120
Sodium	190400	377800	200000	94	80-120

ALS Houston, US

Date: 24-Jul-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Date Analyzed: 06-Jul-2023 15:10
Date Extracted: 06-Jul-2023 09:00
Units: ug/L

Lab Sample ID: LCS-197186
Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	5.24	105	82-119

ALS Houston, US Date: 24-Jul-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Date Analyzed: 07-Jul-2023 16:57
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Lab Sample ID: LCS-197198 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	101.6	102	84-117
Antimony	50	45.62	91	85-117
Arsenic	50	44.75	90	84-116
Barium	50	43.51	87	86-114
Beryllium	50	45.95	92	83-121
Cadmium	50	44.46	89	87-115
Calcium	5000	4857	97	87-118
Chromium	50	44.28	89	85-116
Cobalt	50	44.16	88	86-115
Copper	50	45.32	91	85-118
Iron	5000	4675	94	87-118
Magnesium	5000	4840	97	83-118
Manganese	50	45.25	91	87-115
Nickel	50	45.68	91	85-117
Potassium	5000	4797	96	87-115
Selenium	50	44.97	90	80-120
Silver	50	44.57	89	85-116
Sodium	5000	4773	96	85-117
Vanadium	50	44.33	89	86-115
Zinc	50	47.19	94	83-119
Lead	50	47.4	95	88-115
Thallium	50	44.74	90	82-116

ALS Houston, US Date: 24-Jul-23

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061557

Date Analyzed: 07-Jul-2023 17:01
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Lab Sample ID: HS23061712-08SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	5.422	J	11.17	J	106	
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	493.7		480.3		3	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	24200		23480		3	
Chromium	21.75		21.3	J	2	
Cobalt	18.69		18.22	J	2	
Copper	1.373	J	0	U	0	
Iron	923.8		923.8	J	0	
Lead	0	U	0	U	0	
Magnesium	20720		20140		3	
Manganese	670.7		667		1	
Nickel	1357		1355		0	
Potassium	2144		2095		2	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Thallium	0.636	J	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	0	U	0	U	0	
Sodium	190400		197100		4	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\070623AW.wszf

Creation Date: 7/6/2023 11:06:35 AM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank					STD	07/06/23 11:54:27 am	0.000	63	40.45		
	Replicates	42.8	39.4	88.6	81.0						
Standard #1 (0.2 ppb)					STD	07/06/23 11:56:10 am	0.200	1361	1.52	-4.14%	
	Replicates	1354.4	1338.2	1362.2	1387.8						
Standard #2 (0.5 ppb)					STD	07/06/23 11:57:52 am	0.500	3704	0.90	8.92%	
	Replicates	3661.7	3693.7	3736.3	3724.5						
Standard #3 (2.0 ppb)					STD	07/06/23 11:59:35 am	2.000	12935	0.80	-3.27%	
	Replicates	12802.5	12943.4	12939.8	13056.2						
Standard #4 (5.0 ppb)					STD	07/06/23 12:06:30 pm	5.000	32135	1.20	-3.49%	
	Replicates	31696.7	31995.8	32235.4	32612.6						
Standard #5 (10.0 ppb)					STD	07/06/23 12:08:13 pm	10.000	67172	0.51	1.01%	
	Replicates	67179.5	67454.3	66684.1	67369.9						

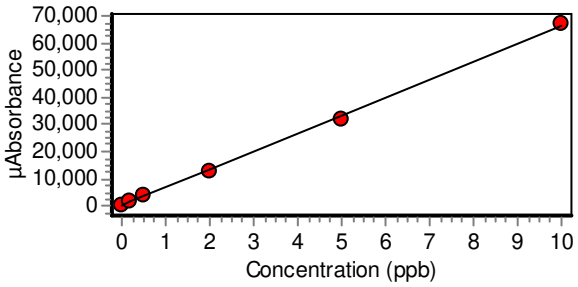
Calibration

Equation: Abs = 6641.376x + 87.337

R2: 0.99940 RSE: 6.34%

SEE: 720.0263

Flags:



ICCV					UNK	07/06/23 12:11:53 pm	5.290	35190	0.77		
	Replicates	34860.4	35094.4	35338.0	35469.0						
ICCV					UNK	07/06/23 12:15:09 pm	4.960	33060	0.93		
	Replicates	32770.4	33297.3	33353.5	32820.1						
ICV					UNK	07/06/23 12:16:50 pm	4.630	30818	2.93		
	Replicates	29903.3	30449.1	30896.1	32023.7						
ICB					UNK	07/06/23 12:18:32 pm	0.004	115	28.98		
	Replicates	106.5	113.3	125.9	114.9						
CRA					UNK	07/06/23 12:20:14 pm	0.186	1323	1.66		
	Replicates	1308.9	1302.7	1338.7	1343.1						
CCV					UNK	07/06/23 12:29:13 pm	4.890	32546	0.29		
	Replicates	32429.7	32519.3	32581.5	32652.1						
CCB					UNK	07/06/23 12:30:57 pm	-0.010	24	17.13		
	Replicates	22.9	21.4	11.8	38.2						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
MBLK-197172					UNK	07/06/23 12:36:21 pm	0.015	188	20.47		
	Replicates	177.4	218.3	183.7	172.9						
LCS-197172					UNK	07/06/23 12:38:04 pm	5.060	33661	1.10		
	Replicates	33149.6	33635.4	33911.0	33949.6						
MBLKT1-196980					UNK	07/06/23 12:39:46 pm	0.000	86	269.64		
	Replicates	64.1	66.8	105.0	106.2						
MBLKT2-197051					UNK	07/06/23 12:41:28 pm	-0.001	79	224.84		
	Replicates	60.7	77.9	104.5	73.3						
HS23061918-01					UNK	07/06/23 12:43:11 pm	0.019	214	8.84		
	Replicates	206.1	203.5	225.9	222.1						
HS23061964-01					UNK	07/06/23 12:44:54 pm	0.086	656	3.23		
	Replicates	645.7	639.6	656.8	681.2						
HS23061974-01					UNK	07/06/23 12:46:36 pm	0.005	120	77.53		
	Replicates	158.4	104.6	114.4	104.4						
HS23061974-01MS					UNK	07/06/23 12:48:19 pm	5.440	36185	0.26		
	Replicates	36115.0	36091.2	36259.2	36274.4						
HS23061974-01MSD					UNK	07/06/23 12:50:01 pm	5.440	36185	0.13		
	Replicates	36183.1	36221.8	36217.6	36117.8						
HS23061974-02					UNK	07/06/23 12:51:42 pm	0.008	143	37.47		
	Replicates	136.0	138.1	125.1	173.3						
CCV					UNK	07/06/23 12:55:01 pm	5.380	35828	0.23		
	Replicates	35733.7	35785.4	35903.6	35889.6						
CCB					UNK	07/06/23 12:56:45 pm	-0.007	41	11.95		
	Replicates	47.7	42.8	34.6	39.4						
HS23062014-01					UNK	07/06/23 01:01:38 pm	0.011	158	7.74		
	Replicates	156.2	164.2	151.6	160.8						
HS23062057-01					UNK	07/06/23 01:03:20 pm	0.023	238	5.14		
	Replicates	234.9	234.0	249.8	234.0						
HS23062069-01					UNK	07/06/23 01:05:02 pm	-0.014	-5	23.54		
	Replicates	-27.4	12.2	15.0	-19.8						
HS23062078-01					UNK	07/06/23 01:06:44 pm	-0.015	-15	17.47		
	Replicates	-15.7	-14.0	7.4	-36.2						
HS23062079-01					UNK	07/06/23 01:08:27 pm	-0.027	-93	6.75		
	Replicates	-77.7	-107.3	-95.5	-92.5						
HS23062080-01					UNK	07/06/23 01:10:09 pm	-0.040	-179	7.15		
	Replicates	-175.4	-187.3	-198.1	-153.7						
HS23062082-01					UNK	07/06/23 01:11:52 pm	-0.015	-9	11.11		
	Replicates	-7.5	-19.0	5.2	-15.4						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23070007-01					UNK	07/06/23 01:13:34 pm	0.013	171	24.02		
	Replicates	157.5	185.9	150.7	191.1						
CCV					UNK	07/06/23 01:19:22 pm	5.130	34167	0.24		
	Replicates	34047.0	34191.0	34222.2	34206.2						
CCB					UNK	07/06/23 01:21:06 pm	-0.008	31	14.93		
	Replicates	22.6	41.6	34.4	27.2						
MBLK-197178					UNK	07/06/23 01:27:59 pm	0.009	148	7.03		
	Replicates	145.7	143.3	150.3	152.7						
LCS-197178					UNK	07/06/23 01:31:51 pm	5.560	37045	0.30		
	Replicates	37134.8	37111.3	37043.5	36889.5						
LCSD-197178					UNK	07/06/23 01:35:37 pm	5.270	35104	0.28		
	Replicates	34970.7	35102.9	35209.9	35131.1						
LOQ-197178					UNK	07/06/23 01:37:19 pm	0.178	1271	0.68		
	Replicates	1279.3	1264.0	1277.2	1264.8						
HS23061772-01					UNK	07/06/23 01:39:00 pm	0.009	150	15.32		
	Replicates	158.5	138.8	146.0	158.2						
HS23061772-03					UNK	07/06/23 01:40:42 pm	0.012	167	22.29		
	Replicates	189.5	168.0	146.8	162.4						
HS23061772-03MS					UNK	07/06/23 01:45:03 pm	5.470	36447	0.23		
	Replicates	36498.6	36518.5	36439.5	36331.5						
HS23061772-03MSD					UNK	07/06/23 01:49:28 pm	5.020	33415	0.55		
	Replicates	33558.6	33540.6	33400.4	33160.8						
HS23061772-04					UNK	07/06/23 01:51:11 pm	0.002	102	192.96		
	Replicates	126.6	90.6	67.4	123.4						
HS23061772-05					UNK	07/06/23 01:52:53 pm	0.002	104	93.20		
	Replicates	123.9	89.3	94.9	106.9						
CCV					UNK	07/06/23 01:58:49 pm	5.340	35583	0.82		
	Replicates	35189.0	35551.3	35730.3	35860.7						
CCB					UNK	07/06/23 02:00:33 pm	-0.010	23	13.93		
	Replicates	29.6	30.5	11.9	18.3						
HS23061772-06					UNK	07/06/23 02:05:21 pm	0.007	135	69.23		
	Replicates	87.9	138.7	163.7	150.1						
MBLK-197179					UNK	07/06/23 02:07:04 pm	0.002	99	79.68		
	Replicates	102.2	85.2	103.4	104.6						
LCS-197179					UNK	07/06/23 02:08:47 pm	5.060	33665	0.95		
	Replicates	33278.5	33578.9	33767.3	34035.7						
MBLKF1-196701					UNK	07/06/23 02:10:30 pm	-0.005	54	23.11		
	Replicates	49.5	65.2	48.6	51.0						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23061527-01					UNK	07/06/23 02:12:12 pm	0.017	201	10.99		
	Replicates	187.9	195.1	206.5	216.3						
HS23061527-02					UNK	07/06/23 02:13:53 pm	0.017	203	10.72		
	Replicates	195.3	211.1	190.3	216.3						
HS23061527-03					UNK	07/06/23 02:15:35 pm	0.001	94	211.42		
	Replicates	80.6	87.9	93.7	115.3						
HS23061527-04					UNK	07/06/23 02:17:17 pm	0.005	121	60.24		
	Replicates	108.0	99.7	142.1	132.7						
HS23061527-05					UNK	07/06/23 02:18:59 pm	-0.001	82	227.91		
	Replicates	90.0	93.5	69.7	76.5						
HS23061527-06					UNK	07/06/23 02:20:41 pm	0.015	184	22.08		
	Replicates	173.4	164.3	213.5	186.3						
CCV					UNK	07/06/23 02:24:13 pm	5.310	35357	1.00		
	Replicates	34878.2	35321.0	35558.2	35672.0						
CCB					UNK	07/06/23 02:25:57 pm	-0.007	40	39.29		
	Replicates	51.5	17.1	34.5	58.3						
HS23061527-07					UNK	07/06/23 02:29:18 pm	0.011	162	26.94		
	Replicates	158.3	135.2	179.6	175.2						
HS23061527-08					UNK	07/06/23 02:31:01 pm	0.010	156	13.52		
	Replicates	149.6	157.9	168.5	148.3						
HS23061527-09					UNK	07/06/23 02:32:43 pm	0.001	92	399.30		
	Replicates	78.1	109.2	105.6	74.6						
HS23061527-10					UNK	07/06/23 02:34:26 pm	-0.004	58	31.13		
	Replicates	63.5	54.4	47.2	67.4						
HS23061527-11					UNK	07/06/23 02:36:09 pm	0.006	131	33.29		
	Replicates	131.0	131.1	112.5	147.7						
HS23061527-12					UNK	07/06/23 02:37:52 pm	0.023	241	9.35		
	Replicates	221.7	238.1	250.3	253.3						
HS23061527-12MS					UNK	07/06/23 02:39:34 pm	5.400	35964	0.42		
	Replicates	35772.1	35917.7	36057.3	36107.3						
HS23061527-12MSD					UNK	07/06/23 02:43:40 pm	5.190	34562	0.11		
	Replicates	34551.1	34591.9	34593.5	34510.7						
HS23061527-13					UNK	07/06/23 02:45:22 pm	-0.014	-4	24.43		
	Replicates	-12.7	-17.7	29.3	-15.1						
HS23061527-14					UNK	07/06/23 02:47:04 pm	-0.002	72	64.15		
	Replicates	71.8	84.8	61.2	71.4						
CCV					UNK	07/06/23 02:49:34 pm	5.380	35841	0.33		
	Replicates	35680.1	35857.7	35961.5	35866.3						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCB					UNK	07/06/23 02:51:18 pm	-0.008	33	33.85		
	Replicates	12.4	54.0	41.0	22.8						
HS23061527-15					UNK	07/06/23 02:55:25 pm	0.004	116	62.82		
	Replicates	100.6	140.6	116.0	105.6						
HS23070114-01					UNK	07/06/23 02:57:07 pm	0.007	137	56.24		
	Replicates	134.4	107.5	131.7	175.1						
HS23070114-02					UNK	07/06/23 02:58:49 pm	0.011	163	42.44		
	Replicates	144.6	130.6	202.8	174.2						
HS23070114-03					UNK	07/06/23 03:00:32 pm	0.016	194	13.93		
	Replicates	178.7	201.1	210.9	184.5						
HS23070114-04					UNK	07/06/23 03:02:14 pm	0.016	194	7.56		
	Replicates	190.9	188.0	192.4	206.2						
HS23070114-05					UNK	07/06/23 03:03:57 pm	0.015	190	17.79		
	Replicates	200.8	191.3	163.3	202.7						
MBLK-197186					UNK	07/06/23 03:08:39 pm	0.003	110	63.26		
	Replicates	111.6	89.3	121.3	116.7						
LCS-197186					UNK	07/06/23 03:10:21 pm	5.240	34883	0.45		
	Replicates	34664.4	34882.3	34949.9	35034.3						
HS23061459-01					UNK	07/06/23 03:12:04 pm	-0.001	80	121.75		
	Replicates	84.9	84.2	65.4	83.8						
HS23061459-01MS					UNK	07/06/23 03:16:57 pm	4.750	31615	0.61		
	Replicates	31388.8	31550.9	31678.7	31841.3						
CCV					UNK	07/06/23 03:19:20 pm	5.300	35314	1.00		
	Replicates	34863.2	35233.8	35470.6	35687.6						
CCB					UNK	07/06/23 03:21:04 pm	-0.002	71	156.87		
	Replicates	62.0	41.1	96.7	86.1						
HS23061459-01MSD					UNK	07/06/23 03:24:21 pm	5.280	35186	0.87		
	Replicates	34806.3	35101.8	35310.8	35526.4						
HS23061459-02					UNK	07/06/23 03:26:03 pm	0.007	131	43.61		
	Replicates	125.5	159.8	121.2	118.8						
HS23061459-03					UNK	07/06/23 03:27:45 pm	0.005	120	47.45		
	Replicates	140.0	122.3	106.5	109.3						
HS23061459-04					UNK	07/06/23 03:29:28 pm	0.015	184	16.27		
	Replicates	169.1	190.5	172.5	202.5						
HS23061459-05					UNK	07/06/23 03:31:10 pm	0.047	401	8.71		
	Replicates	368.6	435.4	401.2	398.4						
HS23061459-06					UNK	07/06/23 03:32:52 pm	-0.002	77	223.73		
	Replicates	55.8	106.3	58.5	85.9						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23061459-08					UNK	07/06/23 03:34:35 pm	0.011	159	35.02		
	Replicates	177.4	127.5	179.9	149.1						
HS23061557-01					UNK	07/06/23 03:36:18 pm	0.009	146	45.34		
	Replicates	124.1	170.5	121.7	166.9						
HS23061557-03					UNK	07/06/23 03:38:01 pm	0.001	96	112.30		
	Replicates	82.9	105.6	98.2	96.4						
HS23061557-06					UNK	07/06/23 03:39:44 pm	0.002	99	40.60		
	Replicates	99.4	92.4	100.4	103.6						
CCV					UNK	07/06/23 03:42:19 pm	5.330	35498	0.96		
	Replicates	35065.9	35406.6	35672.6	35847.4						
CCB					UNK	07/06/23 03:44:03 pm	-0.010	24	39.75		
	Replicates	45.5	29.5	-13.1	32.1						
HS23061557-08					UNK	07/06/23 03:47:41 pm	0.008	141	31.61		
	Replicates	116.0	151.2	152.0	145.2						
MBLK-197189					UNK	07/06/23 03:49:23 pm	-0.002	77	166.86		
	Replicates	100.5	59.7	67.5	79.1						
LCS-197189					UNK	07/06/23 03:51:06 pm	5.370	35768	0.72		
	Replicates	35432.3	35708.4	35923.8	36008.4						
HS23051971-01					UNK	07/06/23 03:52:48 pm	0.422	2889	1.67		
	Replicates	2845.0	2857.0	2907.6	2946.4						
HS23062033-01					UNK	07/06/23 03:54:31 pm	0.007	136	24.43		
	Replicates	133.8	147.1	143.1	120.3						
HS23062033-01MS					UNK	07/06/23 03:56:13 pm	4.880	32493	0.54		
	Replicates	32630.0	32282.2	32412.8	32647.2						
HS23062033-01MSD					UNK	07/06/23 03:57:55 pm	4.880	32526	1.19		
	Replicates	32060.8	32403.0	32676.4	32964.6						
HS23062072-01					UNK	07/06/23 03:59:38 pm	0.006	129	46.38		
	Replicates	126.4	137.8	102.8	147.0						
MBLK-197185					UNK	07/06/23 04:01:20 pm	0.007	131	54.52		
	Replicates	119.3	165.2	126.4	112.2						
LCS-197185					UNK	07/06/23 04:05:25 pm	5.010	33337	0.36		
	Replicates	33276.1	33259.3	33297.7	33516.9						
CCV					UNK	07/06/23 04:07:53 pm	5.130	34169	1.10		
	Replicates	33696.5	34059.2	34373.4	34548.4						
CCB					UNK	07/06/23 04:09:37 pm	-0.007	38	26.40		
	Replicates	46.8	23.2	51.0	31.6						
HS23061437-09					UNK	07/06/23 04:14:19 pm	-0.002	75	229.83		
	Replicates	97.5	101.6	44.2	55.4						

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23061488-01		UNK	07/06/23 04:16:02 pm	0.000	88	925.03		
Replicates	118.0	68.7	76.3	89.3				
HS23061488-02		UNK	07/06/23 04:17:45 pm	0.042	369	11.25		
Replicates	356.9	333.9	376.5	408.7				
HS23061488-02MS		UNK	07/06/23 04:22:16 pm	4.470	29778	0.74		
Replicates	29503.6	29716.4	29874.6	30019.2				
HS23061488-02MSD		UNK	07/06/23 04:26:35 pm	4.410	29389	0.62		
Replicates	29120.8	29423.3	29515.7	29495.5				
HS23061488-03		UNK	07/06/23 04:28:17 pm	-0.041	-184	2.69		
Replicates	-175.7	-190.9	-190.1	-181.3				
HS23061488-04		UNK	07/06/23 04:30:00 pm	0.023	238	18.54		
Replicates	203.1	268.6	249.0	230.4				
HS23061488-05		UNK	07/06/23 04:31:42 pm	0.166	1191	0.83		
Replicates	1183.3	1183.8	1202.2	1195.0				
HS23061488-06		UNK	07/06/23 04:33:25 pm	-0.018	-30	12.43		
Replicates	-12.7	-29.9	-29.9	-48.5				
HS23061488-07		UNK	07/06/23 04:35:08 pm	0.005	120	45.58		
Replicates	122.6	110.1	107.1	139.7				
CCV		UNK	07/06/23 04:44:55 pm	4.700	31293	1.67		
Replicates	30689.3	31094.7	31483.1	31905.1				
CCB		UNK	07/06/23 04:46:39 pm	-0.004	62	120.38		
Replicates	16.1	76.1	77.9	77.7				
HS23061488-08		UNK	07/06/23 04:50:39 pm	0.008	140	50.95		
Replicates	106.6	172.5	140.5	140.9				
HS23061488-09		UNK	07/06/23 04:52:21 pm	0.012	167	40.61		
Replicates	169.1	165.6	206.4	127.2				
HS23061488-10		UNK	07/06/23 04:54:04 pm	0.057	467	11.07		
Replicates	492.9	434.0	429.0	512.8				
HS23061488-11		UNK	07/06/23 04:55:47 pm	-0.007	42	28.05		
Replicates	59.2	35.0	30.4	43.8				
HS23061961-01		UNK	07/06/23 04:57:30 pm	0.021	223	17.52		
Replicates	240.1	205.0	200.8	247.4				
HS23061961-01		UNK	07/06/23 05:01:34 pm	-0.007	42	50.32		
Replicates	45.0	55.4	9.4	59.2				
HS23061961-02		UNK	07/06/23 05:03:17 pm	0.001	96	349.59		
Replicates	54.4	122.5	109.3	96.9				
HS23061961-03		UNK	07/06/23 05:04:59 pm	0.010	155	46.68		
Replicates	147.5	118.8	194.8	157.2				

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23061961-04					UNK	07/06/23 05:06:42 pm	-0.010	21	30.17		
	Replicates	24.2	34.4	-9.0	32.4						
HS23061961-05					UNK	07/06/23 05:08:25 pm	0.002	103	143.12		
	Replicates	110.6	129.6	95.8	76.4						
CCV					UNK	07/06/23 05:10:29 pm	5.020	33406	1.61		
	Replicates	32740.5	33253.2	33641.8	33989.8						
CCB					UNK	07/06/23 05:12:12 pm	-0.001	81	124.64		
	Replicates	90.0	83.3	69.9	79.3						
HS23061961-06					UNK	07/06/23 05:15:06 pm	0.018	204	34.07		
	Replicates	254.0	217.9	177.9	166.9						
HS23061961-07					UNK	07/06/23 05:16:49 pm	-0.001	77	116.28		
	Replicates	62.9	89.8	74.6	82.4						
HS23061961-08					UNK	07/06/23 05:18:31 pm	-0.012	5	21.83		
	Replicates	-13.0	6.4	29.2	-2.6						
MBLK-197187					UNK	07/06/23 05:20:14 pm	-0.001	82	387.27		
	Replicates	92.1	89.4	51.0	95.4						
LCS-197187					UNK	07/06/23 05:21:57 pm	5.490	36524	1.41		
	Replicates	35886.8	36366.0	36767.4	37074.0						
HS23060878-01					UNK	07/06/23 05:23:40 pm	-0.020	-47	7.82		
	Replicates	-33.6	-43.7	-56.3	-54.5						
HS23061080-01					UNK	07/06/23 05:25:23 pm	0.000	87	734.08		
	Replicates	106.1	41.8	107.8	93.0						
HS23061080-02					UNK	07/06/23 05:27:05 pm	0.008	143	30.52		
	Replicates	152.9	118.0	146.0	154.2						
HS23061080-03					UNK	07/06/23 05:28:48 pm	-0.004	58	83.37		
	Replicates	81.3	41.9	76.3	32.1						
HS23061080-04					UNK	07/06/23 05:30:31 pm	-0.003	66	70.33		
	Replicates	85.1	49.7	69.1	60.5						
CCV					UNK	07/06/23 05:32:14 pm	4.740	31559	1.35		
	Replicates	31070.1	31396.8	31703.8	32064.0						
CCB					UNK	07/06/23 05:33:58 pm	-0.004	60	74.02		
	Replicates	75.0	32.2	59.4	74.4						
HS23061080-05					UNK	07/06/23 05:36:37 pm	0.005	119	21.69		
	Replicates	118.0	128.2	112.6	115.6						
HS23061080-06					UNK	07/06/23 05:38:19 pm	0.010	153	21.00		
	Replicates	162.2	143.4	139.0	167.0						
HS23061080-07					UNK	07/06/23 05:40:02 pm	0.006	128	49.89		
	Replicates	118.5	147.8	104.4	142.8						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23061080-08					UNK	07/06/23 05:41:45 pm	0.005	123	61.07		
Replicates	95.9	118.1	130.9	147.9							
HS23061080-09					UNK	07/06/23 05:43:28 pm	0.009	148	54.65		
Replicates	126.5	113.1	171.5	180.5							
HS23061080-10					UNK	07/06/23 05:45:11 pm	0.024	249	13.23		
Replicates	260.6	273.4	230.4	231.8							
HS23061961-09					UNK	07/06/23 05:47:52 pm	-0.001	82	624.06		
Replicates	52.8	51.1	113.1	110.3							
HS23061961-09MS					UNK	07/06/23 05:49:35 pm	4.480	29828	1.39		
Replicates	29342.7	29695.1	29953.7	30320.5							
HS23061961-09MSD					UNK	07/06/23 05:51:18 pm	4.480	29855	1.71		
Replicates	29229.6	29706.3	30060.3	30425.3							
HS23061961-10					UNK	07/06/23 05:53:01 pm	-0.017	-22	7.15		
Replicates	-26.4	-20.8	-12.0	-30.0							
CCV					UNK	07/06/23 05:55:12 pm	5.000	33294	1.64		
Replicates	32514.2	33376.4	33520.8	33764.6							
CCB					UNK	07/06/23 05:56:56 pm	-0.006	46	19.02		
Replicates	57.5	41.0	41.4	42.6							
HS23061961-11					UNK	07/06/23 05:59:20 pm	0.004	111	51.45		
Replicates	93.4	118.8	118.8	111.6							
HS23061961-12					UNK	07/06/23 06:01:03 pm	0.000	87	791.61		
Replicates	84.4	112.7	67.1	82.3							
HS23061961-13					UNK	07/06/23 06:02:46 pm	-0.002	74	165.16		
Replicates	99.3	50.0	60.4	85.0							
HS23061961-14					UNK	07/06/23 06:04:29 pm	0.003	107	103.67		
Replicates	80.4	102.4	126.0	118.2							
HS23061961-15					UNK	07/06/23 06:06:12 pm	-0.003	64	104.15		
Replicates	55.7	35.2	75.4	90.6							
HS23061961-16					UNK	07/06/23 06:07:55 pm	-0.001	81	112.53		
Replicates	86.0	85.1	70.5	82.3							
MBLK-197190					UNK	07/06/23 06:08:06 pm	0.000	NAN	0.00		O
Replicates	0.0	NAN	NAN	NAN							
HS23062108-03					UNK	07/06/23 06:11:41 pm	0.000	90	507.24		
Replicates	74.6	102.2	92.6	89.0							
MBLK-197190					UNK	07/06/23 06:13:24 pm	0.004	111	160.49		
Replicates	127.6	78.8	155.2	80.8							
LCS-197190					UNK	07/06/23 06:15:07 pm	5.180	34468	1.32		
Replicates	34530.9	35008.9	34433.3	33898.9							

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCV					UNK	07/06/23 06:16:50 pm	4.890	32595	1.52		
	Replicates	31994.5	32447.1	32789.3	33149.5						
CCB					UNK	07/06/23 06:18:34 pm	-0.005	55	56.05		
	Replicates	51.3	71.0	31.8	67.4						
HS23061080-11					UNK	07/06/23 06:20:17 pm	-0.007	42	70.88		
	Replicates	62.8	60.3	-5.9	50.1						
HS23061527-01					UNK	07/06/23 06:22:00 pm	-0.008	36	38.74		
	Replicates	24.6	46.2	14.4	58.2						
HS23061527-02					UNK	07/06/23 06:23:44 pm	0.035	321	9.20		
	Replicates	343.1	299.5	335.1	305.7						
HS23061527-03					UNK	07/06/23 06:25:27 pm	0.006	130	54.25		
	Replicates	96.9	131.8	149.2	140.6						
HS23061527-04					UNK	07/06/23 06:27:10 pm	-0.004	62	56.72		
	Replicates	82.8	60.8	54.8	51.6						
HS23061527-05					UNK	07/06/23 06:28:53 pm	0.023	242	31.69		
	Replicates	196.5	225.1	235.1	311.3						
HS23061527-06					UNK	07/06/23 06:30:36 pm	-0.002	72	40.21		
	Replicates	76.2	63.3	76.7	71.1						
HS23061527-07					UNK	07/06/23 06:32:20 pm	0.029	278	6.64		
	Replicates	268.5	284.1	292.7	266.3						
HS23061527-08					UNK	07/06/23 06:34:03 pm	0.007	133	86.43		
	Replicates	78.0	151.2	168.6	133.4						
HS23061527-09					UNK	07/06/23 06:35:46 pm	-0.009	31	43.15		
	Replicates	38.9	-2.2	56.0	30.2						
CCV					UNK	07/06/23 06:40:07 pm	4.870	32437	1.43		
	Replicates	31862.8	32317.6	32611.4	32955.6						
CCB					UNK	07/06/23 06:41:51 pm	-0.005	57	51.14		
	Replicates	38.3	49.1	68.7	70.7						
HS23061527-10					UNK	07/06/23 06:43:34 pm	-0.001	78	226.84		
	Replicates	50.7	96.8	69.0	94.2						
HS23061527-11					UNK	07/06/23 06:45:18 pm	0.003	107	49.89		
	Replicates	108.7	120.6	98.4	101.2						
HS23061527-12					UNK	07/06/23 06:47:01 pm	0.168	1204	3.07		
	Replicates	1176.3	1251.3	1181.1	1207.1						
HS23061527-12MS					UNK	07/06/23 06:48:44 pm	5.240	34881	1.21		
	Replicates	34427.9	34722.5	34950.1	35425.3						
HS23061527-12MSD					UNK	07/06/23 06:50:27 pm	4.990	33197	1.16		
	Replicates	32730.0	33075.8	33362.6	33620.6						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23061527-13					UNK	07/06/23 06:52:10 pm	-0.015	-15	42.48		
	Replicates	48.9	-23.6	-41.2	-43.2						
HS23061527-14					UNK	07/06/23 06:53:53 pm	-0.004	62	80.03		
	Replicates	92.1	47.2	54.8	52.6						
HS23061527-15					UNK	07/06/23 06:55:36 pm	-0.010	22	41.76		
	Replicates	19.4	45.5	-16.3	37.5						
HS23061531-05					UNK	07/06/23 06:57:20 pm	-0.003	69	117.27		
	Replicates	40.5	76.5	92.1	66.5						
HS23061547-01					UNK	07/06/23 06:59:03 pm	0.002	98	245.00		
	Replicates	69.0	86.1	129.7	107.5						
CCV					UNK	07/06/23 07:00:46 pm	4.870	32427	1.85		
	Replicates	31708.9	32227.6	32661.0	33112.2						
CCB					UNK	07/06/23 07:02:30 pm	-0.006	49	51.24		
	Replicates	25.8	47.0	73.6	50.4						
HS23061550-01					UNK	07/06/23 07:05:11 pm	0.002	103	119.37		
	Replicates	82.2	107.3	96.1	126.9						
HS23061551-01					UNK	07/06/23 07:06:54 pm	0.004	117	83.41		
	Replicates	128.8	80.1	126.5	131.9						
MBLK-197201					UNK	07/06/23 07:08:37 pm	-0.006	47	51.70		
	Replicates	42.9	21.3	50.1	72.3						
LCS-197201					UNK	07/06/23 07:10:21 pm	5.220	34726	2.32		
	Replicates	33673.3	34528.7	35259.9	35441.1						
HS23060878-02					UNK	07/06/23 07:12:04 pm	-0.012	7	6.51		
	Replicates	11.7	-0.3	9.5	5.9						
HS23060878-02MS					UNK	07/06/23 07:13:47 pm	5.010	33333	1.39		
	Replicates	32779.2	33183.9	33511.7	33857.7						
HS23060878-02MSD					UNK	07/06/23 07:15:31 pm	5.050	33614	1.30		
	Replicates	33067.5	33489.7	33821.3	34078.9						
HS32060880-01					UNK	07/06/23 07:17:14 pm	-0.013	-1	19.94		
	Replicates	-8.1	3.5	-19.9	21.3						
HS32060880-02					UNK	07/06/23 07:18:58 pm	-0.007	40	27.06		
	Replicates	29.7	28.6	49.4	52.8						
HS32060880-03					UNK	07/06/23 07:20:41 pm	-0.005	54	40.05		
	Replicates	50.0	48.4	44.4	73.8						
CCV					UNK	07/06/23 07:22:25 pm	4.980	33144	1.55		
	Replicates	32502.1	33011.8	33356.4	33704.4						
CCB					UNK	07/06/23 07:24:09 pm	-0.002	77	106.27		
	Replicates	68.6	65.2	83.6	88.8						

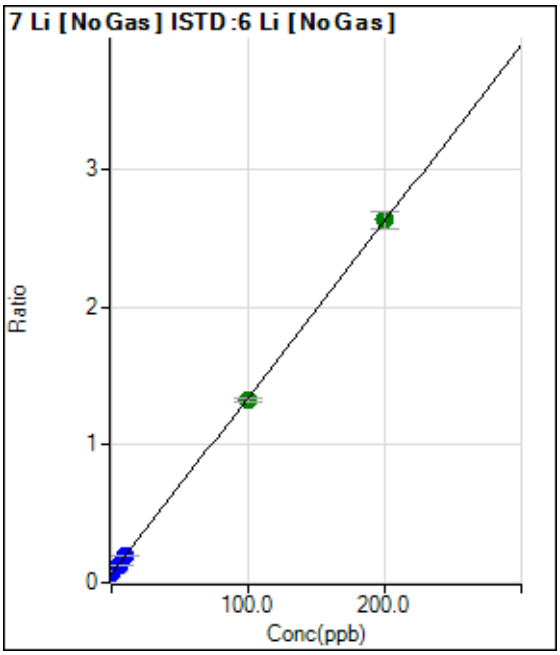
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HS23061880-04					UNK	07/06/23 07:25:52 pm	-0.004	61	121.30		
	Replicates	44.9	108.9	41.5	47.9						
HS23061880-05					UNK	07/06/23 07:27:36 pm	0.000	86	537.36		
	Replicates	94.3	77.4	86.6	85.8						
HS23062043-01					UNK	07/06/23 07:29:19 pm	0.756	5110	0.71		
	Replicates	5063.8	5102.6	5128.8	5146.2						
CCV					UNK	07/06/23 07:31:03 pm	4.890	32554	1.65		
	Replicates	31901.1	32390.6	32768.2	33154.2						
CCB					UNK	07/06/23 07:32:47 pm	-0.007	43	19.68		
	Replicates	31.5	47.9	51.1	39.9						

Calibration for 315_ICV.d

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Analysis File: 070723A.batch.bin
DA Date-Time: 7/7/2023 11:52:35 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	308CALB.d	CAL BLK	7/7/2023 11:31:27 PM
2	309CALS.d	2/10/200	7/7/2023 11:33:35 PM
3	310CALS.d	5/25/500	7/7/2023 11:35:43 PM
4	311CALS.d	10/50/100	7/7/2023 11:37:39 PM
5	312CALS.d	100/500/10K	7/7/2023 11:39:37 PM
6	313CALS.d	200/1000/20K	7/7/2023 11:41:27 PM

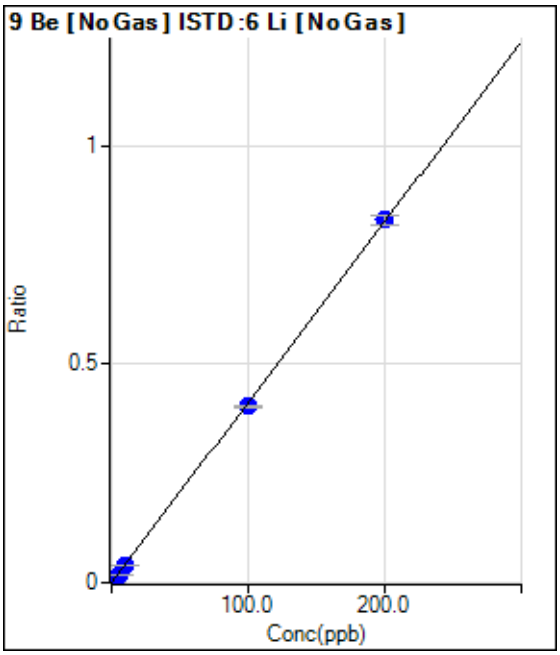
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56678.82	0.0653	P	2.6
2	☐	2.000	2.033	79061.00	0.0914	P	2.7
3	☐	5.000	4.925	112946.25	0.1284	P	2.6
4	☐	10.000	10.133	168350.11	0.1951	P	0.9
5	☐	100.000	98.350	1108667.56	1.3243	A	1.9
6	☐	200.000	200.820	2139713.67	2.6359	A	5.1

y = 0.0128 * x + 0.0653
R = 1.0000
DL = 0.4023
BEC = 5.105

Weight: <None>
Min Conc: <None>

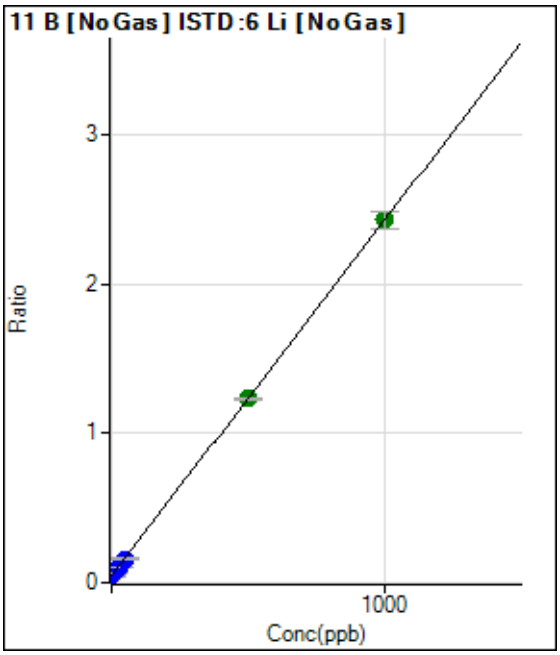


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	97.1
2	☐	2.000	1.990	7126.88	0.0082	P	2.3
3	☐	5.000	4.733	17213.97	0.0196	P	2.1
4	☐	10.000	9.713	34642.63	0.0401	P	1.4
5	☐	100.000	97.716	337940.89	0.4037	P	0.5
6	☐	200.000	201.163	674818.64	0.8310	P	2.9

y = 0.0041 * x + 1.5495E-005
R = 0.9999
DL = 0.01093
BEC = 0.003751

Weight: <None>
Min Conc: <None>

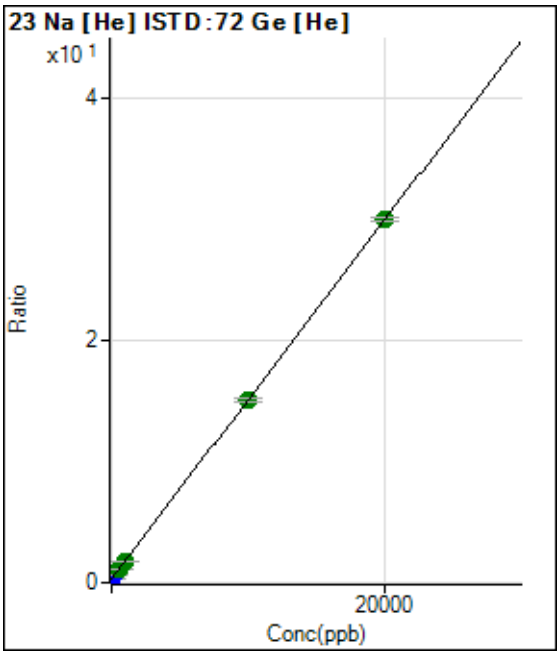
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39856.53	0.0460	P	3.8
2	☐	10.000	9.344	59053.68	0.0682	P	3.2
3	☐	25.000	22.423	87452.05	0.0994	P	4.0
4	☐	50.000	48.305	139065.12	0.1611	P	1.5
5	☐	500.000	497.986	1032385.72	1.2331	A	0.8
6	☐	1000.000	1001.163	1974635.18	2.4326	A	5.1

y = 0.0024 * x + 0.0460
R = 1.0000
DL = 2.172
BEC = 19.28

Weight: <None>
Min Conc: <None>

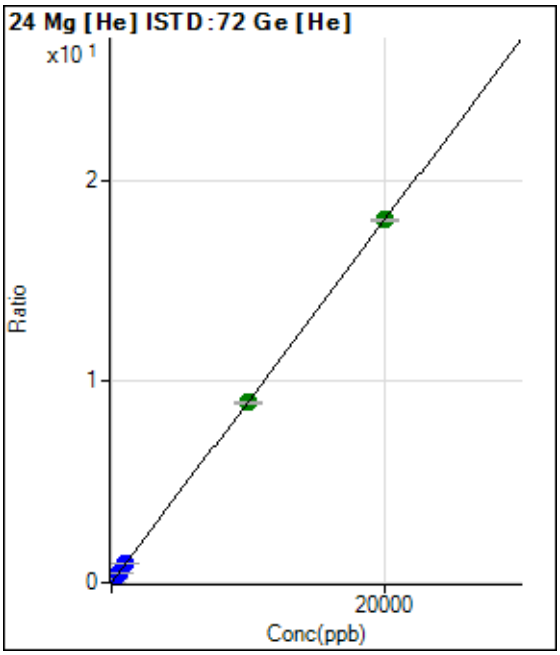


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244697.51	0.3027	P	1.2
2	☐	200.000	207.161	489371.87	0.6096	P	0.1
3	☐	500.000	514.247	853165.54	1.0646	A	0.8
4	☐	1000.000	981.918	1404877.22	1.7574	A	0.6
5	☐	10000.00	9967.165	11905974.82	15.0684	A	1.7
6	☐	20000.00	20016.89	23503362.15	29.9563	A	0.9

y = 0.0015 * x + 0.3027
R = 1.0000
DL = 7.492
BEC = 204.4

Weight: <None>
Min Conc: <None>

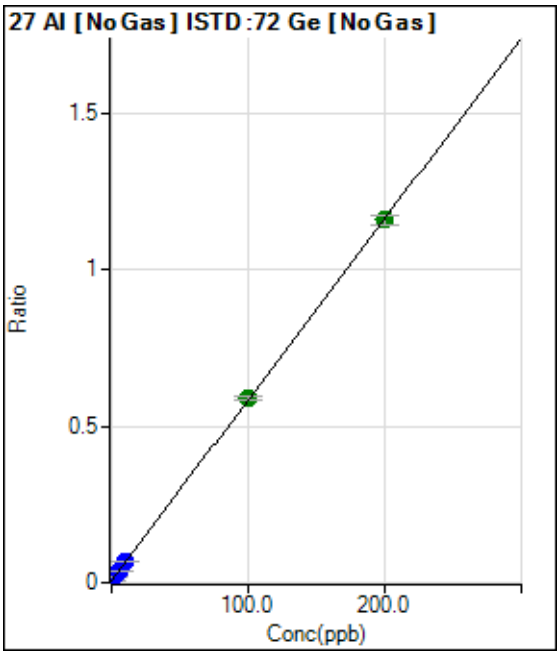
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	746.70	0.0009	P	8.1
2	☐	200.000	213.119	154863.68	0.1929	P	0.8
3	☐	500.000	534.151	386371.55	0.4821	P	1.5
4	☐	1000.000	1052.283	758559.70	0.9489	P	1.2
5	☐	10000.00	9946.054	7081273.23	8.9614	A	1.5
6	☐	20000.00	20023.37	14153564.79	18.0401	A	0.5

y = 9.0091E-004 * x + 9.2385E-004
R = 1.0000
DL = 0.2506
BEC = 1.025

Weight: <None>
Min Conc: <None>

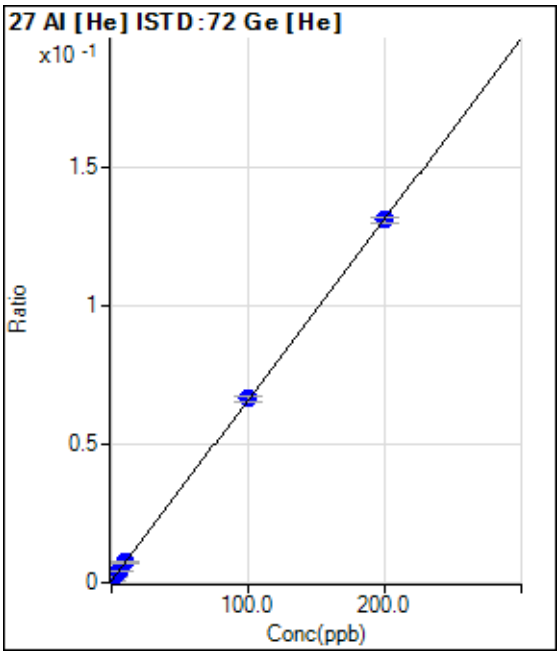


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16983.92	0.0065	P	2.8
2	☐	2.000	1.828	44799.18	0.0171	P	0.6
3	☐	5.000	5.417	97524.04	0.0378	P	0.7
4	☐	10.000	10.466	172439.57	0.0669	P	0.8
5	☐	100.000	100.724	1492936.90	0.5875	A	1.6
6	☐	200.000	199.606	2891043.81	1.1579	A	2.4

y = 0.0058 * x + 0.0065
R = 1.0000
DL = 0.09575
BEC = 1.129

Weight: <None>
Min Conc: <None>

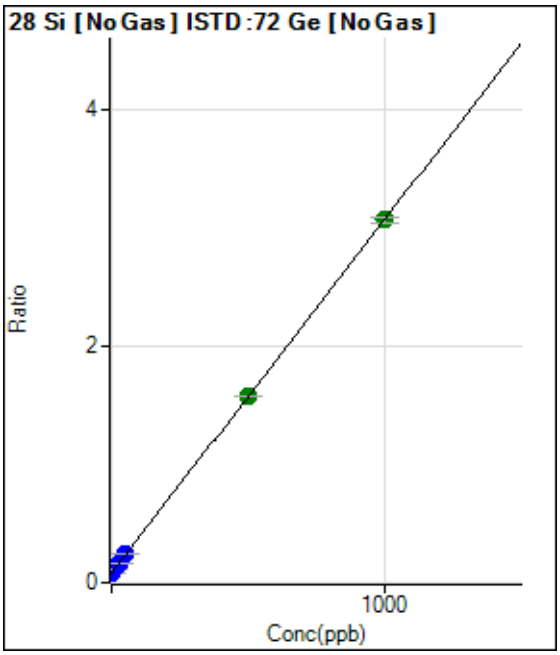
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	573.36	0.0007	P	10.2
2	☐	2.000	1.945	1586.79	0.0020	P	3.1
3	☐	5.000	5.501	3440.49	0.0043	P	7.1
4	☐	10.000	10.213	5888.00	0.0074	P	2.9
5	☐	100.000	100.637	52379.00	0.0663	P	2.5
6	☐	200.000	199.659	102630.55	0.1308	P	1.8

y = 6.5163E-004 * x + 7.0933E-004
R = 1.0000
DL = 0.3317
BEC = 1.089

Weight: <None>
Min Conc: <None>

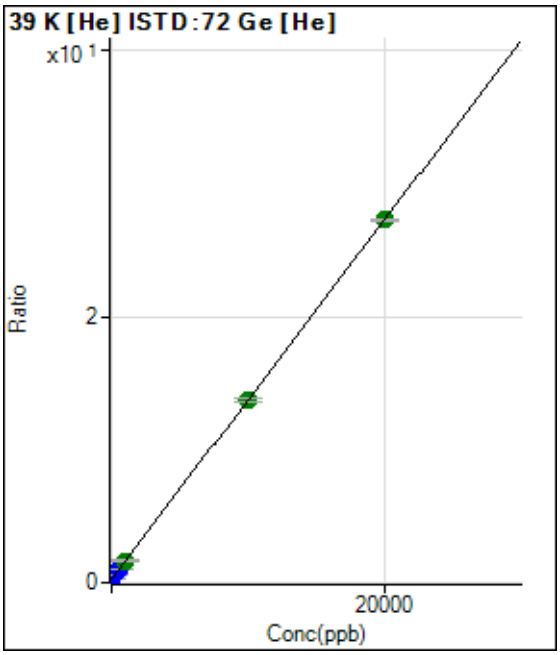


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	212774.65	0.0816	P	1.6
2	☐	10.000	9.549	289084.52	0.1101	P	1.1
3	☐	25.000	25.915	410562.71	0.1590	P	0.8
4	☐	50.000	52.553	614865.90	0.2385	P	0.8
5	☐	500.000	500.323	4002926.09	1.5753	A	0.2
6	☐	1000.000	999.693	7656643.22	3.0663	A	1.7

y = 0.0030 * x + 0.0816
R = 1.0000
DL = 1.324
BEC = 27.33

Weight: <None>
Min Conc: <None>

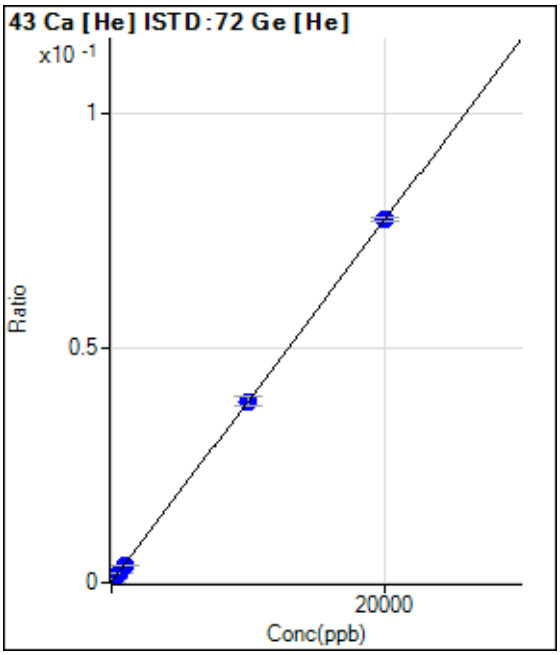
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206000.90	0.2549	P	1.1
2	☐	200.000	207.058	429244.49	0.5347	P	0.1
3	☐	500.000	520.155	767566.68	0.9579	P	1.4
4	☐	1000.000	1037.918	1325387.30	1.6578	A	2.9
5	☐	10000.00	9996.451	10877302.76	13.7664	A	1.9
6	☐	20000.00	19999.30	21408687.18	27.2866	A	0.6

y = 0.0014 * x + 0.2549
R = 1.0000
DL = 6.114
BEC = 188.6

Weight: <None>
Min Conc: <None>

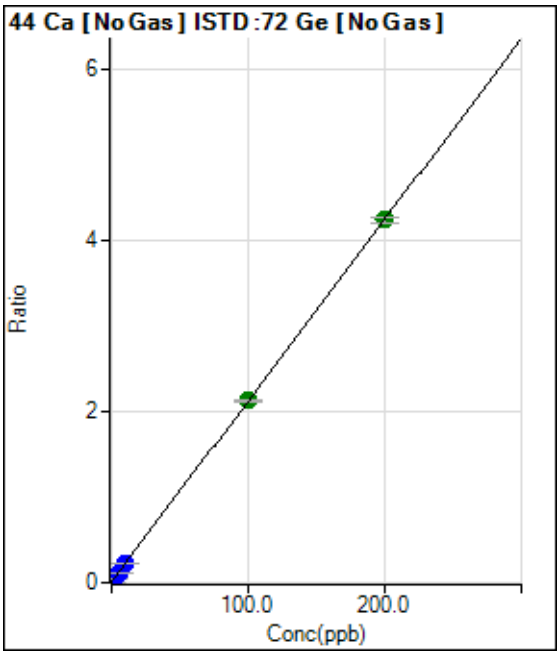


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0001	P	36.4
2	☐	200.000	170.231	590.02	0.0007	P	10.5
3	☐	500.000	500.720	1610.12	0.0020	P	3.5
4	☐	1000.000	937.854	2953.70	0.0037	P	4.2
5	☐	10000.00	9982.829	30474.25	0.0386	P	5.3
6	☐	20000.00	20011.97	60623.58	0.0773	P	1.0

y = 3.8573E-006 * x + 7.8353E-005
R = 1.0000
DL = 22.21
BEC = 20.31

Weight: <None>
Min Conc: <None>

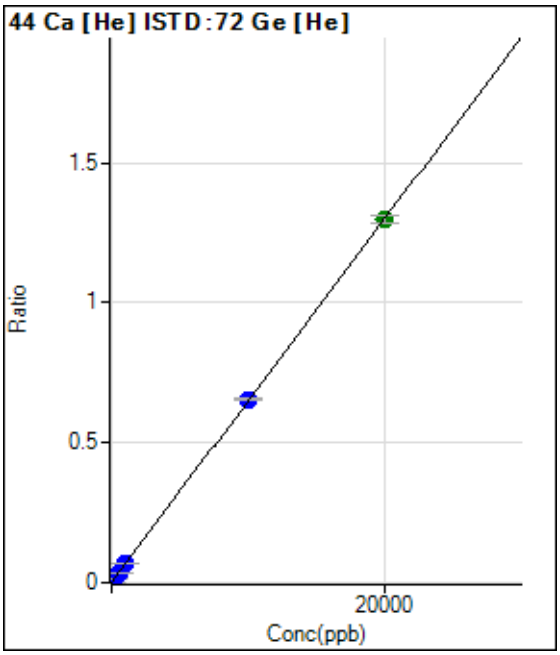
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26812.99	0.0103	P	1.6
2	☐	2.000	2.058	141360.70	0.0538	P	1.8
3	☐	5.000	5.250	313560.08	0.1214	P	1.3
4	☐	10.000	10.523	600670.13	0.2330	P	1.5
5	☐	100.000	100.051	5406885.75	2.1279	A	1.2
6	☐	200.000	199.942	10592525.26	4.2421	A	1.8

y = 0.0212 * x + 0.0103
R = 1.0000
DL = 0.02335
BEC = 0.4857

Weight: <None>
Min Conc: <None>

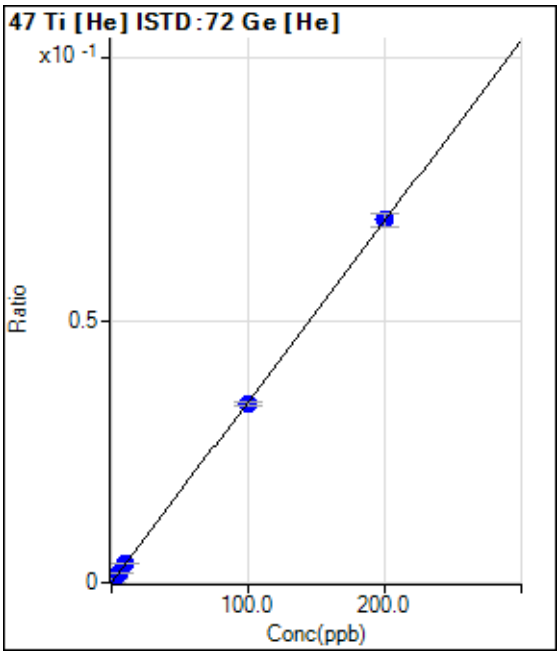


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	826.71	0.0010	P	14.2
2	☐	200.000	205.051	11508.37	0.0143	P	2.8
3	☐	500.000	513.164	27527.90	0.0343	P	3.9
4	☐	1000.000	1023.008	53919.08	0.0674	P	1.8
5	☐	10000.00	10090.29	518464.16	0.6562	P	1.5
6	☐	20000.00	19953.32	1017243.66	1.2965	A	2.2

y = 6.4928E-005 * x + 0.0010
R = 1.0000
DL = 6.7
BEC = 15.75

Weight: <None>
Min Conc: <None>

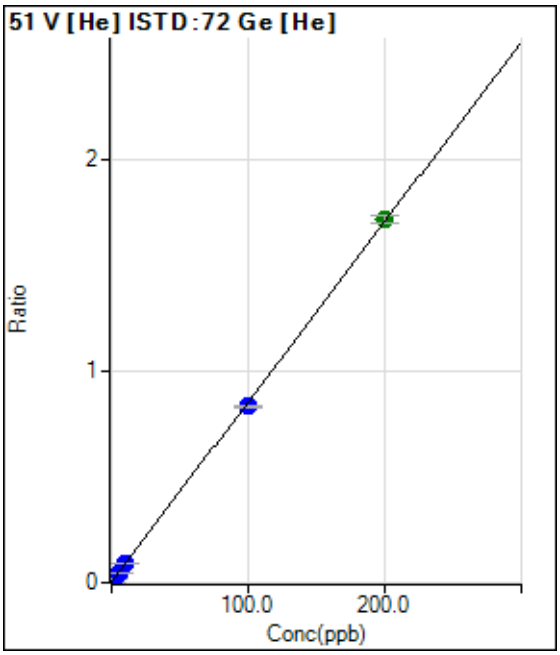
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	125.0
2	☐	2.000	1.892	540.02	0.0007	P	4.6
3	☐	5.000	4.900	1370.09	0.0017	P	4.4
4	☐	10.000	10.447	2893.69	0.0036	P	4.6
5	☐	100.000	98.604	26866.59	0.0340	P	2.5
6	☐	200.000	200.679	54264.13	0.0692	P	3.5

y = 3.4457E-004 * x + 2.0633E-005
R = 1.0000
DL = 0.2245
BEC = 0.05988

Weight: <None>
Min Conc: <None>

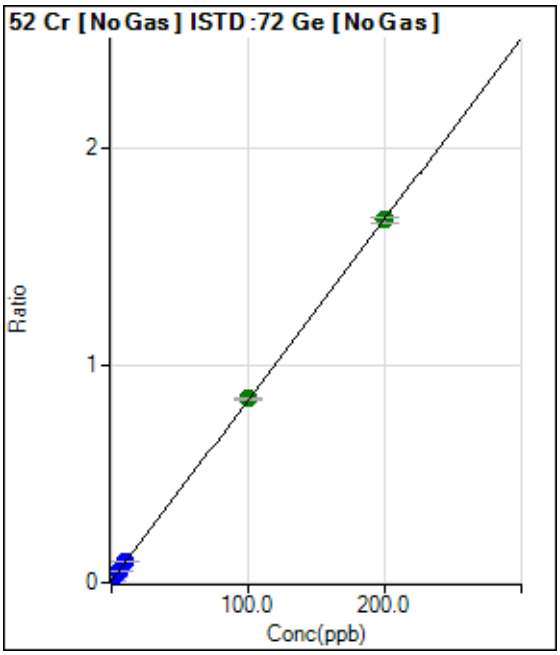


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3130.37	0.0039	P	2.3
2	☐	2.000	1.954	16446.54	0.0205	P	1.4
3	☐	5.000	4.945	36802.60	0.0459	P	1.9
4	☐	10.000	9.760	69456.27	0.0869	P	1.1
5	☐	100.000	97.661	659459.11	0.8345	P	1.0
6	☐	200.000	201.183	1345460.99	1.7150	A	2.1

y = 0.0085 * x + 0.0039
R = 0.9999
DL = 0.03121
BEC = 0.4554

Weight: <None>
Min Conc: <None>

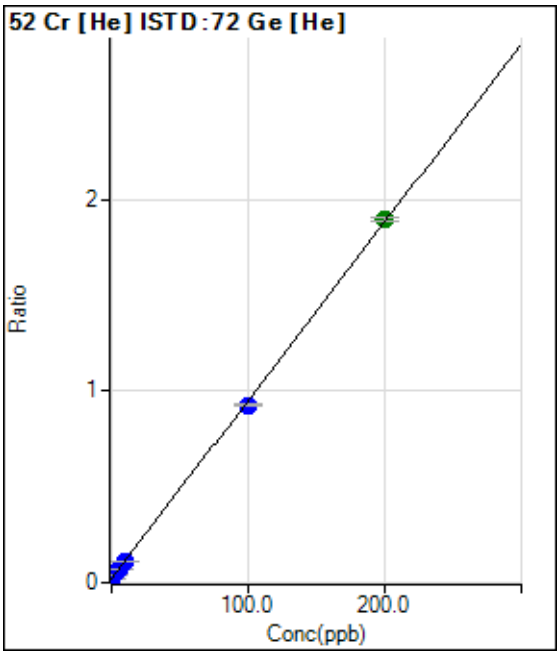
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22515.42	0.0086	P	0.8
2	☐	2.000	2.068	67925.47	0.0259	P	2.0
3	☐	5.000	5.202	134280.38	0.0520	P	1.0
4	☐	10.000	10.386	245435.89	0.0952	P	0.2
5	☐	100.000	100.626	2153070.07	0.8474	A	1.6
6	☐	200.000	199.662	4177343.58	1.6728	A	1.3

y = 0.0083 * x + 0.0086
R = 1.0000
DL = 0.02363
BEC = 1.036

Weight: <None>
Min Conc: <None>

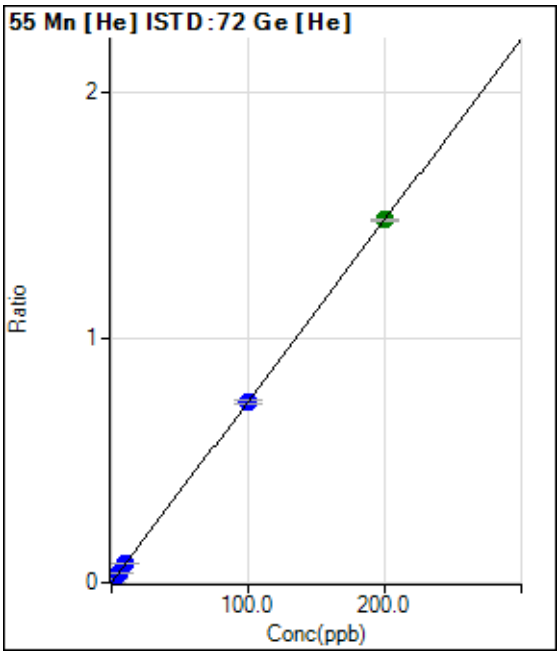


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17241.19	0.0213	P	4.1
2	☐	2.000	1.991	31974.35	0.0398	P	0.8
3	☐	5.000	5.120	55228.42	0.0689	P	0.4
4	☐	10.000	9.955	91001.34	0.1138	P	1.7
5	☐	100.000	97.336	731711.94	0.9259	P	0.9
6	☐	200.000	201.332	1484684.93	1.8924	A	1.0

y = 0.0093 * x + 0.0213
R = 0.9999
DL = 0.2805
BEC = 2.295

Weight: <None>
Min Conc: <None>

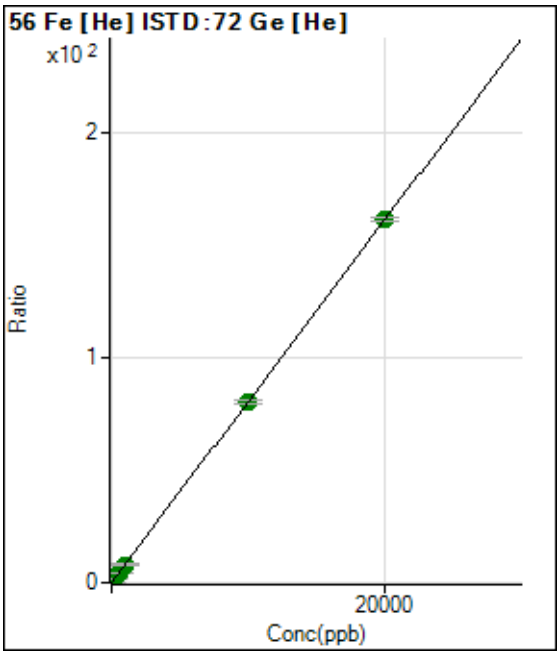
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	506.69	0.0006	P	32.2
2	☐	2.000	2.068	12779.54	0.0159	P	5.2
3	☐	5.000	5.066	30524.47	0.0381	P	1.3
4	☐	10.000	10.202	60812.07	0.0761	P	0.6
5	☐	100.000	99.679	582999.90	0.7377	P	1.8
6	☐	200.000	200.148	1161729.31	1.4807	A	0.8

y = 0.0074 * x + 6.2691E-004
R = 1.0000
DL = 0.08184
BEC = 0.08478

Weight: <None>
Min Conc: <None>

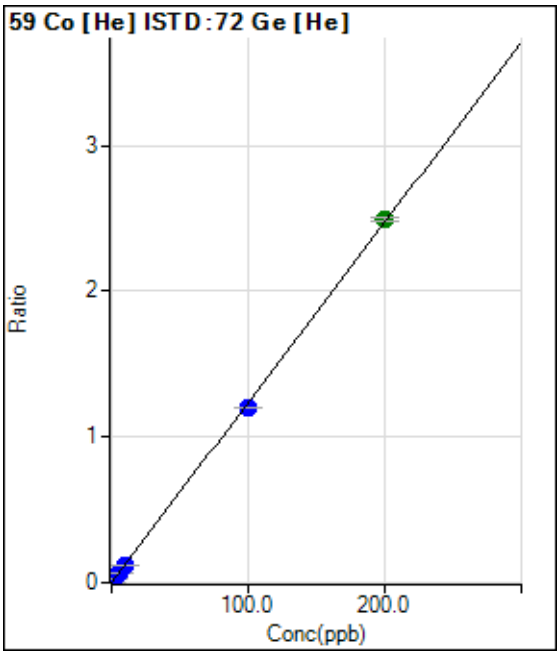


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19761.17	0.0244	P	2.0
2	☐	200.000	205.990	1351641.02	1.6838	A	2.5
3	☐	500.000	505.388	3281905.16	4.0955	A	0.8
4	☐	1000.000	995.815	6432466.78	8.0460	A	2.0
5	☐	10000.00	9949.562	63360370.72	80.1709	A	1.8
6	☐	20000.00	20025.23	126573784.7	161.333	A	1.2

y = 0.0081 * x + 0.0244
R = 1.0000
DL = 0.1831
BEC = 3.035

Weight: <None>
Min Conc: <None>

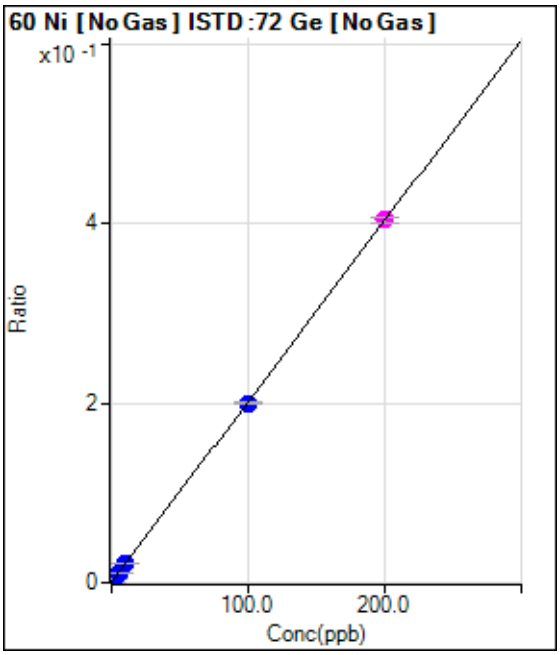
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0001	P	39.7
2	☐	2.000	1.944	19340.81	0.0241	P	2.5
3	☐	5.000	4.967	49229.36	0.0614	P	1.7
4	☐	10.000	9.863	97460.90	0.1219	P	1.0
5	☐	100.000	97.124	948171.42	1.1999	P	0.6
6	☐	200.000	201.446	1952403.93	2.4886	A	1.1

y = 0.0124 * x + 7.8345E-005
R = 0.9999
DL = 0.007554
BEC = 0.006342

Weight: <None>
Min Conc: <None>

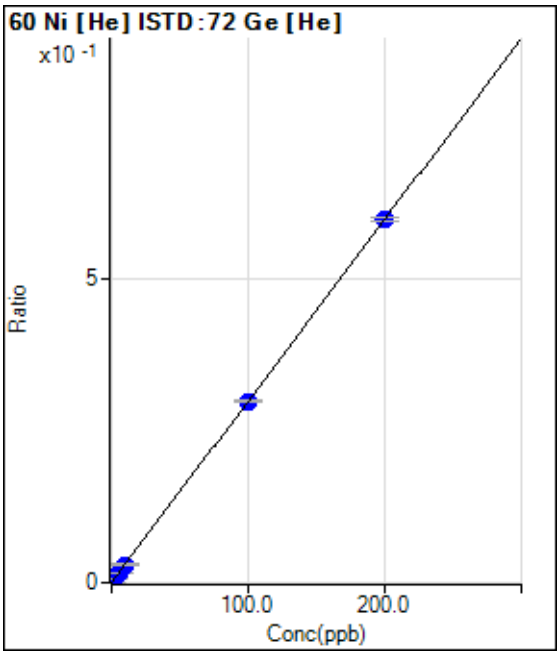


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1350.09	0.0005	P	11.6
2	☐	2.000	1.997	11902.08	0.0045	P	1.7
3	☐	5.000	5.078	27701.92	0.0107	P	1.7
4	☐	10.000	10.108	53716.11	0.0208	P	1.7
5	☐	100.000	98.917	506521.97	0.1993	P	1.2
6	☐	200.000	200.534	1007904.41	0.4036	M	1.7

y = 0.0020 * x + 5.1809E-004
R = 1.0000
DL = 0.08992
BEC = 0.2578

Weight: <None>
Min Conc: <None>

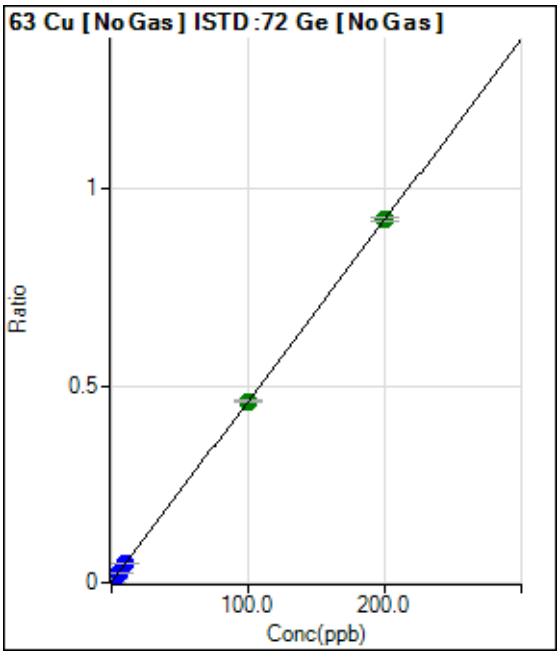
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	316.68	0.0004	P	26.8
2	☐	2.000	2.111	5384.50	0.0067	P	2.8
3	☐	5.000	4.901	12068.89	0.0151	P	3.8
4	☐	10.000	9.920	24044.80	0.0301	P	3.3
5	☐	100.000	100.075	236963.56	0.2999	P	0.7
6	☐	200.000	199.968	469777.15	0.5988	P	0.9

y = 0.0030 * x + 3.9177E-004
R = 1.0000
DL = 0.1053
BEC = 0.1309

Weight: <None>
Min Conc: <None>

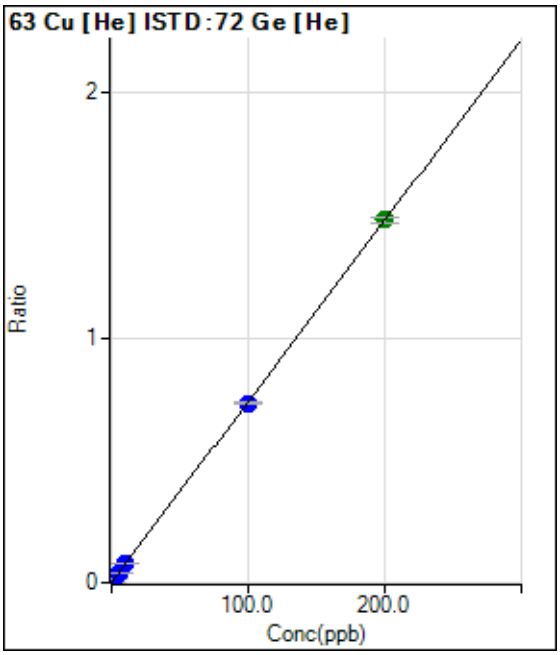


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3383.83	0.0013	P	1.7
2	☐	2.000	2.062	28293.22	0.0108	P	3.4
3	☐	5.000	5.091	63800.12	0.0247	P	0.2
4	☐	10.000	10.213	124379.58	0.0482	P	1.5
5	☐	100.000	99.710	1167937.64	0.4597	A	1.1
6	☐	200.000	200.132	2300609.60	0.9213	A	1.2

y = 0.0046 * x + 0.0013
R = 1.0000
DL = 0.01429
BEC = 0.2822

Weight: <None>
Min Conc: <None>

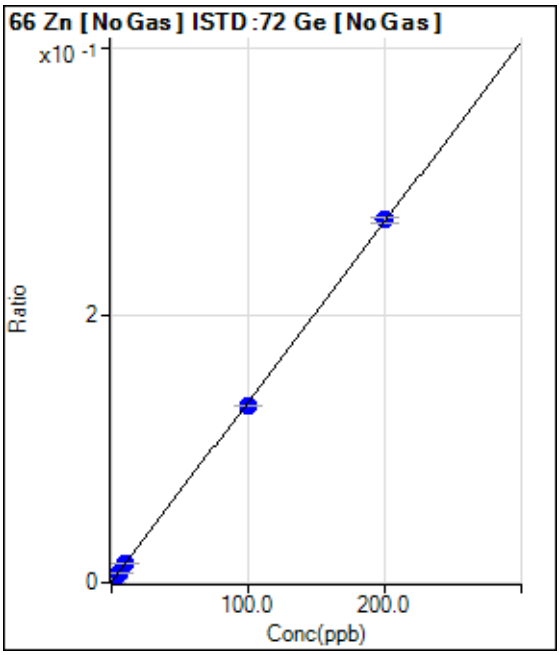
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	843.38	0.0010	P	6.8
2	☐	2.000	1.967	12499.27	0.0156	P	4.3
3	☐	5.000	5.009	30477.96	0.0380	P	2.4
4	☐	10.000	10.115	60554.86	0.0758	P	1.3
5	☐	100.000	99.173	579621.42	0.7336	P	1.5
6	☐	200.000	200.408	1162183.11	1.4813	A	1.3

y = 0.0074 * x + 0.0010
R = 1.0000
DL = 0.02871
BEC = 0.1413

Weight: <None>
Min Conc: <None>

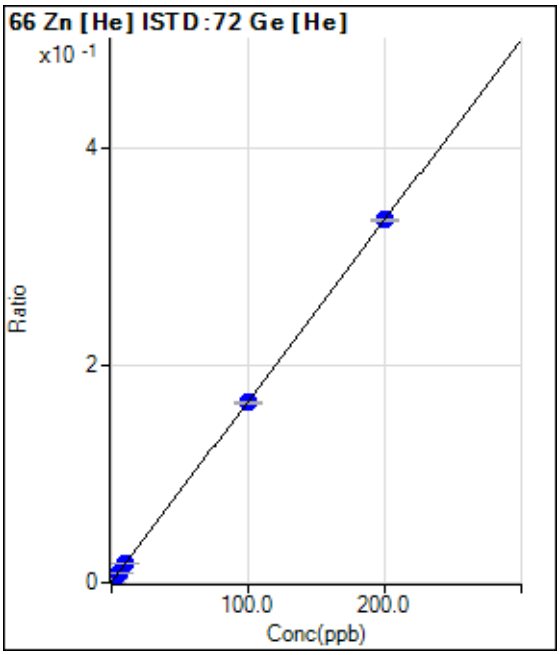


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1033.39	0.0004	P	7.2
2	☐	2.000	1.930	7885.77	0.0030	P	3.8
3	☐	5.000	5.091	18776.61	0.0073	P	2.4
4	☐	10.000	10.114	36218.68	0.0141	P	2.7
5	☐	100.000	97.892	336822.47	0.1326	P	0.6
6	☐	200.000	201.047	678761.16	0.2718	P	1.9

y = 0.0014 * x + 3.9611E-004
R = 0.9999
DL = 0.06366
BEC = 0.2934

Weight: <None>
Min Conc: <None>

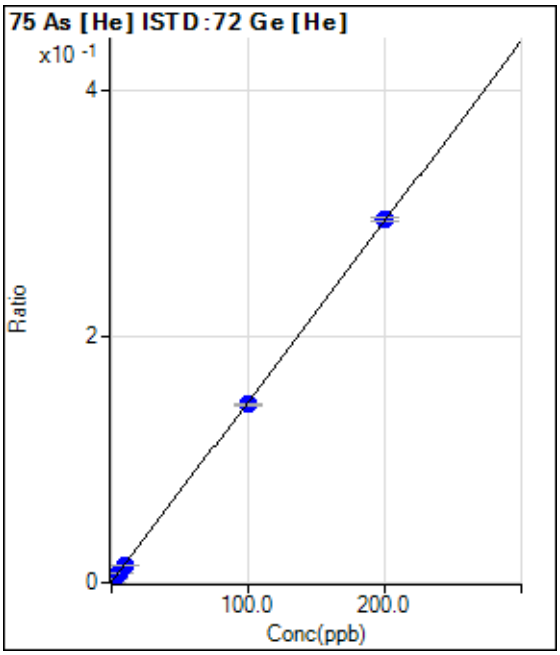
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	430.02	0.0005	P	13.0
2	☐	2.000	2.081	3210.44	0.0040	P	4.1
3	☐	5.000	5.153	7308.75	0.0091	P	1.0
4	☐	10.000	10.035	13790.57	0.0173	P	2.6
5	☐	100.000	99.454	131364.89	0.1662	P	0.8
6	☐	200.000	200.267	262209.50	0.3342	P	0.8

y = 0.0017 * x + 5.3204E-004
R = 1.0000
DL = 0.1246
BEC = 0.3193

Weight: <None>
Min Conc: <None>

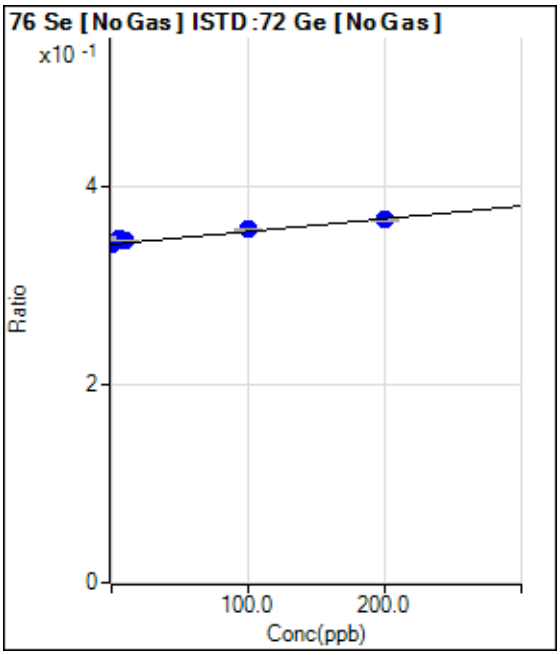


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	331.12	0.0004	P	9.1
2	☐	2.000	2.015	2701.40	0.0034	P	1.6
3	☐	5.000	4.969	6167.00	0.0077	P	4.2
4	☐	10.000	9.620	11608.38	0.0145	P	0.4
5	☐	100.000	98.573	114586.71	0.1450	P	0.7
6	☐	200.000	200.733	231334.69	0.2949	P	0.9

y = 0.0015 * x + 4.0964E-004
R = 1.0000
DL = 0.07589
BEC = 0.2793

Weight: <None>
Min Conc: <None>

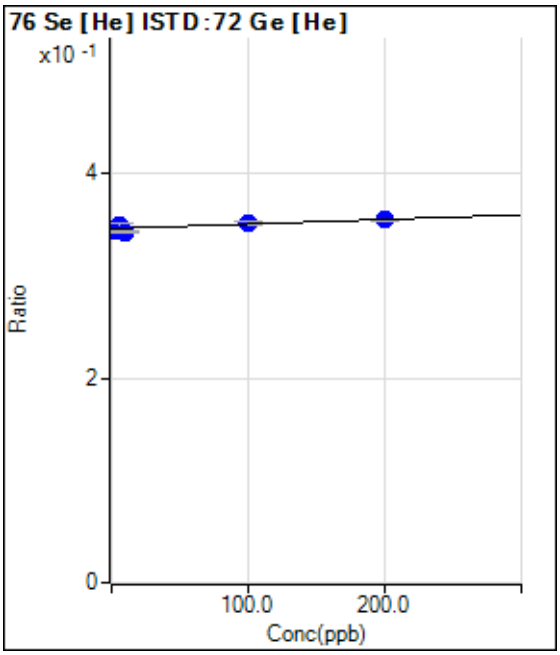
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	892034.26	0.3421	P	2.8
2	☐	2.000	13.717	902928.35	0.3438	P	0.6
3	☐	5.000	50.548	900357.85	0.3486	P	0.5
4	☐	10.000	26.961	890873.84	0.3455	P	0.1
5	☐	100.000	114.610	906780.43	0.3569	P	0.7
6	☐	200.000	190.591	915725.30	0.3667	P	0.8

y = 1.2902E-004 * x + 0.3421
R = 0.9769
DL = 225.9
BEC = 2651

Weight: <None>
Min Conc: <None>

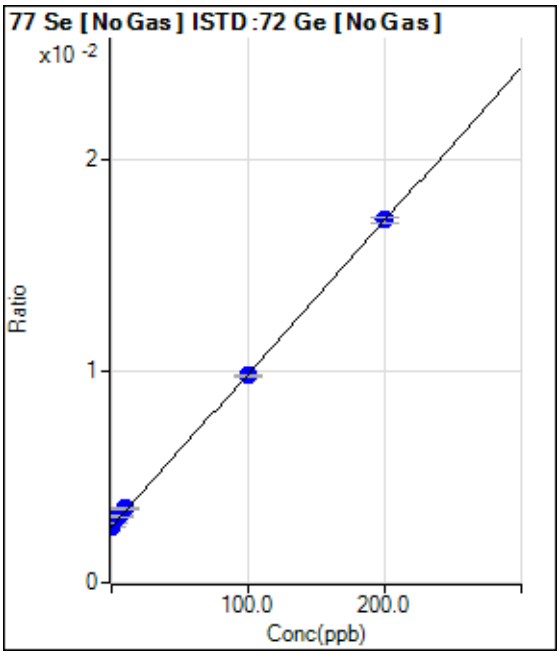


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	279617.80	0.3459	P	0.4
2	☐	2.000	-43.624	276117.55	0.3440	P	1.0
3	☐	5.000	60.936	279427.92	0.3487	P	1.2
4	☐	10.000	-74.599	273852.90	0.3426	P	0.9
5	☐	100.000	130.283	278032.89	0.3518	P	0.9
6	☐	200.000	188.146	278106.48	0.3545	P	0.8

y = 4.5277E-005 * x + 0.3459
R = 0.8705
DL = 91.71
BEC = 7641

Weight: <None>
Min Conc: <None>

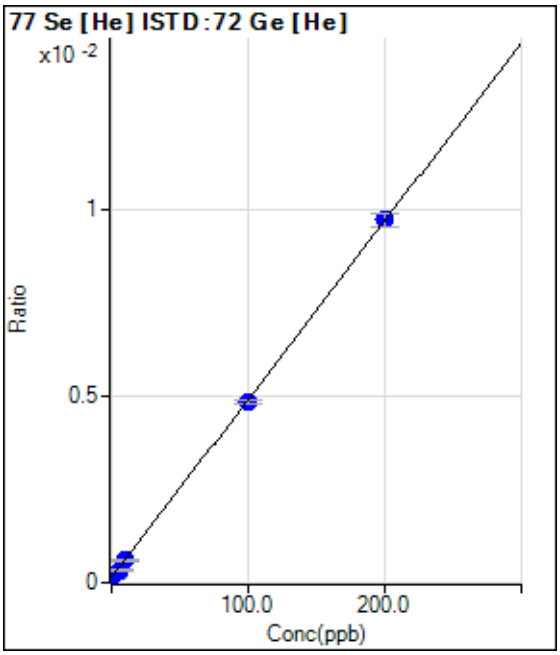
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6885.20	0.0026	P	1.7
2	☐	2.000	4.348	7759.05	0.0030	P	7.1
3	☐	5.000	6.874	8105.91	0.0031	P	4.6
4	☐	10.000	12.064	9059.85	0.0035	P	1.1
5	☐	100.000	98.902	24913.41	0.0098	P	1.1
6	☐	200.000	200.375	42835.01	0.0172	P	1.9

y = 7.2440E-005 * x + 0.0026
R = 0.9999
DL = 1.838
BEC = 36.44

Weight: <None>
Min Conc: <None>

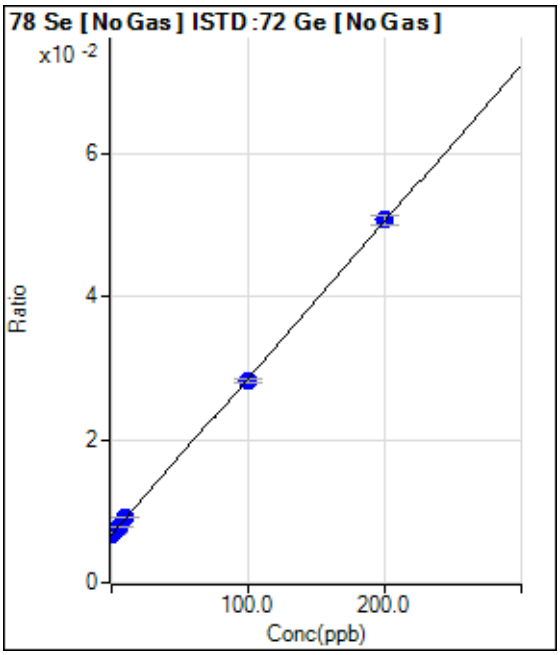


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0001	P	67.9
2	☐	2.000	1.326	156.67	0.0002	P	26.0
3	☐	5.000	4.118	263.34	0.0003	P	6.9
4	☐	10.000	9.656	473.35	0.0006	P	6.8
5	☐	100.000	98.590	3817.28	0.0048	P	3.1
6	☐	200.000	200.751	7612.26	0.0097	P	3.5

y = 4.7670E-005 * x + 1.3203E-004
R = 1.0000
DL = 5.643
BEC = 2.77

Weight: <None>
Min Conc: <None>

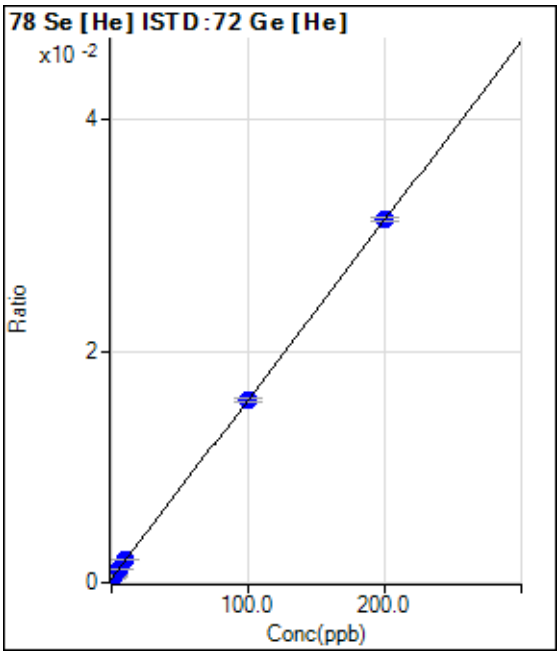
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17558.40	0.0067	P	0.4
2	☐	2.000	1.256	18396.06	0.0070	P	1.8
3	☐	5.000	4.752	20068.51	0.0078	P	1.2
4	☐	10.000	10.499	23270.42	0.0090	P	0.6
5	☐	100.000	97.924	71476.16	0.0281	P	2.0
6	☐	200.000	201.027	126517.42	0.0507	P	2.8

y = 2.1852E-004 * x + 0.0067
R = 0.9999
DL = 0.4033
BEC = 30.81

Weight: <None>
Min Conc: <None>

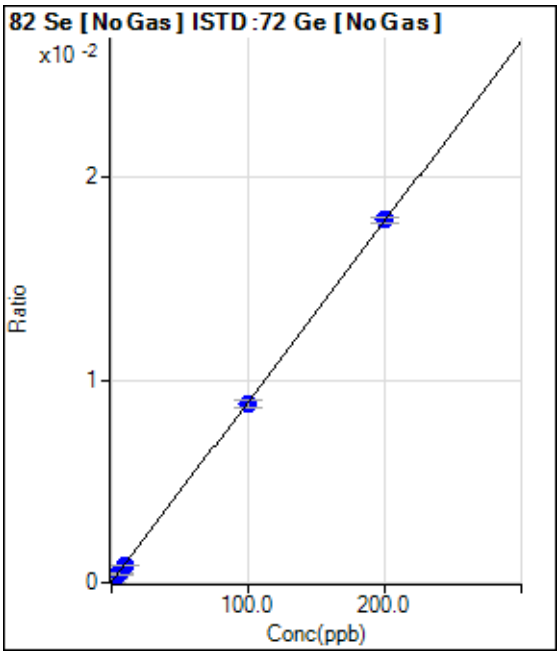


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	264.00	0.0003	P	6.0
2	☐	2.000	1.576	458.01	0.0006	P	5.4
3	☐	5.000	5.247	912.70	0.0011	P	2.9
4	☐	10.000	10.620	1575.43	0.0020	P	3.8
5	☐	100.000	99.410	12417.73	0.0157	P	2.1
6	☐	200.000	200.262	24576.39	0.0313	P	1.2

y = 1.5479E-004 * x + 3.2663E-004
R = 1.0000
DL = 0.3786
BEC = 2.11

Weight: <None>
Min Conc: <None>

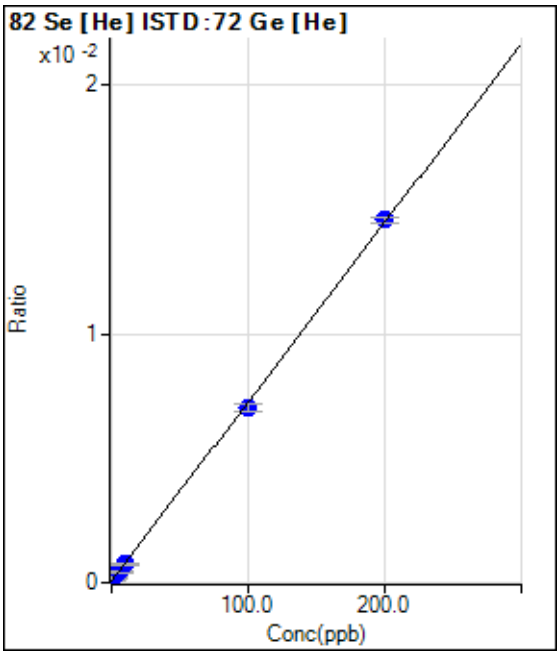
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.72	0.0000	P	37.9
2	☐	2.000	1.717	477.90	0.0002	P	16.6
3	☐	5.000	4.593	1131.44	0.0004	P	5.2
4	☐	10.000	9.240	2197.90	0.0009	P	4.9
5	☐	100.000	98.601	22404.18	0.0088	P	3.8
6	☐	200.000	200.750	44757.15	0.0179	P	1.5

y = 8.9143E-005 * x + 2.8581E-005
R = 1.0000
DL = 0.3643
BEC = 0.3206

Weight: <None>
Min Conc: <None>

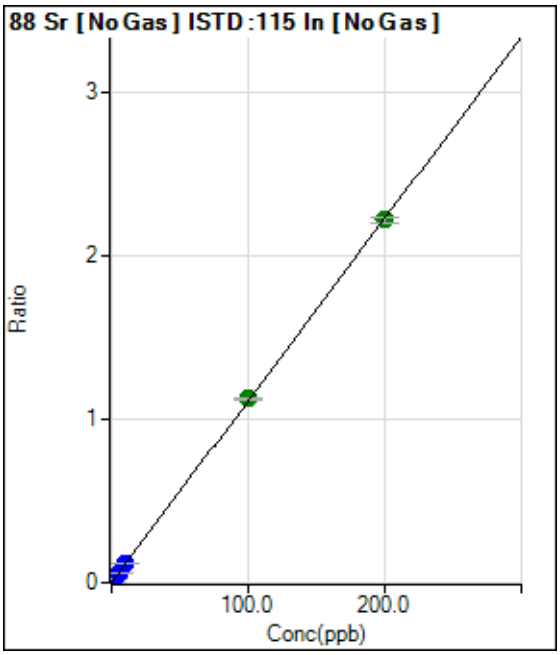


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	21.7
2	☐	2.000	1.966	166.67	0.0002	P	22.4
3	☐	5.000	5.029	343.34	0.0004	P	7.5
4	☐	10.000	9.344	590.02	0.0007	P	12.9
5	☐	100.000	96.752	5557.92	0.0070	P	5.4
6	☐	200.000	201.656	11441.73	0.0146	P	1.4

y = 7.1994E-005 * x + 6.5991E-005
R = 0.9998
DL = 0.597
BEC = 0.9166

Weight: <None>
Min Conc: <None>

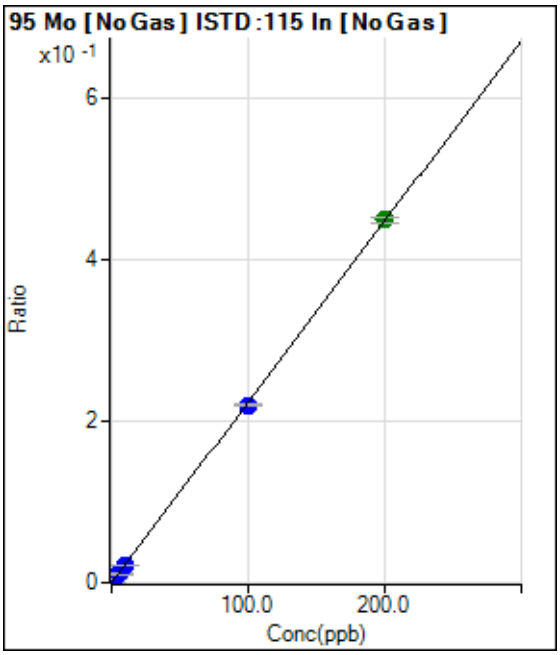
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1516.78	0.0005	P	9.8
2	☐	2.000	2.078	65804.98	0.0236	P	2.7
3	☐	5.000	5.099	160984.74	0.0573	P	4.6
4	☐	10.000	10.487	323246.44	0.1172	P	2.3
5	☐	100.000	101.050	3077770.16	1.1244	A	1.6
6	☐	200.000	199.448	5970422.62	2.2188	A	1.9

y = 0.0111 * x + 5.4232E-004
R = 1.0000
DL = 0.01429
BEC = 0.04876

Weight: <None>
Min Conc: <None>

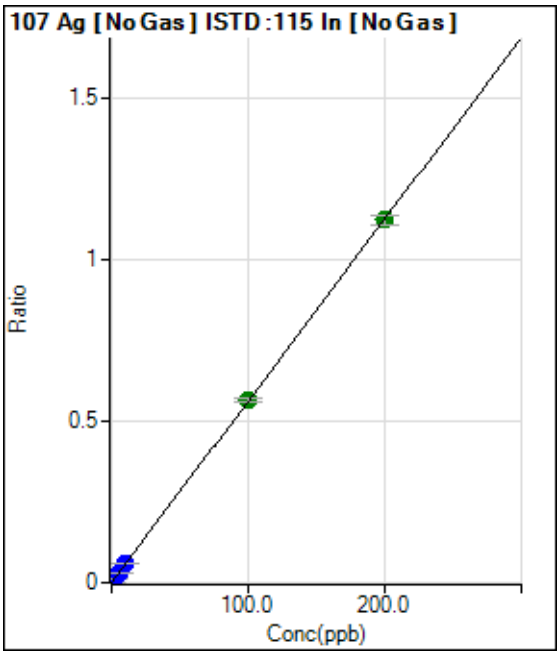


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0001	P	9.2
2	☐	2.000	1.941	12395.99	0.0045	P	3.4
3	☐	5.000	4.815	30582.11	0.0109	P	5.4
4	☐	10.000	9.828	60895.82	0.0221	P	3.3
5	☐	100.000	98.298	601568.53	0.2198	P	1.4
6	☐	200.000	200.865	1208005.95	0.4490	A	1.8

y = 0.0022 * x + 1.1911E-004
R = 1.0000
DL = 0.01478
BEC = 0.05331

Weight: <None>
Min Conc: <None>

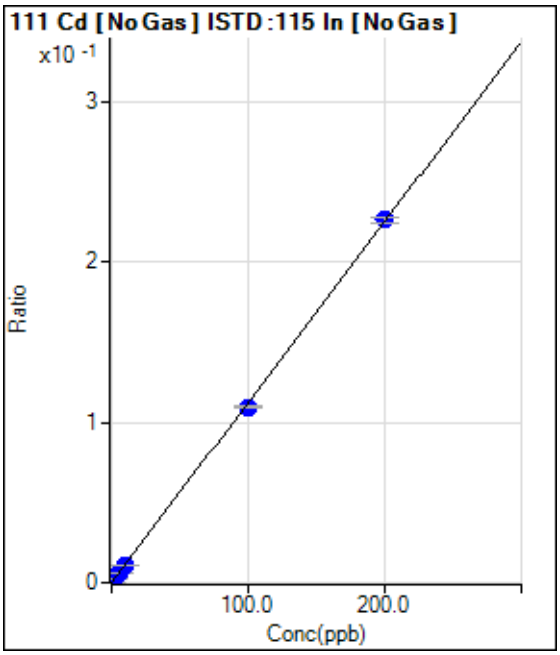
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	41.3
2	☐	2.000	2.003	31421.15	0.0113	P	3.8
3	☐	5.000	4.997	79143.06	0.0281	P	3.6
4	☐	10.000	10.227	158790.02	0.0576	P	2.0
5	☐	100.000	100.451	1546948.21	0.5651	A	1.4
6	☐	200.000	199.763	3023730.37	1.1239	A	2.4

y = 0.0056 * x + 2.3741E-005
R = 1.0000
DL = 0.005231
BEC = 0.00422

Weight: <None>
Min Conc: <None>

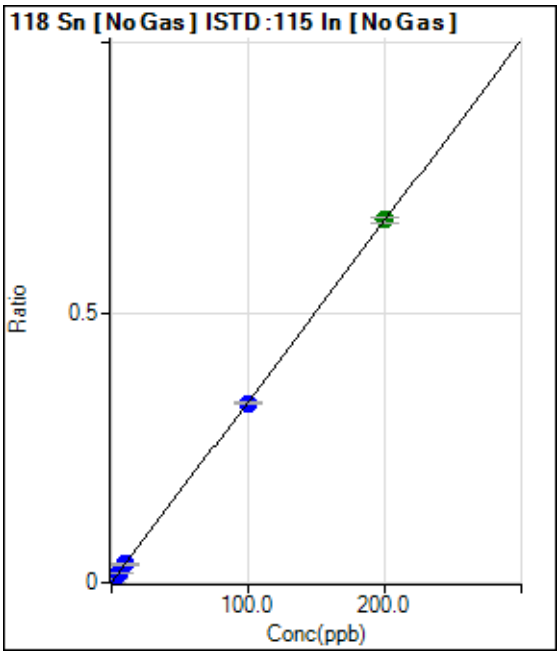


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-3.82	0.0000	P	-157.6
2	☐	2.000	1.959	6115.33	0.0022	P	5.0
3	☐	5.000	4.971	15699.28	0.0056	P	4.4
4	☐	10.000	9.948	30827.07	0.0112	P	1.6
5	☐	100.000	97.523	299757.40	0.1095	P	1.0
6	☐	200.000	201.242	608024.64	0.2260	P	1.8

y = 0.0011 * x - 1.3980E-006
R = 0.9999
DL = 0.005886
BEC = -0.001245

Weight: <None>
Min Conc: <None>

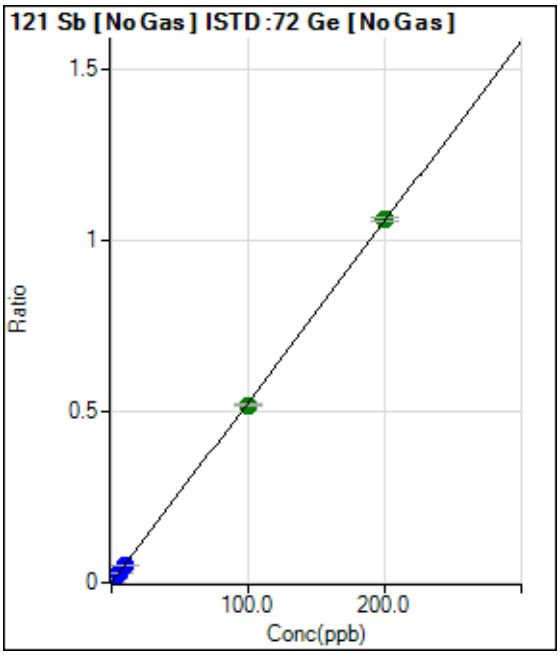
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1473.45	0.0005	P	13.0
2	☐	2.000	1.945	19618.35	0.0070	P	1.1
3	☐	5.000	4.830	47024.56	0.0167	P	3.1
4	☐	10.000	9.973	93645.98	0.0339	P	2.0
5	☐	100.000	98.979	909262.38	0.3322	P	0.9
6	☐	200.000	200.517	1809468.62	0.6724	A	1.5

y = 0.0034 * x + 5.2827E-004
R = 1.0000
DL = 0.06169
BEC = 0.1577

Weight: <None>
Min Conc: <None>

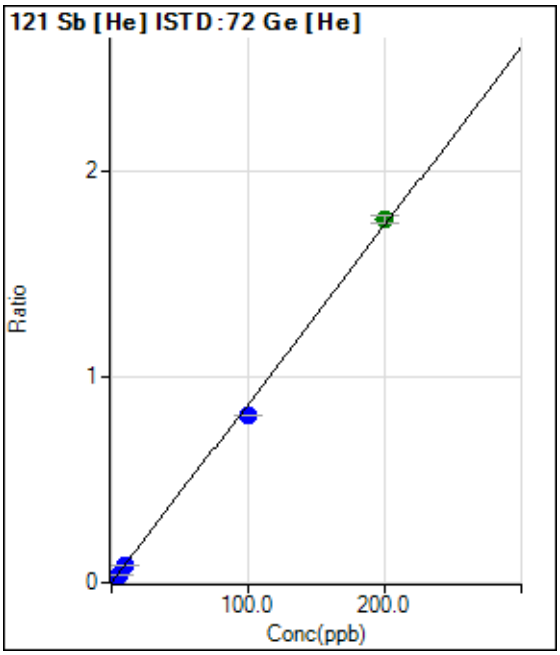


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	226.67	0.0001	P	34.3
2	☐	2.000	1.886	26326.80	0.0100	P	5.1
3	☐	5.000	4.858	66354.67	0.0257	P	0.9
4	☐	10.000	9.854	134128.97	0.0520	P	0.1
5	☐	100.000	98.233	1315758.16	0.5178	A	1.4
6	☐	200.000	200.895	2644361.63	1.0589	A	1.1

y = 0.0053 * x + 8.6679E-005
R = 0.9999
DL = 0.01694
BEC = 0.01645

Weight: <None>
Min Conc: <None>

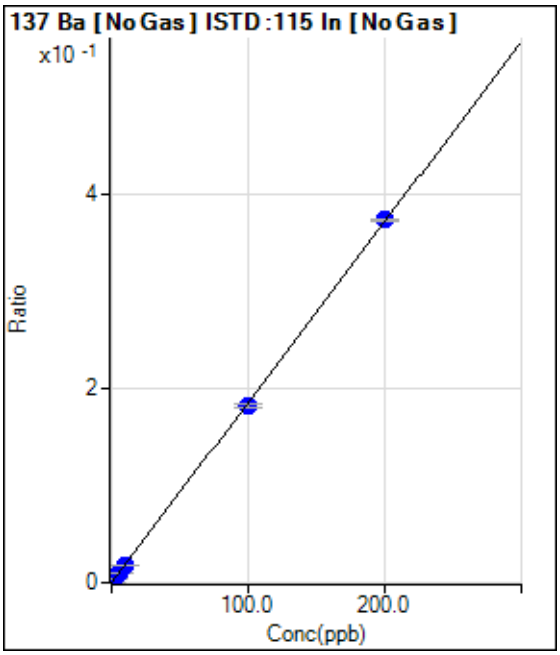
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0001	P	20.0
2	☐	2.000	1.851	12996.66	0.0162	P	2.1
3	☐	5.000	4.665	32547.47	0.0406	P	0.5
4	☐	10.000	9.347	64947.28	0.0812	P	1.4
5	☐	100.000	93.746	643023.66	0.8138	P	1.0
6	☐	200.000	203.170	1383458.89	1.7634	A	2.1

y = 0.0087 * x + 1.2372E-004
R = 0.9993
DL = 0.008562
BEC = 0.01426

Weight: <None>
Min Conc: <None>

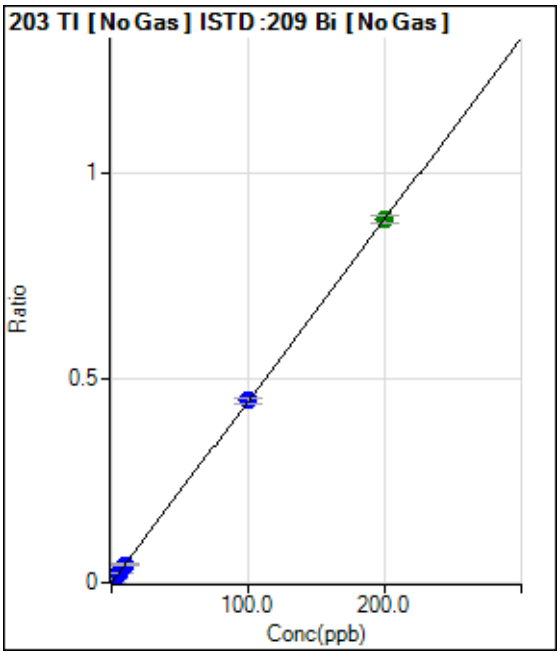


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	393.35	0.0001	P	21.1
2	☐	2.000	1.978	10604.54	0.0038	P	0.5
3	☐	5.000	4.961	26280.23	0.0093	P	1.6
4	☐	10.000	9.975	51412.12	0.0186	P	0.3
5	☐	100.000	97.883	496959.16	0.1816	P	1.5
6	☐	200.000	201.061	1003250.77	0.3728	P	0.6

y = 0.0019 * x + 1.4074E-004
R = 0.9999
DL = 0.04796
BEC = 0.07593

Weight: <None>
Min Conc: <None>

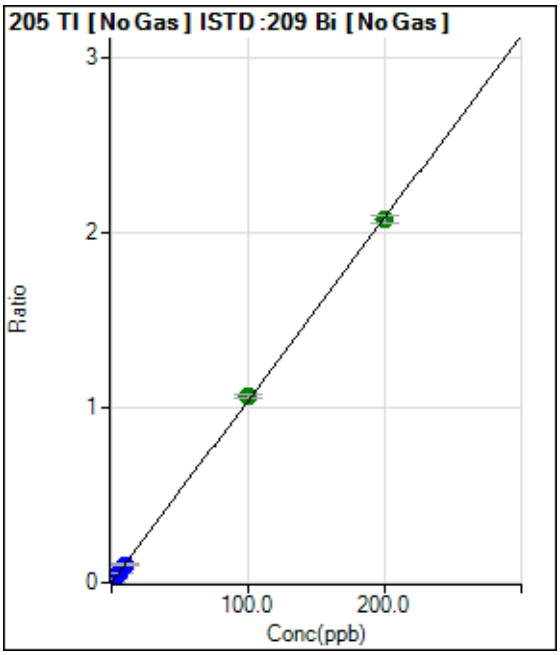
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	67.8
2	☐	2.000	2.072	21642.48	0.0092	P	2.9
3	☐	5.000	5.096	52336.69	0.0226	P	4.6
4	☐	10.000	9.891	101507.42	0.0439	P	4.5
5	☐	100.000	100.270	996888.69	0.4447	P	2.7
6	☐	200.000	199.867	1955471.85	0.8864	A	2.2

y = 0.0044 * x + 2.8502E-005
R = 1.0000
DL = 0.01307
BEC = 0.006427

Weight: <None>
Min Conc: <None>

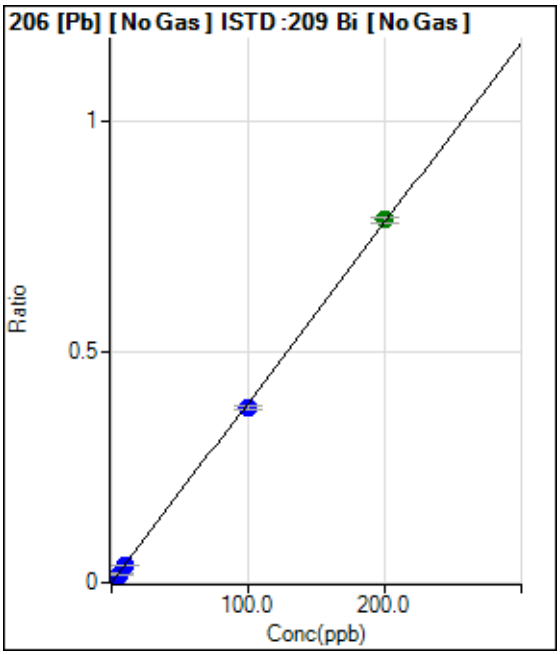


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	210.00	0.0001	P	23.9
2	☐	2.000	2.066	50827.42	0.0216	P	3.2
3	☐	5.000	5.188	125367.09	0.0542	P	3.9
4	☐	10.000	10.006	241646.33	0.1044	P	2.5
5	☐	100.000	102.074	2386797.62	1.0647	A	2.5
6	☐	200.000	198.957	4578033.16	2.0751	A	2.2

y = 0.0104 * x + 9.0149E-005
R = 0.9999
DL = 0.006199
BEC = 0.008644

Weight: <None>
Min Conc: <None>

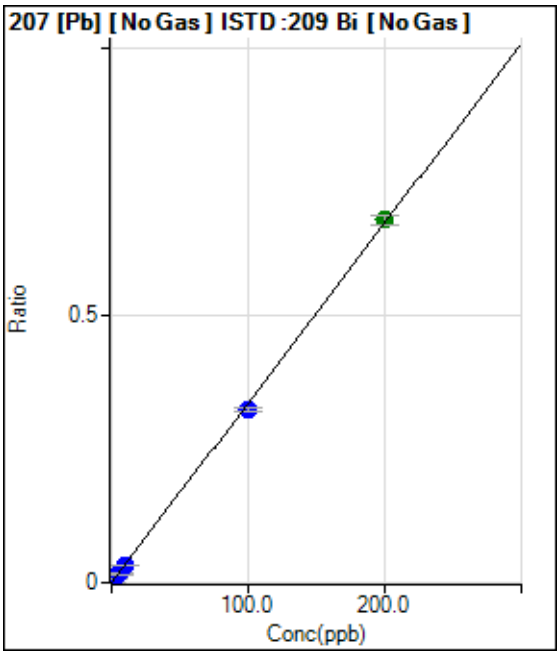
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0000	P	41.8
2	☐	2.000	1.918	17616.06	0.0075	P	2.7
3	☐	5.000	4.767	43001.24	0.0186	P	5.5
4	☐	10.000	9.740	87778.40	0.0380	P	4.5
5	☐	100.000	96.886	845704.26	0.3772	P	2.2
6	☐	200.000	201.577	1731329.35	0.7848	A	1.9

y = 0.0039 * x + 3.4186E-005
R = 0.9998
DL = 0.01101
BEC = 0.008781

Weight: <None>
Min Conc: <None>

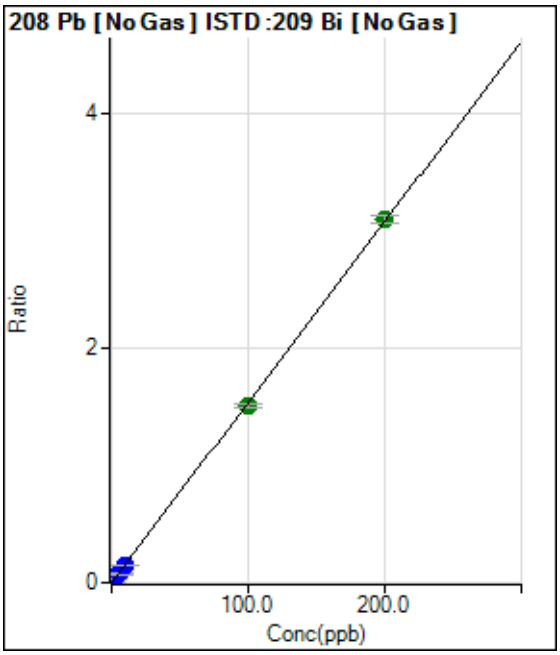


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	123.34	0.0001	P	28.2
2	☐	2.000	1.916	15259.58	0.0065	P	2.4
3	☐	5.000	4.842	37807.71	0.0163	P	4.2
4	☐	10.000	9.583	74700.72	0.0323	P	4.2
5	☐	100.000	96.206	725773.40	0.3237	P	2.3
6	☐	200.000	201.923	1498821.69	0.6794	A	2.4

y = 0.0034 * x + 5.3071E-005
R = 0.9998
DL = 0.01335
BEC = 0.01577

Weight: <None>
Min Conc: <None>

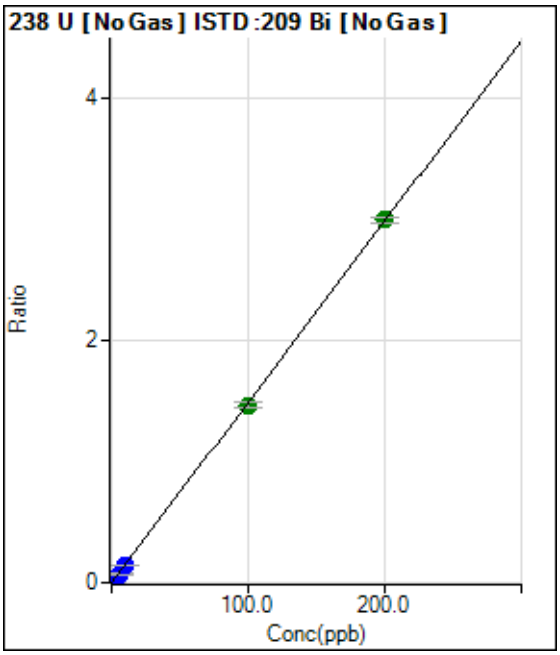
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	420.01	0.0002	P	8.5
2	☐	2.000	1.935	70158.54	0.0299	P	3.0
3	☐	5.000	4.831	171897.63	0.0743	P	4.3
4	☐	10.000	9.753	346601.17	0.1498	P	3.9
5	☐	100.000	97.720	3362480.39	1.4998	A	2.1
6	☐	200.000	201.157	6810904.74	3.0872	A	1.9

y = 0.0153 * x + 1.8068E-004
R = 0.9999
DL = 0.002986
BEC = 0.01177

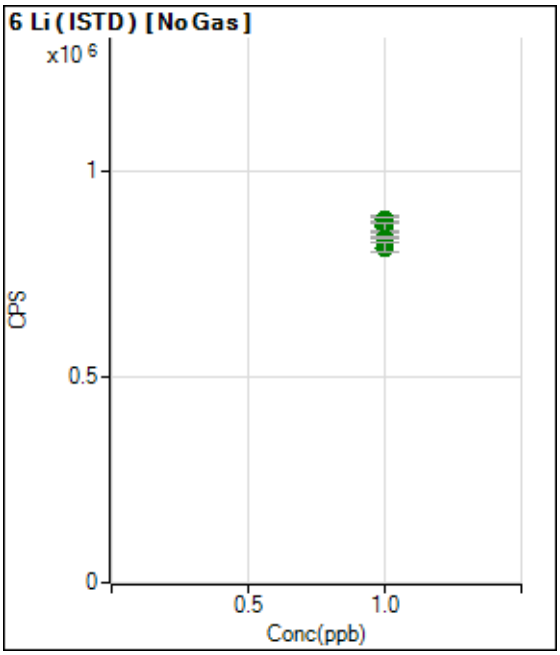
Weight: <None>
Min Conc: <None>



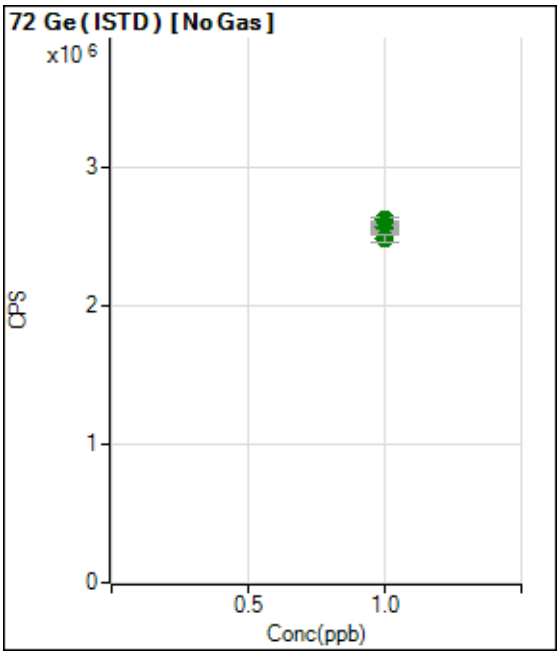
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0000	P	34.4
2	☐	2.000	1.891	66095.44	0.0281	P	3.4
3	☐	5.000	4.734	162929.27	0.0704	P	4.2
4	☐	10.000	9.664	332548.38	0.1438	P	4.1
5	☐	100.000	98.235	3276195.58	1.4614	A	2.9
6	☐	200.000	200.907	6593887.61	2.9889	A	1.4

y = 0.0149 * x + 2.0152E-005
R = 0.9999
DL = 0.001399
BEC = 0.001355

Weight: <None>
Min Conc: <None>

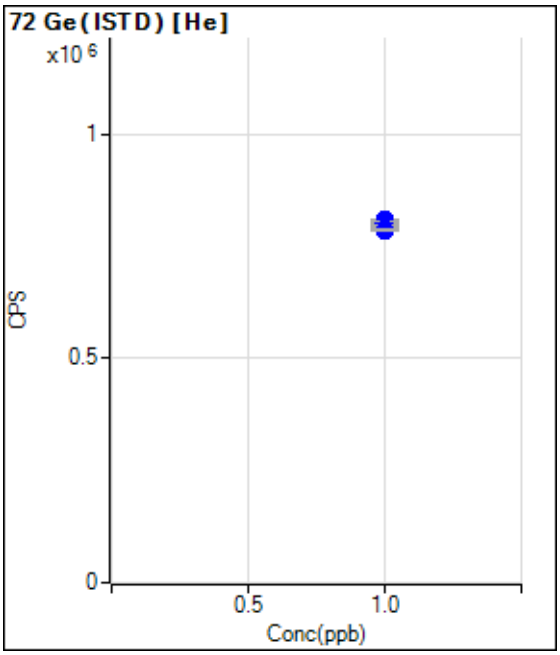


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		868082.83		A	4.7
2	☐	1.000		865767.95		A	3.1
3	☐	1.000		879987.20		A	1.6
4	☐	1.000		863195.78		A	1.7
5	☐	1.000		837208.57		A	0.4
6	☐	1.000		812550.14		A	3.0

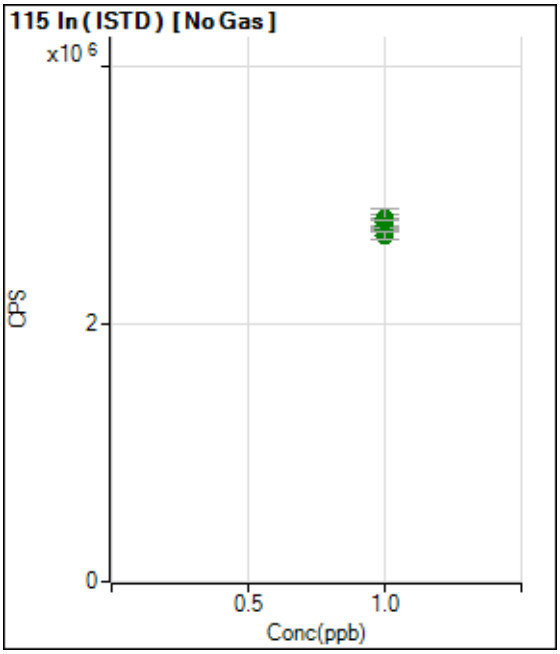


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2608275.27		A	1.2
2	☐	1.000		2626231.32		A	1.9
3	☐	1.000		2582822.31		A	0.4
4	☐	1.000		2578168.14		A	0.8
5	☐	1.000		2540984.70		A	0.5
6	☐	1.000		2497575.69		A	2.2

Calibration for 315_ICV.d

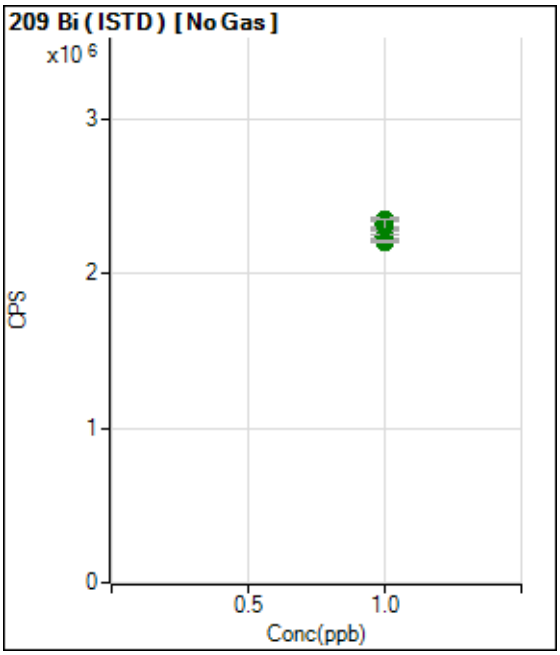


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		808277.75		P	0.1
2	☐	1.000		802731.24		P	0.3
3	☐	1.000		801424.16		P	1.9
4	☐	1.000		799388.53		P	1.0
5	☐	1.000		790287.41		P	1.8
6	☐	1.000		784574.99		P	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2794757.98		A	2.3
2	☐	1.000		2784761.45		A	4.2
3	☐	1.000		2816150.16		A	5.2
4	☐	1.000		2759776.00		A	2.9
5	☐	1.000		2737290.07		A	1.0
6	☐	1.000		2691225.11		A	2.2

Calibration for 315_ICV.d



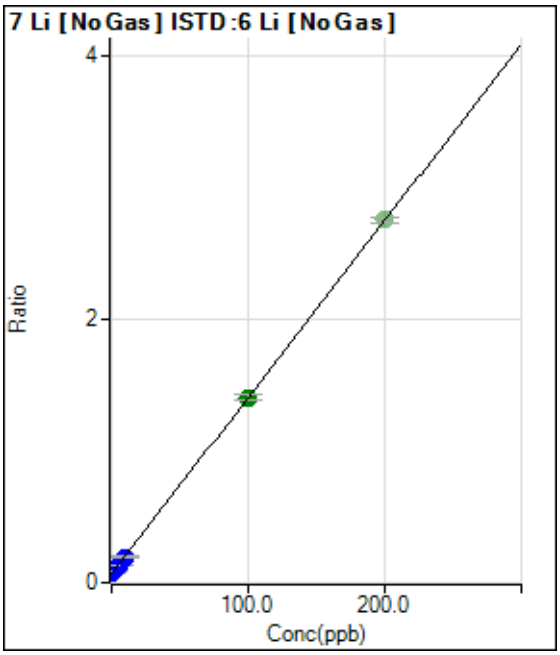
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2324964.65		A	2.4
2	☐	1.000		2348749.86		A	1.1
3	☐	1.000		2314620.49		A	2.6
4	☐	1.000		2314588.51		A	3.0
5	☐	1.000		2242381.32		A	1.4
6	☐	1.000		2206251.11		A	0.6

Calibration for 022_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070723A.b\
Analysis File: 070723A.batch.bin
DA Date-Time: 7/7/2023 11:52:35 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	7/7/2023 11:02:17 AM
2	016CALS.d	2/10/200	7/7/2023 11:04:15 AM
3	017CALS.d	5/25/500	7/7/2023 11:06:11 AM
4	018CALS.d	10/50/100	7/7/2023 11:08:19 AM
5	019CALS.d	100/500/10K	7/7/2023 11:10:14 AM
6	020CALS.d	200/1000/20K	7/7/2023 11:12:07 AM

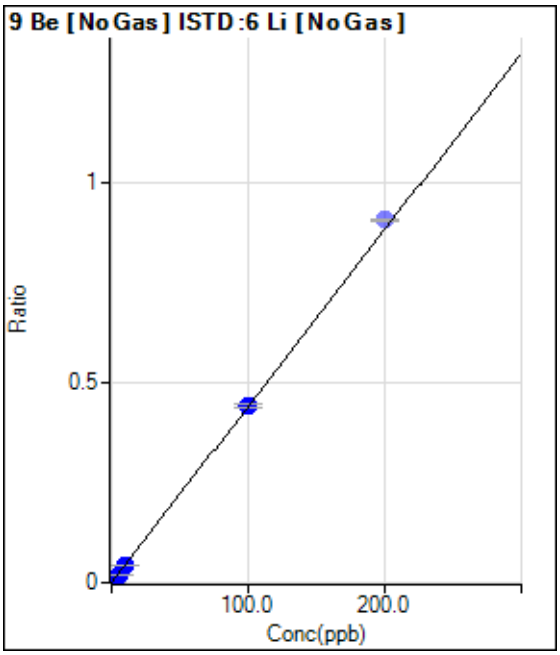
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51500.58	0.0671	P	3.1
2	☐	2.000	1.918	71083.64	0.0927	P	1.5
3	☐	5.000	5.230	103128.24	0.1371	P	0.4
4	☐	10.000	9.597	153163.16	0.1955	P	3.0
5	☐	100.000	100.030	1041288.34	1.4059	A	3.4
6	☑	200.000		1997080.75	2.7515	A	1.5

y = 0.0134 * x + 0.0671
R = 1.0000
DL = 0.4734
BEC = 5.012

Weight: <None>
Min Conc: <None>

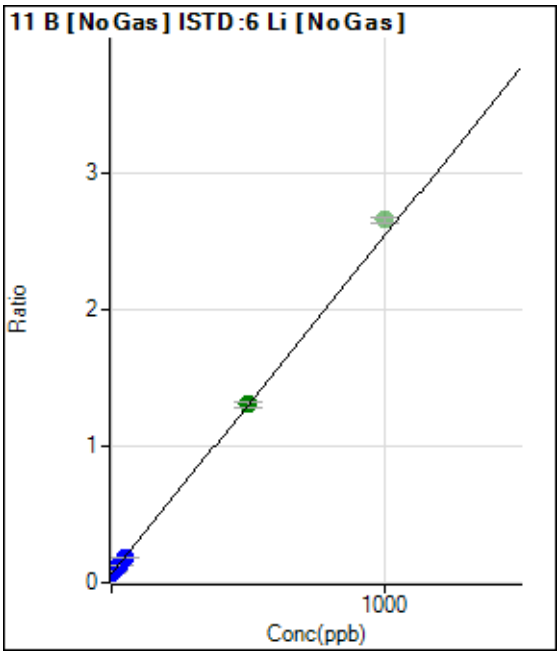


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.00	0.0000	P	56.6
2	☐	2.000	1.863	6313.13	0.0082	P	4.7
3	☐	5.000	4.831	16034.23	0.0213	P	0.4
4	☐	10.000	9.475	32733.12	0.0418	P	2.1
5	☐	100.000	100.064	326625.45	0.4410	P	2.7
6	☑	200.000		657979.99	0.9065	P	0.7

y = 0.0044 * x + 1.9351E-005
R = 1.0000
DL = 0.007459
BEC = 0.004391

Weight: <None>
Min Conc: <None>

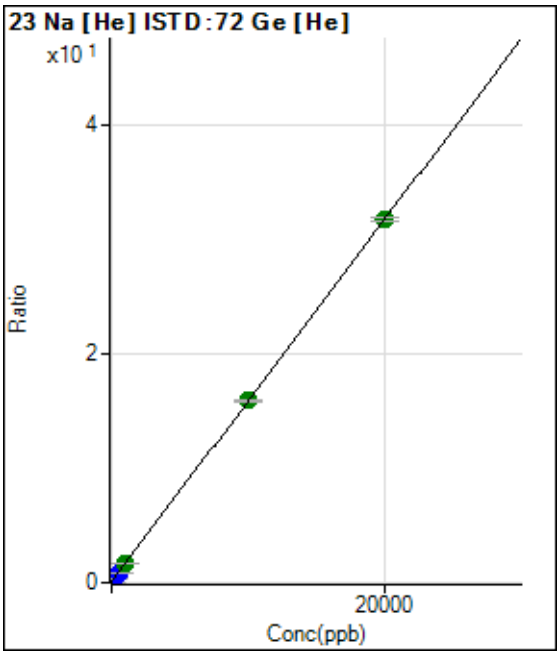
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50401.87	0.0656	P	2.2
2	☐	10.000	9.671	68606.52	0.0895	P	3.0
3	☐	25.000	25.040	95905.23	0.1275	P	1.4
4	☐	50.000	46.809	141996.00	0.1813	P	2.7
5	☐	500.000	500.324	963835.14	1.3014	A	2.6
6	☑	1000.000		1925562.11	2.6529	A	1.5

y = 0.0025 * x + 0.0656
R = 1.0000
DL = 1.764
BEC = 26.58

Weight: <None>
Min Conc: <None>

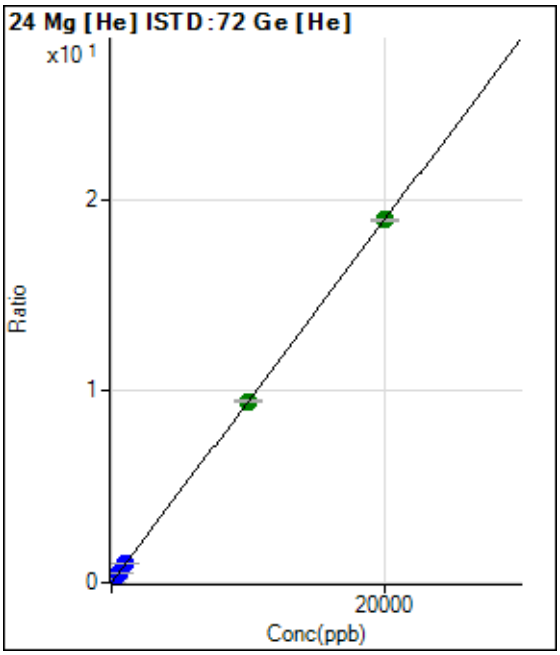


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	57809.75	0.0815	P	0.9
2	☐	200.000	205.013	290639.79	0.4056	P	1.6
3	☐	500.000	518.929	643342.70	0.9019	P	1.8
4	☐	1000.000	999.342	1180361.88	1.6614	A	1.5
5	☐	10000.00	10017.92	11232543.16	15.9197	A	0.7
6	☐	20000.00	19990.55	22199528.00	31.6863	A	1.1

y = 0.0016 * x + 0.0815
R = 1.0000
DL = 1.326
BEC = 51.54

Weight: <None>
Min Conc: <None>

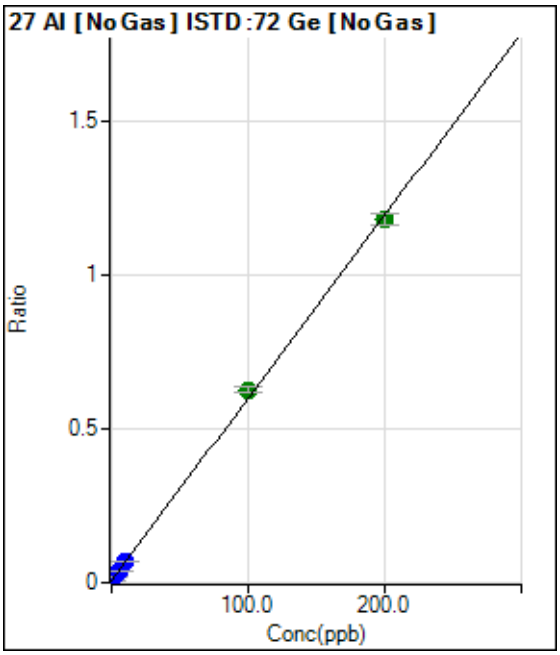
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	486.68	0.0007	P	24.1
2	☐	200.000	209.364	142566.82	0.1990	P	2.0
3	☐	500.000	529.890	358468.30	0.5025	P	1.8
4	☐	1000.000	1047.634	705443.69	0.9929	P	0.9
5	☐	10000.00	9990.883	6676217.40	9.4630	A	1.1
6	☐	20000.00	20001.33	13271985.22	18.9438	A	0.3

y = 9.4709E-004 * x + 6.8641E-004
R = 1.0000
DL = 0.5239
BEC = 0.7247

Weight: <None>
Min Conc: <None>

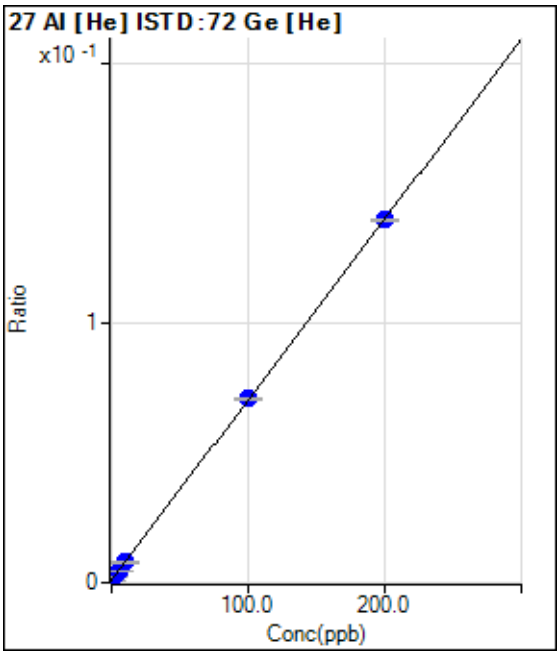


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15515.56	0.0068	P	1.2
2	☐	2.000	1.989	42171.11	0.0186	P	2.1
3	☐	5.000	5.545	89511.68	0.0397	P	3.0
4	☐	10.000	10.618	156716.02	0.0699	P	2.2
5	☐	100.000	104.675	1416560.87	0.6286	A	3.2
6	☐	200.000	197.618	2693190.48	1.1807	A	3.1

y = 0.0059 * x + 0.0068
R = 0.9996
DL = 0.04042
BEC = 1.145

Weight: <None>
Min Conc: <None>

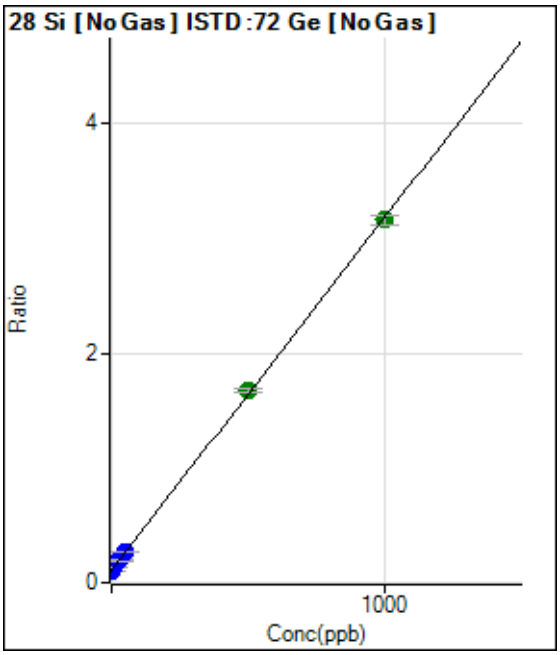
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	643.37	0.0009	P	12.7
2	☐	2.000	1.606	1450.11	0.0020	P	2.7
3	☐	5.000	5.029	3137.06	0.0044	P	7.6
4	☐	10.000	9.919	5541.22	0.0078	P	3.2
5	☐	100.000	100.555	49929.90	0.0708	P	1.6
6	☐	200.000	199.730	97859.57	0.1397	P	0.2

y = 6.9483E-004 * x + 9.0649E-004
R = 1.0000
DL = 0.4954
BEC = 1.305

Weight: <None>
Min Conc: <None>

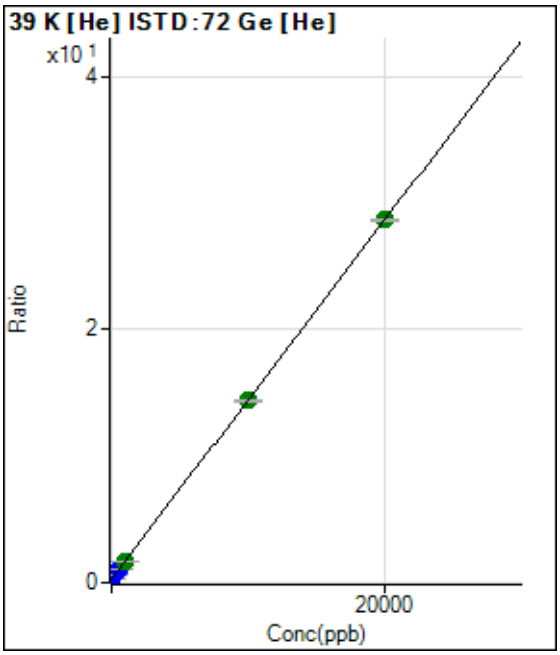


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244670.59	0.1072	P	2.9
2	☐	10.000	10.436	315595.99	0.1393	P	1.0
3	☐	25.000	27.890	434499.94	0.1930	P	4.8
4	☐	50.000	53.977	612676.16	0.2731	P	0.9
5	☐	500.000	511.829	3786982.34	1.6802	A	2.1
6	☐	1000.000	993.810	7210364.89	3.1614	A	2.3

y = 0.0031 * x + 0.1072
R = 0.9999
DL = 3.084
BEC = 34.9

Weight: <None>
Min Conc: <None>

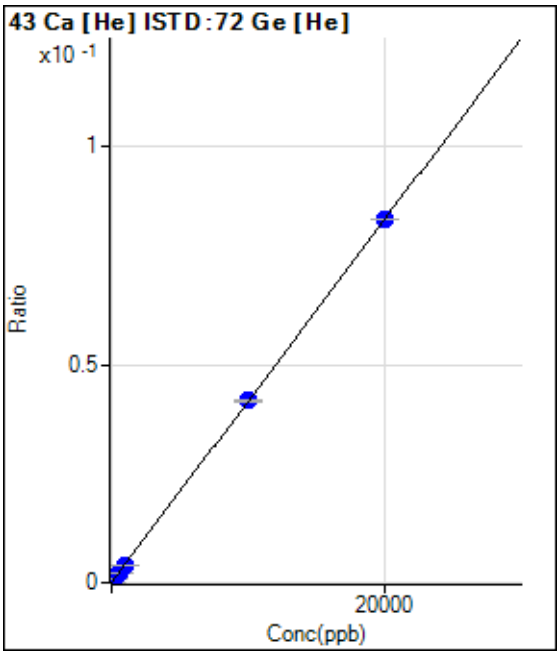
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190542.86	0.2686	P	0.8
2	☐	200.000	195.675	391470.18	0.5464	P	1.9
3	☐	500.000	512.658	710705.93	0.9963	P	1.5
4	☐	1000.000	1029.770	1229510.32	1.7303	A	1.9
5	☐	10000.00	9949.504	10154039.43	14.3915	A	1.6
6	☐	20000.00	20023.48	20100326.78	28.6912	A	0.7

y = 0.0014 * x + 0.2686
R = 1.0000
DL = 4.797
BEC = 189.2

Weight: <None>
Min Conc: <None>

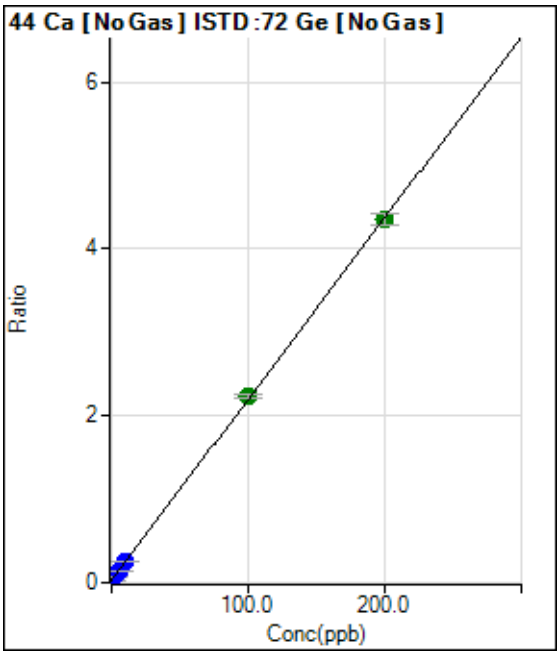


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.67	0.0001	P	42.0
2	☐	200.000	185.762	590.03	0.0008	P	3.5
3	☐	500.000	498.358	1513.45	0.0021	P	4.5
4	☐	1000.000	954.285	2853.69	0.0040	P	1.8
5	☐	10000.00	10014.52	29398.39	0.0417	P	0.6
6	☐	20000.00	19995.20	58243.58	0.0831	P	0.2

y = 4.1552E-006 * x + 5.1754E-005
R = 1.0000
DL = 15.68
BEC = 12.46

Weight: <None>
Min Conc: <None>

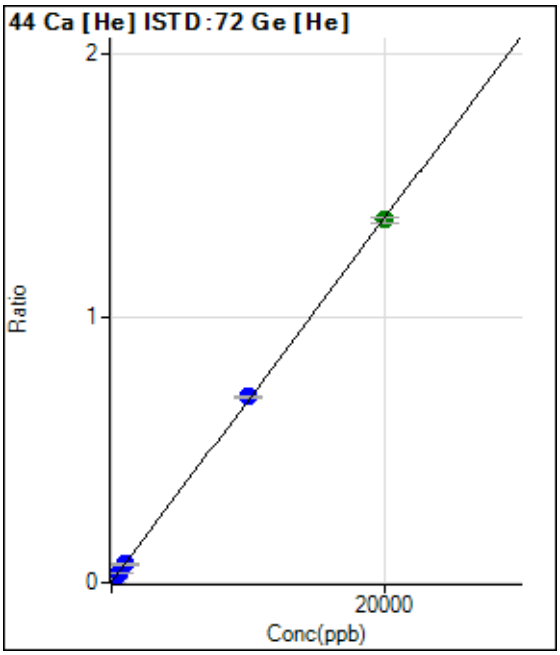
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63194.92	0.0277	P	2.7
2	☐	2.000	2.144	168157.35	0.0742	P	2.1
3	☐	5.000	5.334	323301.06	0.1435	P	2.4
4	☐	10.000	10.665	581561.36	0.2593	P	1.6
5	☐	100.000	101.898	5049757.95	2.2404	A	1.7
6	☐	200.000	199.008	9917877.56	4.3490	A	3.3

y = 0.0217 * x + 0.0277
R = 0.9999
DL = 0.1041
BEC = 1.276

Weight: <None>
Min Conc: <None>

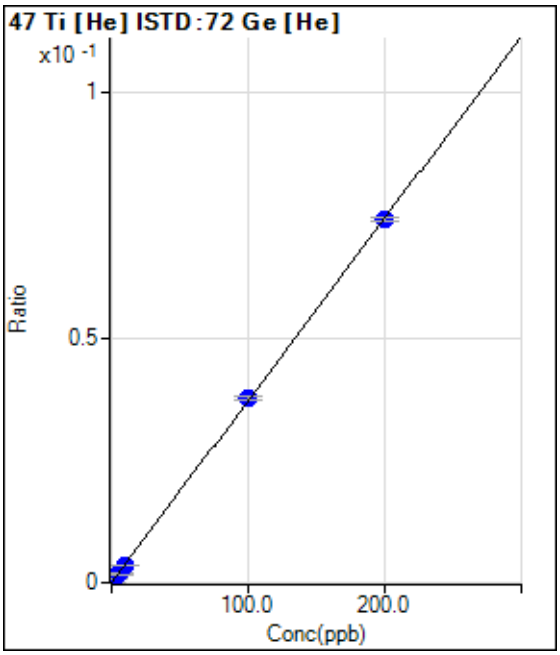


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1146.74	0.0016	P	14.5
2	☐	200.000	204.755	11244.82	0.0157	P	3.1
3	☐	500.000	496.654	25504.02	0.0357	P	2.5
4	☐	1000.000	984.330	49204.76	0.0692	P	1.9
5	☐	10000.00	10180.50	494648.35	0.7011	P	0.8
6	☐	20000.00	19910.56	959459.38	1.3696	A	1.6

y = 6.8709E-005 * x + 0.0016
R = 0.9999
DL = 10.21
BEC = 23.52

Weight: <None>
Min Conc: <None>

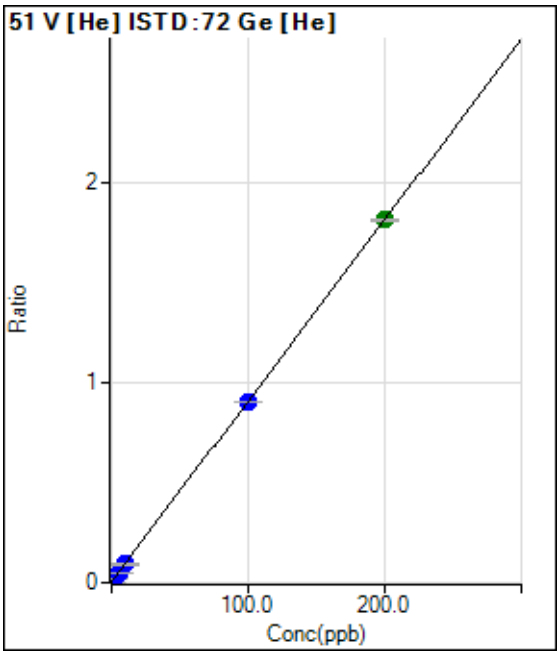
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	69.6
2	☐	2.000	1.775	490.02	0.0007	P	21.8
3	☐	5.000	4.900	1316.76	0.0018	P	12.9
4	☐	10.000	9.594	2546.96	0.0036	P	3.8
5	☐	100.000	101.479	26599.40	0.0377	P	1.7
6	☐	200.000	199.285	51854.66	0.0740	P	1.1

y = 3.7131E-004 * x + 2.3530E-005
R = 1.0000
DL = 0.1324
BEC = 0.06337

Weight: <None>
Min Conc: <None>

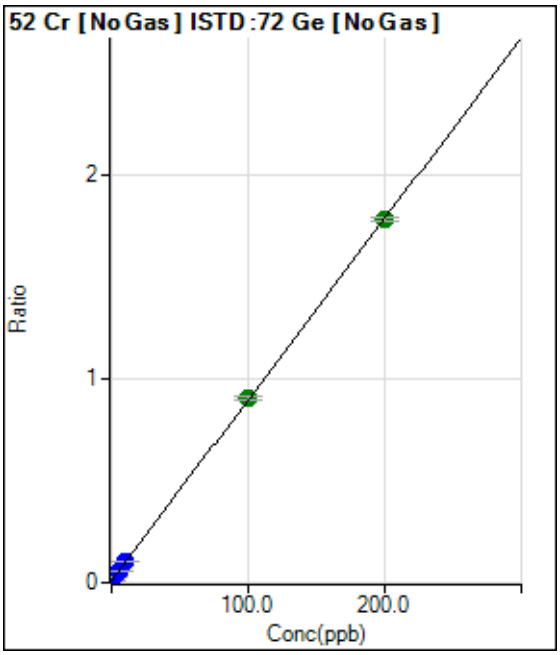


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3111.48	0.0044	P	4.3
2	☐	2.000	1.948	15795.82	0.0220	P	0.6
3	☐	5.000	4.917	34912.17	0.0490	P	3.1
4	☐	10.000	9.617	65037.97	0.0915	P	1.0
5	☐	100.000	99.855	641648.29	0.9094	P	0.2
6	☐	200.000	200.094	1273617.38	1.8179	A	0.6

y = 0.0091 * x + 0.0044
R = 1.0000
DL = 0.06269
BEC = 0.484

Weight: <None>
Min Conc: <None>

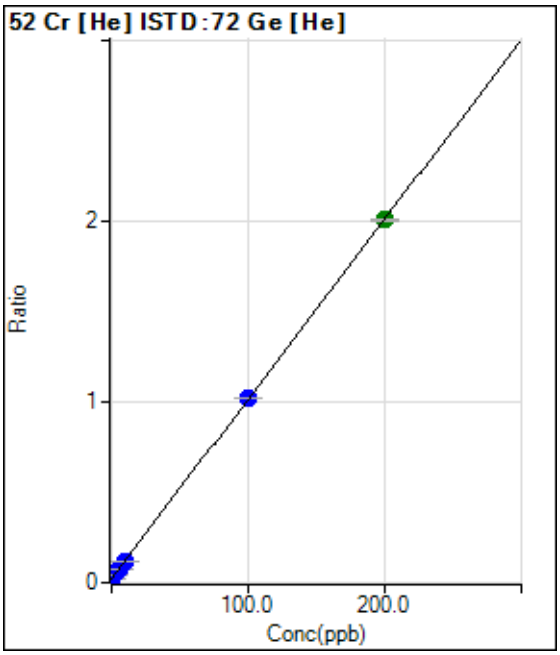
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22047.99	0.0097	P	2.8
2	☐	2.000	2.093	63993.04	0.0282	P	1.0
3	☐	5.000	5.218	126113.89	0.0560	P	2.8
4	☐	10.000	10.389	228561.23	0.1019	P	1.2
5	☐	100.000	101.032	2043253.56	0.9066	A	2.4
6	☐	200.000	199.458	4061475.56	1.7804	A	0.9

y = 0.0089 * x + 0.0097
R = 1.0000
DL = 0.09004
BEC = 1.089

Weight: <None>
Min Conc: <None>

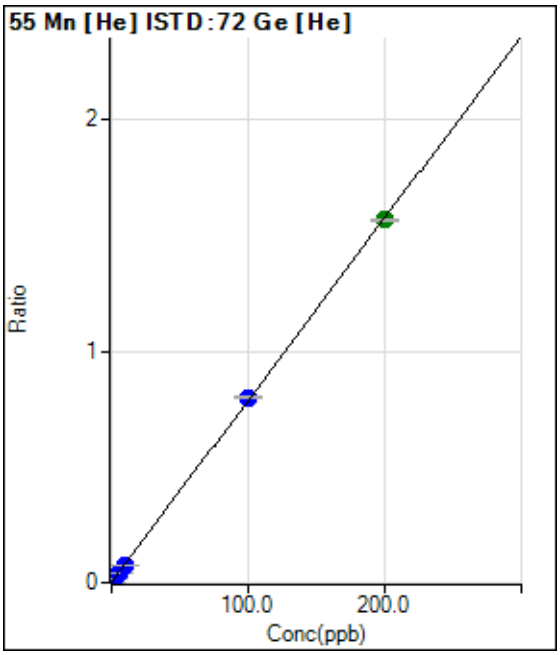


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15835.98	0.0223	P	2.9
2	☐	2.000	1.912	29615.78	0.0413	P	3.4
3	☐	5.000	5.070	51888.73	0.0727	P	1.4
4	☐	10.000	9.906	85851.67	0.1208	P	1.5
5	☐	100.000	100.522	720962.72	1.0219	P	0.9
6	☐	200.000	199.743	1407080.76	2.0085	A	0.8

y = 0.0099 * x + 0.0223
R = 1.0000
DL = 0.1987
BEC = 2.245

Weight: <None>
Min Conc: <None>

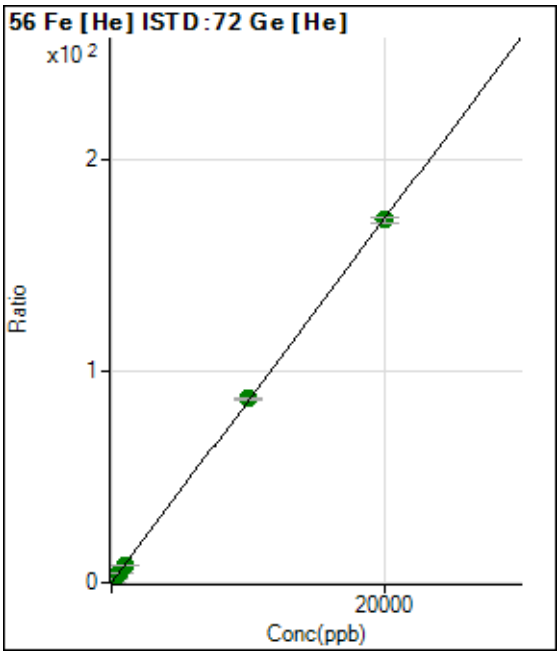
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	833.38	0.0012	P	16.9
2	☐	2.000	1.969	11938.80	0.0167	P	2.7
3	☐	5.000	5.010	28944.32	0.0406	P	2.9
4	☐	10.000	9.796	55569.85	0.0782	P	0.7
5	☐	100.000	101.727	565268.81	0.8013	P	1.7
6	☐	200.000	199.147	1098129.75	1.5675	A	0.7

y = 0.0079 * x + 0.0012
R = 0.9999
DL = 0.07588
BEC = 0.1494

Weight: <None>
Min Conc: <None>

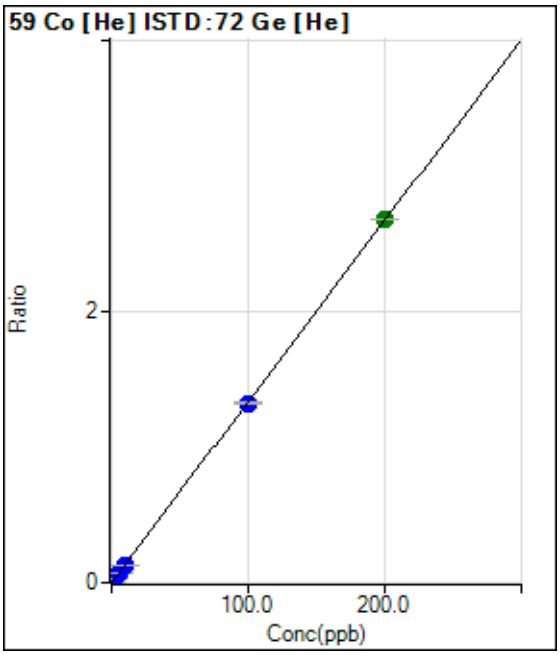


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17374.61	0.0245	P	3.8
2	☐	200.000	204.472	1275258.23	1.7798	A	2.7
3	☐	500.000	511.425	3149039.95	4.4150	A	2.2
4	☐	1000.000	975.721	5968639.08	8.4009	A	1.4
5	☐	10000.00	10112.44	61264950.75	86.8378	A	1.0
6	☐	20000.00	19944.66	119960748.2	171.245	A	1.5

y = 0.0086 * x + 0.0245
R = 1.0000
DL = 0.3284
BEC = 2.853

Weight: <None>
Min Conc: <None>

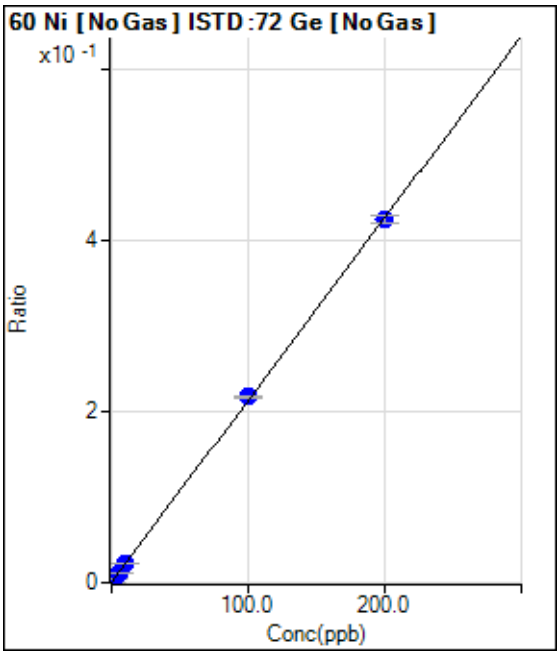
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0001	P	33.5
2	☐	2.000	1.950	18756.52	0.0262	P	2.5
3	☐	5.000	4.937	47151.71	0.0661	P	2.7
4	☐	10.000	9.684	92016.56	0.1295	P	0.6
5	☐	100.000	98.984	933318.19	1.3229	P	0.9
6	☐	200.000	200.526	1877429.50	2.6798	A	0.1

y = 0.0134 * x + 1.1287E-004
R = 1.0000
DL = 0.008483
BEC = 0.008446

Weight: <None>
Min Conc: <None>

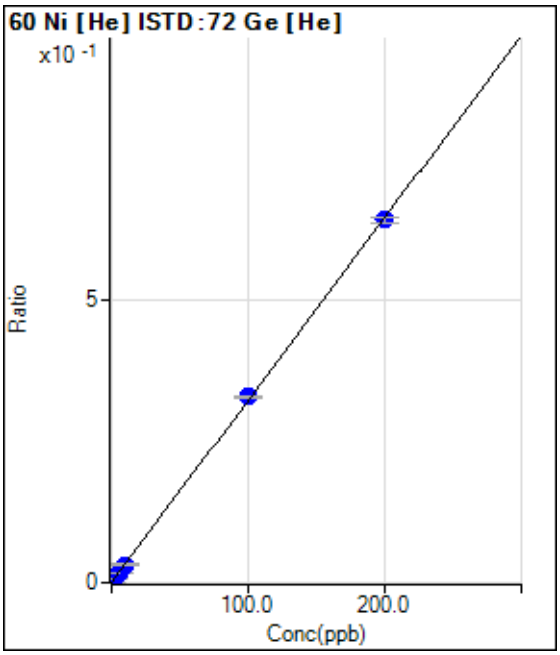


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	760.04	0.0003	P	5.4
2	☐	2.000	2.031	10537.55	0.0047	P	2.3
3	☐	5.000	5.207	25701.32	0.0114	P	1.2
4	☐	10.000	10.270	49737.92	0.0222	P	2.1
5	☐	100.000	101.810	488742.31	0.2168	P	1.8
6	☐	200.000	199.076	966331.55	0.4237	P	2.2

y = 0.0021 * x + 3.3324E-004
R = 0.9999
DL = 0.02523
BEC = 0.1567

Weight: <None>
Min Conc: <None>

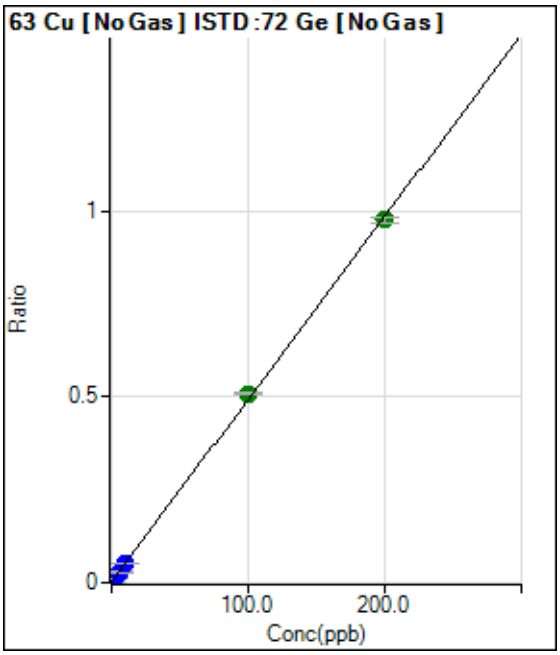
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	313.34	0.0004	P	9.7
2	☐	2.000	1.971	4874.30	0.0068	P	3.4
3	☐	5.000	5.195	12265.70	0.0172	P	5.1
4	☐	10.000	9.845	22882.92	0.0322	P	2.9
5	☐	100.000	102.069	232682.88	0.3298	P	1.2
6	☐	200.000	198.969	450068.42	0.6425	P	1.3

y = 0.0032 * x + 4.4154E-004
R = 0.9999
DL = 0.03983
BEC = 0.1368

Weight: <None>
Min Conc: <None>

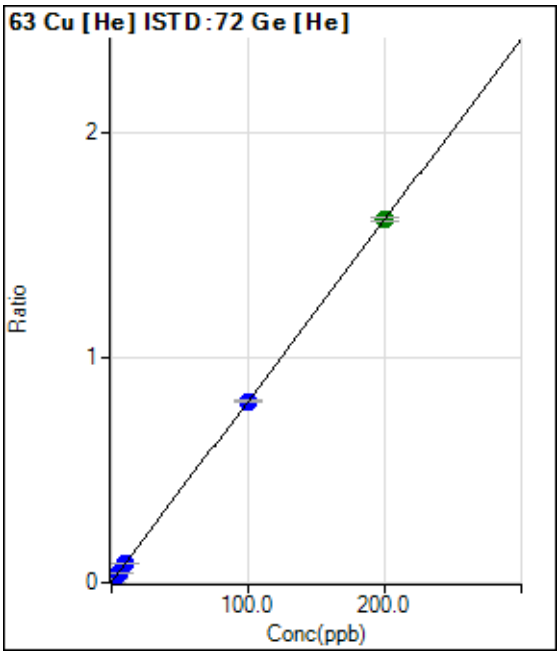


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5157.74	0.0023	P	3.7
2	☐	2.000	2.034	27735.13	0.0122	P	4.2
3	☐	5.000	5.271	63394.55	0.0282	P	4.2
4	☐	10.000	10.324	118795.61	0.0530	P	3.1
5	☐	100.000	103.283	1149047.40	0.5096	A	1.4
6	☐	200.000	198.335	2227422.42	0.9765	A	1.5

y = 0.0049 * x + 0.0023
R = 0.9998
DL = 0.05156
BEC = 0.4601

Weight: <None>
Min Conc: <None>

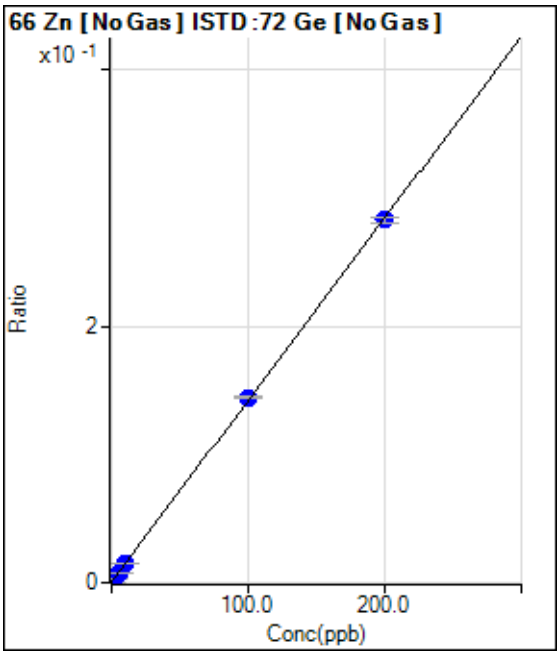
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2210.22	0.0031	P	8.5
2	☐	2.000	1.990	13720.49	0.0192	P	3.3
3	☐	5.000	5.076	31399.95	0.0440	P	1.2
4	☐	10.000	9.834	58516.26	0.0824	P	1.3
5	☐	100.000	99.984	570647.09	0.8088	P	0.8
6	☐	200.000	200.015	1131334.98	1.6148	A	1.1

y = 0.0081 * x + 0.0031
R = 1.0000
DL = 0.09814
BEC = 0.3867

Weight: <None>
Min Conc: <None>

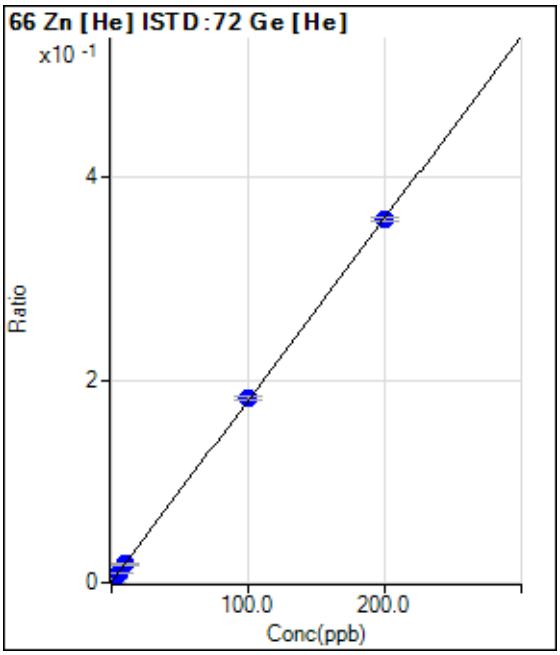


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1163.41	0.0005	P	4.8
2	☐	2.000	1.929	7355.45	0.0032	P	1.7
3	☐	5.000	5.184	17721.91	0.0079	P	1.3
4	☐	10.000	10.131	33368.08	0.0149	P	4.9
5	☐	100.000	101.629	326128.99	0.1447	P	1.4
6	☐	200.000	199.175	645685.34	0.2831	P	1.4

y = 0.0014 * x + 5.1011E-004
R = 1.0000
DL = 0.05152
BEC = 0.3596

Weight: <None>
Min Conc: <None>

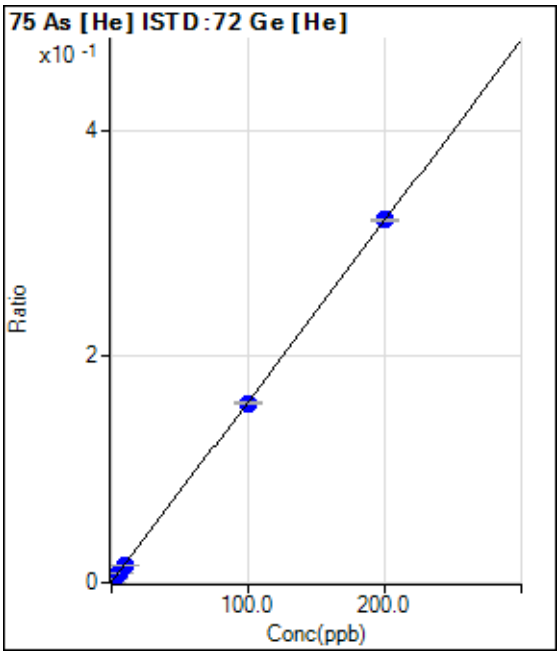
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	380.01	0.0005	P	27.7
2	☐	2.000	2.062	3040.40	0.0042	P	8.4
3	☐	5.000	4.924	6691.76	0.0094	P	1.9
4	☐	10.000	9.757	12829.60	0.0181	P	2.9
5	☐	100.000	101.614	129160.05	0.1831	P	1.9
6	☐	200.000	199.206	251053.92	0.3584	P	1.0

y = 0.0018 * x + 5.3556E-004
R = 1.0000
DL = 0.2477
BEC = 0.2981

Weight: <None>
Min Conc: <None>

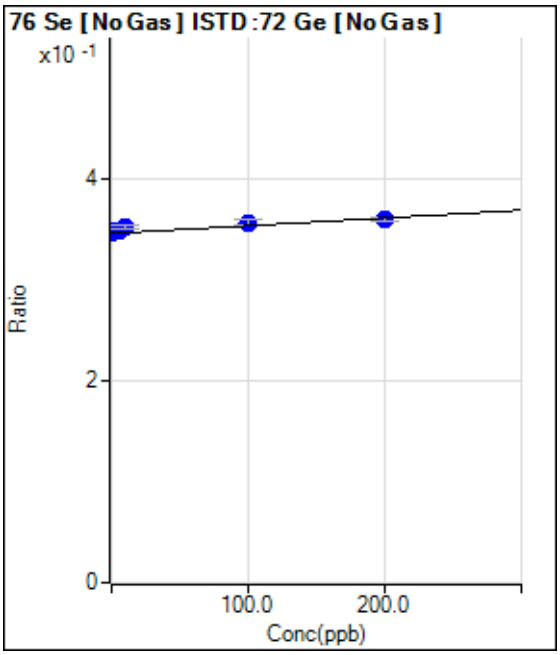


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	276.67	0.0004	P	10.1
2	☐	2.000	1.914	2470.24	0.0034	P	2.0
3	☐	5.000	4.817	5765.71	0.0081	P	0.5
4	☐	10.000	9.698	11279.20	0.0159	P	0.6
5	☐	100.000	99.133	111947.95	0.1587	P	1.3
6	☐	200.000	200.454	224498.49	0.3205	P	0.6

y = 0.0016 * x + 3.9013E-004
R = 1.0000
DL = 0.0742
BEC = 0.2443

Weight: <None>
Min Conc: <None>

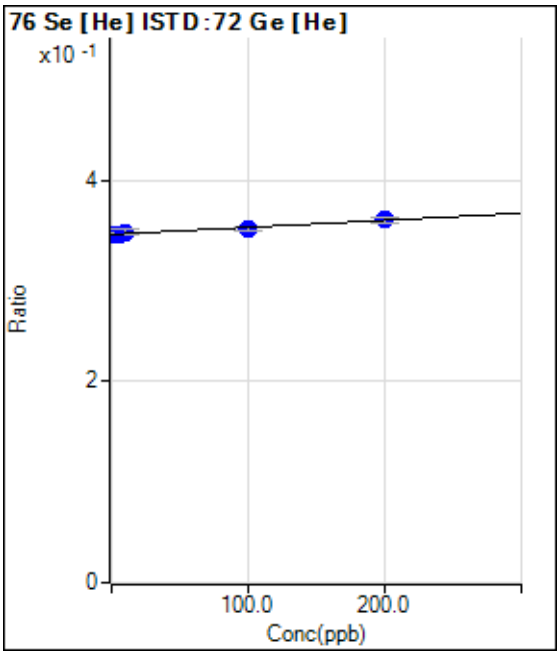
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	791056.81	0.3467	P	2.0
2	☐	2.000	22.572	789343.30	0.3484	P	0.7
3	☐	5.000	41.779	788420.54	0.3499	P	1.1
4	☐	10.000	84.368	792416.11	0.3532	P	1.2
5	☐	100.000	141.325	806014.65	0.3576	P	1.7
6	☐	200.000	174.494	821584.13	0.3601	P	1.0

y = 7.7100E-005 * x + 0.3467
R = 0.9072
DL = 275.5
BEC = 4497

Weight: <None>
Min Conc: <None>

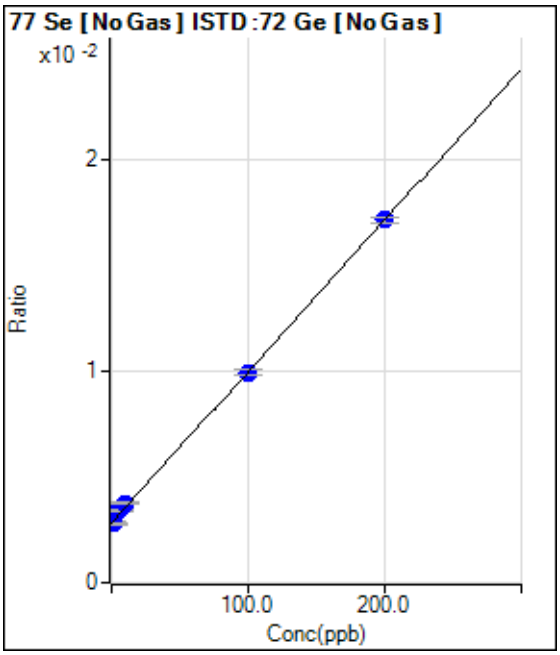


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	245733.51	0.3464	P	2.0
2	☐	2.000	7.889	248635.34	0.3470	P	1.8
3	☐	5.000	6.497	247472.25	0.3469	P	0.7
4	☐	10.000	36.221	247944.35	0.3490	P	1.2
5	☐	100.000	88.933	248803.54	0.3527	P	1.1
6	☐	200.000	204.126	252720.28	0.3608	P	1.7

y = 7.0290E-005 * x + 0.3464
R = 0.9890
DL = 293
BEC = 4928

Weight: <None>
Min Conc: <None>

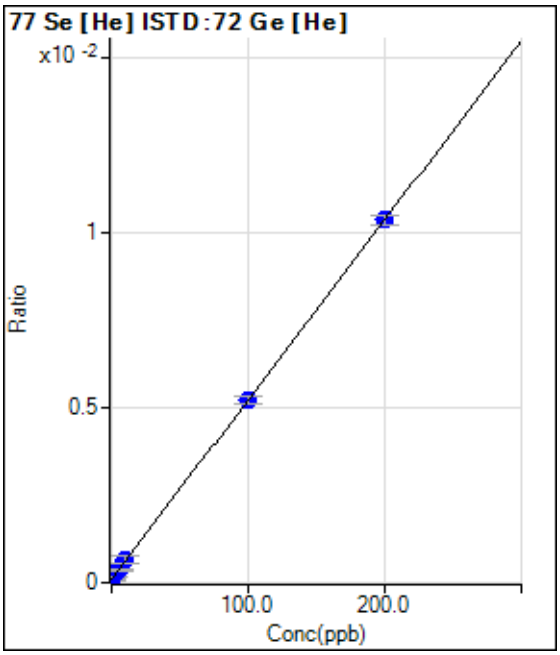
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6454.99	0.0028	P	4.3
2	☐	2.000	-0.330	6348.28	0.0028	P	4.1
3	☐	5.000	8.173	7682.32	0.0034	P	4.3
4	☐	10.000	13.086	8442.78	0.0038	P	3.2
5	☐	100.000	99.386	22392.20	0.0099	P	2.9
6	☐	200.000	200.097	39100.49	0.0171	P	1.9

y = 7.1532E-005 * x + 0.0028
R = 0.9997
DL = 5.1
BEC = 39.52

Weight: <None>
Min Conc: <None>

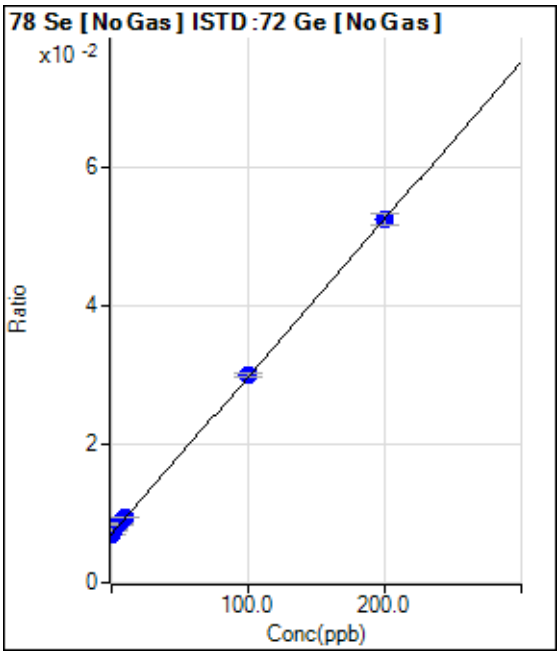


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0001	P	38.1
2	☐	2.000	2.534	163.34	0.0002	P	37.9
3	☐	5.000	5.363	266.67	0.0004	P	13.5
4	☐	10.000	11.144	476.69	0.0007	P	30.0
5	☐	100.000	99.460	3673.91	0.0052	P	4.3
6	☐	200.000	200.198	7275.44	0.0104	P	2.9

y = 5.1377E-005 * x + 9.8737E-005
R = 1.0000
DL = 2.198
BEC = 1.922

Weight: <None>
Min Conc: <None>

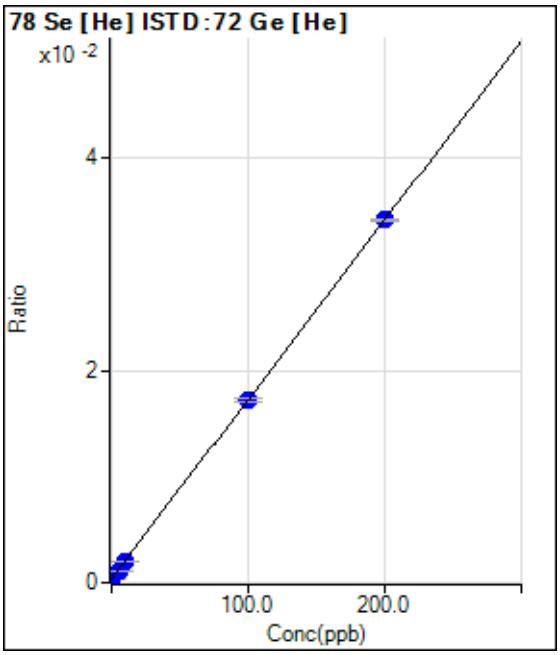
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15959.72	0.0070	P	1.3
2	☐	2.000	2.724	17244.63	0.0076	P	1.2
3	☐	5.000	6.487	19063.70	0.0085	P	5.2
4	☐	10.000	10.683	21130.20	0.0094	P	1.7
5	☐	100.000	100.756	67341.42	0.0299	P	2.0
6	☐	200.000	199.543	119315.81	0.0523	P	3.1

y = 2.2712E-004 * x + 0.0070
R = 1.0000
DL = 1.226
BEC = 30.79

Weight: <None>
Min Conc: <None>

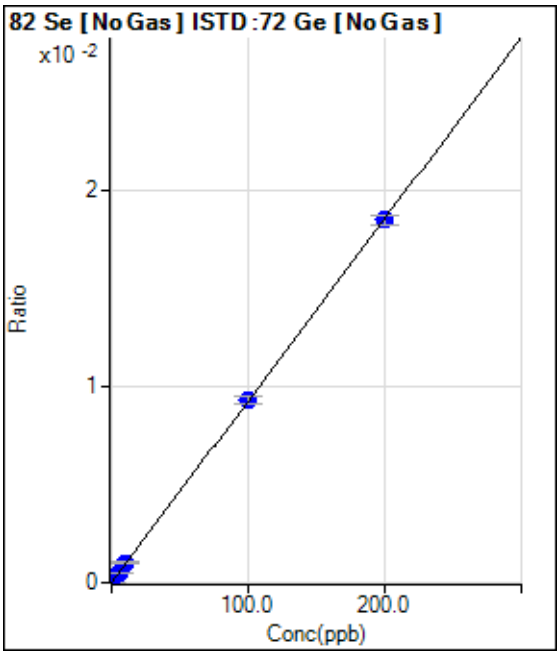


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	278.67	0.0004	P	7.1
2	☐	2.000	1.784	498.01	0.0007	P	6.8
3	☐	5.000	4.297	798.03	0.0011	P	7.1
4	☐	10.000	9.235	1387.41	0.0020	P	2.4
5	☐	100.000	99.666	12153.49	0.0172	P	2.4
6	☐	200.000	200.225	23969.28	0.0342	P	0.3

y = 1.6892E-004 * x + 3.9289E-004
R = 1.0000
DL = 0.4927
BEC = 2.326

Weight: <None>
Min Conc: <None>

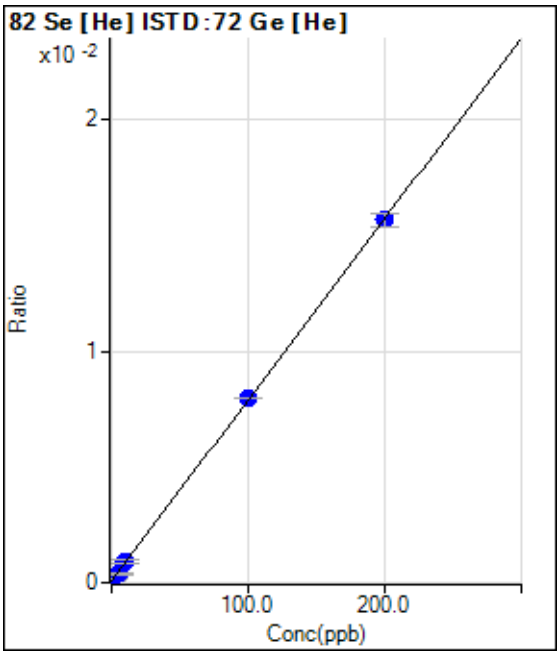
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-59.79	0.0000	P	-170.1
2	☐	2.000	2.821	534.12	0.0002	P	9.9
3	☐	5.000	5.493	1090.82	0.0005	P	9.2
4	☐	10.000	10.906	2211.05	0.0010	P	5.1
5	☐	100.000	100.476	20954.12	0.0093	P	3.8
6	☐	200.000	199.696	42211.76	0.0185	P	2.5

y = 9.2809E-005 * x - 2.6186E-005
R = 1.0000
DL = 1.44
BEC = -0.2821

Weight: <None>
Min Conc: <None>

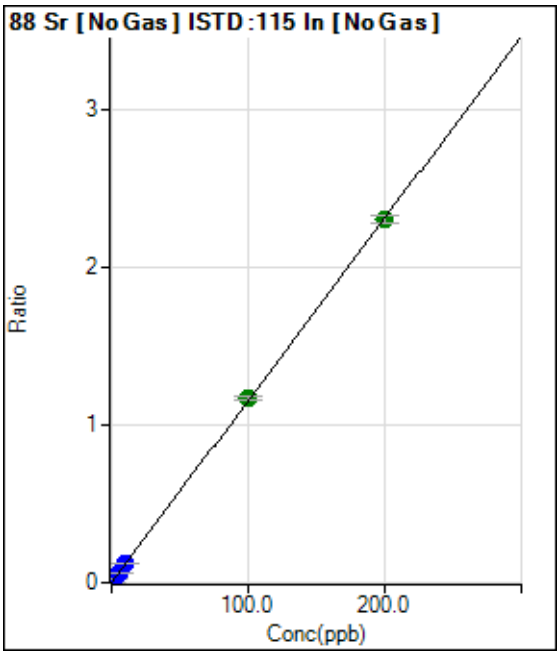


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0001	P	44.0
2	☐	2.000	1.828	160.00	0.0002	P	23.4
3	☐	5.000	4.108	286.68	0.0004	P	15.2
4	☐	10.000	10.251	626.69	0.0009	P	18.1
5	☐	100.000	100.840	5617.94	0.0080	P	0.5
6	☐	200.000	199.591	10988.00	0.0157	P	3.5

y = 7.8165E-005 * x + 7.9791E-005
R = 1.0000
DL = 1.348
BEC = 1.021

Weight: <None>
Min Conc: <None>

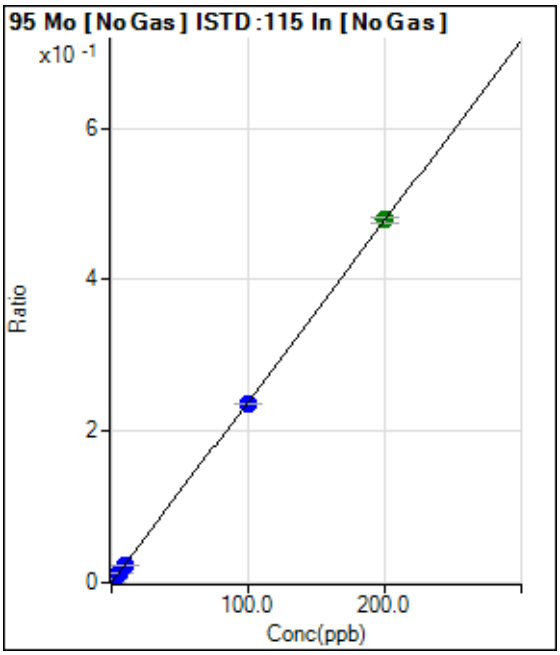
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	880.05	0.0004	P	11.2
2	☐	2.000	2.088	59388.56	0.0245	P	2.3
3	☐	5.000	5.183	146775.88	0.0603	P	1.0
4	☐	10.000	10.284	290695.15	0.1192	P	0.6
5	☐	100.000	101.373	2834415.27	1.1721	A	1.9
6	☐	200.000	199.294	5489292.63	2.3040	A	1.9

y = 0.0116 * x + 3.6115E-004
R = 1.0000
DL = 0.01054
BEC = 0.03124

Weight: <None>
Min Conc: <None>

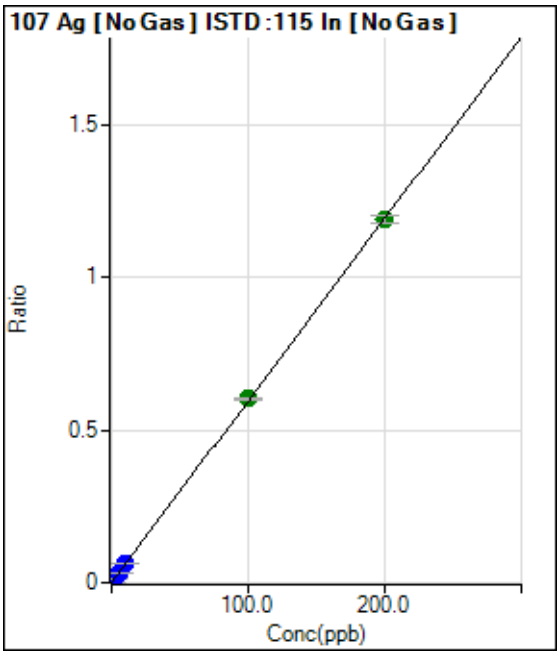


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.35	0.0002	P	10.7
2	☐	2.000	1.932	11625.27	0.0048	P	6.2
3	☐	5.000	4.829	28520.84	0.0117	P	1.7
4	☐	10.000	9.721	57019.03	0.0234	P	1.3
5	☐	100.000	98.851	570836.59	0.2361	P	0.6
6	☐	200.000	200.593	1140750.22	0.4788	A	1.6

y = 0.0024 * x + 1.9009E-004
R = 1.0000
DL = 0.0255
BEC = 0.07966

Weight: <None>
Min Conc: <None>

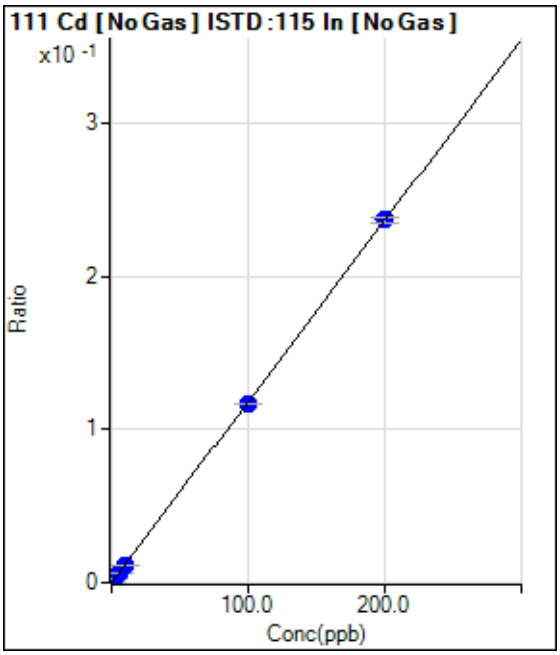
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0000	P	16.3
2	☐	2.000	2.002	28978.95	0.0120	P	1.7
3	☐	5.000	5.075	73631.21	0.0302	P	0.4
4	☐	10.000	10.155	147391.43	0.0605	P	1.1
5	☐	100.000	101.021	1453248.62	0.6010	A	1.2
6	☐	200.000	199.480	2826762.36	1.1866	A	2.0

y = 0.0059 * x + 4.6686E-005
R = 1.0000
DL = 0.003828
BEC = 0.007848

Weight: <None>
Min Conc: <None>

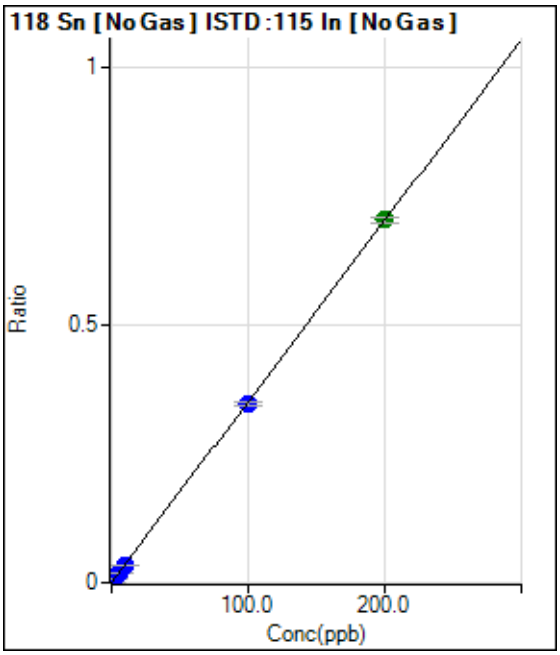


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.985	5687.82	0.0023	P	1.5
3	☐	5.000	4.950	14232.26	0.0058	P	1.1
4	☐	10.000	9.911	28516.83	0.0117	P	3.2
5	☐	100.000	98.981	282441.10	0.1168	P	0.6
6	☐	200.000	200.515	563653.33	0.2366	P	1.8

y = 0.0012 * x + 2.7096E-006
R = 1.0000
DL = 0.01193
BEC = 0.002296

Weight: <None>
Min Conc: <None>

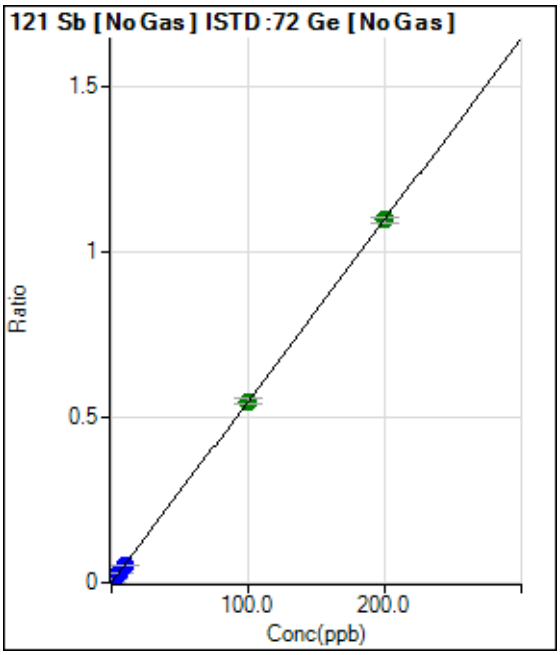
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	903.39	0.0004	P	14.1
2	☐	2.000	2.000	17902.46	0.0074	P	5.0
3	☐	5.000	4.967	43335.30	0.0178	P	2.3
4	☐	10.000	9.789	84628.90	0.0347	P	1.1
5	☐	100.000	99.014	840764.26	0.3477	P	2.0
6	☐	200.000	200.504	1676793.83	0.7037	A	1.9

y = 0.0035 * x + 3.7196E-004
R = 1.0000
DL = 0.0447
BEC = 0.106

Weight: <None>
Min Conc: <None>

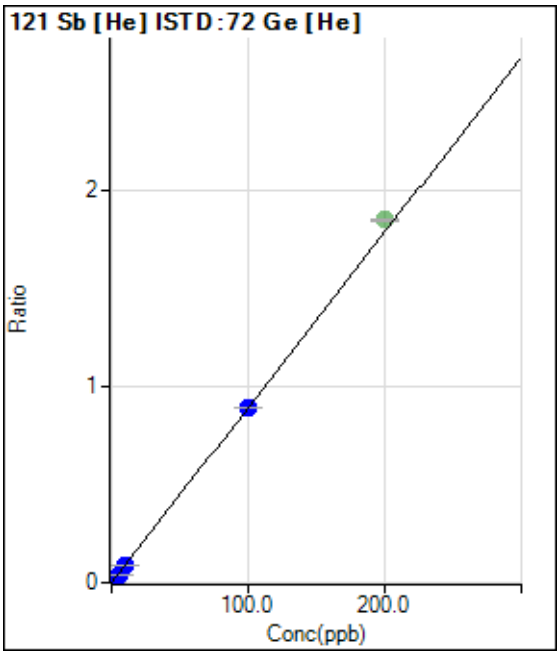


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0001	P	34.8
2	☐	2.000	1.955	24379.61	0.0108	P	3.7
3	☐	5.000	4.956	61293.32	0.0272	P	3.2
4	☐	10.000	9.879	121560.38	0.0542	P	1.1
5	☐	100.000	100.073	1235981.80	0.5484	A	2.9
6	☐	200.000	199.971	2499665.53	1.0959	A	1.8

y = 0.0055 * x + 5.2340E-005
R = 1.0000
DL = 0.009982
BEC = 0.009551

Weight: <None>
Min Conc: <None>

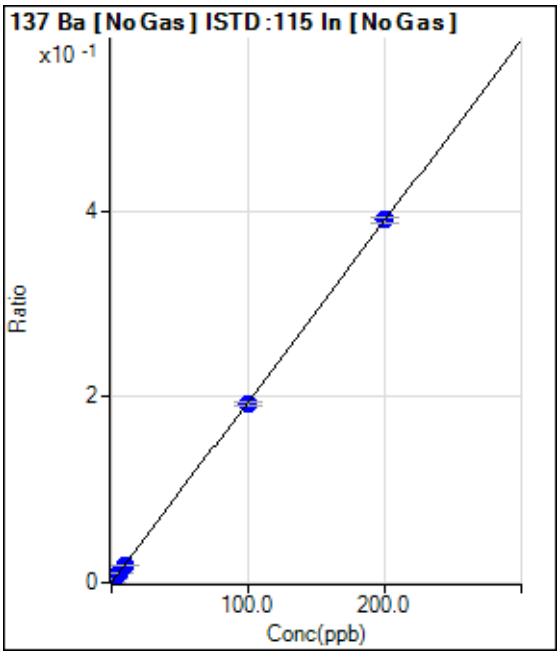
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	46.2
2	☐	2.000	1.839	11822.23	0.0165	P	4.3
3	☐	5.000	4.704	30075.02	0.0421	P	1.3
4	☐	10.000	9.548	60730.78	0.0855	P	4.5
5	☐	100.000	100.063	631875.70	0.8956	P	0.6
6	☑	200.000		1298993.31	1.8542	A	0.8

y = 0.0089 * x + 4.7053E-005
R = 1.0000
DL = 0.007289
BEC = 0.005257

Weight: <None>
Min Conc: <None>

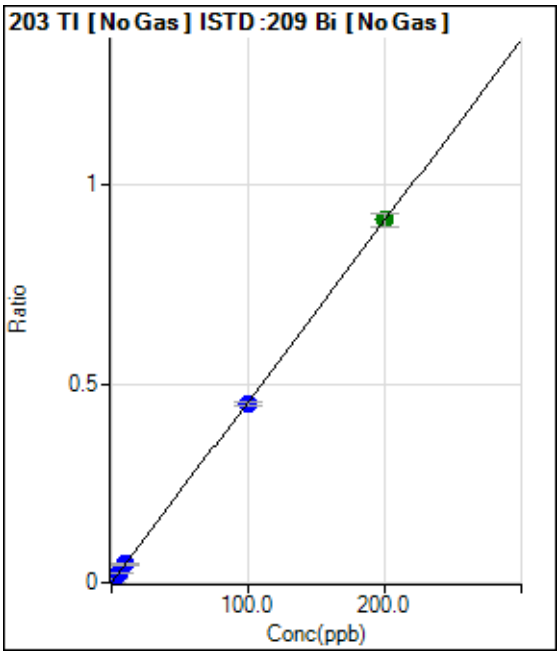


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0001	P	3.5
2	☐	2.000	2.067	9920.63	0.0041	P	1.9
3	☐	5.000	5.047	24082.71	0.0099	P	0.7
4	☐	10.000	9.664	45992.01	0.0189	P	2.0
5	☐	100.000	98.892	465302.65	0.1924	P	1.3
6	☐	200.000	200.569	929510.27	0.3902	P	1.8

y = 0.0019 * x + 6.9793E-005
R = 1.0000
DL = 0.003764
BEC = 0.03588

Weight: <None>
Min Conc: <None>

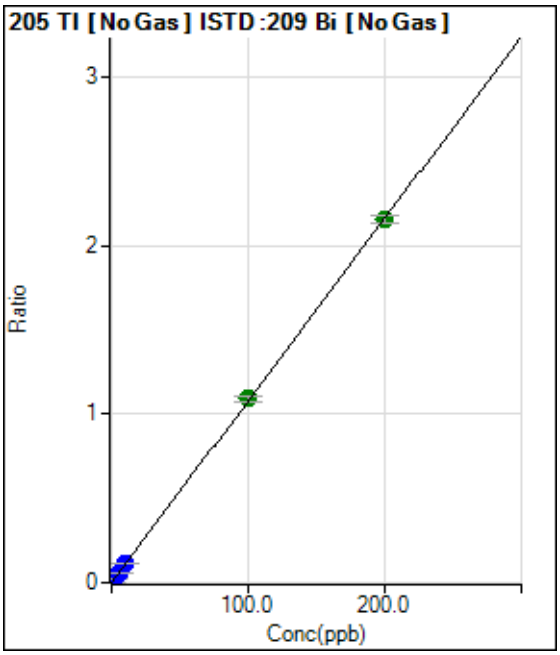
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0000	P	2.8
2	☐	2.000	2.086	19852.63	0.0095	P	3.9
3	☐	5.000	5.269	50796.74	0.0240	P	4.3
4	☐	10.000	10.294	98416.34	0.0468	P	4.4
5	☐	100.000	98.913	933216.86	0.4497	P	2.9
6	☐	200.000	200.521	1852418.15	0.9116	A	3.4

y = 0.0045 * x + 3.8817E-005
R = 1.0000
DL = 0.0007077
BEC = 0.008538

Weight: <None>
Min Conc: <None>

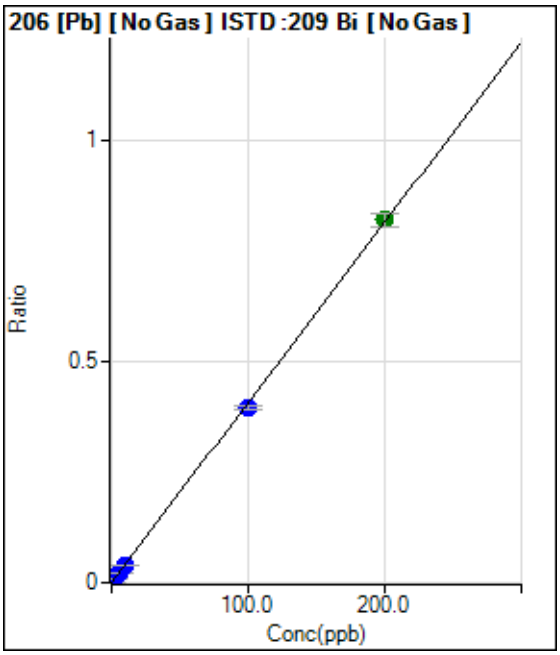


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.01	0.0001	P	21.2
2	☐	2.000	2.137	48390.90	0.0232	P	2.7
3	☐	5.000	5.289	121330.35	0.0573	P	3.0
4	☐	10.000	10.378	236108.01	0.1123	P	1.5
5	☐	100.000	101.145	2269245.59	1.0936	A	3.2
6	☐	200.000	199.400	4381258.68	2.1558	A	2.2

y = 0.0108 * x + 1.0674E-004
R = 1.0000
DL = 0.006268
BEC = 0.009873

Weight: <None>
Min Conc: <None>

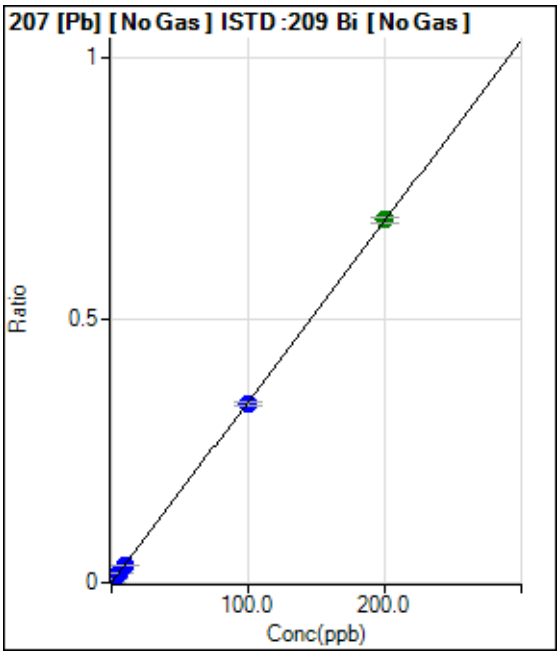
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0001	P	29.4
2	☐	2.000	1.969	16905.04	0.0081	P	3.1
3	☐	5.000	4.828	41807.45	0.0197	P	1.7
4	☐	10.000	9.545	81777.65	0.0389	P	1.8
5	☐	100.000	97.044	818700.56	0.3945	P	2.5
6	☐	200.000	201.505	1664448.36	0.8191	A	3.5

y = 0.0041 * x + 1.0549E-004
R = 0.9998
DL = 0.02287
BEC = 0.02595

Weight: <None>
Min Conc: <None>

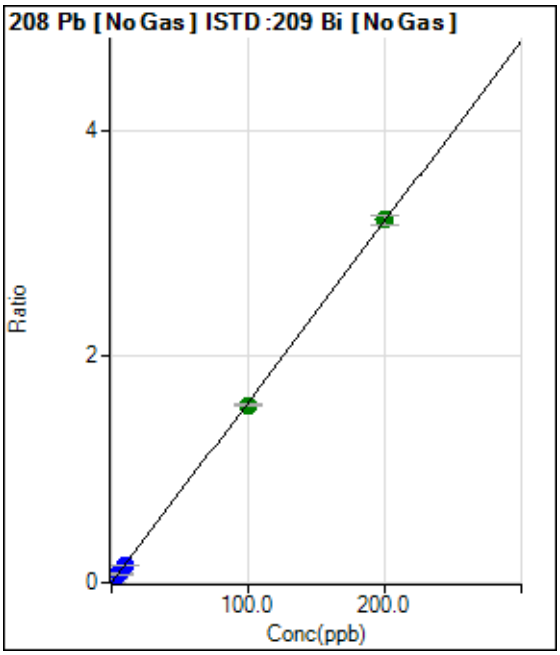


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	22.4
2	☐	2.000	1.914	13891.33	0.0067	P	6.1
3	☐	5.000	4.966	36356.88	0.0172	P	2.9
4	☐	10.000	9.703	70302.15	0.0334	P	3.3
5	☐	100.000	98.650	704159.34	0.3393	P	1.6
6	☐	200.000	200.691	1402947.58	0.6902	A	1.4

y = 0.0034 * x + 8.5619E-005
R = 1.0000
DL = 0.01674
BEC = 0.0249

Weight: <None>
Min Conc: <None>

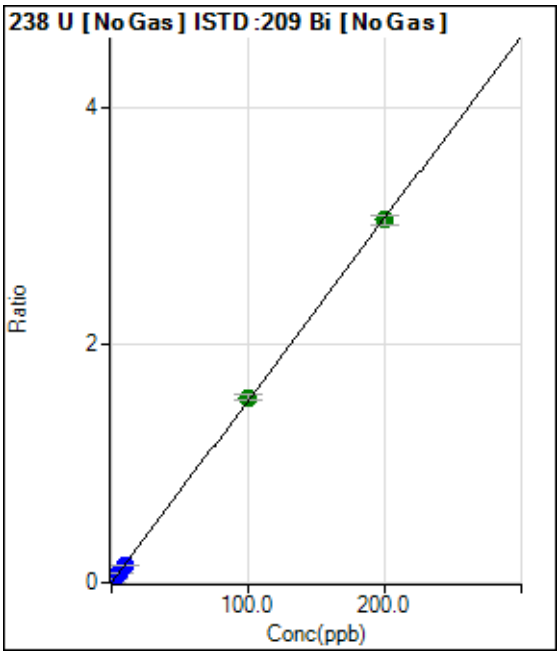
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	800.03	0.0004	P	12.0
2	☐	2.000	1.956	65866.11	0.0316	P	3.9
3	☐	5.000	4.843	164442.68	0.0777	P	3.7
4	☐	10.000	9.691	325881.24	0.1550	P	2.3
5	☐	100.000	98.307	3256170.60	1.5689	A	1.2
6	☐	200.000	200.866	6514100.27	3.2052	A	2.3

y = 0.0160 * x + 3.8807E-004
R = 1.0000
DL = 0.008776
BEC = 0.02432

Weight: <None>
Min Conc: <None>

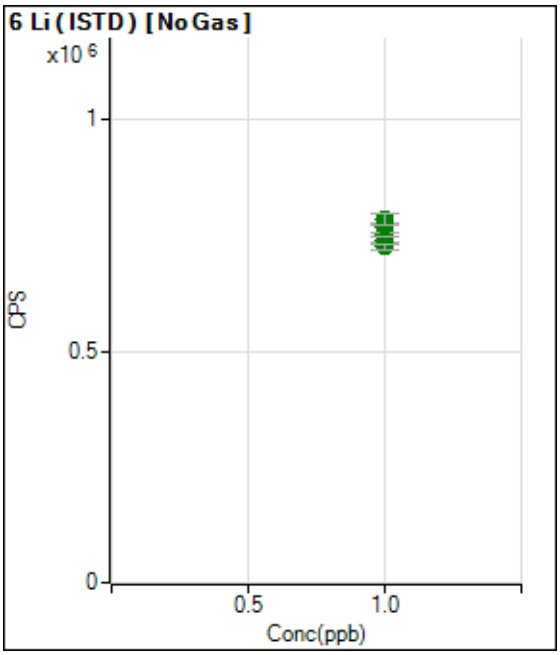


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	37.5
2	☐	2.000	1.995	63856.93	0.0306	P	3.6
3	☐	5.000	4.843	157357.60	0.0743	P	3.5
4	☐	10.000	9.683	312332.41	0.1486	P	1.9
5	☐	100.000	101.711	3237840.47	1.5603	A	2.5
6	☐	200.000	199.164	6208769.28	3.0553	A	2.7

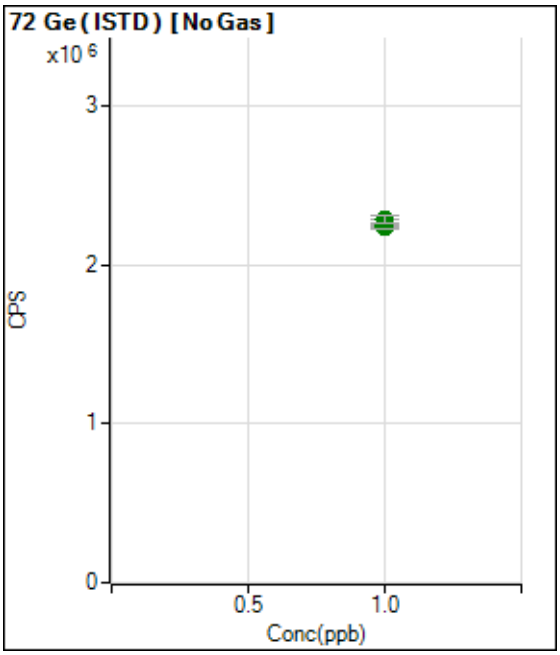
y = 0.0153 * x + 2.1147E-005
R = 0.9999
DL = 0.001552
BEC = 0.001378

Weight: <None>
Min Conc: <None>

Calibration for 022_ICV.d

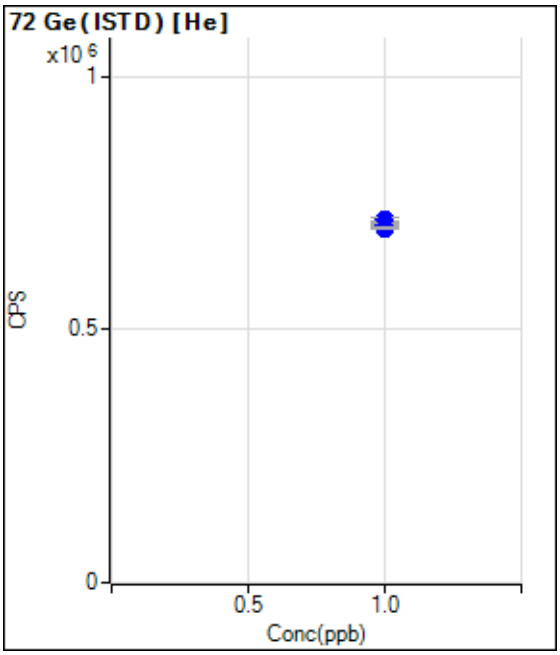


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		768064.43		A	2.7
2	☐	1.000		766624.48		A	2.2
3	☐	1.000		752346.23		A	1.4
4	☐	1.000		783843.21		A	3.2
5	☐	1.000		740801.19		A	1.5
6	☐	1.000		725877.53		A	1.5

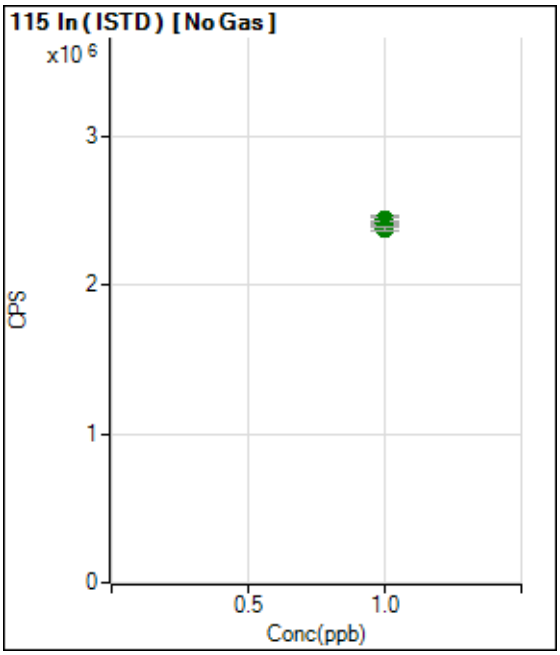


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2282452.26		A	2.4
2	☐	1.000		2265597.10		A	2.1
3	☐	1.000		2253596.27		A	2.7
4	☐	1.000		2243487.16		A	2.1
5	☐	1.000		2254657.26		A	2.5
6	☐	1.000		2281511.37		A	2.1

Calibration for 022_ICV.d

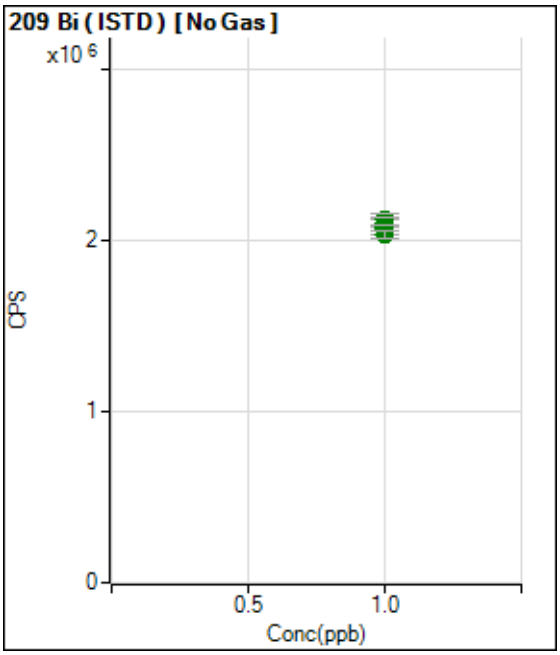


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		709414.55		P	0.5
2	☐	1.000		716680.67		P	1.9
3	☐	1.000		713498.40		P	2.2
4	☐	1.000		710463.32		P	1.1
5	☐	1.000		705566.92		P	1.3
6	☐	1.000		700581.21		P	0.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2434567.89		A	2.7
2	☐	1.000		2425307.25		A	3.2
3	☐	1.000		2435642.85		A	1.5
4	☐	1.000		2438173.13		A	1.0
5	☐	1.000		2418262.03		A	1.0
6	☐	1.000		2382514.54		A	1.1

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2062007.06		A	2.8
2	☐	1.000		2086281.90		A	3.3
3	☐	1.000		2119357.73		A	3.7
4	☐	1.000		2102958.14		A	2.8
5	☐	1.000		2075735.44		A	1.7
6	☐	1.000		2032943.30		A	2.2

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	015CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:02:17-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	51501	0.01
Be	9	1	No Gas	15	384.90
V	51	2	He	3111	0.12
Cr	52	2	He	15836	0.02
Fe	56	2	He	17375	0.02
Se	78	2	He	279	2.39
As	75	2	He	277	3.48
Ca	44	2	He	1147	1.30
Na	23	2	He	57810	0.00
Mg	24	2	He	487	4.88
K	39	2	He	190543	0.00
Mn	55	2	He	833	2.02
Co	59	2	He	80	41.34
Ni	60	2	He	313	3.27
Cu	63	2	He	2210	0.38
Zn	66	2	He	380	7.30
Al	27	2	He	643	2.05
B	11	1	No Gas	50402	0.00
Al	27	1	No Gas	15516	0.01
Si	28	1	No Gas	244671	0.00
Ag	107	1	No Gas	113	11.89
Cd	111	1	No Gas	7	2598.08
Sr	88	1	No Gas	880	1.46
Mo	95	1	No Gas	463	2.73
Sn	118	1	No Gas	903	1.25
Sb	121	1	No Gas	120	30.27
Ba	137	1	No Gas	170	3.46
Tl	205	1	No Gas	220	9.47
Tl	203	1	No Gas	80	0.00
Pb	208	1	No Gas	800	1.49
U	238	1	No Gas	43	81.35
Ca	43	2	He	37	113.62
Sb	121	2	He	33	137.48
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	5158	0.08

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	768064	2.67
Ge	72	2	He	709415	0.53
Ge	72	1	No Gas	2282452	2.42
In	115	1	No Gas	2434568	2.67

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	2062007	2.80

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	016CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:04:15-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	6313	0.10
V	51	2	He	15796	0.01
Cr	52	2	He	29616	0.01
Fe	56	2	He	1275258	0.00
Se	78	2	He	498	1.72
As	75	2	He	2470	0.12
Ca	44	2	He	11245	0.04
Na	23	2	He	290640	0.00
Mg	24	2	He	142567	0.00
K	39	2	He	391470	0.00
Mn	55	2	He	11939	0.01
Co	59	2	He	18757	0.01
Ni	60	2	He	4874	0.07
Cu	63	2	He	13720	0.01
Zn	66	2	He	3040	0.33
Al	27	2	He	1450	0.31
B	11	1	No Gas	68607	0.00
Al	27	1	No Gas	42171	0.01
Si	28	1	No Gas	315596	0.00
Ag	107	1	No Gas	28979	0.01
Cd	111	1	No Gas	5688	0.05
Sr	88	1	No Gas	59389	0.00
Mo	95	1	No Gas	11625	0.03
Sn	118	1	No Gas	17902	0.02
Sb	121	1	No Gas	24380	0.01
Ba	137	1	No Gas	9921	0.04
Tl	205	1	No Gas	48391	0.00
Tl	203	1	No Gas	19853	0.01
Pb	208	1	No Gas	65866	0.00
U	238	1	No Gas	63857	0.00
Ca	43	2	He	590	0.29
Sb	121	2	He	11822	0.02
Cu	63	1	No Gas	27735	0.01

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	766624	2.24	768064	99.81	70	120	
Ge	72	2	He	716681	1.88	709415	101.02	70	120	
Ge	72	1	No Gas	2265597	2.15	2282452	99.26	70	120	

Calibration Standard Report

In	115	1	No Gas	2425307	3.20	2434568	99.62	70	120	
Bi	209	1	No Gas	2086282	3.35	2062007	101.18	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:06:11-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	16034	0.01
V	51	2	He	34912	0.00
Cr	52	2	He	51889	0.00
Fe	56	2	He	3149040	0.00
Se	78	2	He	798	0.90
As	75	2	He	5766	0.04
Ca	44	2	He	25504	0.02
Na	23	2	He	643343	0.00
Mg	24	2	He	358468	0.00
K	39	2	He	710706	0.00
Mn	55	2	He	28944	0.01
Co	59	2	He	47152	0.01
Ni	60	2	He	12266	0.02
Cu	63	2	He	31400	0.00
Zn	66	2	He	6692	0.02
Al	27	2	He	3137	0.18
B	11	1	No Gas	95905	0.00
Al	27	1	No Gas	89512	0.00
Si	28	1	No Gas	434500	0.00
Ag	107	1	No Gas	73631	0.00
Cd	111	1	No Gas	14232	0.00
Sr	88	1	No Gas	146776	0.00
Mo	95	1	No Gas	28521	0.00
Sn	118	1	No Gas	43335	0.00
Sb	121	1	No Gas	61293	0.00
Ba	137	1	No Gas	24083	0.01
Tl	205	1	No Gas	121330	0.00
Tl	203	1	No Gas	50797	0.00
Pb	208	1	No Gas	164443	0.00
U	238	1	No Gas	157358	0.00
Ca	43	2	He	1513	0.15
Sb	121	2	He	30075	0.01
Cu	63	1	No Gas	63395	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	752346	1.42	768064	97.95	70	120	
Ge	72	2	He	713498	2.25	709415	100.58	70	120	
Ge	72	1	No Gas	2253596	2.72	2282452	98.74	70	120	

Calibration Standard Report

In	115	1	No Gas	2435643	1.46	2434568	100.04	70	120	
Bi	209	1	No Gas	2119358	3.74	2062007	102.78	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:08:19-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	32733	0.01
V	51	2	He	65038	0.00
Cr	52	2	He	85852	0.00
Fe	56	2	He	5968639	0.00
Se	78	2	He	1387	0.20
As	75	2	He	11279	0.02
Ca	44	2	He	49205	0.01
Na	23	2	He	1180362	0.00
Mg	24	2	He	705444	0.00
K	39	2	He	1229510	0.00
Mn	55	2	He	55570	0.00
Co	59	2	He	92017	0.00
Ni	60	2	He	22883	0.01
Cu	63	2	He	58516	0.00
Zn	66	2	He	12830	0.01
Al	27	2	He	5541	0.07
B	11	1	No Gas	141996	0.00
Al	27	1	No Gas	156716	0.00
Si	28	1	No Gas	612676	0.00
Ag	107	1	No Gas	147391	0.00
Cd	111	1	No Gas	28517	0.01
Sr	88	1	No Gas	290695	0.00
Mo	95	1	No Gas	57019	0.00
Sn	118	1	No Gas	84629	0.00
Sb	121	1	No Gas	121560	0.00
Ba	137	1	No Gas	45992	0.00
Tl	205	1	No Gas	236108	0.00
Tl	203	1	No Gas	98416	0.00
Pb	208	1	No Gas	325881	0.00
U	238	1	No Gas	312332	0.00
Ca	43	2	He	2854	0.05
Sb	121	2	He	60731	0.01
Cu	63	1	No Gas	118796	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	783843	3.19	768064	102.05	70	120	
Ge	72	2	He	710463	1.15	709415	100.15	70	120	
Ge	72	1	No Gas	2243487	2.06	2282452	98.29	70	120	

Calibration Standard Report

In	115	1	No Gas	2438173	1.01	2434568	100.15	70	120	
Bi	209	1	No Gas	2102958	2.82	2062007	101.99	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:10:14-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	326625	0.00
V	51	2	He	641648	0.00
Cr	52	2	He	720963	0.00
Fe	56	2	He	61264951	0.00
Se	78	2	He	12153	0.01
As	75	2	He	111948	0.00
Ca	44	2	He	494648	0.00
Na	23	2	He	11232543	0.00
Mg	24	2	He	6676217	0.00
K	39	2	He	10154039	0.00
Mn	55	2	He	565269	0.00
Co	59	2	He	933318	0.00
Ni	60	2	He	232683	0.00
Cu	63	2	He	570647	0.00
Zn	66	2	He	129160	0.00
Al	27	2	He	49930	0.00
B	11	1	No Gas	963835	0.00
Al	27	1	No Gas	1416561	0.00
Si	28	1	No Gas	3786982	0.00
Ag	107	1	No Gas	1453249	0.00
Cd	111	1	No Gas	282441	0.00
Sr	88	1	No Gas	2834415	0.00
Mo	95	1	No Gas	570837	0.00
Sn	118	1	No Gas	840764	0.00
Sb	121	1	No Gas	1235982	0.00
Ba	137	1	No Gas	465303	0.00
Tl	205	1	No Gas	2269246	0.00
Tl	203	1	No Gas	933217	0.00
Pb	208	1	No Gas	3256171	0.00
U	238	1	No Gas	3237840	0.00
Ca	43	2	He	29398	0.01
Sb	121	2	He	631876	0.00
Cu	63	1	No Gas	1149047	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	740801	1.51	768064	96.45	70	120	
Ge	72	2	He	705567	1.27	709415	99.46	70	120	
Ge	72	1	No Gas	2254657	2.52	2282452	98.78	70	120	

Calibration Standard Report

In	115	1	No Gas	2418262	0.99	2434568	99.33	70	120	
Bi	209	1	No Gas	2075735	1.75	2062007	100.67	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	020CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:12:07-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	657980	0.00
V	51	2	He	1273617	0.00
Cr	52	2	He	1407081	0.00
Fe	56	2	He	119960748	0.00
Se	78	2	He	23969	0.00
As	75	2	He	224498	0.00
Ca	44	2	He	959459	0.00
Na	23	2	He	22199528	0.00
Mg	24	2	He	13271985	0.00
K	39	2	He	20100327	0.00
Mn	55	2	He	1098130	0.00
Co	59	2	He	1877430	0.00
Ni	60	2	He	450068	0.00
Cu	63	2	He	1131335	0.00
Zn	66	2	He	251054	0.00
Al	27	2	He	97860	0.00
B	11	1	No Gas	1925562	0.00
Al	27	1	No Gas	2693190	0.00
Si	28	1	No Gas	7210365	0.00
Ag	107	1	No Gas	2826762	0.00
Cd	111	1	No Gas	563653	0.00
Sr	88	1	No Gas	5489293	0.00
Mo	95	1	No Gas	1140750	0.00
Sn	118	1	No Gas	1676794	0.00
Sb	121	1	No Gas	2499666	0.00
Ba	137	1	No Gas	929510	0.00
Tl	205	1	No Gas	4381259	0.00
Tl	203	1	No Gas	1852418	0.00
Pb	208	1	No Gas	6514100	0.00
U	238	1	No Gas	6208769	0.00
Ca	43	2	He	58244	0.00
Sb	121	2	He	1298993	0.00
Cu	63	1	No Gas	2227422	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	725878	1.47	768064	94.51	70	120	
Ge	72	2	He	700581	0.92	709415	98.75	70	120	
Ge	72	1	No Gas	2281511	2.08	2282452	99.96	70	120	

Calibration Standard Report

In	115	1	No Gas	2382515	1.11	2434568	97.86	70	120	
Bi	209	1	No Gas	2032943	2.16	2062007	98.59	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	022_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:18:40-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	100.728	5.874	1054143	3.09	100	100.7	90	110	
Be	9	1	No Gas	99.339	3.862	326219	1.27	100	99.3	90	110	
V	51	2	He	96.536	0.884	628875	0.80	100	96.5	90	110	
Cr	52	2	He	96.572	1.238	702711	0.57	100	96.6	90	110	
Fe	56	2	He	9757.482	2.186	59916509	0.97	10000	97.6	90	110	
Se	78	2	He	94.041	1.905	11640	0.93	100	94.0	90	110	
As	75	2	He	96.027	1.323	109930	0.94	100	96.0	90	110	
Ca	44	2	He	9845.519	1.351	484919	0.36	10000	98.5	90	110	
Na	23	2	He	9600.424	0.769	10914077	1.74	10000	96.0	90	110	
Mg	24	2	He	9692.126	1.244	6565114	0.94	10000	96.9	90	110	
K	39	2	He	9775.407	1.113	10116253	1.76	10000	97.8	90	110	
Mn	55	2	He	98.222	1.343	553291	0.53	100	98.2	90	110	
Co	59	2	He	95.214	2.119	909935	0.82	100	95.2	90	110	
Ni	60	2	He	98.251	2.390	227015	1.11	100	98.3	90	110	
Cu	63	2	He	95.769	1.266	554103	0.41	100	95.8	90	110	
Zn	66	2	He	98.521	0.557	126953	1.10	100	98.5	90	110	
Al	27	2	He	95.928	1.649	48314	1.05	100	95.9	90	110	
B	11	1	No Gas	497.235	3.954	964014	1.66	500	99.4	90	110	
Al	27	1	No Gas	102.394	1.924	1396825	1.86	100	102.4	90	110	
Si	28	1	No Gas	503.949	3.407	3759470	0.73	500	100.8	90	110	
Ag	107	1	No Gas	100.798	0.919	1432969	0.28	100	100.8	90	110	
Cd	111	1	No Gas	97.941	1.728	276170	0.62	100	97.9	90	110	
Sr	88	1	No Gas	100.057	2.287	2764480	1.19	100	100.1	90	110	
Mo	95	1	No Gas	97.361	1.755	555584	0.57	100	97.4	90	110	
Sn	118	1	No Gas	97.636	1.156	819407	0.94	100	97.6	90	110	
Sb	121	1	No Gas	98.682	3.508	1227765	1.17	100	98.7	90	110	
Ba	137	1	No Gas	97.543	0.618	453560	0.64	100	97.5	90	110	
Tl	205	1	No Gas	99.697	2.729	2198723	1.54	100	99.7	90	110	
Tl	203	1	No Gas	99.049	2.242	918588	0.63	100	99.0	90	110	
Pb	208	1	No Gas	97.048	1.194	3159629	0.63	100	97.0	90	110	
U	238	1	No Gas	99.509	0.599	3114419	1.39	100	99.5	90	110	
Ca	43	2	He	9545.179	1.767	28400	0.47	10000	95.5	90	110	
Sb	121	2	He	95.850	0.452	613550	0.94	100	95.9	90	110	
Ti	47	2	He	96.939	1.957	25761	2.55	100	96.9	90	110	
Cu	63	1	No Gas	99.111	1.920	1110621	0.71	100	99.1	90	110	
Se	82	1	No Gas	97.679	1.134	20531	2.21	100	97.7	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	745627	2.89	768064	97.08	70	120	
Ge	72	2	He	715207	1.30	709415	100.82	70	120	
Ge	72	1	No Gas	2271472	2.47	2282452	99.52	70	120	
In	115	1	No Gas	2389918	1.20	2434568	98.17	70	120	
Bi	209	1	No Gas	2040297	1.68	2062007	98.95	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	024LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:22:39-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	015CALB.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	1.943	1.943	4.72	74320	0.00	2	
Be	9	1	No Gas	1.969	1.969	2.78	6942	0.03	2	
V	51	2	He	1.821	1.821	1.59	15171	0.01	2	
Cr	52	2	He	2.007	2.007	6.96	30711	0.01	2	
Fe	56	2	He	208.911	208.911	0.58	1320330	0.02	200	
Se	78	2	He	1.549	1.549	14.66	475	0.33	2	
As	75	2	He	1.938	1.938	4.05	2531	0.08	2	
Ca	44	2	He	192.337	192.337	6.32	10771	1.79	200	
Na	23	2	He	205.581	205.581	0.33	295237	0.07	200	
Mg	24	2	He	212.590	212.590	0.85	146726	0.14	200	
K	39	2	He	201.165	201.165	1.32	402457	0.05	200	
Mn	55	2	He	2.041	2.041	2.65	12513	0.02	2	
Co	59	2	He	1.953	1.953	1.83	19034	0.01	2	
Ni	60	2	He	1.956	1.956	6.52	4904	0.04	2	
Cu	63	2	He	1.940	1.940	1.62	13614	0.01	2	
Zn	66	2	He	1.910	1.910	4.75	2880	0.07	2	
Al	27	2	He	1.728	1.728	12.43	1530	0.11	2	
B	11	1	No Gas	10.880	10.880	7.69	73851	0.01	10	
Al	27	1	No Gas	1.989	1.989	1.77	43064	0.00	2	
Si	28	1	No Gas	9.832	9.832	1.82	317990	0.00	10	
Ag	107	1	No Gas	2.078	2.078	1.44	30910	0.01	2	
Cd	111	1	No Gas	1.938	1.938	4.64	5703	0.03	2	
Sr	88	1	No Gas	2.048	2.048	1.44	59887	0.00	2	
Mo	95	1	No Gas	1.943	1.943	1.55	12022	0.02	2	
Sn	118	1	No Gas	1.952	1.952	1.31	17989	0.01	2	
Sb	121	1	No Gas	1.965	1.965	2.65	25038	0.01	2	
Ba	137	1	No Gas	1.967	1.967	1.19	9707	0.02	2	
Tl	205	1	No Gas	2.203	2.203	1.33	50088	0.00	2	
Tl	203	1	No Gas	2.207	2.207	0.41	21091	0.01	2	
Pb	208	1	No Gas	2.020	2.020	3.86	68277	0.00	2	
U	238	1	No Gas	1.959	1.959	1.57	62976	0.00	2	
Ca	43	2	He	207.315	207.315	23.58	663	31.25	200	
Sb	121	2	He	1.852	1.852	4.09	12069	0.02	2	
Ti	47	2	He	1.667	1.667	13.59	467	0.36	200	
Cu	63	1	No Gas	1.987	1.987	2.14	27809	0.01	2	
Se	82	1	No Gas	2.832	2.832	12.98	548	0.52	2	NewName 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	798594	2.91	768064	103.97	70	120	
Ge	72	2	He	726268	0.17	709415	102.38	70	120	
Ge	72	1	No Gas	2313260	0.30	2282452	101.35	70	120	
In	115	1	No Gas	2491542	1.15	2434568	102.34	70	120	
Bi	209	1	No Gas	2093870	0.66	2062007	101.55	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	025LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:24:37-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	015CALB.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	5.178	5.178	1.97	104917	0.00	5	
Be	9	1	No Gas	4.790	4.790	2.09	16253	0.03	5	
V	51	2	He	4.774	4.774	1.93	34415	0.01	5	
Cr	52	2	He	4.844	4.844	1.82	50895	0.01	5	
Fe	56	2	He	508.106	508.106	1.85	3166893	0.02	500	
Se	78	2	He	4.796	4.796	5.87	869	0.55	5	
As	75	2	He	4.868	4.868	1.37	5895	0.08	5	
Ca	44	2	He	503.559	503.559	2.24	26145	1.93	500	
Na	23	2	He	511.507	511.507	2.23	642680	0.08	500	
Mg	24	2	He	525.244	525.244	1.81	359663	0.15	500	
K	39	2	He	512.048	512.048	1.57	718711	0.07	500	
Mn	55	2	He	4.968	4.968	1.99	29061	0.02	5	
Co	59	2	He	4.812	4.812	0.76	46516	0.01	5	
Ni	60	2	He	4.991	4.991	3.60	11945	0.04	5	
Cu	63	2	He	4.829	4.829	2.62	30344	0.02	5	
Zn	66	2	He	4.904	4.904	2.17	6748	0.07	5	
Al	27	2	He	5.073	5.073	8.55	3200	0.16	5	
B	11	1	No Gas	25.483	25.483	3.04	98914	0.03	25	
Al	27	1	No Gas	5.526	5.526	1.17	90027	0.01	5	
Si	28	1	No Gas	26.595	26.595	2.52	429323	0.01	25	
Ag	107	1	No Gas	5.048	5.048	3.14	73957	0.01	5	
Cd	111	1	No Gas	4.777	4.777	3.52	13870	0.03	5	
Sr	88	1	No Gas	5.119	5.119	2.69	146405	0.00	5	
Mo	95	1	No Gas	4.828	4.828	2.88	28795	0.02	5	
Sn	118	1	No Gas	4.836	4.836	2.31	42640	0.01	5	
Sb	121	1	No Gas	4.865	4.865	0.96	60687	0.01	5	
Ba	137	1	No Gas	4.896	4.896	2.18	23592	0.02	5	
Tl	205	1	No Gas	5.171	5.171	1.69	119736	0.00	5	
Tl	203	1	No Gas	5.091	5.091	2.85	49549	0.01	5	
Pb	208	1	No Gas	4.794	4.794	2.26	164342	0.00	5	
U	238	1	No Gas	4.812	4.812	1.43	157863	0.00	5	
Ca	43	2	He	514.148	514.148	6.59	1580	32.54	500	
Sb	121	2	He	4.720	4.720	3.25	30526	0.02	5	
Ti	47	2	He	4.637	4.637	2.12	1260	0.37	5	
Cu	63	1	No Gas	5.043	5.043	2.29	61406	0.01	5	
Se	82	1	No Gas	5.681	5.681	7.95	1137	0.50	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	769478	3.05	768064	100.18	70	120	
Ge	72	2	He	722077	1.25	709415	101.78	70	120	
Ge	72	1	No Gas	2272073	1.45	2282452	99.55	70	120	

Sample Report

In	115	1	No Gas	2460447	3.30	2434568	101.06	70	120	
Bi	209	1	No Gas	2138162	2.37	2062007	103.69	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	026_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:26:44-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	Upper Limit	QC Flag
Li	7	1	No Gas	0.081	53.6	52891	0.9	0.5	
Be	9	1	No Gas	0.004	36.6	30	16.7	0.5	
V	51	2	He	-0.048	-26.7	2871	2.5	2.5	
Cr	52	2	He	0.257	28.7	18079	3.1	2.5	
Fe	56	2	He	2.099	8.4	30899	4.2	100	
Se	78	2	He	-0.397	-54.5	237	11.0	1	
As	75	2	He	0.004	893.6	288	13.5	2.5	
Ca	44	2	He	14.291	30.8	1887	11.2	100	
Na	23	2	He	2.171	17.6	61706	0.4	100	
Mg	24	2	He	1.073	15.0	1237	8.4	100	
K	39	2	He	-0.217	-577.5	194947	1.0	100	
Mn	55	2	He	0.746	1.8	5118	1.6	2.5	
Co	59	2	He	0.011	44.8	193	26.0	2.5	
Ni	60	2	He	0.071	45.5	487	15.6	2.5	
Cu	63	2	He	0.201	4.5	3440	2.0	1	
Zn	66	2	He	0.899	11.0	1563	8.7	2.5	
Al	27	2	He	1.179	27.6	1253	12.8	5	
B	11	1	No Gas	-1.108	-31.5	48813	1.3	0.5	
Al	27	1	No Gas	1.539	6.8	36963	2.0	5	
Si	28	1	No Gas	1.489	169.1	259053	3.9	10	
Ag	107	1	No Gas	0.014	20.5	323	14.3	2.5	
Cd	111	1	No Gas	0.002	240.9	12	107.5	1	
Sr	88	1	No Gas	0.041	19.2	2054	10.7	2.5	
Mo	95	1	No Gas	0.022	54.8	597	10.1	2.5	
Sn	118	1	No Gas	0.131	25.9	2040	12.4	5	
Sb	121	1	No Gas	0.052	11.2	777	8.2	2.5	
Ba	137	1	No Gas	0.238	12.8	1310	12.3	2.5	
Tl	205	1	No Gas	0.025	7.6	803	6.1	1	
Tl	203	1	No Gas	0.027	15.5	337	12.4	1	
Pb	208	1	No Gas	0.010	27.4	1150	7.4	2.5	
U	238	1	No Gas	0.010	26.5	377	24.1	2.5	
Ca	43	2	He	16.317	113.1	87	63.5	100	
Sb	121	2	He	0.053	22.1	380	19.9	2.5	
Ti	47	2	He	0.011	343.9	20	50.0	2.5	
Se	82	1	No Gas	0.307	48.0	5	699.3	1	

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	776037	1.76	768064	101.04	70	120	

Initial Calibration Blank (ICB) Report

Ge	72	2	He	726617	0.59	709415	102.42	70	120	
Ge	72	1	No Gas	2320106	3.51	2282452	101.65	70	120	
In	115	1	No Gas	2454131	2.22	2434568	100.80	70	120	
Bi	209	1	No Gas	2106981	0.74	2062007	102.18	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	028ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:34:47-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	0.350	12.5	54411	3.2	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.000	1658.5	15	33.3	0	ICSA Main CR1 Failed
V	51	2	He	0.174	15.2	4128	3.9	0	ICSA Main CR1 Failed
Cr	52	2	He	1.563	4.7	26195	1.9	0	ICSA Main CR1 Failed
Fe	56	2	He	98724.678	1.2	586354338	1.0	0	
Se	78	2	He	-0.158	-122.9	253	8.7	0	ICSA Main CR1 Failed
As	75	2	He	0.305	6.3	607	3.3	0	ICSA Main CR1 Failed
Ca	44	2	He	95445.923	1.6	4538131	1.6	0	
Na	23	2	He	97058.040	0.9	106214805	0.7	0	
Mg	24	2	He	98791.109	1.1	64730607	0.9	0	
K	39	2	He	99551.763	1.6	97946899	1.4	0	
Mn	55	2	He	1.062	8.1	6588	6.9	0	ICSA Main CR1 Failed
Co	59	2	He	0.516	4.3	4844	4.0	0	ICSA Main CR1 Failed
Ni	60	2	He	0.874	9.3	2257	7.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.153	24.3	3010	6.7	0	ICSA Main CR1 Failed
Zn	66	2	He	2.591	2.8	3591	2.3	0	ICSA Main CR1 Failed
Al	27	2	He	90968.000	0.8	43729446	0.8	0	
B	11	1	No Gas	-2.102	-41.1	45806	0.9	0	ICSA Main CR1 Failed
Al	27	1	No Gas	93926.417	1.1	1237098248	1.4	0	
Si	28	1	No Gas	23.065	8.3	394825	1.8	0	
Ag	107	1	No Gas	0.156	5.1	2230	6.3	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.344	46.7	940	48.2	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	4.760	1.1	126845	1.5	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1983.497	0.8	10842050	1.9	0	
Sn	118	1	No Gas	0.011	156.6	943	16.0	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.252	2.6	3177	3.5	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.611	7.5	2884	9.2	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.014	20.3	497	15.1	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.014	56.3	193	36.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.158	2.9	5467	0.9	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.008	23.6	263	17.9	0	ICSA Main CR1 Failed
Ca	43	2	He	93762.511	1.1	269574	1.0	0	
Sb	121	2	He	0.248	10.1	1570	10.0	0	ICSA Main CR1 Failed
Ti	47	2	He	2051.873	1.6	527097	1.4	0	
Se	82	1	No Gas	0.661	32.9	77	56.3	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	758417	3.97	768064	98.74	70	120	
Ge	72	2	He	691831	0.24	709415	97.52	70	120	
Ge	72	1	No Gas	2217434	2.22	2282452	97.15	70	120	
In	115	1	No Gas	2290903	2.31	2434568	94.10	70	120	
Bi	209	1	No Gas	1880074	3.40	2062007	91.18	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	029ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:36:47-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	102.245	1.726	1024450	0.97	100	102.2	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	99.915	1.052	314291	1.17	100	99.9	80	120	
V	51	2	He	98.734	1.011	620234	0.69	100	98.7	80	120	
Cr	52	2	He	99.426	1.142	697293	0.48	100	99.4	80	120	
Fe	56	2	He	108054.785	0.474	639847670	1.12	100	108054.8	80	120	
Se	78	2	He	97.501	0.901	11632	2.42	100	97.5	80	120	
As	75	2	He	98.970	1.475	109257	0.62	100	99.0	80	120	
Ca	44	2	He	103382.730	0.861	4900842	1.79	100	103382.7	80	120	ICSB Main CR1 Failed
Na	23	2	He	106742.464	1.952	116445052	1.27	100	106742.5	80	120	
Mg	24	2	He	107804.801	0.746	70423517	1.02	100	107804.8	80	120	
K	39	2	He	108057.027	1.935	105968822	1.14	100	108057.0	80	120	
Mn	55	2	He	99.865	0.974	542536	0.63	100	99.9	80	120	
Co	59	2	He	96.619	1.407	890573	0.23	100	96.6	80	120	
Ni	60	2	He	96.702	1.255	215516	0.50	100	96.7	80	120	
Cu	63	2	He	95.978	2.211	535498	0.63	100	96.0	80	120	
Zn	66	2	He	100.214	1.634	124528	1.29	100	100.2	80	120	
Al	27	2	He	90285.663	0.692	43272663	1.67	100	90285.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	506.913	2.003	940297	0.74	100	506.9	80	120	
Al	27	1	No Gas	93051.775	1.611	1208591209	0.93	100	93051.8	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	533.668	2.436	3819828	0.50	100	533.7	80	120	
Ag	107	1	No Gas	98.181	1.848	1328856	1.18	100	98.2	80	120	
Cd	111	1	No Gas	98.911	1.762	265583	2.10	100	98.9	80	120	
Sr	88	1	No Gas	107.756	2.872	2834621	2.32	100	107.8	80	120	
Mo	95	1	No Gas	2034.442	2.171	11045492	1.94	100	2034.4	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	101.625	0.919	812006	0.59	100	101.6	80	120	
Sb	121	1	No Gas	101.816	2.518	1219879	1.34	100	101.8	80	120	
Ba	137	1	No Gas	100.346	1.429	444230	1.06	100	100.3	80	120	
Tl	205	1	No Gas	100.316	3.794	2007628	2.32	100	100.3	80	120	
Tl	203	1	No Gas	99.807	2.299	840050	0.46	100	99.8	80	120	
Pb	208	1	No Gas	101.240	2.794	2990859	1.11	100	101.2	80	120	
U	238	1	No Gas	108.958	2.716	3094163	1.13	100	109.0	80	120	
Ca	43	2	He	103574.778	1.460	296864	0.81	100	103574.8	80	120	
Sb	121	2	He	98.350	2.007	607082	1.08	100	98.4	80	120	
Ti	47	2	He	2146.826	1.337	549807	0.91	100	2146.8	80	120	
Cu	63	1	No Gas	97.578	1.616	1052869	0.32	100	97.6	80	120	
Se	82	1	No Gas	102.154	3.395	20667	1.91	100	102.2	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	713761	1.66	768064	92.93	70	120	
Ge	72	2	He	689784	1.60	709415	97.23	70	120	
Ge	72	1	No Gas	2186776	1.86	2282452	95.81	70	120	
In	115	1	No Gas	2275397	0.82	2434568	93.46	70	120	
Bi	209	1	No Gas	1851837	2.20	2062007	89.81	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	146_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:51:07-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	102.021	2.001	1106198	1.75	100	102.0	90	110	
Be	9	1	No Gas	100.306	2.394	341334	0.80	100	100.3	90	110	
V	51	2	He	96.032	1.410	656610	0.76	100	96.0	90	110	
Cr	52	2	He	96.647	0.410	738165	0.56	100	96.6	90	110	
Fe	56	2	He	9933.997	1.452	64034111	1.44	10000	99.3	90	110	
Se	78	2	He	96.132	2.004	12483	1.32	100	96.1	90	110	
As	75	2	He	96.259	1.945	115657	1.37	100	96.3	90	110	
Ca	44	2	He	10024.796	1.787	518216	1.14	10000	100.2	90	110	
Na	23	2	He	9842.163	1.374	11740977	0.85	10000	98.4	90	110	
Mg	24	2	He	9949.105	2.724	7072919	2.11	10000	99.5	90	110	
K	39	2	He	9992.364	2.963	10847447	2.31	10000	99.9	90	110	
Mn	55	2	He	97.648	1.192	577359	0.63	100	97.6	90	110	
Co	59	2	He	94.194	0.088	944977	0.65	100	94.2	90	110	
Ni	60	2	He	96.737	1.144	234638	0.59	100	96.7	90	110	
Cu	63	2	He	95.241	0.718	578414	0.29	100	95.2	90	110	
Zn	66	2	He	97.806	1.179	132281	0.98	100	97.8	90	110	
Al	27	2	He	96.967	2.111	51252	1.43	100	97.0	90	110	
B	11	1	No Gas	500.464	2.071	1005258	2.27	500	100.1	90	110	
Al	27	1	No Gas	100.791	3.815	1450948	1.85	100	100.8	90	110	
Si	28	1	No Gas	502.880	2.028	3961595	2.30	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.479	0.954	1445389	1.85	100	97.5	90	110	
Cd	111	1	No Gas	96.943	0.911	285110	1.16	100	96.9	90	110	
Sr	88	1	No Gas	100.972	1.881	2909568	1.10	100	101.0	90	110	
Mo	95	1	No Gas	96.548	0.796	574658	1.37	100	96.5	90	110	
Sn	118	1	No Gas	98.584	0.782	862856	0.73	100	98.6	90	110	
Sb	121	1	No Gas	95.387	1.105	1253020	0.83	100	95.4	90	110	
Ba	137	1	No Gas	97.146	0.166	471106	0.94	100	97.1	90	110	
Tl	205	1	No Gas	104.859	2.214	2332100	1.01	100	104.9	90	110	
Tl	203	1	No Gas	103.428	1.333	967370	0.51	100	103.4	90	110	
Pb	208	1	No Gas	97.123	0.951	3188775	0.87	100	97.1	90	110	
U	238	1	No Gas	98.934	1.334	3122173	0.44	100	98.9	90	110	
Ca	43	2	He	9588.857	2.515	29946	2.26	10000	95.9	90	110	
Sb	121	2	He	93.554	0.826	628543	0.84	100	93.6	90	110	
Ti	47	2	He	96.964	4.035	27040	3.56	100	97.0	90	110	
Cu	63	1	No Gas	98.009	1.170	1159343	0.75	100	98.0	90	110	
Se	82	1	No Gas	96.530	4.501	21426	6.34	100	96.5	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	772412	2.68	768064	100.57	70	120	
Ge	72	2	He	750653	0.66	709415	105.81	70	120	
Ge	72	1	No Gas	2397255	1.90	2282452	105.03	70	120	
In	115	1	No Gas	2492387	0.93	2434568	102.37	70	120	
Bi	209	1	No Gas	2057495	1.77	2062007	99.78	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	147_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:52:59-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	Upper Limit	QC Flag
Li	7	1	No Gas	0.036	134.1	55159	1.5	0.5	
Be	9	1	No Gas	0.008	59.2	43	37.1	0.5	
V	51	2	He	-0.071	-8.9	2839	2.8	2.5	
Cr	52	2	He	0.222	28.6	18613	3.8	2.5	
Fe	56	2	He	1.612	11.4	29068	2.9	100	
Se	78	2	He	-0.436	-46.4	242	9.4	2	
As	75	2	He	0.039	78.4	343	11.9	2.5	
Ca	44	2	He	0.229	1153.9	1237	10.2	100	
Na	23	2	He	22.180	6.7	88402	1.0	100	
Mg	24	2	He	1.340	8.9	1483	6.4	100	
K	39	2	He	7.251	11.3	211551	1.1	100	
Mn	55	2	He	0.092	11.8	1440	4.2	2.5	
Co	59	2	He	0.003	20.7	117	4.9	2.5	
Ni	60	2	He	0.017	68.7	377	6.7	2.5	
Cu	63	2	He	-0.233	-1.6	937	2.2	2	
Zn	66	2	He	0.411	19.2	967	11.9	2.5	
Al	27	2	He	-0.121	-146.4	623	13.8	5	
B	11	1	No Gas	-6.077	-2.0	41341	1.5	0.5	
Al	27	1	No Gas	0.003	1671.9	16570	3.0	5	
Si	28	1	No Gas	-5.201	-15.7	221860	0.6	10	
Ag	107	1	No Gas	0.007	71.5	227	32.5	2.5	
Cd	111	1	No Gas	0.004	271.3	20	176.4	1	
Sr	88	1	No Gas	0.020	19.1	1543	5.7	2.5	
Mo	95	1	No Gas	0.052	54.0	820	20.0	2.5	
Sn	118	1	No Gas	0.147	10.3	2324	8.6	5	
Sb	121	1	No Gas	0.351	15.4	4794	11.8	2.5	
Ba	137	1	No Gas	0.030	43.0	333	17.6	2.5	
Tl	205	1	No Gas	0.187	30.0	4591	28.8	1	
Tl	203	1	No Gas	0.195	35.7	2000	34.7	1	
Pb	208	1	No Gas	-0.006	-11.0	623	4.0	2.5	
U	238	1	No Gas	0.028	23.2	957	22.4	2.5	
Ca	43	2	He	7.581	102.5	63	39.7	100	
Sb	121	2	He	0.311	0.7	2144	0.5	2.5	
Ti	47	2	He	-0.016	-327.4	13	114.6	2.5	
Cu	63	1	No Gas	-0.291	-2.7	2020	2.6	2.5	
Se	82	1	No Gas	0.248	196.3	-6	-1871.1	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	816427	1.10	768064	106.30	70	120	
Ge	72	2	He	758551	1.25	709415	106.93	70	120	
Ge	72	1	No Gas	2432527	3.35	2282452	106.58	70	120	
In	115	1	No Gas	2611945	2.81	2434568	107.29	70	120	
Bi	209	1	No Gas	2154903	0.53	2062007	104.51	70	120	

Sample Report

Sample Table

Sample Name	MBLK-197198
Data File Name	148SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:55:41-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	0.038	0.038	242.00	55864	0.00	2000	
Be	9	1	No Gas	0.001	0.001	445.99	18	0.00	2000	
V	51	2	He	-0.016	-0.016	-96.13	3234	0.00	2000	
Cr	52	2	He	0.287	0.287	14.71	19194	0.00	2000	
Fe	56	2	He	2.730	2.730	1.63	36543	0.01	200000	
Se	78	2	He	-0.400	-0.400	-20.11	248	-0.16	2000	
As	75	2	He	0.018	0.018	66.48	319	0.01	2000	
Ca	44	2	He	11.672	11.672	8.38	1843	0.63	200000	
Na	23	2	He	26.106	26.106	6.37	93605	0.03	200000	
Mg	24	2	He	1.846	1.846	11.45	1857	0.10	200000	
K	39	2	He	9.616	9.616	26.83	215166	0.00	200000	
Mn	55	2	He	0.737	0.737	2.48	5314	0.01	2000	
Co	59	2	He	-0.002	-0.002	-135.53	63	0.00	2000	
Ni	60	2	He	0.163	0.163	24.27	737	0.02	2000	
Cu	63	2	He	0.059	0.059	65.48	2740	0.00	2000	
Zn	66	2	He	1.358	1.358	16.55	2270	0.06	2000	
Al	27	2	He	1.276	1.276	9.30	1367	0.09	2000	
B	11	1	No Gas	-10.236	-10.236	-4.45	33360	-0.03	2000	
Al	27	1	No Gas	1.839	1.839	4.67	43983	0.00	2000	
Si	28	1	No Gas	-3.018	-3.018	-10.88	243153	0.00	2000	
Ag	107	1	No Gas	-0.002	-0.002	-97.67	90	0.00	2000	
Cd	111	1	No Gas	-0.004	-0.004	-55.30	-4	0.09	2000	
Sr	88	1	No Gas	0.049	0.049	3.00	2370	0.00	2000	
Mo	95	1	No Gas	-0.004	-0.004	-410.66	460	0.00	2000	
Sn	118	1	No Gas	0.155	0.155	19.30	2344	0.01	2000	
Sb	121	1	No Gas	0.110	0.110	9.47	1627	0.01	2000	
Ba	137	1	No Gas	0.239	0.239	9.09	1367	0.02	2000	
Tl	205	1	No Gas	0.014	0.014	15.94	553	0.00	2000	
Tl	203	1	No Gas	0.013	0.013	16.13	207	0.01	2000	
Pb	208	1	No Gas	-0.003	-0.003	-68.28	723	0.00	2000	
U	238	1	No Gas	0.003	0.003	30.10	130	0.00	2000	
Ca	43	2	He	15.980	15.980	40.37	90	17.76	200000	
Sb	121	2	He	0.112	0.112	17.28	797	0.01	2000	
Ti	47	2	He	0.019	0.019	283.24	23	0.08	2000	
Cu	63	1	No Gas	0.015	0.015	143.17	5795	0.00	2000	
Zn	66	1	No Gas	1.168	1.168	8.32	5378	0.02	2000	
Se	82	1	No Gas	0.172	0.172	51.75	-25	-0.68	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	826592	0.81	768064	107.62	70	120	
Ge	72	2	He	762376	0.86	709415	107.47	70	120	
Ge	72	1	No Gas	2481892	0.64	2282452	108.74	70	120	
In	115	1	No Gas	2556996	1.25	2434568	105.03	70	120	

Sample Report

Bi	209	1	No Gas	2114537	3.57	2062007	102.55	70	120	

Sample Report

Sample Table

Sample Name	LCS-197198
Data File Name	149SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:57:39-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	93.529	93.529	2.24	1092686	0.01	2000	
Be	9	1	No Gas	45.950	45.950	1.21	167796	0.03	2000	
V	51	2	He	44.327	44.327	2.19	316920	0.01	2000	
Cr	52	2	He	44.275	44.275	2.01	360976	0.01	2000	
Fe	56	2	He	4675.239	4675.239	2.29	31337195	0.01	200000	
Se	78	2	He	44.972	44.972	1.46	6235	0.72	2000	
As	75	2	He	44.748	44.748	1.60	56061	0.08	2000	
Ca	44	2	He	4857.499	4857.499	2.83	261672	1.86	200000	
Na	23	2	He	4772.668	4772.668	2.68	5951148	0.08	200000	
Mg	24	2	He	4839.695	4839.695	2.67	3576967	0.14	200000	
K	39	2	He	4797.413	4797.413	2.29	5523347	0.09	200000	
Mn	55	2	He	45.249	45.249	2.95	278590	0.02	2000	
Co	59	2	He	44.164	44.164	2.32	460606	0.01	2000	
Ni	60	2	He	45.685	45.685	1.39	115387	0.04	2000	
Cu	63	2	He	45.323	45.323	2.29	287410	0.02	2000	
Zn	66	2	He	47.190	47.190	2.93	66557	0.07	2000	
Al	27	2	He	101.642	101.642	1.97	55819	0.18	2000	
B	11	1	No Gas	441.647	441.647	2.20	957942	0.05	2000	
Al	27	1	No Gas	102.424	102.424	1.15	1586885	0.01	2000	
Si	28	1	No Gas	545.663	545.663	2.18	4600314	0.01	2000	
Ag	107	1	No Gas	44.568	44.568	2.90	707196	0.01	2000	
Cd	111	1	No Gas	44.458	44.458	3.05	139917	0.03	2000	
Sr	88	1	No Gas	94.064	94.064	1.93	2902129	0.00	2000	
Mo	95	1	No Gas	43.975	43.975	2.13	280426	0.02	2000	
Sn	118	1	No Gas	91.485	91.485	2.16	857058	0.01	2000	
Sb	121	1	No Gas	44.338	44.338	1.90	626632	0.01	2000	
Ba	137	1	No Gas	43.511	43.511	2.88	225924	0.02	2000	
Tl	205	1	No Gas	38.870	38.870	0.79	925345	0.00	2000	
Tl	203	1	No Gas	38.488	38.488	1.94	385270	0.01	2000	
Pb	208	1	No Gas	43.630	43.630	1.58	1533332	0.00	2000	
U	238	1	No Gas	86.191	86.191	1.93	2910763	0.00	2000	
Ca	43	2	He	4782.179	4782.179	2.34	15546	30.76	200000	
Sb	121	2	He	45.624	45.624	2.86	318652	0.01	2000	
Ti	47	2	He	142.342	142.342	0.56	41269	0.34	2000	
Cu	63	1	No Gas	45.118	45.118	1.70	577318	0.01	2000	
Zn	66	1	No Gas	46.458	46.458	1.42	171275	0.03	2000	
Se	82	1	No Gas	44.478	44.478	4.84	10572	0.42	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	828524	1.88	768064	107.87	70	120	
Ge	72	2	He	780535	1.99	709415	110.03	70	120	
Ge	72	1	No Gas	2579119	1.94	2282452	113.00	70	120	
In	115	1	No Gas	2668447	2.76	2434568	109.61	70	120	

Sample Report

Bi	209	1	No Gas	2201483	0.29	2062007	106.76	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08SD
Data File Name	151SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:01:31-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	2.468	12.340	5.75	79969	0.00	2000	
Be	9	1	No Gas	0.000	0.002	964.41	17	0.00	2000	
V	51	2	He	0.019	0.095	249.95	3545	0.00	2000	
Cr	52	2	He	4.259	21.296	15.30	50272	0.01	2000	
Fe	56	2	He	184.756	923.780	11.69	1250806	0.01	200000	
Se	78	2	He	-0.446	-2.229	-49.39	247	-0.18	2000	
As	75	2	He	0.031	0.155	85.33	346	0.01	2000	
Ca	44	2	He	4696.750	23483.750	9.49	252178	1.86	200000	
Na	23	2	He	37879.863	189399.316	9.98	46613816	0.08	200000	
Mg	24	2	He	4028.484	20142.419	10.97	2964367	0.14	200000	
K	39	2	He	418.985	2094.927	13.82	671251	0.06	200000	
Mn	55	2	He	133.405	667.026	10.27	816331	0.02	2000	
Co	59	2	He	3.644	18.220	10.17	37937	0.01	2000	
Ni	60	2	He	271.077	1355.387	10.67	679961	0.04	2000	
Cu	63	2	He	0.053	0.264	114.86	2750	0.00	2000	
Zn	66	2	He	0.889	4.446	19.70	1657	0.05	2000	
Al	27	2	He	2.234	11.172	20.55	1937	0.12	2000	
B	11	1	No Gas	-1.674	-8.368	-32.27	49134	0.00	2000	
Al	27	1	No Gas	2.155	10.776	3.33	46478	0.00	2000	
Si	28	1	No Gas	2405.927	12029.633	1.01	17784055	0.01	2000	>LDR
Ag	107	1	No Gas	-0.002	-0.011	-34.66	83	0.00	2000	
Cd	111	1	No Gas	0.039	0.194	36.64	122	0.03	2000	
Sr	88	1	No Gas	104.207	521.035	1.34	3015803	0.00	2000	
Mo	95	1	No Gas	0.323	1.616	4.82	2407	0.01	2000	
Sn	118	1	No Gas	0.054	0.270	18.20	1403	0.00	2000	
Sb	121	1	No Gas	0.049	0.244	22.08	757	0.01	2000	
Ba	137	1	No Gas	96.057	480.283	1.13	467860	0.02	2000	
Tl	205	1	No Gas	0.080	0.402	21.63	1974	0.00	2000	
Tl	203	1	No Gas	0.076	0.379	21.70	777	0.01	2000	
Pb	208	1	No Gas	-0.008	-0.038	-42.36	537	0.00	2000	
U	238	1	No Gas	0.122	0.610	2.08	3831	0.00	2000	
Ca	43	2	He	4669.755	23348.773	9.04	15132	30.86	200000	
Sb	121	2	He	0.042	0.211	8.73	333	0.01	2000	
Ti	47	2	He	0.430	2.152	53.87	147	0.29	2000	
Cu	63	1	No Gas	0.317	1.587	3.56	9053	0.00	2000	
Zn	66	1	No Gas	0.989	4.945	5.57	4537	0.02	2000	
Se	82	1	No Gas	0.180	0.898	68.26	-22	-0.81	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	799087	2.60	768064	104.04	70	120	
Ge	72	2	He	782110	9.26	709415	110.25	70	120	
Ge	72	1	No Gas	2371012	1.79	2282452	103.88	70	120	
In	115	1	No Gas	2503415	2.24	2434568	102.83	70	120	

Sample Report

Bi	209	1	No Gas	2024696	1.02	2062007	98.19	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08MS
Data File Name	152SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:03:40-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	107.311	107.311	0.78	1121449	0.01	2000	
Be	9	1	No Gas	47.784	47.784	1.24	157107	0.03	2000	
V	51	2	He	44.481	44.481	1.01	293026	0.02	2000	
Cr	52	2	He	65.213	65.213	1.23	482304	0.01	2000	
Fe	56	2	He	5462.571	5462.571	0.46	33736963	0.02	200000	
Se	78	2	He	44.584	44.584	1.34	5698	0.78	2000	
As	75	2	He	45.422	45.422	1.60	52428	0.09	2000	
Ca	44	2	He	28506.267	28506.267	1.68	1409367	2.02	200000	
Na	23	2	He	195564.249	195564.249	1.38	222359963	0.09	200000	>LDR
Mg	24	2	He	25042.036	25042.036	1.87	17053550	0.15	200000	
K	39	2	He	6671.038	6671.038	0.76	7001775	0.10	200000	
Mn	55	2	He	686.695	686.695	0.92	3884129	0.02	2000	
Co	59	2	He	60.974	60.974	0.80	585948	0.01	2000	
Ni	60	2	He	1381.146	1381.146	0.46	3204820	0.04	2000	
Cu	63	2	He	44.222	44.222	1.43	258447	0.02	2000	
Zn	66	2	He	46.512	46.512	1.63	60455	0.08	2000	
Al	27	2	He	95.089	95.089	1.14	48157	0.20	2000	
B	11	1	No Gas	494.978	494.978	4.31	960644	0.05	2000	
Al	27	1	No Gas	100.850	100.850	1.33	1381074	0.01	2000	
Si	28	1	No Gas	12492.706	12492.706	0.99	87750485	0.01	2000	>LDR
Ag	107	1	No Gas	43.850	43.850	1.86	619318	0.01	2000	
Cd	111	1	No Gas	44.686	44.686	1.63	125200	0.04	2000	
Sr	88	1	No Gas	599.464	599.464	0.85	16452470	0.00	2000	
Mo	95	1	No Gas	47.586	47.586	1.11	270024	0.02	2000	
Sn	118	1	No Gas	93.581	93.581	0.72	780319	0.01	2000	
Sb	121	1	No Gas	46.744	46.744	1.77	583902	0.01	2000	
Ba	137	1	No Gas	517.794	517.794	2.64	2390778	0.02	2000	
Tl	205	1	No Gas	40.611	40.611	4.59	862203	0.00	2000	
Tl	203	1	No Gas	40.113	40.113	4.59	358106	0.01	2000	
Pb	208	1	No Gas	43.798	43.798	5.01	1372562	0.00	2000	
U	238	1	No Gas	96.622	96.622	5.47	2909208	0.00	2000	
Ca	43	2	He	28936.285	28936.285	0.81	86498	33.45	200000	
Sb	121	2	He	45.053	45.053	1.02	289947	0.02	2000	
Ti	47	2	He	139.308	139.308	1.63	37207	0.37	2000	
Cu	63	1	No Gas	47.635	47.635	1.05	538464	0.01	2000	
Zn	66	1	No Gas	48.312	48.312	0.60	157385	0.03	2000	
Se	82	1	No Gas	45.923	45.923	1.81	9658	0.48	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	746007	1.29	768064	97.13	70	120	
Ge	72	2	He	719048	0.93	709415	101.36	70	120	
Ge	72	1	No Gas	2279620	2.17	2282452	99.88	70	120	
In	115	1	No Gas	2374475	1.85	2434568	97.53	70	120	
Bi	209	1	No Gas	1966302	5.00	2062007	95.36	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08MSD
Data File Name	153SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:05:45-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	105.712	105.712	2.25	1171226	0.01	2000	
Be	9	1	No Gas	47.023	47.023	1.26	163825	0.03	2000	
V	51	2	He	44.676	44.676	0.61	304916	0.01	2000	
Cr	52	2	He	65.798	65.798	0.54	504030	0.01	2000	
Fe	56	2	He	5518.419	5518.419	0.62	35308774	0.02	200000	
Se	78	2	He	45.697	45.697	3.46	6042	0.76	2000	
As	75	2	He	46.244	46.244	0.70	55298	0.08	2000	
Ca	44	2	He	29097.771	29097.771	1.63	1490387	1.95	200000	
Na	23	2	He	197336.312	197336.312	1.75	232445450	0.08	200000	>LDR
Mg	24	2	He	25169.590	25169.590	1.58	17759071	0.14	200000	
K	39	2	He	6733.783	6733.783	1.96	7320129	0.09	200000	
Mn	55	2	He	694.482	694.482	1.53	4069412	0.02	2000	
Co	59	2	He	61.145	61.145	1.51	608731	0.01	2000	
Ni	60	2	He	1388.797	1388.797	2.49	3338253	0.04	2000	
Cu	63	2	He	45.035	45.035	2.14	272619	0.02	2000	
Zn	66	2	He	47.469	47.469	0.80	63921	0.07	2000	
Al	27	2	He	96.075	96.075	0.94	50405	0.19	2000	
B	11	1	No Gas	488.642	488.642	0.82	1005885	0.05	2000	
Al	27	1	No Gas	102.008	102.008	2.53	1437475	0.01	2000	
Si	28	1	No Gas	12561.603	12561.603	1.17	90818045	0.01	2000	>LDR
Ag	107	1	No Gas	44.087	44.087	1.01	643043	0.01	2000	
Cd	111	1	No Gas	46.003	46.003	0.59	133088	0.03	2000	
Sr	88	1	No Gas	600.767	600.767	1.52	17025552	0.00	2000	
Mo	95	1	No Gas	47.710	47.710	1.18	279569	0.02	2000	
Sn	118	1	No Gas	94.490	94.490	0.45	813566	0.01	2000	
Sb	121	1	No Gas	47.182	47.182	0.98	606667	0.01	2000	
Ba	137	1	No Gas	533.131	533.131	1.50	2542201	0.02	2000	
Tl	205	1	No Gas	42.398	42.398	3.27	908354	0.00	2000	
Tl	203	1	No Gas	42.038	42.038	2.42	378787	0.01	2000	
Pb	208	1	No Gas	44.835	44.835	3.15	1418123	0.00	2000	
U	238	1	No Gas	98.305	98.305	3.98	2987577	0.00	2000	
Ca	43	2	He	28957.098	28957.098	1.62	89664	32.30	200000	
Sb	121	2	He	45.924	45.924	2.42	306160	0.01	2000	
Ti	47	2	He	142.197	142.197	1.15	39353	0.36	2000	
Cu	63	1	No Gas	48.229	48.229	0.72	561048	0.01	2000	
Zn	66	1	No Gas	48.049	48.049	2.03	161109	0.03	2000	
Se	82	1	No Gas	47.989	47.989	5.85	10389	0.46	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	790539	1.82	768064	102.93	70	120	
Ge	72	2	He	744954	1.16	709415	105.01	70	120	
Ge	72	1	No Gas	2346019	1.24	2282452	102.79	70	120	
In	115	1	No Gas	2451615	0.53	2434568	100.70	70	120	
Bi	209	1	No Gas	1982244	2.21	2062007	96.13	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08PDS
Data File Name	154SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:07:42-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	11.641	11.641	2.35	177173	0.01	2000	
Be	9	1	No Gas	97.679	97.679	2.05	342224	0.03	2000	
V	51	2	He	92.731	92.731	2.85	618924	0.01	2000	
Cr	52	2	He	113.141	113.141	2.64	840585	0.01	2000	
Fe	56	2	He	10475.517	10475.517	2.93	65898351	0.02	200000	
Se	78	2	He	95.437	95.437	3.30	12097	0.79	2000	
As	75	2	He	95.311	95.311	2.80	111774	0.09	2000	
Ca	44	2	He	33266.181	33266.181	2.86	1675753	1.99	200000	
Na	23	2	He	203182.576	203182.576	2.86	235391483	0.09	200000	>LDR
Mg	24	2	He	30574.557	30574.557	5.33	21205793	0.14	200000	
K	39	2	He	11873.717	11873.717	2.73	12544214	0.09	200000	
Mn	55	2	He	746.124	746.124	1.70	4300700	0.02	2000	
Co	59	2	He	111.603	111.603	4.12	1092445	0.01	2000	
Ni	60	2	He	1421.922	1421.922	3.14	3361443	0.04	2000	
Cu	63	2	He	91.208	91.208	2.64	540725	0.02	2000	
Zn	66	2	He	95.986	95.986	3.09	126701	0.08	2000	
Al	27	2	He	101.183	101.183	2.72	52172	0.19	2000	
B	11	1	No Gas	36.385	36.385	4.00	123611	0.03	2000	
Al	27	1	No Gas	106.012	106.012	3.04	1512679	0.01	2000	
Si	28	1	No Gas	12322.866	12322.866	3.16	90243992	0.01	2000	>LDR
Ag	107	1	No Gas	96.284	96.284	0.76	1392083	0.01	2000	
Cd	111	1	No Gas	96.951	96.951	1.55	278012	0.03	2000	
Sr	88	1	No Gas	516.430	516.430	1.18	14511769	0.00	2000	
Mo	95	1	No Gas	100.159	100.159	0.20	581349	0.02	2000	
Sn	118	1	No Gas	0.301	0.301	3.40	3467	0.01	2000	
Sb	121	1	No Gas	93.916	93.916	2.23	1223293	0.01	2000	
Ba	137	1	No Gas	586.282	586.282	2.21	2771144	0.02	2000	
Tl	205	1	No Gas	103.684	103.684	1.23	2271266	0.00	2000	
Tl	203	1	No Gas	100.381	100.381	3.70	924243	0.01	2000	
Pb	208	1	No Gas	92.655	92.655	2.19	2995535	0.00	2000	
U	238	1	No Gas	0.618	0.618	2.86	19249	0.00	2000	
Ca	43	2	He	33302.049	33302.049	3.22	101405	32.84	200000	
Sb	121	2	He	90.212	90.212	2.40	591553	0.02	2000	
Ti	47	2	He	96.314	96.314	3.13	26215	0.37	2000	
Cu	63	1	No Gas	96.346	96.346	1.26	1130381	0.01	2000	
Zn	66	1	No Gas	97.188	97.188	1.92	328898	0.03	2000	
Se	82	1	No Gas	96.113	96.113	2.29	21142	0.45	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	795055	1.44	768064	103.51	70	120	
Ge	72	2	He	732919	2.44	709415	103.31	70	120	
Ge	72	1	No Gas	2377418	2.29	2282452	104.16	70	120	
In	115	1	No Gas	2430558	1.77	2434568	99.84	70	120	
Bi	209	1	No Gas	2026494	2.75	2062007	98.28	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	155_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:09:36-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	99.052	2.457	1023349	2.60	100	99.1	90	110	
Be	9	1	No Gas	98.015	0.900	317406	1.37	100	98.0	90	110	
V	51	2	He	95.312	1.592	596472	0.55	100	95.3	90	110	
Cr	52	2	He	95.431	1.347	667260	0.10	100	95.4	90	110	
Fe	56	2	He	9743.424	2.402	57475572	1.18	10000	97.4	90	110	
Se	78	2	He	96.268	0.726	11442	1.07	100	96.3	90	110	
As	75	2	He	94.863	1.795	104322	0.52	100	94.9	90	110	
Ca	44	2	He	9911.426	1.318	468958	0.48	10000	99.1	90	110	
Na	23	2	He	9610.457	1.555	10495318	1.97	10000	96.1	90	110	
Mg	24	2	He	9860.753	1.968	6416529	1.71	10000	98.6	90	110	
K	39	2	He	9854.869	1.500	9794492	0.14	10000	98.5	90	110	
Mn	55	2	He	98.051	1.787	530581	0.78	100	98.1	90	110	
Co	59	2	He	94.073	1.778	863689	0.45	100	94.1	90	110	
Ni	60	2	He	95.948	0.937	213008	0.68	100	95.9	90	110	
Cu	63	2	He	94.639	1.936	526017	0.60	100	94.6	90	110	
Zn	66	2	He	96.096	0.686	118965	1.04	100	96.1	90	110	
Al	27	2	He	96.486	1.028	46685	1.65	100	96.5	90	110	
B	11	1	No Gas	475.874	2.774	911649	1.62	500	95.2	90	110	
Al	27	1	No Gas	104.020	2.314	1367931	3.56	100	104.0	90	110	
Si	28	1	No Gas	520.924	1.906	3739031	1.22	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.173	0.947	1355191	1.71	100	98.2	90	110	
Cd	111	1	No Gas	96.670	3.020	264624	1.63	100	96.7	90	110	
Sr	88	1	No Gas	100.114	2.665	2685323	0.28	100	100.1	90	110	
Mo	95	1	No Gas	95.975	2.241	531715	0.30	100	96.0	90	110	
Sn	118	1	No Gas	98.553	2.649	802901	1.14	100	98.6	90	110	
Sb	121	1	No Gas	98.076	2.978	1176300	0.37	100	98.1	90	110	
Ba	137	1	No Gas	96.720	2.365	436586	0.95	100	96.7	90	110	
Tl	205	1	No Gas	101.923	3.489	2120021	1.75	100	101.9	90	110	
Tl	203	1	No Gas	102.207	3.192	893994	1.32	100	102.2	90	110	
Pb	208	1	No Gas	95.099	2.947	2919860	0.54	100	95.1	90	110	
U	238	1	No Gas	97.914	3.741	2889657	2.25	100	97.9	90	110	
Ca	43	2	He	9678.808	0.225	27668	1.32	10000	96.8	90	110	
Sb	121	2	He	94.880	0.892	583428	0.73	100	94.9	90	110	
Ti	47	2	He	95.706	1.547	24432	1.86	100	95.7	90	110	
Cu	63	1	No Gas	98.307	2.969	1061735	0.69	100	98.3	90	110	
Se	82	1	No Gas	98.899	6.535	20016	3.75	100	98.9	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	734769	1.29	768064	95.66	70	120	
Ge	72	2	He	687075	1.33	709415	96.85	70	120	
Ge	72	1	No Gas	2189719	2.91	2282452	95.94	70	120	
In	115	1	No Gas	2320763	2.45	2434568	95.33	70	120	
Bi	209	1	No Gas	1924776	2.46	2062007	93.34	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	156_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:11:30-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	Upper Limit	QC Flag
Li	7	1	No Gas	-0.036	-169.2	51270	1.6	0.5	
Be	9	1	No Gas	0.014	16.9	63	12.1	0.5	
V	51	2	He	-0.052	-28.3	2705	4.2	2.5	
Cr	52	2	He	0.187	47.1	16687	3.9	2.5	
Fe	56	2	He	1.166	8.6	23804	2.4	100	
Se	78	2	He	-0.135	-110.8	255	6.8	2	
As	75	2	He	0.042	112.5	316	17.1	2.5	
Ca	44	2	He	-3.045	-75.4	970	10.8	100	
Na	23	2	He	40.233	3.6	100100	0.7	100	
Mg	24	2	He	1.131	11.7	1213	8.0	100	
K	39	2	He	19.587	10.7	204496	1.1	100	
Mn	55	2	He	0.109	9.8	1400	4.0	2.5	
Co	59	2	He	0.009	50.3	160	25.0	2.5	
Ni	60	2	He	0.014	262.8	337	24.9	2.5	
Cu	63	2	He	-0.251	-3.5	753	5.4	2	
Zn	66	2	He	0.358	23.7	813	13.5	2.5	
Al	27	2	He	-0.115	-112.9	570	10.7	5	
B	11	1	No Gas	-1.468	-51.6	47742	2.1	0.5	
Al	27	1	No Gas	0.023	251.7	15352	6.0	5	
Si	28	1	No Gas	0.473	140.1	240518	1.4	10	
Ag	107	1	No Gas	0.007	111.9	200	49.2	2.5	
Cd	111	1	No Gas	0.006	31.7	22	26.8	1	
Sr	88	1	No Gas	0.019	20.3	1370	11.6	2.5	
Mo	95	1	No Gas	0.078	41.3	873	17.2	2.5	
Sn	118	1	No Gas	0.173	23.4	2294	17.7	5	
Sb	121	1	No Gas	0.453	4.3	5608	3.6	2.5	
Ba	137	1	No Gas	0.036	30.0	330	18.9	2.5	
Tl	205	1	No Gas	0.238	21.6	5235	21.2	1	
Tl	203	1	No Gas	0.223	16.6	2054	16.2	1	
Pb	208	1	No Gas	-0.005	-46.8	600	13.0	2.5	
U	238	1	No Gas	0.021	20.3	683	19.9	2.5	
Ca	43	2	He	8.461	122.5	60	50.0	100	
Sb	121	2	He	0.422	3.6	2637	4.5	2.5	
Ti	47	2	He	-0.037	-119.9	7	173.2	2.5	
Cu	63	1	No Gas	-0.296	-6.3	1783	12.5	2.5	
Se	82	1	No Gas	0.319	93.4	8	786.0	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	769945	0.99	768064	100.24	70	120	
Ge	72	2	He	689941	1.02	709415	97.26	70	120	
Ge	72	1	No Gas	2212850	1.08	2282452	96.95	70	120	
In	115	1	No Gas	2335914	3.78	2434568	95.95	70	120	
Bi	209	1	No Gas	1954085	1.40	2062007	94.77	70	120	

Sample Report

Sample Table

Sample Name	HS23061557-01
Data File Name	157SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:21:12-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	7.059	7.059	2.29	129746	0.01	2000	
Be	9	1	No Gas	0.002	0.002	136.38	23	0.01	2000	
V	51	2	He	7.709	7.709	0.60	50837	0.02	2000	
Cr	52	2	He	12.232	12.232	0.68	98547	0.01	2000	
Fe	56	2	He	46.643	46.643	2.50	290855	0.02	200000	
Se	78	2	He	0.511	0.511	55.59	328	0.16	2000	
As	75	2	He	0.839	0.839	4.57	1185	0.07	2000	
Ca	44	2	He	25457.734	25457.734	1.09	1198533	2.12	200000	
Na	23	2	He	23236.467	23236.467	0.84	25203394	0.09	200000	
Mg	24	2	He	2140.411	2140.411	1.52	1388236	0.15	200000	
K	39	2	He	2120.891	2120.891	1.39	2244653	0.09	200000	
Mn	55	2	He	1.098	1.098	3.34	6715	0.02	2000	
Co	59	2	He	0.168	0.168	7.38	1617	0.01	2000	
Ni	60	2	He	0.223	0.223	39.96	793	0.03	2000	
Cu	63	2	He	0.104	0.104	29.99	2704	0.00	2000	
Zn	66	2	He	1.052	1.052	9.79	1660	0.06	2000	
Al	27	2	He	104.076	104.076	4.67	50118	0.21	2000	
B	11	1	No Gas	40.936	40.936	4.66	133906	0.03	2000	
Al	27	1	No Gas	107.037	107.037	0.38	1422369	0.01	2000	
Si	28	1	No Gas	8565.097	8565.097	1.27	58485089	0.01	2000	>LDR
Ag	107	1	No Gas	0.004	0.004	158.43	160	0.00	2000	
Cd	111	1	No Gas	0.036	0.036	41.75	105	0.03	2000	
Sr	88	1	No Gas	387.573	387.573	1.83	10557984	0.00	2000	
Mo	95	1	No Gas	1.343	1.343	1.50	8003	0.02	2000	
Sn	118	1	No Gas	0.094	0.094	14.89	1653	0.01	2000	
Sb	121	1	No Gas	0.200	0.200	4.93	2547	0.01	2000	
Ba	137	1	No Gas	73.695	73.695	0.57	337977	0.02	2000	
Tl	205	1	No Gas	0.023	0.023	8.97	797	0.00	2000	
Tl	203	1	No Gas	0.022	0.022	5.56	310	0.01	2000	
Pb	208	1	No Gas	0.029	0.029	31.57	1883	0.00	2000	
U	238	1	No Gas	0.553	0.553	16.80	18882	0.00	2000	
Ca	43	2	He	25505.076	25505.076	1.57	72581	35.14	200000	
Sb	121	2	He	0.203	0.203	8.00	1273	0.02	2000	
Ti	47	2	He	1.576	1.576	25.36	417	0.38	2000	
Cu	63	1	No Gas	0.252	0.252	3.22	7736	0.00	2000	
Zn	66	1	No Gas	1.209	1.209	6.54	4921	0.02	2000	
Se	82	1	No Gas	1.308	1.308	17.44	211	0.62	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	803203	1.16	768064	104.57	70	120	
Ge	72	2	He	684560	0.57	709415	96.50	70	120	
Ge	72	1	No Gas	2213240	1.71	2282452	96.97	70	120	
In	115	1	No Gas	2356931	1.48	2434568	96.81	70	120	

Sample Report

Bi	209	1	No Gas	2260643	16.41	2062007	109.63	70	120	

Sample Report

Sample Table

Sample Name	HS23061557-03
Data File Name	158SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:23:19-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	71.548	71.548	2.35	752575	0.01	2000	
Be	9	1	No Gas	0.040	0.040	10.16	143	0.03	2000	
V	51	2	He	1.294	1.294	5.21	10475	0.01	2000	
Cr	52	2	He	7.171	7.171	2.90	60865	0.01	2000	
Fe	56	2	He	355.540	355.540	0.63	2000264	0.02	200000	
Se	78	2	He	0.028	0.028	861.46	259	0.01	2000	
As	75	2	He	1.087	1.087	5.26	1382	0.08	2000	
Ca	44	2	He	344570.878	344570.878	1.35	15391689	2.24	200000	>LDR
Na	23	2	He	518445.612	518445.612	1.80	532879365	0.10	200000	>LDR
Mg	24	2	He	122246.880	122246.880	1.89	75264607	0.16	200000	
K	39	2	He	6187.066	6187.066	0.84	5884002	0.11	200000	
Mn	55	2	He	275.381	275.381	1.80	1408764	0.02	2000	
Co	59	2	He	5.273	5.273	0.90	45887	0.01	2000	
Ni	60	2	He	5.157	5.157	5.33	11108	0.05	2000	
Cu	63	2	He	0.071	0.071	34.06	2397	0.00	2000	
Zn	66	2	He	4.901	4.901	5.69	6071	0.08	2000	
Al	27	2	He	57.652	57.652	12.31	26653	0.22	2000	
B	11	1	No Gas	21.999	21.999	3.10	88130	0.02	2000	
Al	27	1	No Gas	55.921	55.921	5.72	702104	0.01	2000	
Si	28	1	No Gas	23871.642	23871.642	0.82	152170104	0.02	2000	>LDR
Ag	107	1	No Gas	0.013	0.013	27.44	260	0.00	2000	
Cd	111	1	No Gas	0.758	0.758	13.25	1923	0.04	2000	
Sr	88	1	No Gas	6535.647	6535.647	2.51	161781468	0.00	2000	>LDR
Mo	95	1	No Gas	0.882	0.882	3.87	4914	0.02	2000	
Sn	118	1	No Gas	0.092	0.092	16.25	1487	0.01	2000	
Sb	121	1	No Gas	0.119	0.119	12.36	1463	0.01	2000	
Ba	137	1	No Gas	3281.466	3281.466	0.46	13669491	0.02	2000	>LDR
Tl	205	1	No Gas	0.017	0.017	13.83	487	0.00	2000	
Tl	203	1	No Gas	0.016	0.016	32.25	183	0.01	2000	
Pb	208	1	No Gas	0.047	0.047	9.65	1900	0.00	2000	
U	238	1	No Gas	2.121	2.121	3.51	54418	0.00	2000	
Ca	43	2	He	374681.724	374681.724	3.15	1012019	37.02	200000	>LDR
Sb	121	2	He	0.132	0.132	7.54	797	0.02	2000	
Ti	47	2	He	3.087	3.087	12.62	760	0.41	2000	
Cu	63	1	No Gas	3.264	3.264	1.22	37890	0.01	2000	
Zn	66	1	No Gas	4.929	4.929	1.97	15539	0.03	2000	
Se	82	1	No Gas	12.721	12.721	8.14	2391	0.53	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	734645	1.71	768064	95.65	70	120	
Ge	72	2	He	650135	0.97	709415	91.64	70	120	
Ge	72	1	No Gas	2071302	0.57	2282452	90.75	70	120	
In	115	1	No Gas	2141755	0.98	2434568	87.97	70	120	
Bi	209	1	No Gas	1672525	1.95	2062007	81.11	70	120	

Sample Report

Sample Table

Sample Name	HS23061557-06
Data File Name	159SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:25:24-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	6.796	6.796	1.83	121204	0.01	2000	
Be	9	1	No Gas	0.086	0.086	16.79	307	0.03	2000	
V	51	2	He	0.747	0.747	4.03	7432	0.01	2000	
Cr	52	2	He	0.911	0.911	2.83	20903	0.00	2000	
Fe	56	2	He	40483.052	40483.052	0.66	231454997	0.02	200000	
Se	78	2	He	-0.121	-0.121	-41.12	248	-0.05	2000	
As	75	2	He	4.862	4.862	4.22	5429	0.09	2000	
Ca	44	2	He	17852.343	17852.343	0.99	817917	2.18	200000	
Na	23	2	He	39034.686	39034.686	1.55	41151717	0.09	200000	
Mg	24	2	He	10618.653	10618.653	1.07	6697761	0.16	200000	
K	39	2	He	1399.271	1399.271	3.81	1501511	0.09	200000	
Mn	55	2	He	1915.445	1915.445	1.24	10033026	0.02	2000	>LDR
Co	59	2	He	1.330	1.330	4.75	11915	0.01	2000	
Ni	60	2	He	1.036	1.036	1.84	2520	0.04	2000	
Cu	63	2	He	0.204	0.204	20.44	3170	0.01	2000	
Zn	66	2	He	4.666	4.666	2.67	5938	0.08	2000	
Al	27	2	He	376.387	376.387	2.11	174765	0.22	2000	
B	11	1	No Gas	6.726	6.726	4.29	63091	0.01	2000	
Al	27	1	No Gas	349.074	349.074	12.63	4606437	0.01	2000	
Si	28	1	No Gas	22503.080	22503.080	1.59	153539534	0.01	2000	>LDR
Ag	107	1	No Gas	0.014	0.014	5.08	300	0.00	2000	
Cd	111	1	No Gas	0.019	0.019	76.83	58	0.03	2000	
Sr	88	1	No Gas	331.019	331.019	1.94	8901636	0.00	2000	
Mo	95	1	No Gas	0.224	0.224	3.81	1683	0.01	2000	
Sn	118	1	No Gas	0.101	0.101	6.76	1693	0.01	2000	
Sb	121	1	No Gas	0.080	0.080	10.83	1090	0.01	2000	
Ba	137	1	No Gas	315.068	315.068	1.01	1425733	0.02	2000	
Tl	205	1	No Gas	-0.001	-0.001	-234.44	187	0.00	2000	
Tl	203	1	No Gas	0.003	0.003	31.95	100	0.00	2000	
Pb	208	1	No Gas	0.169	0.169	8.35	5994	0.00	2000	
U	238	1	No Gas	0.062	0.062	10.61	1880	0.00	2000	
Ca	43	2	He	17694.579	17694.579	1.63	48998	36.11	200000	
Sb	121	2	He	0.076	0.076	23.95	487	0.02	2000	
Ti	47	2	He	13.884	13.884	35.29	3447	0.40	2000	
Cu	63	1	No Gas	0.456	0.456	13.06	9981	0.00	2000	
Zn	66	1	No Gas	4.703	4.703	1.66	15926	0.03	2000	
Se	82	1	No Gas	1.276	1.276	2.59	205	0.62	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	766986	1.29	768064	99.86	70	120	
Ge	72	2	He	665945	0.32	709415	93.87	70	120	
Ge	72	1	No Gas	2217294	2.22	2282452	97.15	70	120	
In	115	1	No Gas	2326379	0.50	2434568	95.56	70	120	

Sample Report

Bi	209	1	No Gas	1945379	4.05	2062007	94.34	70	120	

Sample Report

Sample Table

Sample Name	HS23061557-08
Data File Name	160SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:27:23-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	5.529	5.529	0.94	110077	0.01	2000	
Be	9	1	No Gas	0.042	0.042	9.17	160	0.03	2000	
V	51	2	He	0.683	0.683	11.41	7268	0.01	2000	
Cr	52	2	He	8.481	8.481	3.53	73307	0.01	2000	
Fe	56	2	He	980.889	980.889	1.41	5806371	0.02	200000	
Se	78	2	He	-0.351	-0.351	-7.42	229	-0.15	2000	
As	75	2	He	0.214	0.214	16.71	503	0.04	2000	
Ca	44	2	He	52322.233	52322.233	3.26	2471865	2.12	200000	
Na	23	2	He	39765.376	39765.376	1.68	43270441	0.09	200000	
Mg	24	2	He	12818.357	12818.357	1.72	8345443	0.15	200000	
K	39	2	He	521.658	521.658	3.30	693562	0.08	200000	
Mn	55	2	He	121.171	121.171	1.71	655884	0.02	2000	
Co	59	2	He	6.254	6.254	2.03	57531	0.01	2000	
Ni	60	2	He	362.700	362.700	1.49	804795	0.05	2000	
Cu	63	2	He	3.452	3.452	0.92	21264	0.02	2000	
Zn	66	2	He	3.104	3.104	5.47	4201	0.07	2000	
Al	27	2	He	661.181	661.181	2.15	316399	0.21	2000	
B	11	1	No Gas	-5.127	-5.127	-5.40	41344	-0.01	2000	
Al	27	1	No Gas	833.731	833.731	30.46	11116051	0.01	2000	
Si	28	1	No Gas	13471.283	13471.283	7.03	92579229	0.01	2000	>LDR
Ag	107	1	No Gas	0.003	0.003	90.55	147	0.00	2000	
Cd	111	1	No Gas	0.211	0.211	6.08	599	0.04	2000	
Sr	88	1	No Gas	512.344	512.344	1.60	14087624	0.00	2000	
Mo	95	1	No Gas	1.124	1.124	6.58	6832	0.02	2000	
Sn	118	1	No Gas	0.064	0.064	16.99	1417	0.00	2000	
Sb	121	1	No Gas	0.172	0.172	15.91	2210	0.01	2000	
Ba	137	1	No Gas	436.956	436.956	1.73	2021704	0.02	2000	
Tl	205	1	No Gas	0.009	0.009	52.72	393	0.00	2000	
Tl	203	1	No Gas	0.008	0.008	5.80	150	0.01	2000	
Pb	208	1	No Gas	0.309	0.309	12.70	10454	0.00	2000	
U	238	1	No Gas	1.426	1.426	5.56	43083	0.00	2000	
Ca	43	2	He	51725.325	51725.325	2.57	147761	35.01	200000	
Sb	121	2	He	0.194	0.194	10.93	1230	0.02	2000	
Ti	47	2	He	18.593	18.593	30.97	4775	0.39	2000	
Cu	63	1	No Gas	3.832	3.832	4.29	47062	0.01	2000	
Zn	66	1	No Gas	2.870	2.870	3.48	10234	0.03	2000	
Se	82	1	No Gas	0.445	0.445	25.75	34	1.30	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	780286	1.16	768064	101.59	70	120	
Ge	72	2	He	687492	1.52	709415	96.91	70	120	
Ge	72	1	No Gas	2233708	3.08	2282452	97.86	70	120	
In	115	1	No Gas	2378631	0.15	2434568	97.70	70	120	

Sample Report

Bi	209	1	No Gas	1970154	4.23	2062007	95.55	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	167_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:41:42-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	94.817	5.699	960416	1.51	100	94.8	90	110	
Be	9	1	No Gas	93.775	3.357	297259	1.17	100	93.8	90	110	
V	51	2	He	95.574	1.203	545873	0.24	100	95.6	90	110	
Cr	52	2	He	95.844	1.377	611556	0.41	100	95.8	90	110	
Fe	56	2	He	9696.028	2.814	52198704	1.67	10000	97.0	90	110	
Se	78	2	He	96.295	0.668	10445	0.81	100	96.3	90	110	
As	75	2	He	95.525	1.897	95873	0.96	100	95.5	90	110	
Ca	44	2	He	9905.042	1.673	427715	0.98	10000	99.1	90	110	
Na	23	2	He	9766.464	1.168	9732284	0.05	10000	97.7	90	110	
Mg	24	2	He	9789.420	1.042	5813704	0.55	10000	97.9	90	110	
K	39	2	He	9893.658	1.235	8973943	0.98	10000	98.9	90	110	
Mn	55	2	He	97.164	1.409	479870	0.27	100	97.2	90	110	
Co	59	2	He	93.748	1.696	785533	0.60	100	93.7	90	110	
Ni	60	2	He	96.989	2.336	196491	1.51	100	97.0	90	110	
Cu	63	2	He	94.585	1.264	479828	0.23	100	94.6	90	110	
Zn	66	2	He	96.182	0.281	108672	1.15	100	96.2	90	110	
Al	27	2	He	96.082	1.814	42425	0.72	100	96.1	90	110	
B	11	1	No Gas	449.191	5.797	844605	1.11	500	89.8	90	110	CCV Main CR1-2 Failed
Al	27	1	No Gas	102.615	1.545	1255381	1.67	100	102.6	90	110	
Si	28	1	No Gas	521.694	3.548	3482796	1.87	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.577	2.447	1273552	3.30	100	99.6	90	110	
Cd	111	1	No Gas	95.693	0.281	242739	1.21	100	95.7	90	110	
Sr	88	1	No Gas	102.093	1.049	2537493	1.00	100	102.1	90	110	
Mo	95	1	No Gas	96.408	0.738	494932	1.66	100	96.4	90	110	
Sn	118	1	No Gas	98.379	0.285	742685	1.21	100	98.4	90	110	
Sb	121	1	No Gas	94.543	2.393	1055128	1.30	100	94.5	90	110	
Ba	137	1	No Gas	96.312	1.139	402837	1.60	100	96.3	90	110	
Tl	205	1	No Gas	102.411	1.732	2010279	0.59	100	102.4	90	110	
Tl	203	1	No Gas	100.874	3.024	832502	1.08	100	100.9	90	110	
Pb	208	1	No Gas	94.464	3.091	2736483	0.91	100	94.5	90	110	
U	238	1	No Gas	95.763	2.805	2666709	0.75	100	95.8	90	110	
Ca	43	2	He	9602.004	0.636	25050	0.68	10000	96.0	90	110	
Sb	121	2	He	94.381	1.160	529647	0.36	100	94.4	90	110	
Ti	47	2	He	96.379	0.760	22455	1.65	100	96.4	90	110	
Cu	63	1	No Gas	98.366	0.650	988690	1.03	100	98.4	90	110	
Se	82	1	No Gas	96.013	3.085	18097	3.56	100	96.0	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	719947	4.50	768064	93.74	70	120	
Ge	72	2	He	627048	1.14	709415	88.39	70	120	
Ge	72	1	No Gas	2036811	1.48	2282452	89.24	70	120	
In	115	1	No Gas	2149633	0.93	2434568	88.30	70	120	
Bi	209	1	No Gas	1815990	2.24	2062007	88.07	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	168_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:43:34-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	Upper Limit	QC Flag
Li	7	1	No Gas	0.350	25.2	50699	1.0	0.5	
Be	9	1	No Gas	0.003	131.3	23	53.9	0.5	
V	51	2	He	-0.093	-25.4	2206	5.7	2.5	
Cr	52	2	He	0.345	17.2	16030	2.2	2.5	
Fe	56	2	He	2.597	6.5	29116	2.8	100	
Se	78	2	He	-0.011	-820.6	243	3.9	2	
As	75	2	He	0.038	128.5	280	16.9	2.5	
Ca	44	2	He	-0.594	-402.6	980	10.4	100	
Na	23	2	He	75.660	4.8	125147	2.7	100	
Mg	24	2	He	1.379	14.5	1240	9.8	100	
K	39	2	He	36.067	7.8	199003	1.0	100	
Mn	55	2	He	0.124	14.3	1337	6.4	2.5	
Co	59	2	He	0.006	206.4	123	88.9	2.5	
Ni	60	2	He	0.046	83.5	367	21.2	2.5	
Cu	63	2	He	-0.229	-3.8	790	5.8	2	
Zn	66	2	He	0.444	18.8	830	11.5	2.5	
Al	27	2	He	0.061	503.5	590	22.0	5	
B	11	1	No Gas	-5.164	-27.5	37343	4.9	0.5	
Al	27	1	No Gas	0.134	71.0	15266	8.1	5	
Si	28	1	No Gas	4.360	16.6	242395	0.5	10	
Ag	107	1	No Gas	0.002	106.5	123	20.4	2.5	
Cd	111	1	No Gas	0.004	213.3	16	133.4	1	
Sr	88	1	No Gas	0.108	10.9	3467	9.4	2.5	
Mo	95	1	No Gas	0.032	52.4	577	15.7	2.5	
Sn	118	1	No Gas	0.103	31.4	1580	16.3	5	
Sb	121	1	No Gas	0.367	14.2	4144	12.5	2.5	
Ba	137	1	No Gas	0.045	27.7	337	14.7	2.5	
Tl	205	1	No Gas	0.231	31.2	4648	33.1	1	
Tl	203	1	No Gas	0.226	29.9	1904	32.0	1	
Pb	208	1	No Gas	-0.003	-88.0	610	14.3	2.5	
U	238	1	No Gas	0.021	20.3	607	22.0	2.5	
Ca	43	2	He	4.313	104.6	43	26.6	100	
Sb	121	2	He	0.313	5.9	1773	5.7	2.5	
Ti	47	2	He	0.009	761.0	17	91.7	2.5	
Cu	63	1	No Gas	-0.272	-5.4	1857	7.7	2.5	
Se	82	1	No Gas	0.144	114.6	-26	-119.0	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	706661	2.33	768064	92.01	70	120	
Ge	72	2	He	622297	0.33	709415	87.72	70	120	
Ge	72	1	No Gas	2009497	1.32	2282452	88.04	70	120	
In	115	1	No Gas	2154657	0.98	2434568	88.50	70	120	
Bi	209	1	No Gas	1773987	3.29	2062007	86.03	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08MS
Data File Name	175SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:09:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	101.548	101.548	1.20	1344697	0.01	2000	
Be	9	1	No Gas	52.382	52.382	0.40	217682	0.02	2000	
V	51	2	He	50.187	50.187	1.76	379922	0.01	2000	
Cr	52	2	He	67.852	67.852	2.31	576598	0.01	2000	
Fe	56	2	He	5899.486	5899.486	2.33	41914538	0.01	200000	
Se	78	2	He	52.057	52.057	1.01	7600	0.68	2000	
As	75	2	He	51.490	51.490	0.98	68342	0.08	2000	
Ca	44	2	He	26028.621	26028.621	2.70	1481005	1.76	200000	
Na	23	2	He	170494.099	170494.099	1.52	223059003	0.08	200000	
Mg	24	2	He	22482.230	22482.230	1.98	17614436	0.13	200000	
K	39	2	He	6953.010	6953.010	2.01	8386554	0.08	200000	
Mn	55	2	He	609.422	609.422	2.76	3965581	0.02	2000	
Co	59	2	He	64.167	64.167	1.19	709501	0.01	2000	
Ni	60	2	He	1197.989	1197.989	1.56	3198307	0.04	2000	
Cu	63	2	He	49.713	49.713	1.83	333961	0.01	2000	
Zn	66	2	He	52.172	52.172	2.32	77967	0.07	2000	
Al	27	2	He	92.953	92.953	0.94	54186	0.17	2000	
B	11	1	No Gas	473.250	473.250	1.43	1164035	0.04	2000	
Al	27	1	No Gas	100.416	100.416	3.37	1655754	0.01	2000	
Si	28	1	No Gas	11036.677	11036.677	0.59	93388009	0.01	2000	>LDR
Ag	107	1	No Gas	49.347	49.347	1.21	840009	0.01	2000	
Cd	111	1	No Gas	51.590	51.590	1.69	174187	0.03	2000	
Sr	88	1	No Gas	529.125	529.125	1.30	17501072	0.00	2000	
Mo	95	1	No Gas	53.114	53.114	0.85	363174	0.01	2000	
Sn	118	1	No Gas	93.153	93.153	0.70	936111	0.01	2000	
Sb	121	1	No Gas	51.970	51.970	1.69	781769	0.01	2000	
Ba	137	1	No Gas	459.828	459.828	1.77	2559168	0.02	2000	
Tl	205	1	No Gas	49.389	49.389	1.50	1251846	0.00	2000	
Tl	203	1	No Gas	48.109	48.109	1.64	512763	0.01	2000	
Pb	208	1	No Gas	49.236	49.236	1.35	1842341	0.00	2000	
U	238	1	No Gas	94.226	94.226	1.58	3388660	0.00	2000	
Ca	43	2	He	25997.496	25997.496	2.83	89399	29.08	200000	
Sb	121	2	He	51.413	51.413	3.35	380617	0.01	2000	
Ti	47	2	He	136.022	136.022	1.98	41800	0.33	2000	
Cu	63	1	No Gas	52.435	52.435	1.50	713110	0.01	2000	
Zn	66	1	No Gas	52.396	52.396	0.73	205413	0.03	2000	
Se	82	1	No Gas	52.815	52.815	2.93	13385	0.39	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	942843	1.64	768064	122.76	70	120	ISTD Failed
Ge	72	2	He	827421	1.82	709415	116.63	70	120	
Ge	72	1	No Gas	2744838	0.94	2282452	120.26	70	120	ISTD Failed
In	115	1	No Gas	2861323	0.35	2434568	117.53	70	120	
Bi	209	1	No Gas	2344387	1.41	2062007	113.69	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	179_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:17:00-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	Fail
ISTD Pass/Fail	Fail

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	99.964	3.103	1308653	2.57	100	100.0	90	110	
Be	9	1	No Gas	98.513	0.850	404447	0.82	100	98.5	90	110	
V	51	2	He	83.099	31.991	420851	88.70	100	83.1	90	110	CCV Main CR1-2 Failed
Cr	52	2	He	144.273	54.533	472549	88.64	100	144.3	90	110	CCV Main CR1-2 Failed
Fe	56	2	He	8681.630	26.190	40278482	88.68	10000	86.8	90	110	CCV Main CR1-2 Failed
Se	78	2	He	609.697	145.142	8060	87.17	100	609.7	90	110	CCV Main CR1-2 Failed
As	75	2	He	118.911	31.949	73140	89.24	100	118.9	90	110	CCV Main CR1-2 Failed
Ca	44	2	He	87836.149	153.080	332775	86.64	10000	878.4	90	110	CCV Main CR1-2 Failed
Na	23	2	He	111559.603	157.547	7591972	85.43	10000	1115.6	90	110	CCV Main CR1-2 Failed
Mg	24	2	He	34834.915	122.755	4523819	87.93	10000	348.3	90	110	CCV Main CR1-2 Failed
K	39	2	He	69075.191	147.905	6894861	87.15	10000	690.8	90	110	CCV Main CR1-2 Failed
Mn	55	2	He	93.109	13.625	371198	88.79	100	93.1	90	110	
Co	59	2	He	80.013	41.568	623212	89.51	100	80.0	90	110	CCV Main CR1-2 Failed
Ni	60	2	He	92.050	16.810	153061	88.48	100	92.0	90	110	
Cu	63	2	He	105.454	13.027	370541	88.52	100	105.5	90	110	
Zn	66	2	He	66.786	87.022	84829	88.67	100	66.8	90	110	CCV Main CR1-2 Failed
Al	27	2	He	154.727	57.658	34088	88.22	100	154.7	90	110	CCV Main CR1-2 Failed
B	11	1	No Gas	464.832	0.794	1130574	0.76	500	93.0	90	110	
Al	27	1	No Gas	105.855	4.241	1687684	2.23	100	105.9	90	110	
Si	28	1	No Gas	522.416	2.967	4548322	0.73	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.823	1.472	1699640	0.48	100	98.8	90	110	
Cd	111	1	No Gas	97.962	2.697	334152	0.87	100	98.0	90	110	
Sr	88	1	No Gas	100.786	2.675	3368662	0.81	100	100.8	90	110	
Mo	95	1	No Gas	97.366	2.552	672157	1.17	100	97.4	90	110	
Sn	118	1	No Gas	98.826	2.025	1003314	0.10	100	98.8	90	110	
Sb	121	1	No Gas	100.243	3.755	1458826	2.10	100	100.2	90	110	
Ba	137	1	No Gas	96.775	2.690	544326	1.48	100	96.8	90	110	
Tl	205	1	No Gas	98.951	0.909	2526620	2.34	100	99.0	90	110	
Tl	203	1	No Gas	97.749	0.794	1049475	1.63	100	97.7	90	110	
Pb	208	1	No Gas	97.643	1.828	3679430	1.51	100	97.6	90	110	
U	238	1	No Gas	98.627	1.079	3572527	0.92	100	98.6	90	110	
Ca	43	2	He	109353.330	157.342	19842	87.11	10000	1093.5	90	110	CCV Main CR1-2 Failed
Sb	121	2	He	75.521	53.450	415563	89.15	100	75.5	90	110	CCV Main CR1-2 Failed
Ti	47	2	He	229.104	96.609	17691	88.15	100	229.1	90	110	CCV Main CR1-2 Failed
Cu	63	1	No Gas	100.559	3.888	1317630	2.23	100	100.6	90	110	
Se	82	1	No Gas	100.916	3.145	24802	1.00	100	100.9	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	931510	0.40	768064	121.28	70	120	ISTD Failed
Ge	72	2	He	468638	88.10	709415	66.06	70	120	ISTD Failed
Ge	72	1	No Gas	2656789	2.39	2282452	116.40	70	120	
In	115	1	No Gas	2891664	1.94	2434568	118.78	70	120	
Bi	209	1	No Gas	2361510	1.78	2062007	114.52	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	180_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:19:04-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.051	-299.9	62436	1.7	0.5	
Be	9	1	No Gas	0.011	2.5	63	4.6	0.5	
V	51	2	He	-0.072	-25.4	2979	3.9	2.5	
Cr	52	2	He	0.069	140.7	18383	4.6	2.5	
Fe	56	2	He	2.120	13.7	34104	5.4	100	
Se	78	2	He	-0.538	-17.0	241	5.6	2	
As	75	2	He	0.007	332.0	321	9.4	2.5	
Ca	44	2	He	-0.196	-200.5	1280	1.4	100	
Na	23	2	He	17.552	15.6	87265	3.4	100	
Mg	24	2	He	1.272	22.2	1510	13.6	100	
K	39	2	He	0.664	251.1	215348	0.8	100	
Mn	55	2	He	0.132	17.5	1770	7.8	2.5	
Co	59	2	He	0.004	65.9	130	20.4	2.5	
Ni	60	2	He	0.157	77.0	757	40.5	2.5	
Cu	63	2	He	-0.212	-9.2	1123	10.7	2	
Zn	66	2	He	1.499	28.7	2577	23.3	2.5	
Al	27	2	He	0.149	153.0	807	15.2	5	
B	11	1	No Gas	-13.123	-8.3	31213	5.0	0.5	
Al	27	1	No Gas	0.127	58.1	19411	5.6	5	
Si	28	1	No Gas	5.244	18.1	317130	1.9	10	
Ag	107	1	No Gas	0.006	33.0	233	15.1	2.5	
Cd	111	1	No Gas	0.000	2050.4	9	233.7	1	
Sr	88	1	No Gas	0.028	9.9	1914	2.9	2.5	
Mo	95	1	No Gas	0.091	47.0	1137	22.4	2.5	
Sn	118	1	No Gas	0.234	17.3	3334	8.2	5	
Sb	121	1	No Gas	0.210	0.2	3087	0.7	2.5	
Ba	137	1	No Gas	0.589	17.7	3394	12.9	2.5	
Tl	205	1	No Gas	0.599	35.7	15007	36.6	1	
Tl	203	1	No Gas	0.620	30.6	6512	31.5	1	
Pb	208	1	No Gas	0.058	31.7	2977	22.5	2.5	
U	238	1	No Gas	0.022	43.2	807	41.5	2.5	
Ca	43	2	He	4.621	228.5	57	62.0	100	
Sb	121	2	He	0.213	7.6	1560	6.9	2.5	
Ti	47	2	He	0.116	72.6	53	47.2	2.5	
Cu	63	1	No Gas	-0.275	-6.2	2344	9.8	2.5	
Se	82	1	No Gas	0.413	30.9	31	97.4	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	940892	3.29	768064	122.50	70	120	ISTD Failed
Ge	72	2	He	798950	0.58	709415	112.62	70	120	
Ge	72	1	No Gas	2570922	0.73	2282452	112.64	70	120	
In	115	1	No Gas	2802263	3.51	2434568	115.10	70	120	
Bi	209	1	No Gas	2276192	3.10	2062007	110.39	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	182_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:24:39-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	97.848	4.878	1232533	2.56	100	97.8	90	110	
Be	9	1	No Gas	95.360	3.874	376313	1.28	100	95.4	90	110	
V	51	2	He	93.469	0.820	676009	0.27	100	93.5	90	110	
Cr	52	2	He	93.631	1.069	756880	1.29	100	93.6	90	110	
Fe	56	2	He	9468.719	2.221	64544181	1.32	10000	94.7	90	110	
Se	78	2	He	94.187	2.213	12941	1.32	100	94.2	90	110	
As	75	2	He	92.380	0.765	117415	1.42	100	92.4	90	110	
Ca	44	2	He	9720.910	0.298	531543	1.18	10000	97.2	90	110	
Na	23	2	He	9492.555	1.286	11978335	0.57	10000	94.9	90	110	
Mg	24	2	He	9581.234	2.307	7203843	1.71	10000	95.8	90	110	
K	39	2	He	9627.413	1.759	11061262	0.82	10000	96.3	90	110	
Mn	55	2	He	95.100	1.031	594702	0.43	100	95.1	90	110	
Co	59	2	He	91.237	0.919	967984	0.01	100	91.2	90	110	
Ni	60	2	He	94.899	1.250	243438	0.35	100	94.9	90	110	
Cu	63	2	He	93.291	1.746	599221	1.00	100	93.3	90	110	
Zn	66	2	He	93.922	1.492	134354	0.70	100	93.9	90	110	
Al	27	2	He	97.309	2.504	54390	1.66	100	97.3	90	110	
B	11	1	No Gas	455.025	3.867	1065317	2.83	500	91.0	90	110	
Al	27	1	No Gas	106.705	1.567	1609256	1.40	100	106.7	90	110	
Si	28	1	No Gas	528.272	0.709	4347373	1.23	5000	10.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.636	1.681	1548974	0.85	100	97.6	90	110	
Cd	111	1	No Gas	96.008	2.119	302129	1.55	100	96.0	90	110	
Sr	88	1	No Gas	100.733	3.781	3105181	1.61	100	100.7	90	110	
Mo	95	1	No Gas	96.966	2.242	617497	0.92	100	97.0	90	110	
Sn	118	1	No Gas	96.692	2.201	905547	1.23	100	96.7	90	110	
Sb	121	1	No Gas	97.155	2.195	1337354	1.77	100	97.2	90	110	
Ba	137	1	No Gas	94.656	2.747	491082	0.34	100	94.7	90	110	
Tl	205	1	No Gas	94.775	1.542	2313361	0.49	100	94.8	90	110	
Tl	203	1	No Gas	93.179	1.293	956426	0.27	100	93.2	90	110	
Pb	208	1	No Gas	94.516	1.152	3405446	0.38	100	94.5	90	110	
U	238	1	No Gas	95.817	2.716	3318086	1.64	100	95.8	90	110	
Ca	43	2	He	9486.389	0.851	31336	1.59	10000	94.9	90	110	
Sb	121	2	He	95.060	1.396	675409	0.79	100	95.1	90	110	
Ti	47	2	He	96.804	2.077	28553	1.89	100	96.8	90	110	
Cu	63	1	No Gas	98.645	0.831	1222786	0.95	100	98.6	90	110	
Se	82	1	No Gas	96.115	1.313	22341	1.24	100	96.1	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	895977	2.63	768064	116.65	70	120	
Ge	72	2	He	793896	0.91	709415	111.91	70	120	
Ge	72	1	No Gas	2511899	0.87	2282452	110.05	70	120	
In	115	1	No Gas	2667612	2.54	2434568	109.57	70	120	
Bi	209	1	No Gas	2257823	1.09	2062007	109.50	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	183_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:26:42-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	98.041	5.712	1239426	1.68	100	98.0	90	110	
Be	9	1	No Gas	95.589	3.488	378772	0.41	100	95.6	90	110	
V	51	2	He	94.202	0.887	677061	1.42	100	94.2	90	110	
Cr	52	2	He	95.100	1.376	763676	1.63	100	95.1	90	110	
Fe	56	2	He	9558.840	2.067	64752892	1.39	10000	95.6	90	110	
Se	78	2	He	94.961	0.765	12964	0.21	100	95.0	90	110	
As	75	2	He	94.172	0.976	118929	0.22	100	94.2	90	110	
Ca	44	2	He	9795.530	1.248	532248	1.34	10000	98.0	90	110	
Na	23	2	He	9486.701	1.226	11896271	0.67	10000	94.9	90	110	
Mg	24	2	He	9725.778	0.330	7267530	0.82	10000	97.3	90	110	
K	39	2	He	9586.907	0.663	10947481	0.23	10000	95.9	90	110	
Mn	55	2	He	96.071	0.817	597022	0.48	100	96.1	90	110	
Co	59	2	He	93.122	0.796	981861	1.13	100	93.1	90	110	
Ni	60	2	He	95.413	1.531	243225	0.91	100	95.4	90	110	
Cu	63	2	He	93.956	1.787	599714	1.27	100	94.0	90	110	
Zn	66	2	He	95.540	1.684	135809	1.18	100	95.5	90	110	
Al	27	2	He	97.840	0.590	54350	1.29	100	97.8	90	110	
B	11	1	No Gas	470.535	3.193	1104070	1.77	500	94.1	90	110	
Al	27	1	No Gas	102.803	3.797	1587945	1.01	100	102.8	90	110	
Si	28	1	No Gas	513.124	2.518	4332537	1.98	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.389	2.101	1591607	2.48	100	97.4	90	110	
Cd	111	1	No Gas	95.251	0.823	308765	0.99	100	95.3	90	110	
Sr	88	1	No Gas	98.820	0.453	3138915	0.75	100	98.8	90	110	
Mo	95	1	No Gas	94.587	0.249	620513	0.18	100	94.6	90	110	
Sn	118	1	No Gas	95.980	0.597	925953	0.29	100	96.0	90	110	
Sb	121	1	No Gas	96.916	3.906	1365821	0.99	100	96.9	90	110	
Ba	137	1	No Gas	94.451	0.945	504832	0.63	100	94.5	90	110	
Tl	205	1	No Gas	97.218	0.352	2382278	0.31	100	97.2	90	110	
Tl	203	1	No Gas	95.579	0.367	984878	0.19	100	95.6	90	110	
Pb	208	1	No Gas	94.956	0.755	3434629	1.01	100	95.0	90	110	
U	238	1	No Gas	96.689	1.495	3361759	1.70	100	96.7	90	110	
Ca	43	2	He	9685.058	0.399	31790	0.92	10000	96.9	90	110	
Sb	121	2	He	94.709	0.608	668740	0.39	100	94.7	90	110	
Ti	47	2	He	96.242	0.821	28213	1.54	100	96.2	90	110	
Cu	63	1	No Gas	97.214	3.154	1233936	0.73	100	97.2	90	110	
Se	82	1	No Gas	95.620	2.353	22762	1.62	100	95.6	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	899844	3.76	768064	117.16	70	120	
Ge	72	2	He	788927	0.75	709415	111.21	70	120	
Ge	72	1	No Gas	2573434	2.95	2282452	112.75	70	120	
In	115	1	No Gas	2747070	0.42	2434568	112.84	70	120	
Bi	209	1	No Gas	2266411	0.28	2062007	109.91	70	120	

Sample Report

Sample Table

Sample Name	LCS-197198
Data File Name	184SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:28:48-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	90.045	90.045	7.15	1151368	0.01	2000	
Be	9	1	No Gas	48.888	48.888	4.30	195111	0.03	2000	
V	51	2	He	46.600	46.600	2.11	352801	0.01	2000	
Cr	52	2	He	46.653	46.653	2.64	401960	0.01	2000	
Fe	56	2	He	4875.771	4875.771	2.07	34625887	0.01	200000	
Se	78	2	He	48.757	48.757	1.85	7134	0.68	2000	
As	75	2	He	47.122	47.122	1.43	62529	0.08	2000	
Ca	44	2	He	5034.198	5034.198	1.58	287310	1.75	200000	
Na	23	2	He	4934.764	4934.764	0.55	6518298	0.08	200000	
Mg	24	2	He	4977.558	4977.558	2.00	3897933	0.13	200000	
K	39	2	He	4962.080	4962.080	3.28	6044456	0.08	200000	
Mn	55	2	He	47.979	47.979	2.42	312925	0.02	2000	
Co	59	2	He	46.254	46.254	1.78	511120	0.01	2000	
Ni	60	2	He	47.274	47.274	1.75	126480	0.04	2000	
Cu	63	2	He	47.292	47.292	2.54	317613	0.01	2000	
Zn	66	2	He	49.092	49.092	1.52	73351	0.07	2000	
Al	27	2	He	94.935	94.935	2.70	55280	0.17	2000	
B	11	1	No Gas	346.686	346.686	4.24	834988	0.04	2000	
Al	27	1	No Gas	100.301	100.301	3.69	1595944	0.01	2000	
Si	28	1	No Gas	459.823	459.823	4.53	4025731	0.01	2000	
Ag	107	1	No Gas	48.417	48.417	1.63	813721	0.01	2000	
Cd	111	1	No Gas	48.410	48.410	0.53	161399	0.03	2000	
Sr	88	1	No Gas	90.327	90.327	1.85	2950498	0.00	2000	
Mo	95	1	No Gas	47.567	47.567	1.89	321167	0.01	2000	
Sn	118	1	No Gas	86.183	86.183	1.57	855182	0.01	2000	
Sb	121	1	No Gas	48.902	48.902	3.11	709942	0.01	2000	
Ba	137	1	No Gas	47.166	47.166	0.79	259369	0.02	2000	
Tl	205	1	No Gas	44.740	44.740	2.04	1129077	0.00	2000	
Tl	203	1	No Gas	44.731	44.731	1.37	474716	0.01	2000	
Pb	208	1	No Gas	47.397	47.397	2.03	1765820	0.00	2000	
U	238	1	No Gas	68.939	68.939	2.17	2468184	0.00	2000	
Ca	43	2	He	4960.518	4960.518	2.26	17084	29.04	200000	
Sb	121	2	He	47.979	47.979	2.76	355013	0.01	2000	
Ti	47	2	He	125.202	125.202	1.67	38454	0.33	2000	
Cu	63	1	No Gas	49.745	49.745	3.36	653134	0.01	2000	
Zn	66	1	No Gas	49.897	49.897	1.88	188881	0.03	2000	
Se	82	1	No Gas	49.869	49.869	2.77	12190	0.41	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	906355	3.43	768064	118.01	70	120	
Ge	72	2	He	826896	1.57	709415	116.56	70	120	
Ge	72	1	No Gas	2650413	3.36	2282452	116.12	70	120	
In	115	1	No Gas	2825364	1.38	2434568	116.05	70	120	

Sample Report

Bi	209	1	No Gas	2334234	1.28	2062007	113.20	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08SD
Data File Name	187SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:34:47-05:00
Sample Type	Sample
Dilution	100
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	-0.008	-0.772	-981.30	63531	0.00	2000	
Be	9	1	No Gas	0.004	0.397	108.48	35	0.01	2000	
V	51	2	He	-0.055	-5.454	-23.92	3184	0.00	2000	
Cr	52	2	He	0.276	27.576	63.93	20492	0.00	2000	
Fe	56	2	He	9.617	961.732	2.24	87570	0.01	200000	
Se	78	2	He	-0.647	-64.746	-9.60	232	-0.28	2000	
As	75	2	He	0.020	1.989	164.66	346	0.01	2000	
Ca	44	2	He	240.413	24041.284	5.74	14828	1.62	200000	
Na	23	2	He	1971.220	197121.982	1.32	2615876	0.08	200000	
Mg	24	2	He	215.721	21572.082	2.25	167666	0.13	200000	
K	39	2	He	9.476	947.631	34.71	230705	0.00	200000	
Mn	55	2	He	6.753	675.323	2.67	44403	0.02	2000	
Co	59	2	He	0.183	18.284	5.34	2090	0.01	2000	
Ni	60	2	He	13.849	1384.889	0.69	36920	0.04	2000	
Cu	63	2	He	-0.261	-26.108	-8.58	827	-0.03	2000	
Zn	66	2	He	0.296	29.571	36.63	873	0.03	2000	
Al	27	2	He	0.485	48.509	23.55	1017	0.05	2000	
B	11	1	No Gas	-13.241	-1324.116	-2.02	31246	-0.04	2000	
Al	27	1	No Gas	0.718	71.766	6.21	28974	0.00	2000	
Si	28	1	No Gas	123.674	12367.369	2.43	1276071	0.01	2000	
Ag	107	1	No Gas	-0.003	-0.255	-68.21	90	0.00	2000	
Cd	111	1	No Gas	-0.002	-0.157	-404.87	2	-0.07	2000	
Sr	88	1	No Gas	5.129	512.910	0.94	169934	0.00	2000	
Mo	95	1	No Gas	0.014	1.400	180.71	637	0.00	2000	
Sn	118	1	No Gas	0.147	14.727	50.75	2528	0.01	2000	
Sb	121	1	No Gas	0.072	7.246	8.30	1177	0.01	2000	
Ba	137	1	No Gas	4.639	463.913	0.43	25906	0.02	2000	
Tl	205	1	No Gas	0.064	6.357	15.10	1834	0.00	2000	
Tl	203	1	No Gas	0.067	6.709	10.96	797	0.01	2000	
Pb	208	1	No Gas	-0.006	-0.639	-125.05	660	0.00	2000	
U	238	1	No Gas	0.012	1.184	17.01	470	0.00	2000	
Ca	43	2	He	250.635	25063.544	11.47	893	28.05	200000	
Sb	121	2	He	0.074	7.390	11.90	580	0.01	2000	
Ti	47	2	He	-0.008	-0.829	-605.73	17	-0.05	2000	
Cu	63	1	No Gas	-0.308	-30.751	-3.84	1964	-0.02	2000	
Zn	66	1	No Gas	0.273	27.293	19.28	2350	0.01	2000	
Se	82	1	No Gas	-0.015	-1.536	-1763.41	-72	0.02	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	948672	0.94	768064	123.51	70	120	ISTD Failed
Ge	72	2	He	818085	1.48	709415	115.32	70	120	
Ge	72	1	No Gas	2618805	0.92	2282452	114.74	70	120	
In	115	1	No Gas	2849025	0.74	2434568	117.02	70	120	

Sample Report

Bi	209	1	No Gas	2313737	2.34	2062007	112.21	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08PDS
Data File Name	188SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:36:47-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	0.644	12.882	15.05	69092	0.00	2000	
Be	9	1	No Gas	89.507	1790.142	1.89	360056	0.02	2000	
V	51	2	He	88.855	1777.102	1.68	656680	0.01	2000	
Cr	52	2	He	88.693	1773.854	1.72	733354	0.01	2000	
Fe	56	2	He	9284.705	185694.106	0.75	64666281	0.01	200000	
Se	78	2	He	89.707	1794.141	1.02	12608	0.71	2000	
As	75	2	He	89.218	1784.359	1.50	115847	0.08	2000	
Ca	44	2	He	10459.918	209198.369	1.33	584174	1.79	200000	
Na	23	2	He	18890.973	377819.456	1.20	24287969	0.08	200000	
Mg	24	2	He	10352.130	207042.599	1.04	7952088	0.13	200000	
K	39	2	He	9734.210	194684.203	1.25	11423870	0.09	200000	
Mn	55	2	He	122.329	2446.589	0.92	781251	0.02	2000	
Co	59	2	He	88.777	1775.539	0.90	962259	0.01	2000	
Ni	60	2	He	156.328	3126.562	1.07	409466	0.04	2000	
Cu	63	2	He	88.383	1767.651	2.05	580092	0.02	2000	
Zn	66	2	He	90.666	1813.329	1.45	132522	0.07	2000	
Al	27	2	He	90.667	1813.335	0.22	51830	0.17	2000	
B	11	1	No Gas	-13.458	-269.151	-2.91	29569	-0.05	2000	
Al	27	1	No Gas	96.354	1927.088	4.05	1500912	0.01	2000	
Si	28	1	No Gas	592.101	11842.018	3.89	4992505	0.01	2000	
Ag	107	1	No Gas	94.363	1887.250	1.52	1545548	0.01	2000	
Cd	111	1	No Gas	90.401	1808.013	2.21	293703	0.03	2000	
Sr	88	1	No Gas	25.702	514.047	0.73	819052	0.00	2000	
Mo	95	1	No Gas	92.677	1853.549	0.90	609442	0.02	2000	
Sn	118	1	No Gas	0.065	1.302	17.68	1653	0.00	2000	
Sb	121	1	No Gas	89.635	1792.708	2.07	1273459	0.01	2000	
Ba	137	1	No Gas	113.234	2264.688	0.44	606649	0.02	2000	
Tl	205	1	No Gas	98.258	1965.154	2.50	2411631	0.00	2000	
Tl	203	1	No Gas	97.267	1945.338	2.52	1003930	0.01	2000	
Pb	208	1	No Gas	89.928	1798.559	2.45	3257933	0.00	2000	
U	238	1	No Gas	0.032	0.637	8.58	1157	0.00	2000	
Ca	43	2	He	10156.341	203126.828	0.56	34270	29.64	200000	
Sb	121	2	He	87.276	1745.521	0.97	633529	0.01	2000	
Ti	47	2	He	92.935	1858.695	1.55	28009	0.33	2000	
Cu	63	1	No Gas	93.161	1863.223	2.15	1192151	0.01	2000	
Zn	66	1	No Gas	92.210	1844.193	1.74	340365	0.03	2000	
Se	82	1	No Gas	91.256	1825.114	1.26	21886	0.42	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	912987	2.88	768064	118.87	70	120	
Ge	72	2	He	811057	0.81	709415	114.33	70	120	
Ge	72	1	No Gas	2592721	2.73	2282452	113.59	70	120	
In	115	1	No Gas	2753543	1.17	2434568	113.10	70	120	

Sample Report

Bi	209	1	No Gas	2270376	1.02	2062007	110.11	70	120	

Sample Report

Sample Table

Sample Name	HS23061557-03
Data File Name	189SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:38:52-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	3.516	70.326	4.15	103422	0.00	2000	
Be	9	1	No Gas	0.009	0.188	29.84	55	0.02	2000	
V	51	2	He	-0.025	-0.498	-122.37	3365	0.00	2000	
Cr	52	2	He	0.463	9.263	4.68	21784	0.00	2000	
Fe	56	2	He	17.997	359.949	3.56	144763	0.01	200000	
Se	78	2	He	-0.774	-15.487	-9.59	212	-0.37	2000	
As	75	2	He	0.074	1.480	2.30	411	0.02	2000	
Ca	44	2	He	16829.405	336588.106	1.78	936666	1.80	200000	
Na	23	2	He	24743.690	494873.791	2.09	31705304	0.08	200000	
Mg	24	2	He	5901.255	118025.099	0.62	4521380	0.13	200000	
K	39	2	He	296.338	5926.760	3.53	557450	0.05	200000	
Mn	55	2	He	13.531	270.611	3.27	87016	0.02	2000	
Co	59	2	He	0.271	5.421	4.78	3020	0.01	2000	
Ni	60	2	He	0.239	4.775	17.30	980	0.02	2000	
Cu	63	2	He	-0.247	-4.930	-11.31	913	-0.03	2000	
Zn	66	2	He	0.349	6.976	7.62	940	0.04	2000	
Al	27	2	He	2.670	53.397	2.82	2234	0.12	2000	
B	11	1	No Gas	-14.479	-289.579	-2.47	27073	-0.05	2000	
Al	27	1	No Gas	3.043	60.865	4.37	64540	0.00	2000	
Si	28	1	No Gas	1112.539	22250.785	1.26	9149113	0.01	2000	
Ag	107	1	No Gas	0.002	0.040	120.90	163	0.00	2000	
Cd	111	1	No Gas	0.036	0.716	32.26	125	0.03	2000	
Sr	88	1	No Gas	310.290	6205.798	1.65	9981681	0.00	2000	
Mo	95	1	No Gas	0.271	5.421	46.45	2324	0.01	2000	
Sn	118	1	No Gas	0.028	0.563	32.87	1310	0.00	2000	
Sb	121	1	No Gas	0.640	12.800	18.44	9227	0.01	2000	
Ba	137	1	No Gas	163.730	3274.603	0.56	886414	0.02	2000	
Tl	205	1	No Gas	0.047	0.943	20.12	1383	0.00	2000	
Tl	203	1	No Gas	0.043	0.869	20.14	530	0.01	2000	
Pb	208	1	No Gas	-0.003	-0.051	-57.47	780	0.00	2000	
U	238	1	No Gas	0.103	2.068	6.20	3607	0.00	2000	
Ca	43	2	He	17018.256	340365.127	2.69	57233	29.74	200000	
Sb	121	2	He	0.450	9.006	4.48	3297	0.01	2000	
Ti	47	2	He	0.169	3.384	50.60	70	0.24	2000	
Cu	63	1	No Gas	-0.152	-3.043	-7.15	3924	0.00	2000	
Zn	66	1	No Gas	0.228	4.566	7.65	2164	0.01	2000	
Se	82	1	No Gas	0.950	19.008	20.51	161	0.59	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	906364	2.46	768064	118.01	70	120	
Ge	72	2	He	808891	0.97	709415	114.02	70	120	
Ge	72	1	No Gas	2594643	0.81	2282452	113.68	70	120	
In	115	1	No Gas	2782953	1.04	2434568	114.31	70	120	

Sample Report

Bi	209	1	No Gas	2245457	1.57	2062007	108.90	70	120	

Sample Report

Sample Table

Sample Name	HS23061557-06
Data File Name	190SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:40:50-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.179	3.586	44.86	64943	0.00	2000	
Be	9	1	No Gas	0.007	0.138	64.91	47	0.01	2000	
V	51	2	He	-0.035	-0.700	-91.57	3284	0.00	2000	
Cr	52	2	He	0.196	3.910	14.29	19578	0.00	2000	
Fe	56	2	He	1950.608	39012.162	0.67	13528900	0.01	200000	
Se	78	2	He	-0.595	-11.895	-48.31	236	-0.25	2000	
As	75	2	He	0.259	5.188	5.25	649	0.04	2000	
Ca	44	2	He	841.629	16832.581	2.38	47957	1.75	200000	
Na	23	2	He	1898.058	37961.159	2.39	2486458	0.08	200000	
Mg	24	2	He	536.330	10726.607	0.56	410342	0.13	200000	
K	39	2	He	56.355	1127.103	4.89	281230	0.02	200000	
Mn	55	2	He	95.192	1903.844	0.25	604950	0.02	2000	
Co	59	2	He	0.061	1.228	14.33	753	0.01	2000	
Ni	60	2	He	0.023	0.463	190.47	417	0.01	2000	
Cu	63	2	He	-0.247	-4.944	-7.14	907	-0.03	2000	
Zn	66	2	He	0.295	5.906	24.50	860	0.03	2000	
Al	27	2	He	7.117	142.330	4.29	4721	0.15	2000	
B	11	1	No Gas	-15.979	-319.590	-0.90	24466	-0.07	2000	
Al	27	1	No Gas	8.750	174.997	4.85	152933	0.01	2000	
Si	28	1	No Gas	1060.097	21201.938	2.72	8755778	0.01	2000	
Ag	107	1	No Gas	0.002	0.041	158.87	163	0.00	2000	
Cd	111	1	No Gas	0.002	0.032	103.08	13	0.01	2000	
Sr	88	1	No Gas	16.563	331.255	3.87	534756	0.00	2000	
Mo	95	1	No Gas	-0.006	-0.130	-54.12	487	0.00	2000	
Sn	118	1	No Gas	0.022	0.442	47.33	1253	0.00	2000	
Sb	121	1	No Gas	0.165	3.310	11.01	2497	0.01	2000	
Ba	137	1	No Gas	14.595	291.895	3.89	79329	0.02	2000	
Tl	205	1	No Gas	0.011	0.220	47.04	523	0.00	2000	
Tl	203	1	No Gas	0.010	0.208	27.33	200	0.01	2000	
Pb	208	1	No Gas	-0.005	-0.107	-22.44	703	0.00	2000	
U	238	1	No Gas	0.004	0.085	18.76	200	0.00	2000	
Ca	43	2	He	887.403	17748.054	5.87	3017	29.41	200000	
Sb	121	2	He	0.171	3.422	10.03	1273	0.01	2000	
Ti	47	2	He	0.204	4.076	16.94	80	0.25	2000	
Cu	63	1	No Gas	-0.297	-5.935	-5.65	2087	-0.01	2000	
Zn	66	1	No Gas	0.185	3.701	33.12	2010	0.01	2000	
Se	82	1	No Gas	-0.103	-2.064	-248.39	-93	0.11	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	934747	1.31	768064	121.70	70	120	ISTD Failed
Ge	72	2	He	806742	0.47	709415	113.72	70	120	
Ge	72	1	No Gas	2602050	0.61	2282452	114.00	70	120	
In	115	1	No Gas	2789400	2.36	2434568	114.57	70	120	

Sample Report

Bi	209	1	No Gas	2327732	2.05	2062007	112.89	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	193_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:46:41-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	101.236	2.249	1220354	1.09	100	101.2	90	110	
Be	9	1	No Gas	98.245	2.244	371585	0.40	100	98.2	90	110	
V	51	2	He	94.518	1.128	684886	1.04	100	94.5	90	110	
Cr	52	2	He	94.781	0.870	767418	0.79	100	94.8	90	110	
Fe	56	2	He	9645.921	1.942	65884524	1.79	10000	96.5	90	110	
Se	78	2	He	95.087	2.461	13088	2.50	100	95.1	90	110	
As	75	2	He	94.220	0.865	119972	0.76	100	94.2	90	110	
Ca	44	2	He	9885.781	0.375	541558	0.38	10000	98.9	90	110	
Na	23	2	He	9566.744	0.747	12095232	0.64	10000	95.7	90	110	
Mg	24	2	He	9705.563	2.153	7311841	2.00	10000	97.1	90	110	
K	39	2	He	9625.947	2.674	11081842	2.63	10000	96.3	90	110	
Mn	55	2	He	97.002	0.615	607764	0.52	100	97.0	90	110	
Co	59	2	He	93.674	1.142	995778	0.99	100	93.7	90	110	
Ni	60	2	He	95.074	1.527	244368	1.49	100	95.1	90	110	
Cu	63	2	He	94.182	1.498	606125	1.37	100	94.2	90	110	
Zn	66	2	He	96.421	2.827	138189	2.67	100	96.4	90	110	
Al	27	2	He	98.052	1.149	54912	1.22	100	98.1	90	110	
B	11	1	No Gas	462.445	2.451	1036765	2.93	500	92.5	90	110	
Al	27	1	No Gas	104.601	2.161	1596906	2.20	100	104.6	90	110	
Si	28	1	No Gas	513.064	2.201	4280919	2.27	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	96.816	1.023	1554830	1.95	100	96.8	90	110	
Cd	111	1	No Gas	95.629	0.263	304618	1.27	100	95.6	90	110	
Sr	88	1	No Gas	99.832	1.578	3115665	0.12	100	99.8	90	110	
Mo	95	1	No Gas	96.026	0.476	619039	1.26	100	96.0	90	110	
Sn	118	1	No Gas	97.049	1.208	919958	0.38	100	97.0	90	110	
Sb	121	1	No Gas	97.688	2.480	1360971	2.46	100	97.7	90	110	
Ba	137	1	No Gas	96.256	0.167	505583	1.34	100	96.3	90	110	
Tl	205	1	No Gas	97.186	2.054	2334663	1.80	100	97.2	90	110	
Tl	203	1	No Gas	96.056	1.798	970305	1.22	100	96.1	90	110	
Pb	208	1	No Gas	96.017	1.589	3404642	1.17	100	96.0	90	110	
U	238	1	No Gas	96.790	1.161	3299002	0.32	100	96.8	90	110	
Ca	43	2	He	9554.668	1.426	31620	1.28	10000	95.5	90	110	
Sb	121	2	He	95.655	1.107	680973	0.96	100	95.7	90	110	
Ti	47	2	He	96.176	2.802	28423	2.72	100	96.2	90	110	
Cu	63	1	No Gas	97.201	0.774	1219478	0.67	100	97.2	90	110	
Se	82	1	No Gas	97.846	1.072	23019	1.28	100	97.8	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	858405	1.99	768064	111.76	70	120	
Ge	72	2	He	795408	0.16	709415	112.12	70	120	
Ge	72	1	No Gas	2542106	0.21	2282452	111.38	70	120	
In	115	1	No Gas	2699548	1.50	2434568	110.88	70	120	
Bi	209	1	No Gas	2222065	1.45	2062007	107.76	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	194_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:48:35-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	Upper Limit	QC Flag
Li	7	1	No Gas	0.010	1182.3	60667	2.7	0.5	
Be	9	1	No Gas	0.009	75.5	53	51.6	0.5	
V	51	2	He	-0.107	-4.7	2781	0.8	2.5	
Cr	52	2	He	0.074	104.5	18790	2.8	2.5	
Fe	56	2	He	0.663	16.1	24596	2.5	100	
Se	78	2	He	-0.616	-21.1	235	6.8	2	
As	75	2	He	0.017	119.3	340	8.4	2.5	
Ca	44	2	He	-3.806	-33.2	1103	5.8	100	
Na	23	2	He	9.446	8.6	78584	1.6	100	
Mg	24	2	He	0.541	14.8	977	5.9	100	
K	39	2	He	-9.124	-9.6	208350	1.3	100	
Mn	55	2	He	0.071	7.6	1413	1.6	2.5	
Co	59	2	He	0.001	153.4	107	21.7	2.5	
Ni	60	2	He	0.030	138.8	440	25.8	2.5	
Cu	63	2	He	-0.259	-9.7	840	20.3	2	
Zn	66	2	He	0.388	12.2	1003	6.1	2.5	
Al	27	2	He	-0.221	-39.2	613	7.5	5	
B	11	1	No Gas	-12.242	-4.6	31953	3.2	0.5	
Al	27	1	No Gas	-0.018	-45.0	17451	1.0	5	
Si	28	1	No Gas	-3.909	-8.3	248348	0.6	10	
Ag	107	1	No Gas	0.009	87.9	277	45.2	2.5	
Cd	111	1	No Gas	-0.001	-491.0	5	234.9	1	
Sr	88	1	No Gas	0.009	26.9	1320	5.3	2.5	
Mo	95	1	No Gas	0.064	31.8	963	13.1	2.5	
Sn	118	1	No Gas	0.214	20.6	3150	12.4	5	
Sb	121	1	No Gas	0.138	11.9	2100	9.9	2.5	
Ba	137	1	No Gas	0.040	7.3	413	5.0	2.5	
Tl	205	1	No Gas	0.805	33.4	19847	32.6	1	
Tl	203	1	No Gas	0.797	34.7	8250	34.0	1	
Pb	208	1	No Gas	0.000	5892.3	877	7.4	2.5	
U	238	1	No Gas	0.027	37.9	973	35.7	2.5	
Ca	43	2	He	1.328	557.4	47	53.9	100	
Sb	121	2	He	0.109	16.7	830	15.8	2.5	
Ti	47	2	He	0.003	1273.3	20	50.0	2.5	
Cu	63	1	No Gas	-0.314	-2.8	1874	5.7	2.5	
Se	82	1	No Gas	0.470	74.2	45	188.2	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Blank (CCB) Report

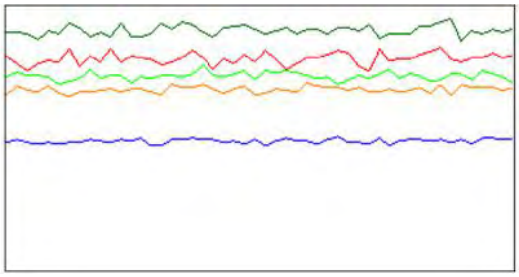
Li	6	1	No Gas	902603	0.86	768064	117.52	70	120	
Ge	72	2	He	814965	0.82	709415	114.88	70	120	
Ge	72	1	No Gas	2607955	1.23	2282452	114.26	70	120	
In	115	1	No Gas	2813228	1.31	2434568	115.55	70	120	
Bi	209	1	No Gas	2256057	1.27	2062007	109.41	70	120	

Tune Check Report

Operator Name	ALSHS.NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq. Date-Time	7/7/2023 9:57:41 AM
Report Comment	---
Instrument Name	G8421A SG18523544

[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	5000	4020	40200.90		
24	20000	14752	147517.71		
59	50000	24578	245775.10		
115	50000	34332	343319.69		
208	20000	18206	182056.63		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.812	5.000	
24	2.039	5.000	
59	1.762	5.000	
115	1.755	5.000	
208	2.104	5.000	

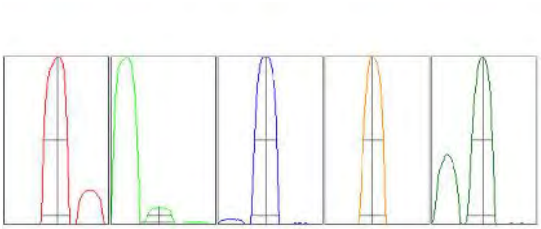
Mass	Background	Background (Required)	Background (Flag)
9	2.500		
24	1.200		
59	1.200		
115	2.100		
208	2.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.026 %
Doubly Charged	70 / 140 0.821 %

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	4138.69	9.05	8.90 - 9.10	
24	14548.82	23.90	23.90 - 24.10	
59	24827.64	58.90	58.90 - 59.10	
115	34958.64	114.90	114.90 - 115.10	
208	18199.50	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.67	0.790		
24	0.68	0.956		
59	0.64	0.819		
115	0.57	0.769		
208	0.60	0.782		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.57 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.8 V	Deflect	15.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 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	134	Axis Gain	1.0005	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.8 mm

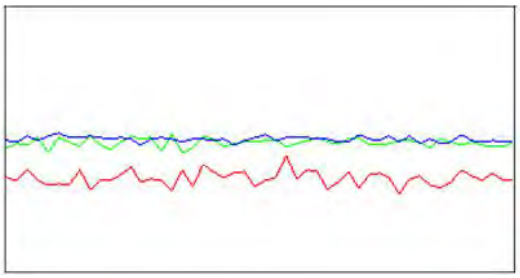
EM

Discriminator	4.5 mV	Analog HV	3004 V	Pulse HV	1633 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	177	1765.31		
24	2000	977	9773.80		
59	20000	10040	100398.78		

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

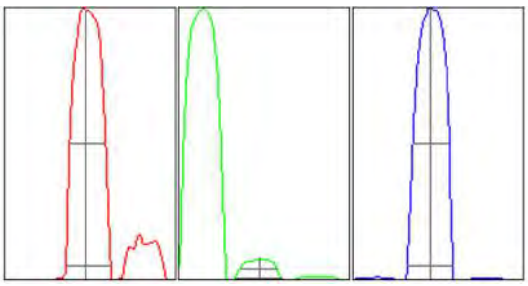
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	8.032	5.000	Fail
24	3.335	5.000	
59	1.998	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.500		
24	0.400		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.785 %
Doubly Charged	70 / 140 0.958 %

Resolution/Axis



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

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	182.52	8.95	8.90 - 9.10	
24	1025.42	23.95	23.90 - 24.10	
59	10152.13	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.787		
24	0.67	0.829		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.64	0.818		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.57 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.4 V	Deflect	0.9 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	1.0005	QP Bias	-15.0 V
Mass Offset	124	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.8 mm

EM

Discriminator	4.5 mV	Analog HV	3004 V	Pulse HV	1633 V

HS23061557-E2300588 Perchlorate Final Report IV

ALS WO# HS23061557

June 28, 2023 Service Request No:E2300588

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

Laboratory Results for: HS23061557

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory June 22, 2023
For your reference, these analyses have been assigned our service request number **E2300588.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300588
Project:	HS23061557	**Date Received:**	06/22/23
Sample Matrix:	Ground 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

Eight samples were received for analysis at ALS Environmental in Houston on 06/22/23.

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:

EQ2300306: 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 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:**E2300588
Project: HS23061557

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300588-001	18WW22_062123	6/21/2023	0700
E2300588-002	CO4_062023	6/21/2023	0745
E2300588-003	18CPTMW14_062123	6/21/2023	0840
E2300588-004	18CPTMW24_062123	6/21/2023	0935
E2300588-005	18CPTMW07_062123	6/21/2023	1020
E2300588-006	18WW25_062123	6/21/2023	1110
E2300588-007	MW10_062123	6/21/2023	1155
E2300588-008	MW20_062123	6/21/2023	1240

Service Request Summary

Folder #: **E2300588**
Client Name: ALS Environmental - US
Project Name: HS23061557
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/22/23
Internal Due Date: 7/7/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061557
EDD: No EDD Specified

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300588-001	18WW22_062123	Ground Water	06/21/23 0700	**IV**
E2300588-002	CO4_062023	Ground Water	06/21/23 0745	**IV**
E2300588-003	18CPTMW14_062123	Ground Water	06/21/23 0840	**IV**
E2300588-004	18CPTMW24_062123	Ground Water	06/21/23 0935	**IV**
E2300588-005	18CPTMW07_062123	Ground Water	06/21/23 1020	**IV**
E2300588-006	18WW25_062123	Ground Water	06/21/23 1110	**IV**
E2300588-007	MW10_062123	Ground Water	06/21/23 1155	**IV**
E2300588-008	MW20_062123	Ground Water	06/21/23 1240	**IV**

Service Request Summary

Folder #: **E2300588**
Client Name: ALS Environmental - US
Project Name: HS23061557
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/22/23
Internal Due Date: 7/7/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061557
EDD: No EDD Specified

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	1	ms/msd

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

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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 22134

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@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:	HS23061557
TSR:	Holly Tignac

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23061557-01**	**18WW22_062123**	**Water**	**21 Jun 2023 07:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
2.	**HS23061557-02**	**CO4_062023**	**Water**	**21 Jun 2023 07:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
3.	**HS23061557-03**	**18CPTMW14_062123**	**Water**	**21 Jun 2023 08:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
4.	**HS23061557-04**	**18CPTMW24_062123**	**Water**	**21 Jun 2023 09:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
5.	**HS23061557-05**	**18CPTMW07_062123**	**Water**	**21 Jun 2023 10:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
6.	**HS23061557-06**	**18WW25_062123**	**Water**	**21 Jun 2023 11:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
7.	**HS23061557-07**	**MW10_062123**	**Water**	**21 Jun 2023 11:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			07 Jul 2023
8.	**HS23061557-08**	**MW20_062123**	**Water**	**21 Jun 2023 12:40**

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 22134

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD		07 Jul 2023

Comments: CO4_062023 ms/msd

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: NIR Date/Time:

Received By: Date/Time: 6.22.23 1800

Cooler ID(s): Temperature(s):

Cooler Receipt Form

ALS Environmental

Project Chemist JG

Client/Project ALS

Thermometer ID IR1

Date/Time Received: 6.22.23 Initials: CJ

Date/Time Logged in: 6.22.23 Initials IC

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☒ Courier (ALS) ○ Client

2. Samples received in: ☒ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☒ No
   Were they intact? ○ Yes ○ No ☒ N/A
   Were they signed and dated? ○ Yes ○ No ☒ N/A
   If yes, how many and where?

4. Packing Material: ○ Inserts ☒ Baggies ○ Bubble Wrap ○ Gel Packs ☒ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		6.22.23	1300	IC	0.8	☒
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☒ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☒ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☒ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ☒ Yes ○ No
10. Did sample labels and tags agree with custody documents? ☒ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

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www.alsglobal.com

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#: 422007 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/26/23 08:27

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300577-001	18CPTMW16_061923	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300577-002	18WW14_061923	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2300577-003	CO1_061923	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2300577-004	CO1_061923_a_	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300577-005	123_061923	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2300588-001	18WW22_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300588-002	CO4_062023	.02	6850/ClO4 DOD			Ground Water	10mL	
8	E2300588-003	18CPTMW14_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2300588-004	18CPTMW24_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2300588-005	18CPTMW07_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2300588-006	18WW25_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2300588-007	MW10_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2300588-008	MW20_062123	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2300606-002	AAR3334	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2300606-003	AAR3335	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2300606-004	AAR3336	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2300606-005	AAR3339	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2300606-006	AAR3343	.01	6850/ClO4 DOD			Ground Water	10mL	
19	E2300606-007	AAR3344	.01	6850/ClO4 DOD			Ground Water	10mL	
20	E2300606-009	AAR3350	.01	6850/ClO4 DOD			Ground Water	10mL	
21	EQ2300306-01	MB		6850/ClO4			Liquid	10mL	
22	EQ2300306-02	LCS		6850/ClO4			Liquid	10mL	
23	EQ2300306-03	DLCS		6850/ClO4			Liquid	10mL	
24	EQ2300306-04	CO4_062023 MS	.02	6850/ClO4 DOD			Liquid	10mL	
25	EQ2300306-05	CO4_062023 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
26	EQ2300306-06	18WW14_061923 MS	.02	6850/ClO4 DOD			Liquid	10mL	
27	EQ2300306-07	18WW14_061923 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300306-02 1.00µL EQ2300306-02 1.00µL EQ2300306-03 1.00µL EQ2300306-03 1.00µL EQ2300306-04 1.00µL EQ2300306-05 1.00µL
EQ2300306-06 1.00µL EQ2300306-07 1.00µL

Preparation Information Benchsheet

Prep Run#: 422007 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/26/23 08:27

Name:	Perchlorate Internal Standard 1ug/mL	Inventory ID	227244	Logbook Ref:	Perchlorate Internal Standard	Expires On:	07/31/2023

E2300577-001	100.00µL	E2300577-002	100.00µL	E2300577-003	100.00µL	E2300577-004	100.00µL	E2300577-005	100.00µL	E2300588-001	100.00µL
E2300588-002	100.00µL	E2300588-003	100.00µL	E2300588-004	100.00µL	E2300588-005	100.00µL	E2300588-006	100.00µL	E2300588-007	100.00µL
E2300588-008	100.00µL	EQ2300306-01	100.00µL	EQ2300306-01	100.00µL	EQ2300306-02	100.00µL	EQ2300306-02	100.00µL	EQ2300306-03	100.00µL
EQ2300306-03	100.00µL	EQ2300306-04	100.00µL	EQ2300306-05	100.00µL	EQ2300306-06	100.00µL	EQ2300306-07	100.00µL		

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229314)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 0.45um syringe (229005)
6850 Luer-Lok Syringes	luer-lock syringes (228116)				

Preparation Steps

Step: Preparation
Started: 6/26/23 08:27
Finished: 6/26/23 09:30
By: XMI
Comments

Comments: _____

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:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0700
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18WW22_062123	**Units:**	µg/L
Lab Code:	E2300588-001	**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	**0.421**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 11:35	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0745
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	CO4_062023	**Units:**	µg/L
Lab Code:	E2300588-002	**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	**0.233**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 11:41	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0840
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18CPTMW14_062123	**Units:**	µg/L
Lab Code:	E2300588-003	**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	**4710**		50.0	25.0	12.5	500	6/26/23	6/27/23 11:57	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0935
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18CPTMW24_062123	**Units:**	µg/L
Lab Code:	E2300588-004	**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	**85.9**		0.500	0.250	0.125	5	6/26/23	6/27/23 12:53	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 1020
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18CPTMW07_062123	**Units:**	µg/L
Lab Code:	E2300588-005	**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	**1.37**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 12:14	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 1110
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	18WW25_062123	**Units:**	µg/L
Lab Code:	E2300588-006	**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	6/26/23	6/27/23 12:20	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 1155
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	MW10_062123	**Units:**	µg/L
Lab Code:	E2300588-007	**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	6/26/23	6/27/23 12:25	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 1240
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	MW20_062123	**Units:**	µg/L
Lab Code:	E2300588-008	**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	**0.0494**	J	0.100	0.0500	0.0250	1	6/26/23	6/27/23 12:31	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300306-01	**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	6/26/23	6/27/23 09:14	422007	808869	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
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
Project: HS23061557
Sample Matrix: Ground Water

Service Request: E2300588
Date Analyzed: 6/27/23

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: 422007

	Lab Control Sample EQ2300306-02			Duplicate Lab Control Sample EQ2300306-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0943	0.100	94	0.107	0.100	107	84 - 119	12	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:**	E2300588
Project:	HS23061557	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300306-02	**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	**0.0943**	J	0.100	0.0500	0.0250	1	6/26/23	6/27/23 09:19	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300306-03	**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	**0.107**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 09:37	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
		Date Analyzed:	6/27/23

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

Sample Name:	CO4_062023	**Units:**	µg/L
Lab Code:	E2300588-002	**Basis:**	NA

Analytical Method: 6850
Prep Method: Method

		CO4_062023MS				CO4_062023DMS					
		Matrix Spike				**Duplicate Matrix Spike**					
		EQ2300306-04				EQ2300306-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.233	0.330	0.100	97	0.335	0.100	102	84 - 119	2	15

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

Results flagged with a pound (#) indicate the control criteria is not applicable.

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:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0745
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	CO4_062023	**Units:**	µg/L
Lab Code:	EQ2300306-04	**Basis:**	NA
Run Type:	Matrix Spike		

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	**0.330**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 11:46	422007	808869	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Collected:**	6/21/23 0745
Sample Matrix:	Ground Water	**Date Received:**	6/22/23
Sample Name:	CO4_062023	**Units:**	µg/L
Lab Code:	EQ2300306-05	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

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	**0.335**		0.100	0.0500	0.0250	1	6/26/23	6/27/23 11:52	422007	808869	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

20230623-808638

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/23/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300010

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	PERCHLORATE1		20230623-002	Perchlorate6850c.lcm	1x	227245	6/23/2023 14:23
2	PERCHLORATE2		20230623-003	Perchlorate6850c.lcm	1x	227246	6/23/2023 14:28
3	PERCHLORATE3		20230623-004	Perchlorate6850c.lcm	1x	227247	6/23/2023 14:34
4	PERCHLORATE4		20230623-005	Perchlorate6850c.lcm	1x	227248	6/23/2023 14:39
5	PERCHLORATE5		20230623-006	Perchlorate6850c.lcm	1x	227249	6/23/2023 14:45
6	PERCHLORATE6		20230623-007	Perchlorate6850c.lcm	1x	227250	6/23/2023 14:50
7	PERCHLORATE7		20230623-008	Perchlorate6850c.lcm	1x	227251	6/23/2023 14:56
8	PERCHLORATE8		20230623-009	Perchlorate6850c.lcm	1x	227252	6/23/2023 15:01
9	PERCHLORATE9		20230623-010	Perchlorate6850c.lcm	1x	227253	6/23/2023 15:07
10	PERCHLORATE10		20230623-011	Perchlorate6850c.lcm	1x	227254	6/23/2023 15:13
11	PERCHLORATEICV		20230623-012	Perchlorate6850c.lcm	1x	227256	6/23/2023 15:18
12	LODV		20230623-013	Perchlorate6850c.lcm	1x	227501	6/23/2023 15:24
13	IB		20230623-014	Perchlorate6850c.lcm	1x		6/23/2023 15:29
14	ICS		20230623-015	Perchlorate6850c.lcm	1x	32103024	6/23/2023 15:35
15	CCV		20230623-016	Perchlorate6850c.lcm	1x	227251	6/23/2023 15:41
16	EQ2300301-01		20230623-017	Perchlorate6850c.lcm	1x		6/23/2023 15:46
17	EQ2300301-02		20230623-018	Perchlorate6850c.lcm	1x	DNU-RR	6/23/2023 15:52
18	EQ2300301-03		20230623-019	Perchlorate6850c.lcm	1x		6/23/2023 16:09
19	E2300548-001		20230623-020	Perchlorate6850c.lcm	1x		6/23/2023 16:03
20	E2300548-002		20230623-021	Perchlorate6850c.lcm	1x		6/23/2023 16:14
21	E2300548-003		20230623-022	Perchlorate6850c.lcm	1x	DNU-IS	6/23/2023 16:20
22	EQ2300301-04		20230623-023	Perchlorate6850c.lcm	1x	DNU-RR	6/23/2023 16:25
23	EQ2300301-05		20230623-024	Perchlorate6850c.lcm	1x	DNU-RR	6/23/2023 16:31
24	E2300549-001		20230623-025	Perchlorate6850c.lcm	1x	227251	6/23/2023 16:36
25	E2300549-002		20230623-026	Perchlorate6850c.lcm	1x	DNU-RR	6/23/2023 16:42
26	CCV		20230623-027	Perchlorate6850c.lcm	1x	227251	6/23/2023 16:47
27	E2300549-003		20230623-028	Perchlorate6850c.lcm	1x		6/23/2023 16:53
28	E2300549-004		20230623-029	Perchlorate6850c.lcm	1x		6/23/2023 16:58
29	E2300557-001		20230623-030	Perchlorate6850c.lcm	1x		6/23/2023 17:04
30	E2300559-001		20230623-031	Perchlorate6850c.lcm	1000x		6/23/2023 17:10
31	E2300559-002		20230623-032	Perchlorate6850c.lcm	500x		6/23/2023 17:15
32	E2300559-003		20230623-033	Perchlorate6850c.lcm	1000x		6/23/2023 17:21
33	E2300559-004		20230623-034	Perchlorate6850c.lcm	1x		6/23/2023 17:26
34	E2300559-005		20230623-035	Perchlorate6850c.lcm	10x		6/23/2023 17:32
35	E2300559-006		20230623-036	Perchlorate6850c.lcm	10x		6/23/2023 17:37
36	K2306641-001		20230623-037	Perchlorate6850c.lcm	1x		6/23/2023 17:43
37	CCV		20230623-038	Perchlorate6850c.lcm	1x	227251	6/23/2023 17:48

20230623-808638

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/23/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300010

Mobile Phases : **A:**20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
38	K2306641-002		20230623-039	Perchlorate6850c.lcm	1x		6/23/2023 17:54
39	K2306641-003		20230623-040	Perchlorate6850c.lcm	1x		6/23/2023 17:59
40	K2306921-001		20230623-041	Perchlorate6850c.lcm	1x	DNU-IS	6/23/2023 18:05
41	K2306921-002		20230623-042	Perchlorate6850c.lcm	1x		6/23/2023 18:11
42	K2306921-003		20230623-043	Perchlorate6850c.lcm	1x	DNU-IS	6/23/2023 18:16
43	E2300548-003		20230623-044	Perchlorate6850c.lcm	1x		6/23/2023 18:22
44	EQ2300301-02		20230623-045	Perchlorate6850c.lcm	1x		6/23/2023 18:27
45	CCV		20230623-049	Perchlorate6850c.lcm	1x	227251	6/23/2023 18:49

Initial Calibration - Detailed Report

Calibration ID: EC2300010 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300010-01	PERCHLORATE1	20230623-002	06/23/2023 14:23
02	EC2300010-02	PERCHLORATE2	20230623-003	06/23/2023 14:28
03	EC2300010-03	PERCHLORATE3	20230623-004	06/23/2023 14:34
04	EC2300010-04	PERCHLORATE4	20230623-005	06/23/2023 14:39
05	EC2300010-05	PERCHLORATE5	20230623-006	06/23/2023 14:45
06	EC2300010-06	PERCHLORATE6	20230623-007	06/23/2023 14:50
07	EC2300010-07	PERCHLORATE7	20230623-008	06/23/2023 14:56
08	EC2300010-08	PERCHLORATE8	20230623-009	06/23/2023 15:01
09	EC2300010-09	PERCHLORATE9	20230623-010	06/23/2023 15:07
10	EC2300010-10	PERCHLORATE10	20230623-011	06/23/2023 15:13

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

Perchlorate **Average RF** **RSD = 8.061** **Average RF = 0.1579**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1838	02	0.5000	0.1777	03	0.7000	0.1443	04	1.0000	0.1544
05	2.0000	0.1586	06	5.0000	0.1522	07	10.0000	0.1523	08	20.0000	0.154
09	30.0000	0.1479	10	50.0000	0.1539						

Analyte

Perchlorate RSE = 8.06

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.116	16.4	02	0.5000	0.563	12.6	03	0.7000	0.640	-8.6
04	1.0000	0.978	-2.2	05	2.0000	2.01	0.4	06	5.0000	4.82	-3.6
07	10.0000	9.64	-3.6	08	20.0000	19.5	-2.5	09	30.0000	28.1	-6.3
10	50.0000	48.7	-2.6								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300010	**Instrument ID:**	E-LCMS-01
Datafile ID:	20230623-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300010-11	T	Average RF	10	9.670	ng/mL	-3.3	<= 15

Insight Report

Printed at 6/26/2023 9:45:37 AM

Method File: I:\LCMS01\DATA\20230623\20230623.lcm
Project File: I:\LCMS01\DATA\20230623\20230623.damlp

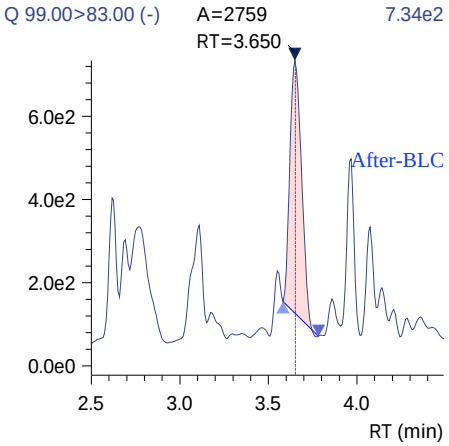
PERCHLORATE1

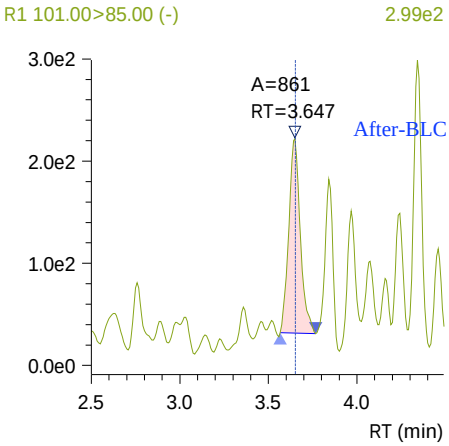
Sample ID: PERCHLORATE1
Date Acquired: 6/23/2023 2:23:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.650	2759	150098	0.1164	ng/mL	101.00 >85.00	31.22	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.649	1500 98	150098	1.0000	ng/mL	----	----	

Perchlorate

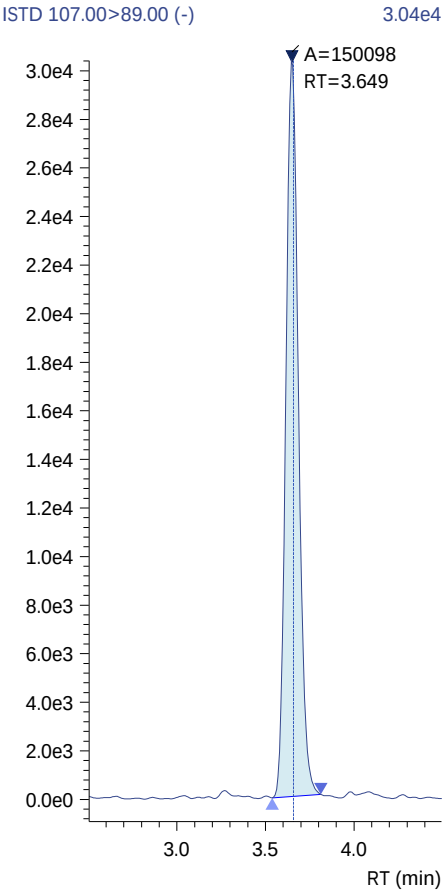
Conc 0.1164
R#1 31.22 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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Project File: I:\LCMS01\DATA\20230623\20230623.damlp

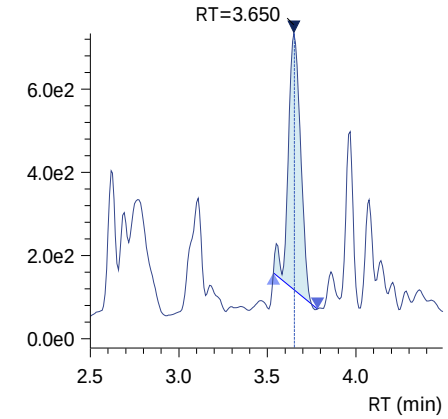
PERCHLORATE1

Sample ID: PERCHLORATE1
Date Acquired: 6/23/2023 2:23:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

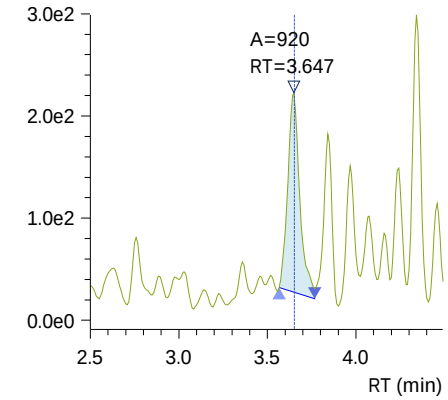
Perchlorate

Conc 0.1244
R#1 30.91 (35.79)

Q 99.00>83.00 (-) A=2976 7.34e2



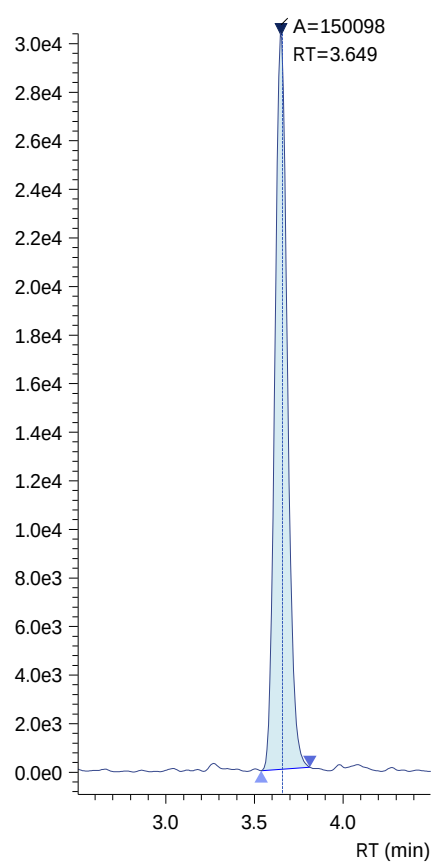
R1 101.00>85.00 (-) 2.99e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.04e4



Insight Report

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PERCHLORATE2

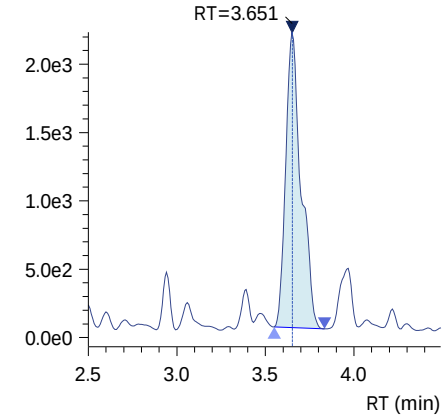
Sample ID: PERCHLORATE2
Date Acquired: 6/23/2023 2:28:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.651	12988	146157	0.5627	ng/mL	101.00 >85.00	36.23	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.648	1461 57	146157	1.0000	ng/mL	----	----	

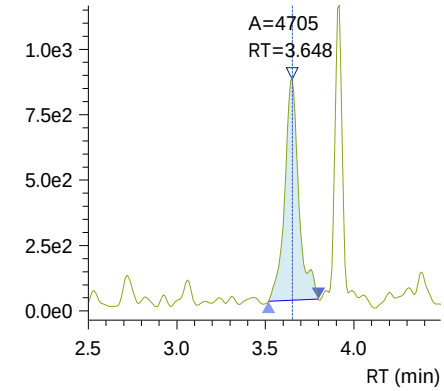
Perchlorate

Conc 0.5627
R#1 36.23 (35.79)

Q 99.00>83.00 (-) A=12988 2.23e3



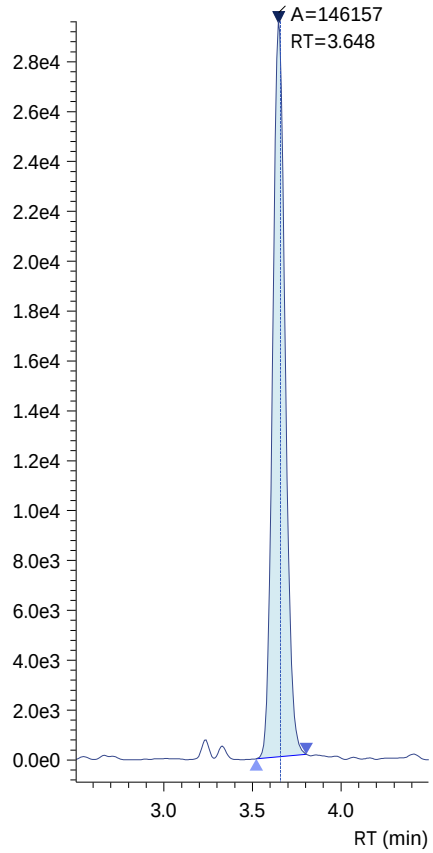
R1 101.00>85.00 (-) 1.17e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.96e4



Insight Report

Printed at 6/26/2023 9:45:37 AM

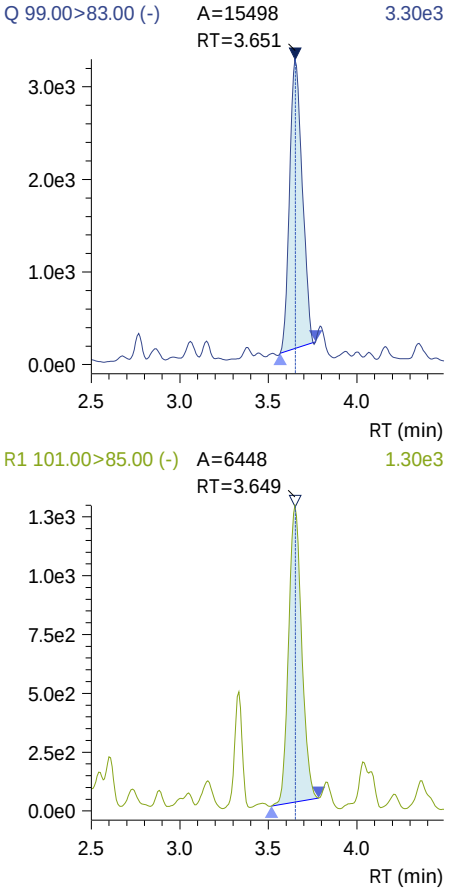
PERCHLORATE3

Sample ID: PERCHLORATE3
Date Acquired: 6/23/2023 2:34:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-004.lcd
Vial: 3 | 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	Auto	3.651	15498	153437	0.6397	ng/mL	101.00 >85.00	41.61	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.648	1534 37	153437	1.0000	ng/mL	----	----	

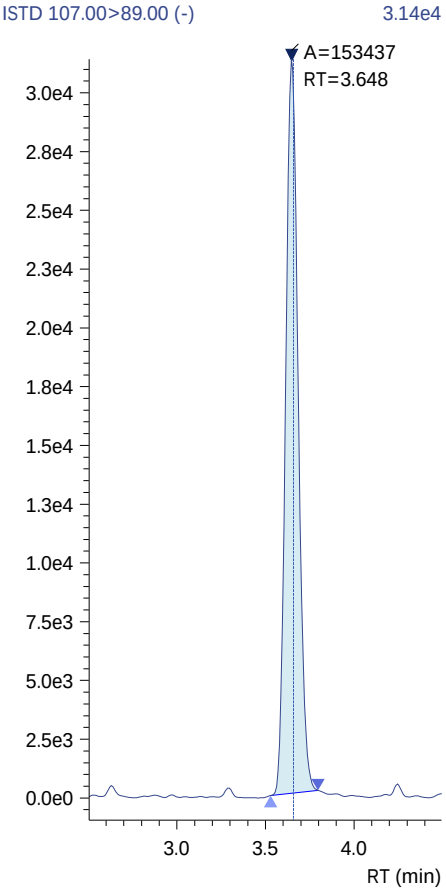
Perchlorate

Conc 0.6397
R#1 41.61 (35.79)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

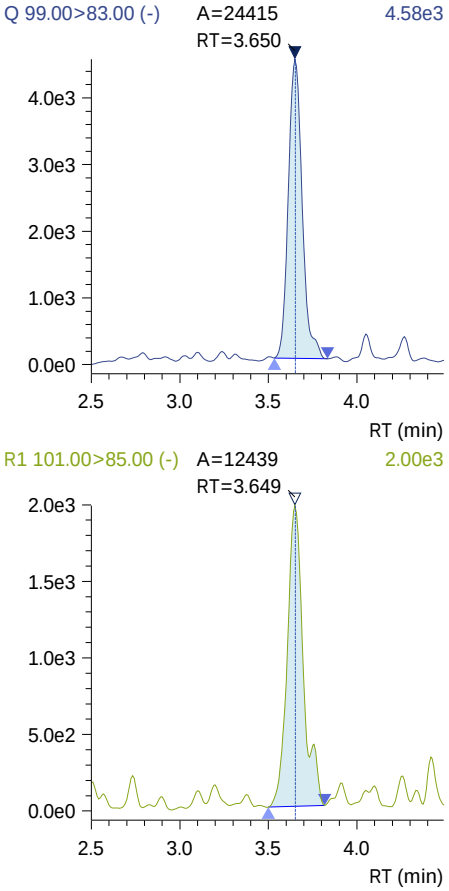
PERCHLORATE4

Sample ID: PERCHLORATE4
Date Acquired: 6/23/2023 2:39:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-005.lcd
Vial: 4 | 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	Auto	3.650	24415	158135	0.9778	ng/mL	101.00 >85.00	50.95	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.647	1581 35	158135	1.0000	ng/mL	----	----	

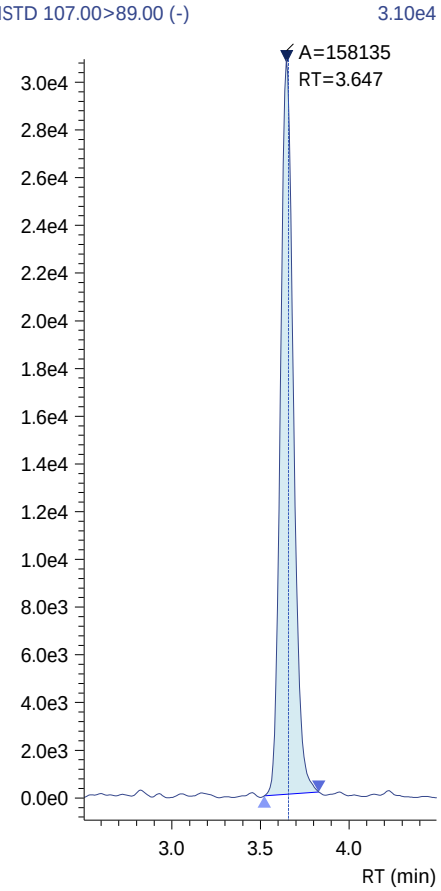
Perchlorate

Conc 0.9778
R#1 50.95 (35.79)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

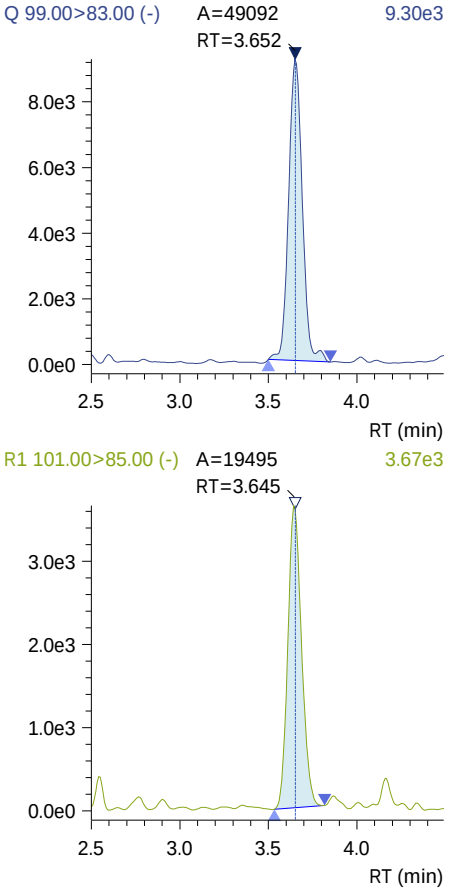
PERCHLORATE5

Sample ID: PERCHLORATE5
Date Acquired: 6/23/2023 2:45:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-006.lcd
Vial: 5 | 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	Auto	3.652	49092	154771	2.0088	ng/mL	101.00 >85.00	39.71	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.647	1547 71	154771	1.0000	ng/mL	----	----	

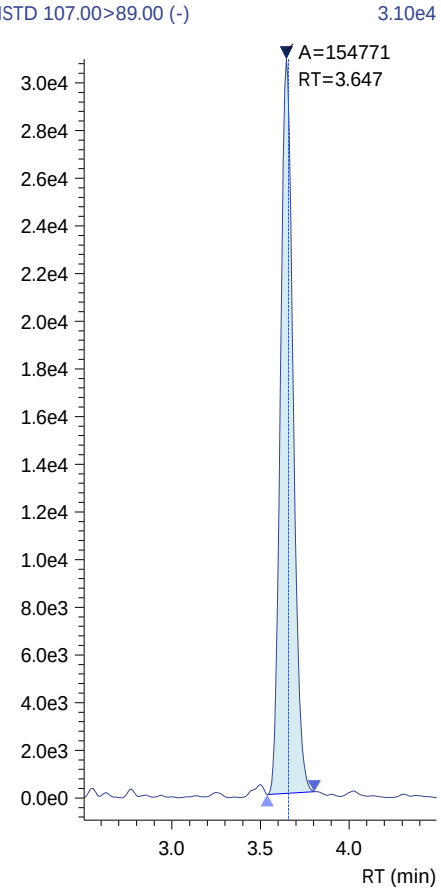
Perchlorate

Conc 2.0088
R#1 39.71 (35.79)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

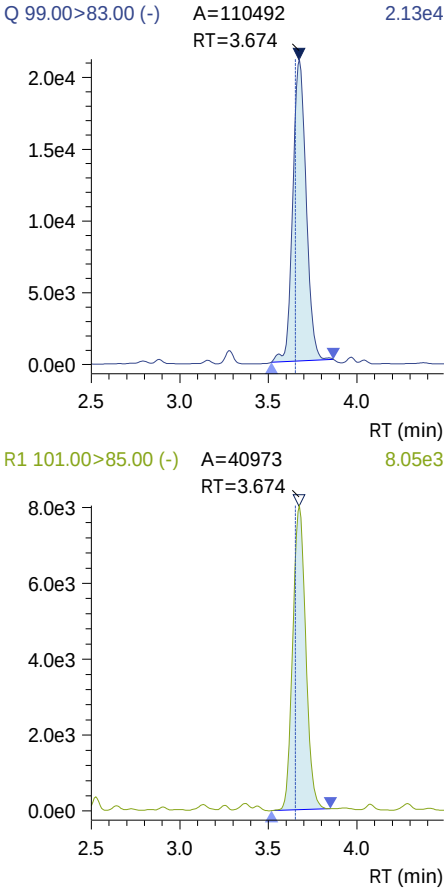
PERCHLORATE6

Sample ID: PERCHLORATE6
Date Acquired: 6/23/2023 2:50:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-007.lcd
Vial: 6 | 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	Auto	3.674	110492	145205	4.8190	ng/mL	101.00 >85.00	37.08	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.670	145205	145205	1.0000	ng/mL	----	----	

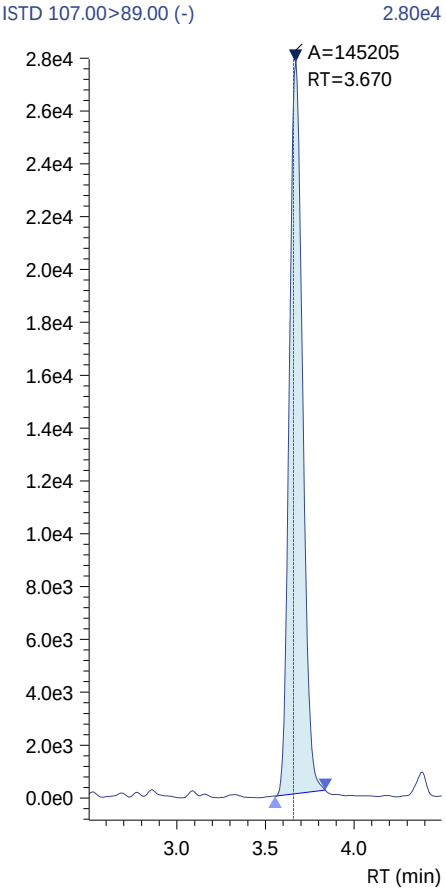
Perchlorate

Conc 4.8190
R#1 37.08 (35.79)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

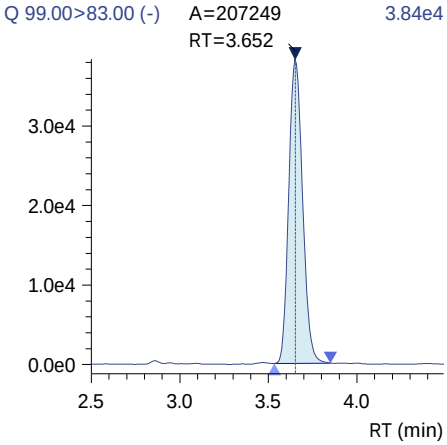
PERCHLORATE7

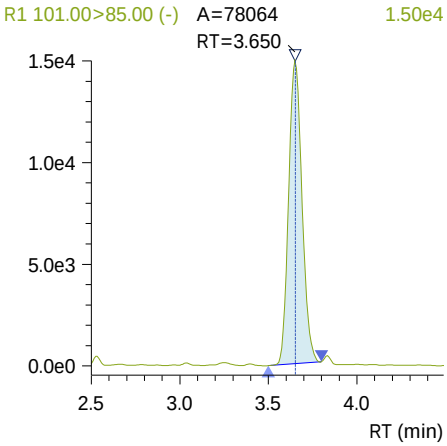
Sample ID: PERCHLORATE7
Date Acquired: 6/23/2023 2:56:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.652	207249	136114	9.6427	ng/mL	101.00 >85.00	37.67	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.648	136114	136114	1.0000	ng/mL	----	----	

Perchlorate

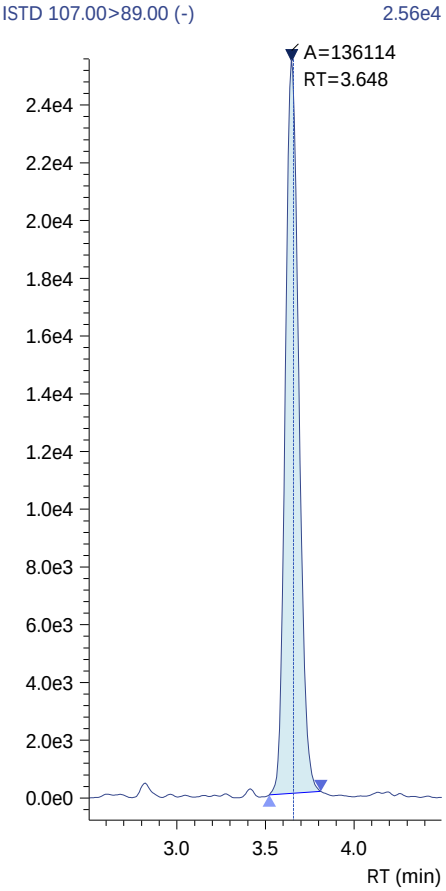
Conc 9.6427
R#1 37.67 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

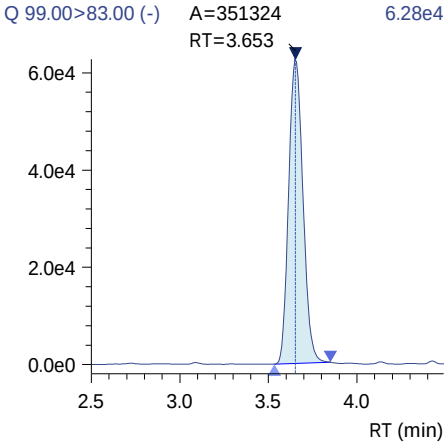
PERCHLORATE8

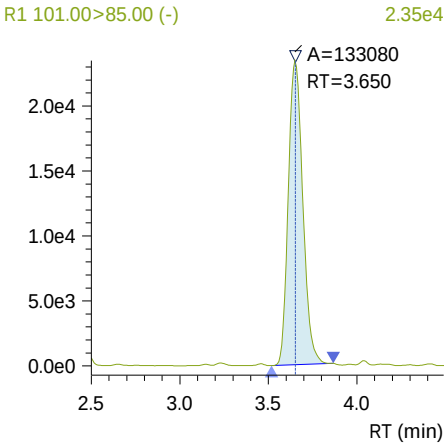
Sample ID: PERCHLORATE8
Date Acquired: 6/23/2023 3:01:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.653	3513 24	114068	19.50 54	ng/mL	101.00 >85.00	37.88	25.05-46.52
Sodium Perchlorate-18O4 _IS	Auto	3.647	1140 68	114068	1.0000	ng/mL	----	----	

Perchlorate

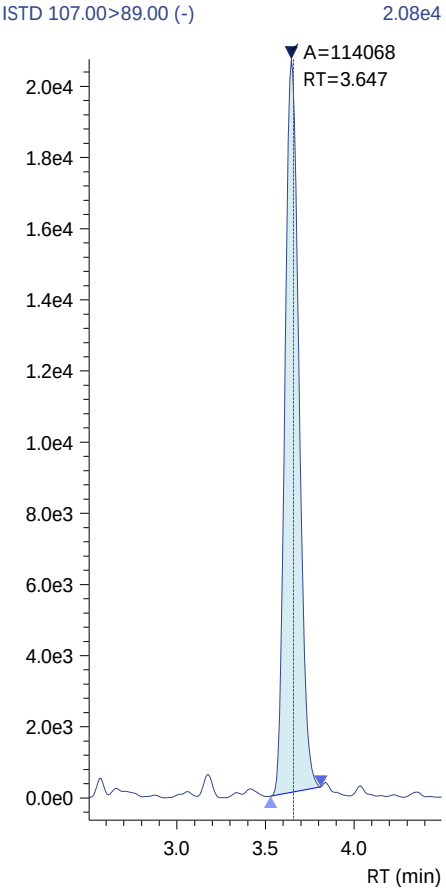
Conc 19.5054
R#1 37.88 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

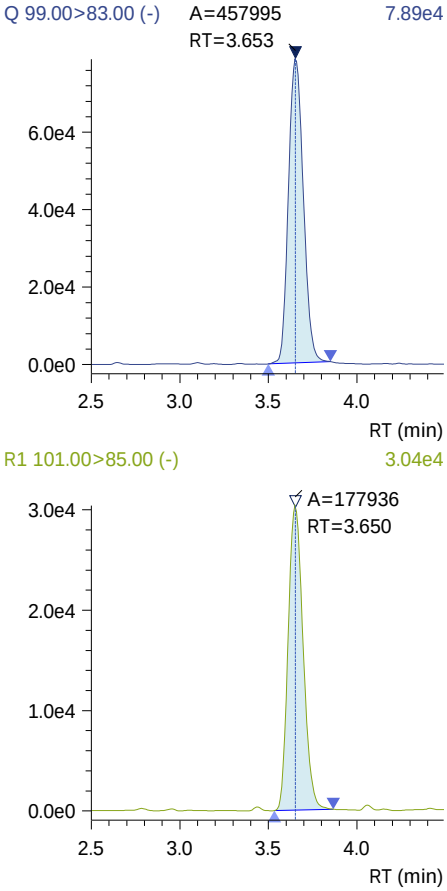
PERCHLORATE9

Sample ID: PERCHLORATE9
Date Acquired: 6/23/2023 3:07:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-010.lcd
Vial: 9 | 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	Auto	3.653	457995	103207	28.1035	ng/mL	101.00 >85.00	38.85	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.650	103207	103207	1.0000	ng/mL	----	----	

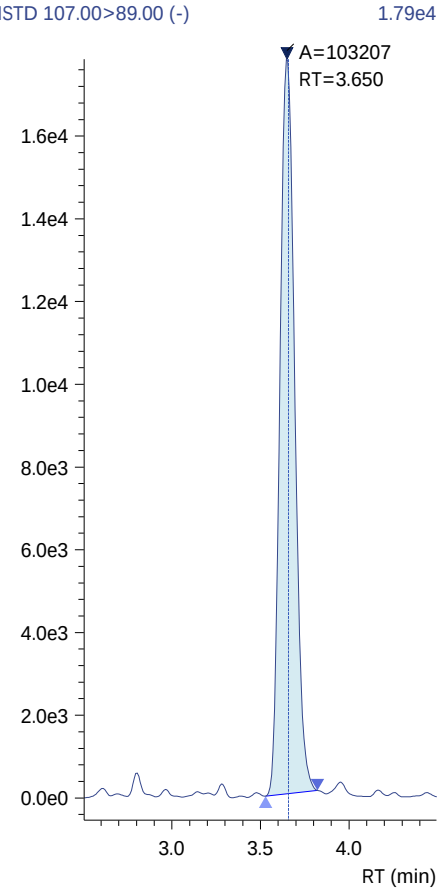
Perchlorate

Conc 28.1035
R#1 38.85 (35.79)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

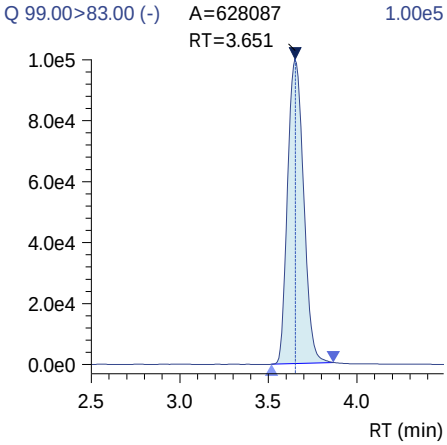
PERCHLORATE10

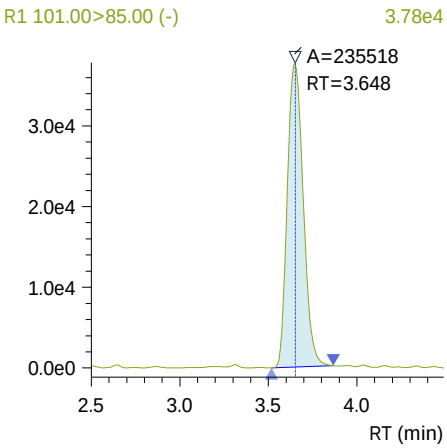
Sample ID: PERCHLORATE10
Date Acquired: 6/23/2023 3:13:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.651	6280 87	81644	48.71 99	ng/mL	101.00 >85.00	37.50	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.645	81644	81644	1.0000	ng/mL	----	----	

Perchlorate

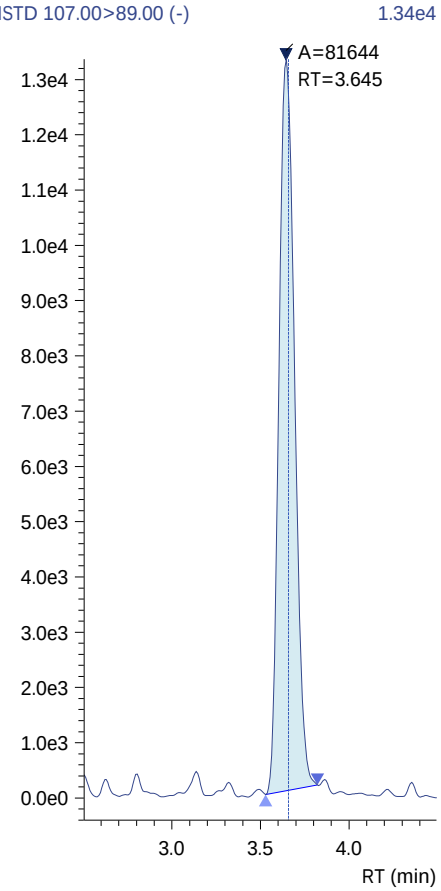
Conc 48.7199
R#1 37.50 (35.79)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2023 9:45:37 AM

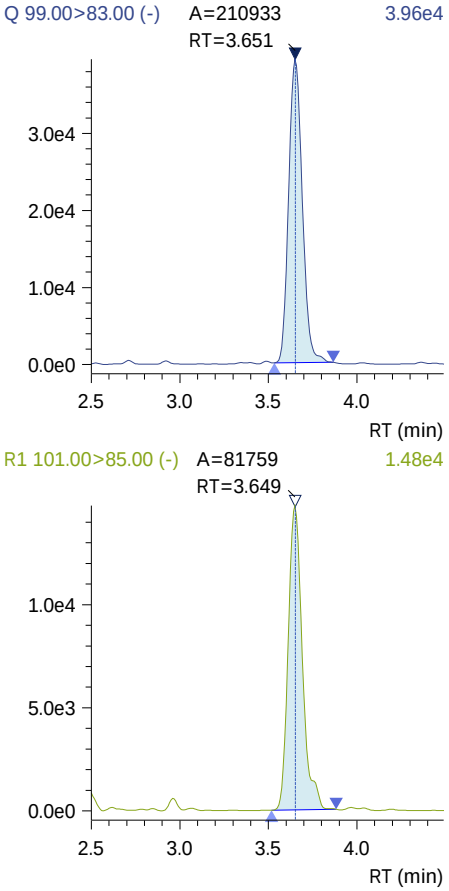
PERCHLORATEICV

Sample ID: PERCHLORATEICV
Date Acquired: 6/23/2023 3:18:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230623\20230623-012.lcd
Vial: 11 | 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	Auto	3.651	210933	138145	9.6698	ng/mL	101.00 >85.00	38.76	25.05-46.52
Sodium Perchlorate-18O4_IS	Auto	3.646	138145	138145	1.0000	ng/mL	----	----	

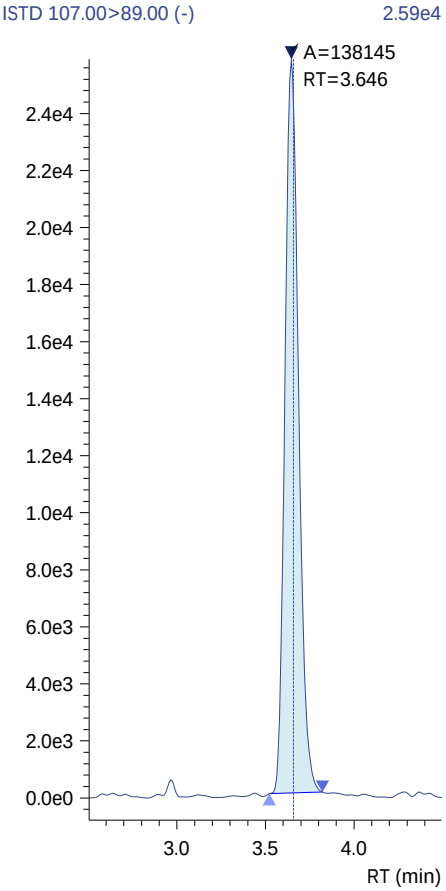
Perchlorate

Conc 9.6698
R#1 38.76 (35.79)



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

20230627-808869

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: GC

ICAL Date: 6/23/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300010

Mobile Phases : A:20mM ammonium acetate in water 32103046 **B:**Acetonitrile 226552

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	LODV		20230627-001	Perchlorate6850c.lcm	1x	227501	6/27/2023 8:40
2	IB		20230627-002	Perchlorate6850c.lcm	1x		6/27/2023 8:45
3	ICS		20230627-003	Perchlorate6850c.lcm	1x	32103024	6/27/2023 8:54
4	CCV		20230627-004	Perchlorate6850c.lcm	1x	227251	6/27/2023 8:59
5	EQ2300306-01		20230627-005	Perchlorate6850c.lcm	1x		6/27/2023 9:14
6	EQ2300306-02		20230627-006	Perchlorate6850c.lcm	1x		6/27/2023 9:19
7	EQ2300306-03		20230627-007	Perchlorate6850c.lcm	1x		6/27/2023 9:37
8	E2300577-001		20230627-008	Perchlorate6850c.lcm	1x	DNU-CONFIRM	6/27/2023 9:43
9	E2300577-002		20230627-009	Perchlorate6850c.lcm	1x		6/27/2023 9:48
10	E2300577-003		20230627-010	Perchlorate6850c.lcm	1x		6/27/2023 9:54
11	EQ2300306-06		20230627-011	Perchlorate6850c.lcm	1x	DNU-RR	6/27/2023 9:59
12	EQ2300306-07		20230627-012	Perchlorate6850c.lcm	1x		6/27/2023 10:05
13	E2300577-004		20230627-013	Perchlorate6850c.lcm	1x		6/27/2023 10:54
14	E2300577-005		20230627-014	Perchlorate6850c.lcm	1x	DNU-CONFIRM	6/27/2023 10:59
15	CCV		20230627-015	Perchlorate6850c.lcm	1x	227251	6/27/2023 11:05
16	E2300577-006		20230627-016	Perchlorate6850c.lcm	1x		6/27/2023 11:13
17	E2300577-007		20230627-017	Perchlorate6850c.lcm	1x		6/27/2023 11:18
18	E2300577-008		20230627-018	Perchlorate6850c.lcm	1x		6/27/2023 11:24
19	E2300577-009		20230627-019	Perchlorate6850c.lcm	5000x		6/27/2023 11:29
20	E2300588-001		20230627-020	Perchlorate6850c.lcm	1x		6/27/2023 11:35
21	E2300588-002		20230627-021	Perchlorate6850c.lcm	1x		6/27/2023 11:41
22	EQ2300306-04		20230627-022	Perchlorate6850c.lcm	1x		6/27/2023 11:46
23	EQ2300306-05		20230627-023	Perchlorate6850c.lcm	1x		6/27/2023 11:52
24	E2300588-003		20230627-024	Perchlorate6850c.lcm	500x		6/27/2023 11:57
25	E2300588-004		20230627-025	Perchlorate6850c.lcm	1x	DNU-D	6/27/2023 12:03
26	CCV		20230627-026	Perchlorate6850c.lcm	1x	227251	6/27/2023 12:08
27	E2300588-005		20230627-027	Perchlorate6850c.lcm	1x		6/27/2023 12:14
28	E2300588-006		20230627-028	Perchlorate6850c.lcm	1x		6/27/2023 12:20
29	E2300588-007		20230627-029	Perchlorate6850c.lcm	1x		6/27/2023 12:25
30	E2300588-008		20230627-030	Perchlorate6850c.lcm	1x		6/27/2023 12:31
31	E2300577-001		20230627-031	Perchlorate6850c.lcm	1x		6/27/2023 12:36
32	EQ2300306-06		20230627-032	Perchlorate6850c.lcm	1x		6/27/2023 12:42
33	E2300577-005		20230627-033	Perchlorate6850c.lcm	1x		6/27/2023 12:47
34	E2300588-004x5		20230627-034	Perchlorate6850c.lcm	5x		6/27/2023 12:53
35	CCV		20230627-035	Perchlorate6850c.lcm	1x	227251	6/27/2023 13:00

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300588
Project:	HS23061557	**Date Analyzed:**	6/27/23 08:59

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230627\20230627-004	**Lab Code:**	EQ2300314-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	808869
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300314-01	146,185	3.62
Method Blank	EQ2300306-01	192,786	3.63
Lab Control Sample	EQ2300306-02	196,722	3.63
Duplicate Lab Control Sample	EQ2300306-03	197,338	3.62

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:**	E2300588
Project:	HS23061557	**Date Analyzed:**	6/27/23 11:05

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230627\20230627-015	**Lab Code:**	EQ2300314-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	808869
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300314-02	152,878	3.62
18WW22_062123	E2300588-001	162,293	3.62
CO4_062023	E2300588-002	166,673	3.62
CO4_062023MS	EQ2300306-04	163,045	3.62
CO4_062023DMS	EQ2300306-05	168,278	3.62
18CPTMW14_062123	E2300588-003	130,931	3.62

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:**	E2300588
Project:	HS23061557	**Date Analyzed:**	6/27/23 12:08

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230627\20230627-026	**Lab Code:**	EQ2300314-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	808869
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300314-03	145,759	3.62
18CPTMW07_062123	E2300588-005	156,567	3.62
18WW25_062123	E2300588-006	167,230	3.62
MW10_062123	E2300588-007	161,219	3.62
MW20_062123	E2300588-008	169,602	3.62
18CPTMW24_062123	E2300588-004	136,473	3.62

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:**	E2300588
Project:	HS23061557	**Date Analyzed:**	6/27/23 13:00

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230627\20230627-035	**Lab Code:**	EQ2300314-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	808869
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	134,284	3.65
	Upper Limit ==>	201,426	5.65
	Lower Limit ==>	67,142	1.65
Associated Analyses			
Continuing Calibration Verification	EQ2300314-04	171,895	3.62

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: HS23061557

Service Request: E2300588
Date Analyzed: 6/27/23

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\20230627\20230627-004

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808869
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1579	0.1592	0.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061557

Service Request: E2300588
Date Analyzed: 6/27/23

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\20230627\20230627-015

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808869
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	8.70	0.1579	0.1373	-13.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061557

Service Request: E2300588
Date Analyzed: 6/27/23

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\20230627\20230627-026

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808869
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	8.57	0.1579	0.1352	-14.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23061557

Service Request: E2300588
Date Analyzed: 6/27/23

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\20230627\20230627-035

Calibration Date: 6/23/23
Calibration ID: EC2300010
Analysis Lot: 808869
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	8.56	0.1579	0.1352	-14.4	NA	± 15 %	Average RF

Insight Report

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Method File: I:\LCMS01\DATA\20230627\20230627.lcm
Project File: I:\LCMS01\DATA\20230627\20230627.damlp

LODV

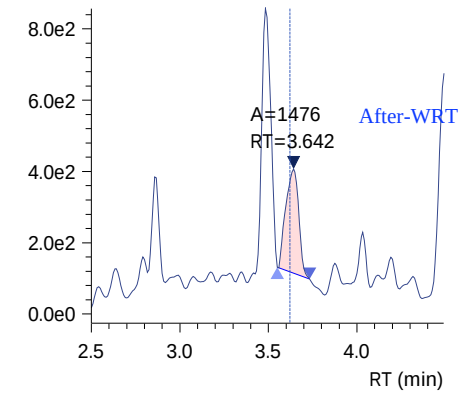
Sample ID: LODV
Date Acquired: 6/27/2023 8:40:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.642	1476	176310	0.0530	ng/mL	101.00 >85.00	33.87	22.44-41.67
Sodium Perchlorate-18O4 _IS	Auto	3.623	1763 10	176310	1.0000	ng/mL	----	----	

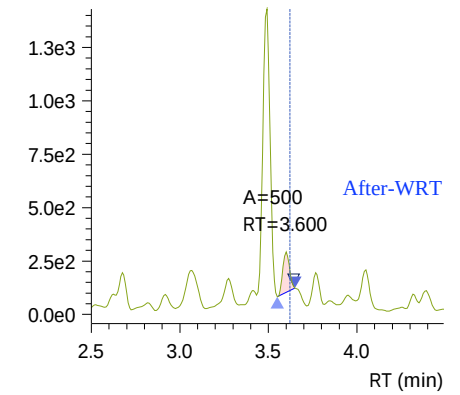
Perchlorate

Conc 0.0530
R#1 33.87 (32.06)

Q 99.00>83.00 (-) 8.57e2



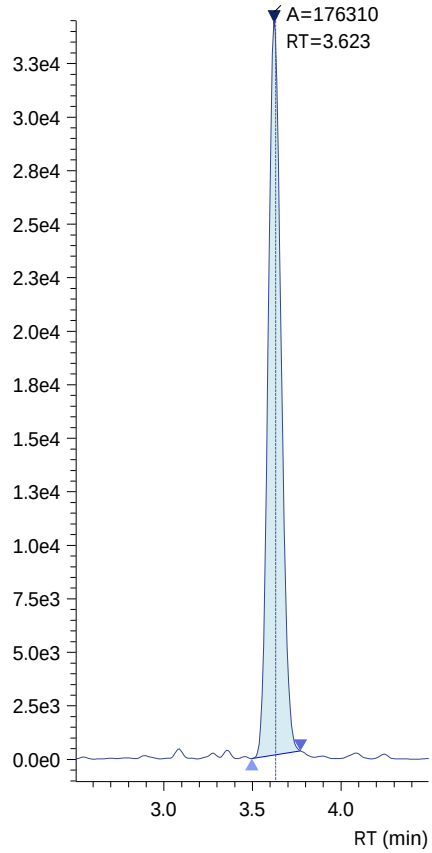
R1 101.00>85.00 (-) 1.43e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.45e4



Insight Report

Printed at 6/27/2023 3:40:30 PM

Method File: I:\LCMS01\DATA\20230627\20230627.lcm
Project File: I:\LCMS01\DATA\20230627\20230627.damlp

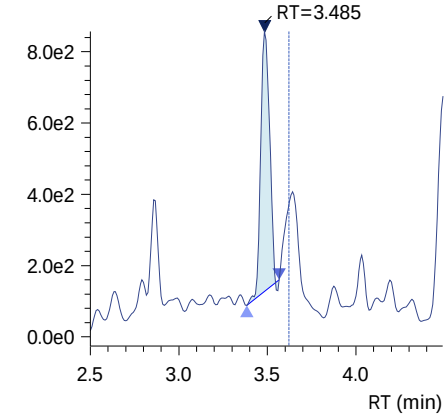
LODV

Sample ID: LODV
Date Acquired: 6/27/2023 8:40:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

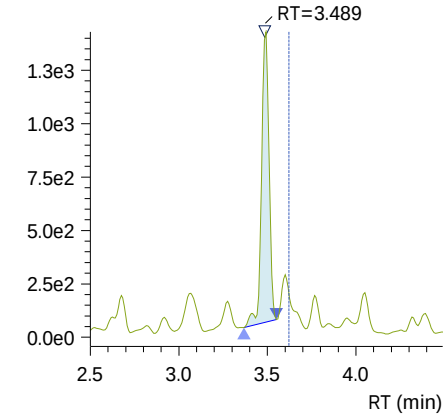
Perchlorate

Conc 0.0897
R#1 157.85 (32.06)

Q 99.00>83.00 (-) A=2522 8.57e2



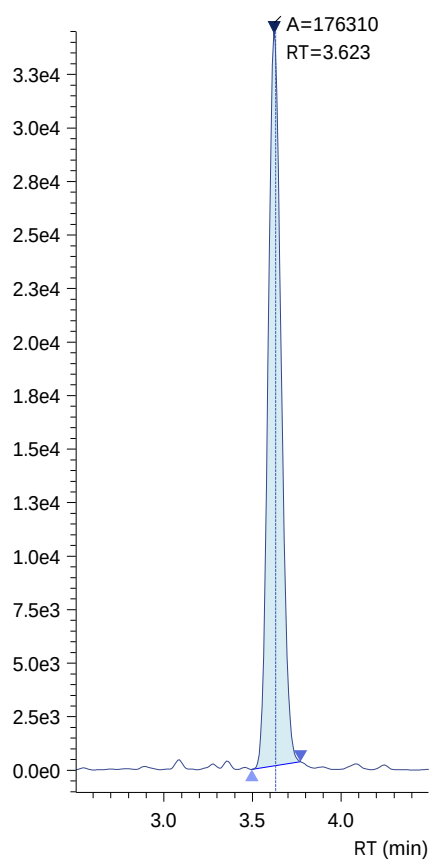
R1 101.00>85.00 (-) A=3980 1.43e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.45e4



Insight Report

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IB

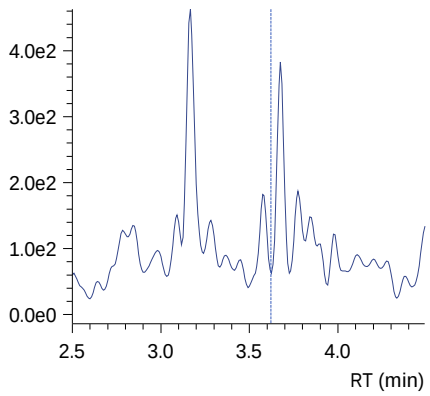
Sample ID: IB
Date Acquired: 6/27/2023 8:45:42 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-002.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	168010	----	ng/mL	101.00 >85.00	0.00	22.44-41.67
Sodium Perchlorate-18O4_IS	Auto	3.628	168010	168010	1.0000	ng/mL	----	----	

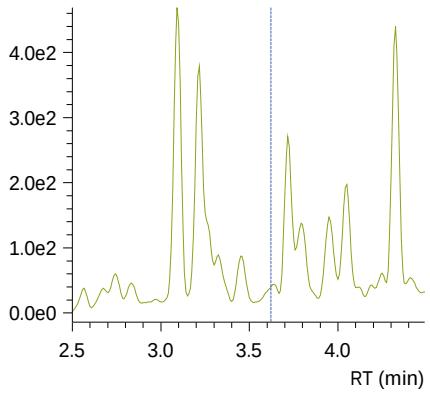
Perchlorate

Conc ----
R#1 0.00 (32.06)

Q 99.00>83.00 (-) 4.63e2



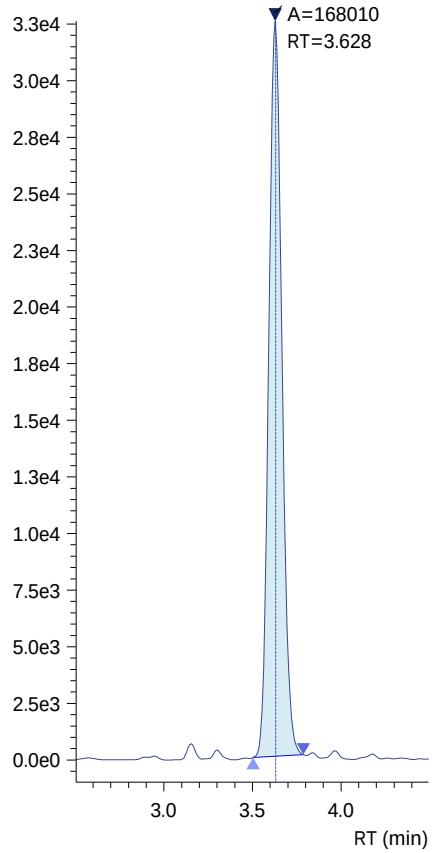
R1 101.00>85.00 (-) 4.69e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.26e4



Insight Report

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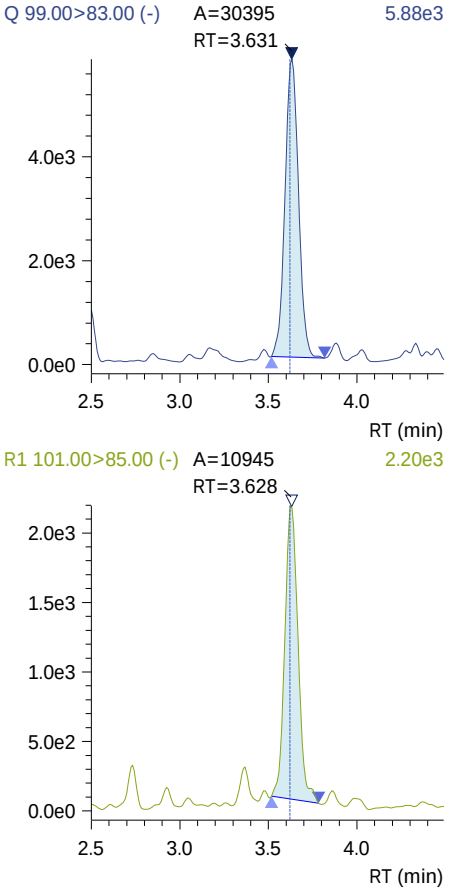
ICS

Sample ID: ICS
Date Acquired: 6/27/2023 8:54:15 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-003.lcd
Vial: 2 | 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	Auto	3.631	30395	189348	1.0166	ng/mL	101.00 >85.00	36.01	22.44-41.67
Sodium Perchlorate-18O4 _IS	Auto	3.627	1893 48	189348	1.0000	ng/mL	----	----	

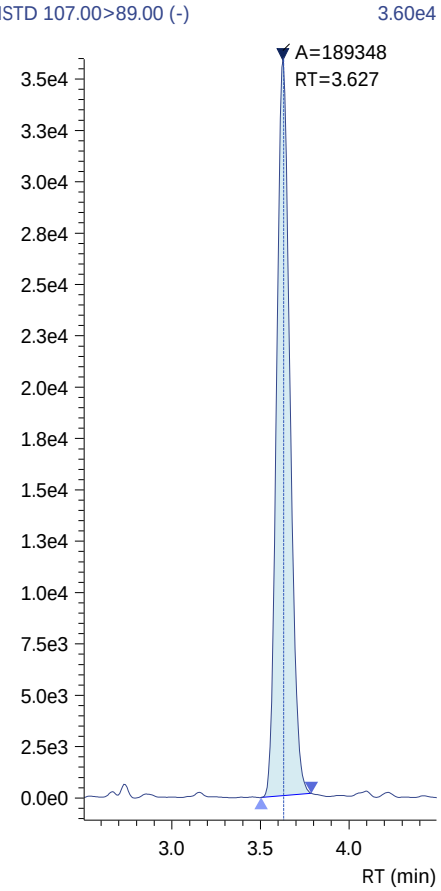
Perchlorate

Conc 1.0166
R#1 36.01 (32.06)



Sodium Perchlorate-18O4_IS

Conc 1.0000



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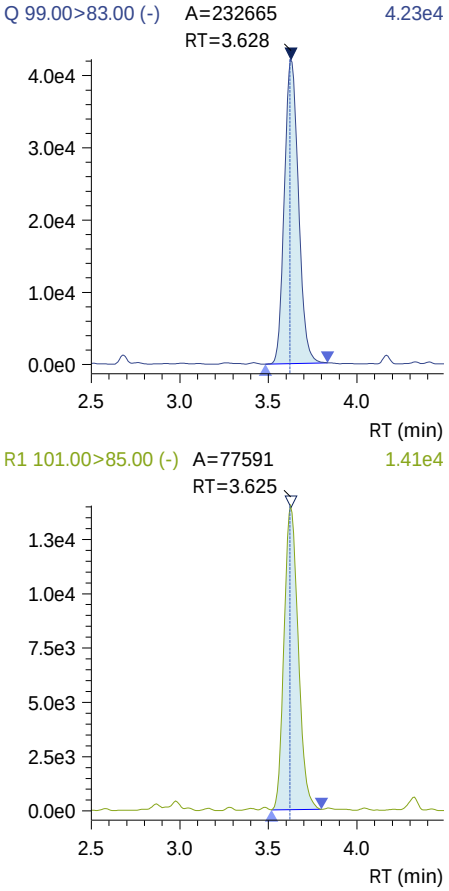
CCV

Sample ID: CCV
Date Acquired: 6/27/2023 8:59:50 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-004.lcd
Vial: 7 | 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	Auto	3.628	232665	146185	10.0794	ng/mL	101.00 >85.00	33.35	22.44-41.67
Sodium Perchlorate-18O4_IS	Auto	3.624	146185	146185	1.0000	ng/mL	----	----	

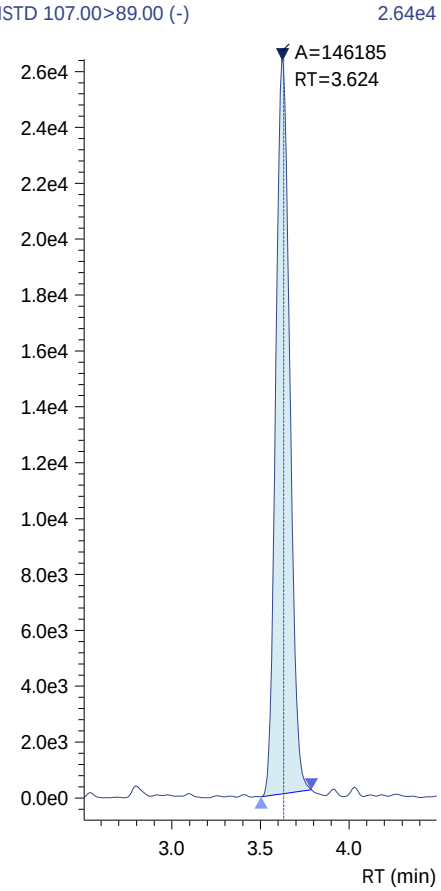
Perchlorate

Conc 10.0794
R#1 33.35 (32.06)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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EQ2300306-01

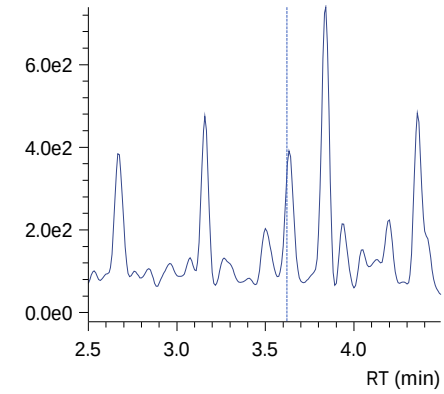
Sample ID: EQ2300306-01
Date Acquired: 6/27/2023 9:14:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-005.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	192786	----	ng/mL	101.00 >85.00	0.00	22.44-41.67
Sodium Perchlorate-18O4_IS	Auto	3.627	192786	192786	1.0000	ng/mL	----	----	

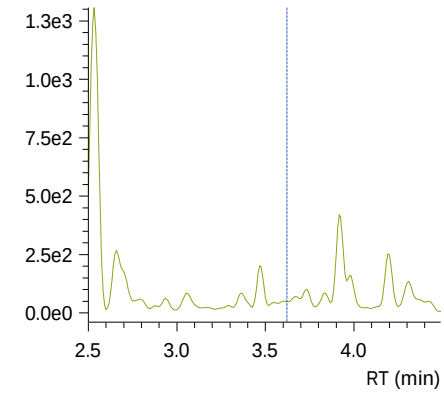
Perchlorate

Conc ----
R#1 0.00 (32.06)

Q 99.00>83.00 (-) 7.39e2



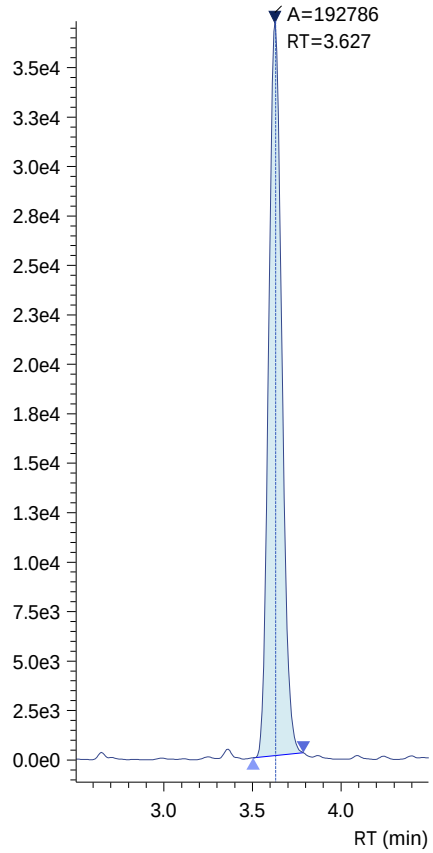
R1 101.00>85.00 (-) 1.31e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.73e4



Insight Report

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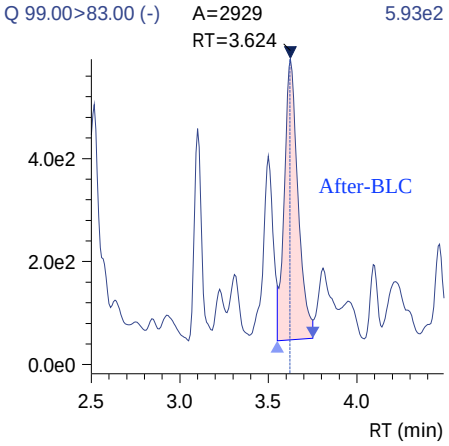
EQ2300306-02

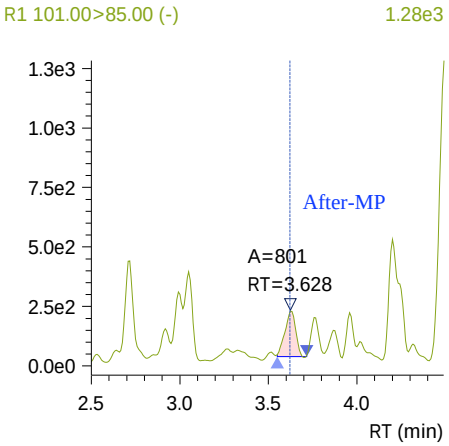
Sample ID: EQ2300306-02
Date Acquired: 6/27/2023 9:19:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-006.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.624	2929	196722	0.0943	ng/mL	101.00 >85.00	27.34	22.44-41.67
Sodium Perchlorate-18O4 _IS	Auto	3.625	1967 22	196722	1.0000	ng/mL	----	----	

Perchlorate

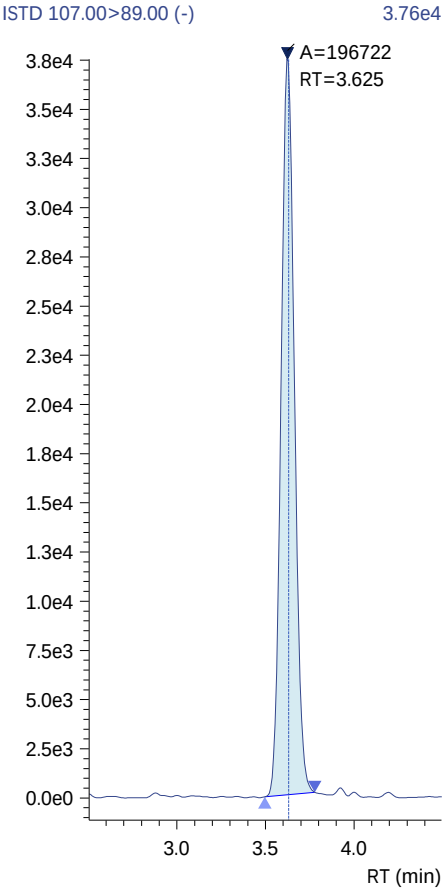
Conc 0.0943
R#1 27.34 (32.06)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

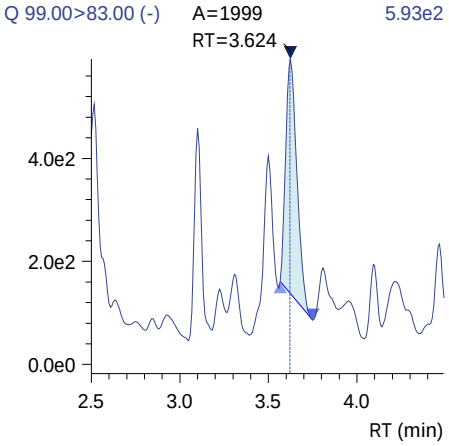
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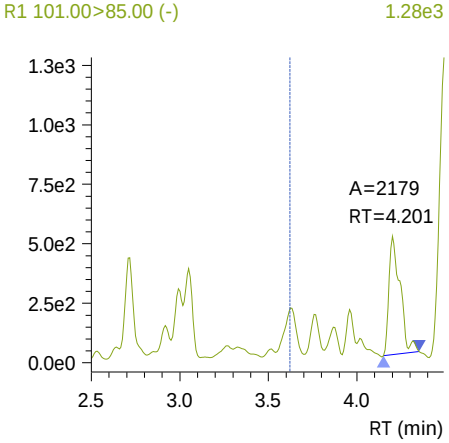
EQ2300306-02

Sample ID: EQ2300306-02
Date Acquired: 6/27/2023 9:19:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-006.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

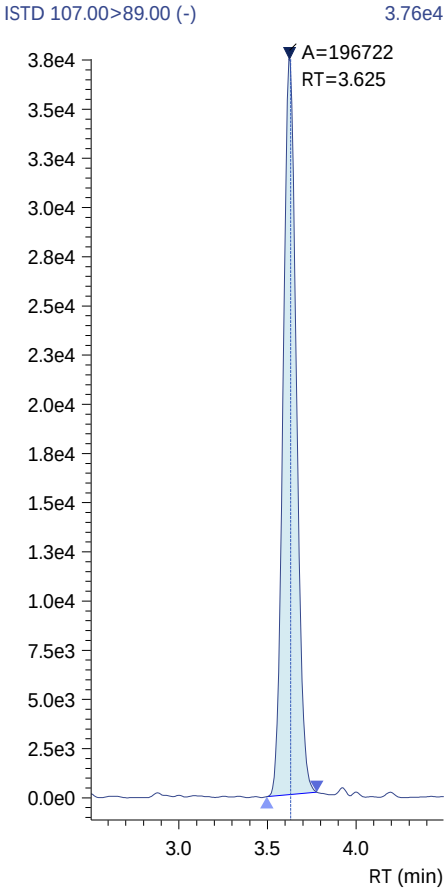
Conc 0.0638
R#1 0.00 (32.06)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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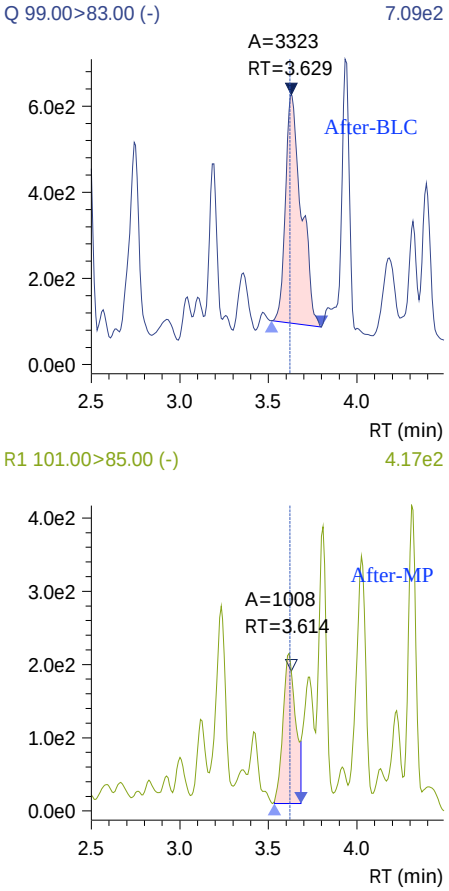
EQ2300306-03

Sample ID: EQ2300306-03
Date Acquired: 6/27/2023 9:37:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-007.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.629	3323	197338	0.1066	ng/mL	101.00 >85.00	30.34	22.44-41.67
Sodium Perchlorate-18O4 _IS	Auto	3.624	1973 38	197338	1.0000	ng/mL	----	----	

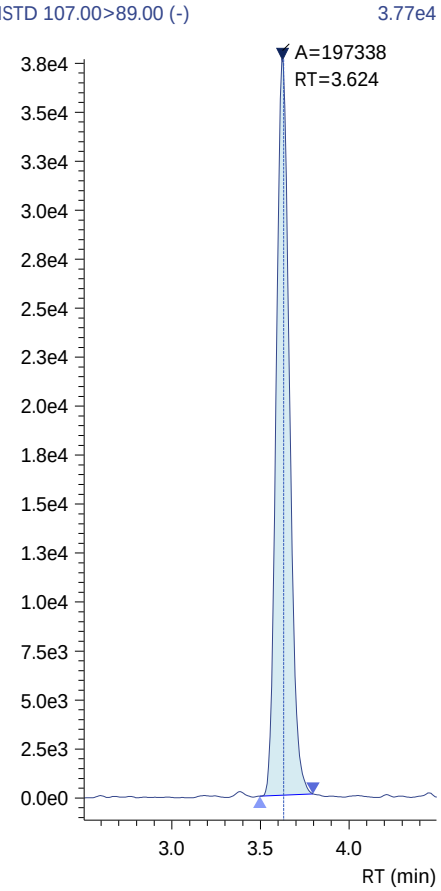
Perchlorate

Conc 0.1066
R#1 30.34 (32.06)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/27/2023 3:40:30 PM

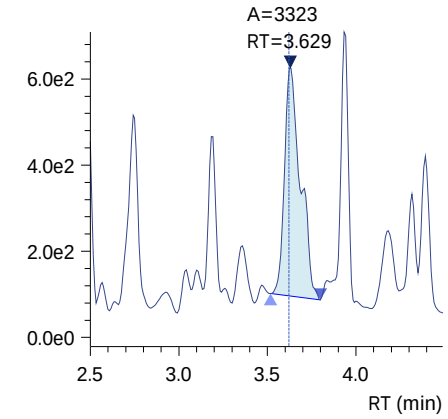
EQ2300306-03

Sample ID: EQ2300306-03
Date Acquired: 6/27/2023 9:37:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-007.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 4

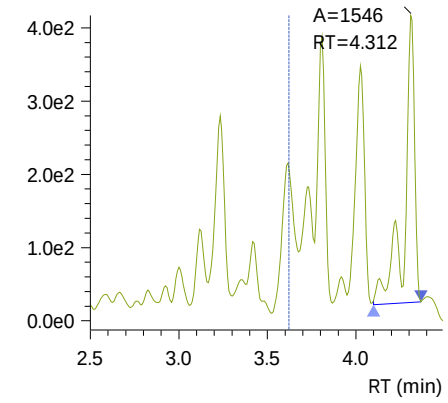
Perchlorate

Conc 0.1057
R#1 0.00 (32.06)

Q 99.00>83.00 (-) 7.09e2



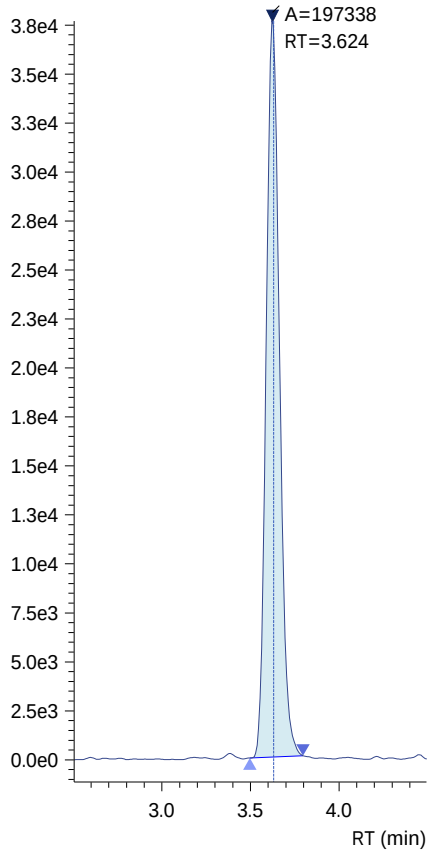
R1 101.00>85.00 (-) 4.17e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.77e4



Insight Report

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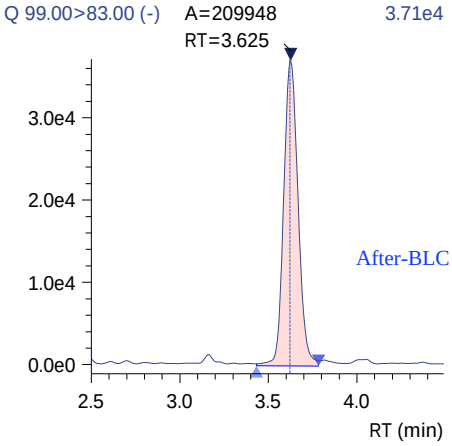
CCV

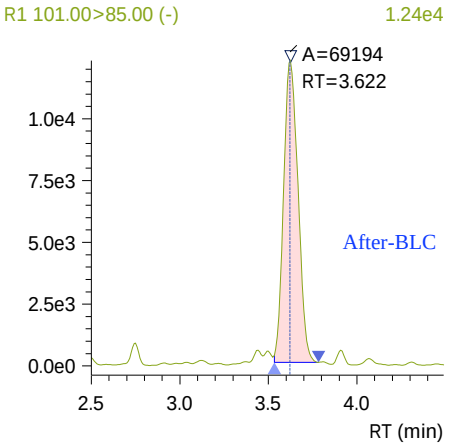
Sample ID: CCV
Date Acquired: 6/27/2023 11:05:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-015.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.625	209948	152878	8.6971	ng/mL	101.00 >85.00	32.96	22.44-41.67
Sodium Perchlorate-18O4_IS	Auto	3.618	152878	152878	1.0000	ng/mL	----	----	

Perchlorate

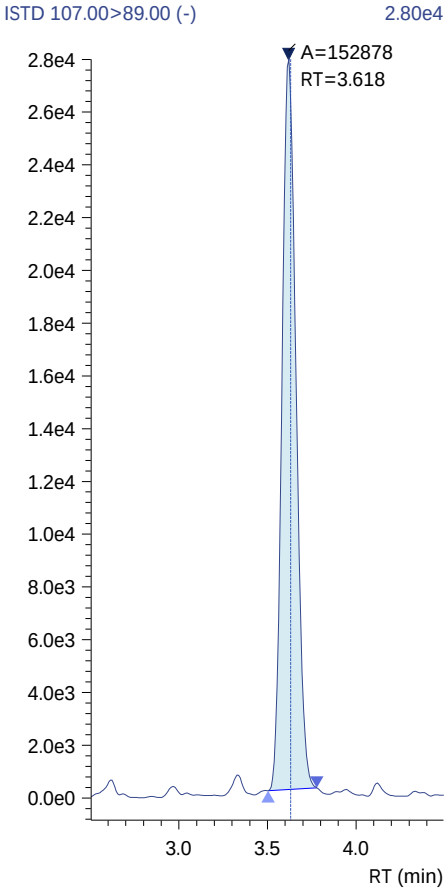
Conc 8.6971
R#1 32.96 (32.06)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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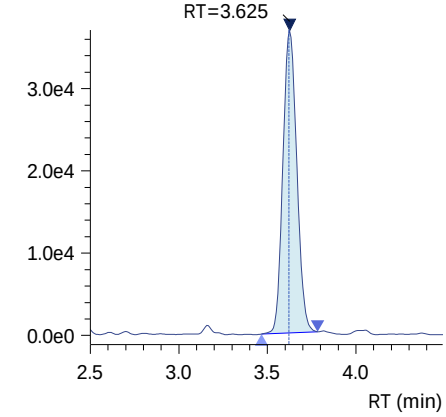
CCV

Sample ID: CCV
Date Acquired: 6/27/2023 11:05:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-015.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

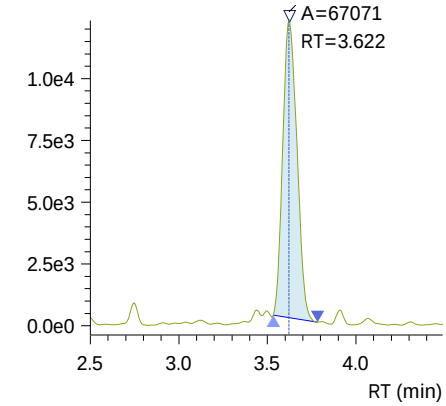
Perchlorate

Conc 8.2248
R#1 33.47 (32.06)

Q 99.00>83.00 (-) A=200367 3.71e4



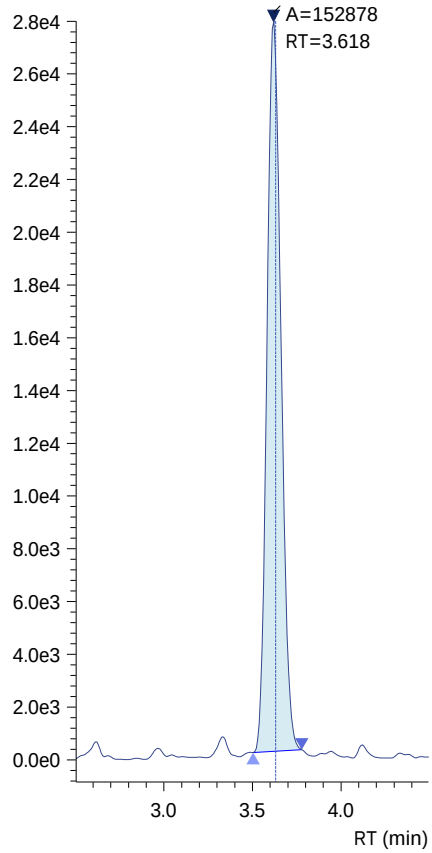
R1 101.00>85.00 (-) 1.24e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.80e4



Insight Report

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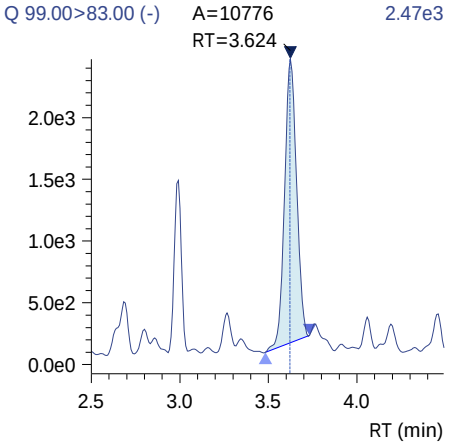
E2300588-001

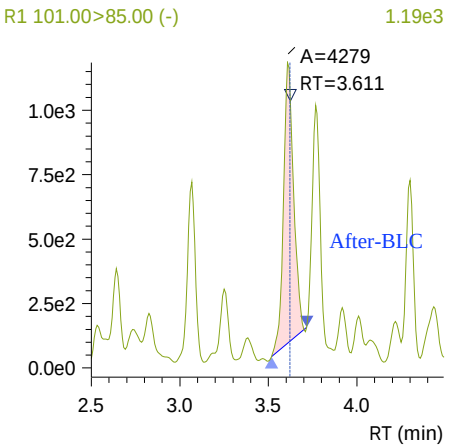
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Date Acquired: 6/27/2023 11:35:28 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-020.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.624	10776	162293	0.4205	ng/mL	101.00 >85.00	39.70	22.44-41.67
Sodium Perchlorate-18O4 _IS	Auto	3.621	162293	162293	1.0000	ng/mL	----	----	

Perchlorate

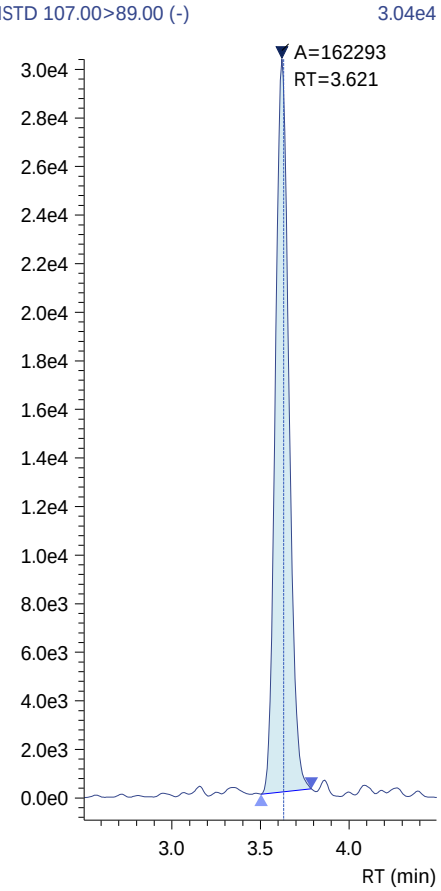
Conc 0.4205
R#1 39.70 (32.06)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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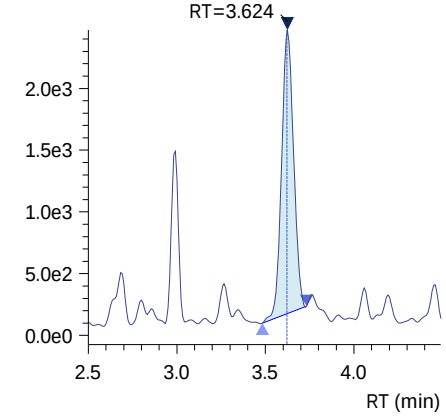
E2300588-001

Sample ID: E2300588-001
Date Acquired: 6/27/2023 11:35:28 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-020.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 4

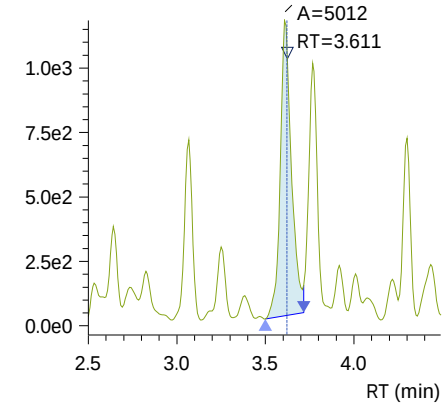
Perchlorate

Conc 0.4167
R#1 46.51 (32.06)

Q 99.00>83.00 (-) A=10776 2.47e3



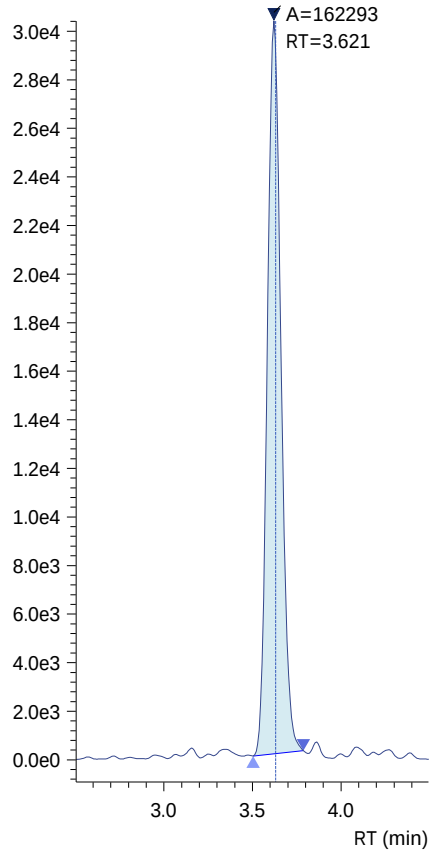
R1 101.00>85.00 (-) 1.19e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.04e4



Insight Report

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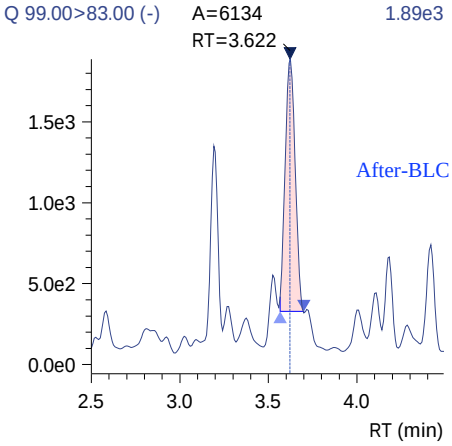
E2300588-002

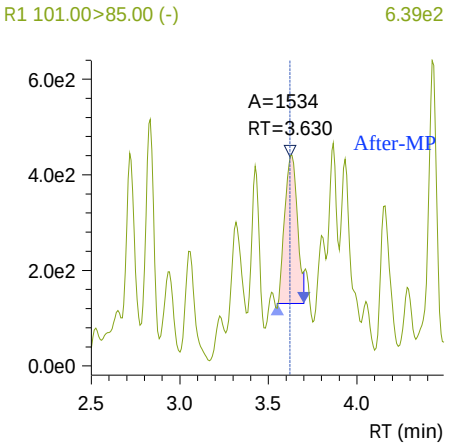
Sample ID: E2300588-002
Date Acquired: 6/27/2023 11:41:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-021.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.622	6134	166673	0.2331	ng/mL	101.00 >85.00	25.01	22.44-41.67
Sodium Perchlorate-18O4 _IS	Auto	3.620	166673	166673	1.0000	ng/mL	----	----	

Perchlorate

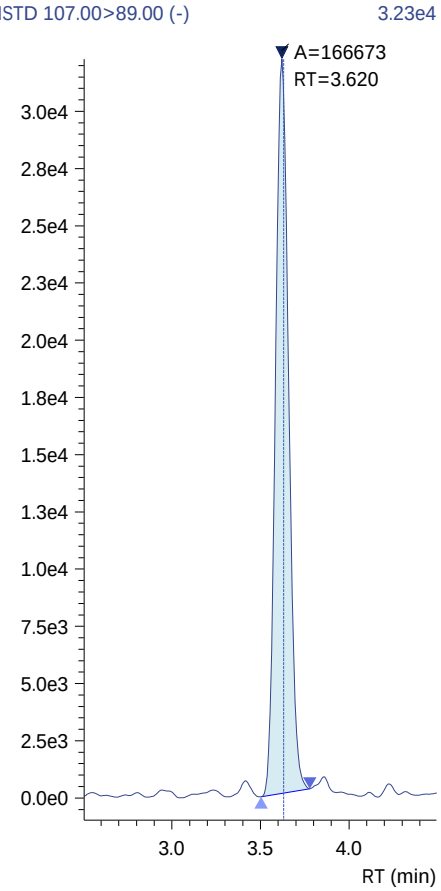
Conc 0.2331
R#1 25.01 (32.06)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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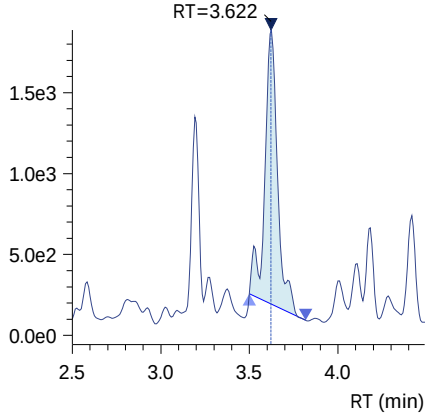
E2300588-002

Sample ID: E2300588-002
Date Acquired: 6/27/2023 11:41:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-021.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 4

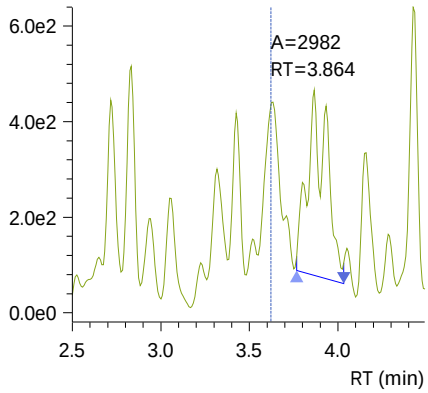
Perchlorate

Conc 0.3211
R#1 0.00 (32.06)

Q 99.00>83.00 (-) A=8529 RT=3.622 1.89e3



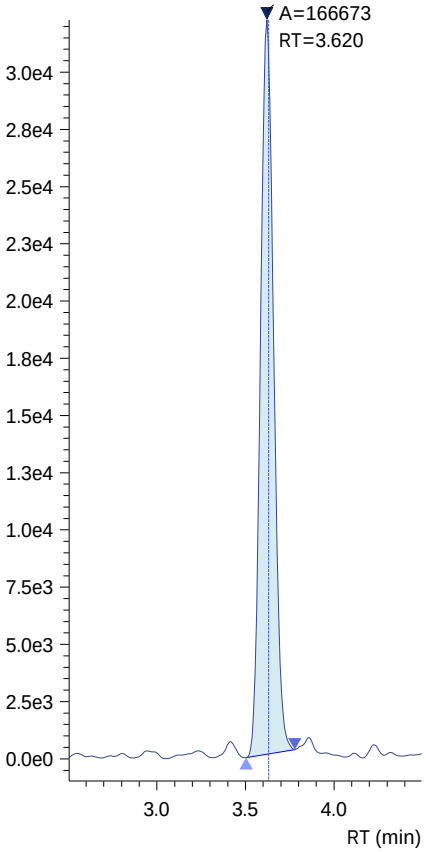
R1 101.00>85.00 (-) 6.39e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.23e4



Insight Report

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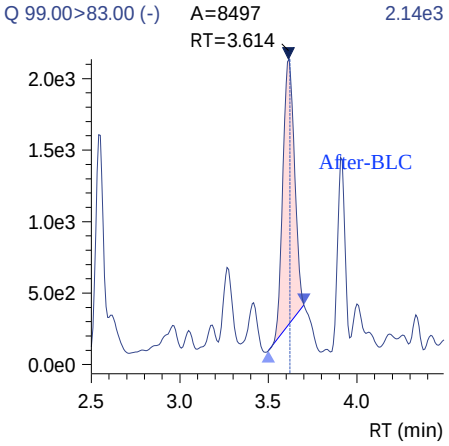
EQ2300306-04

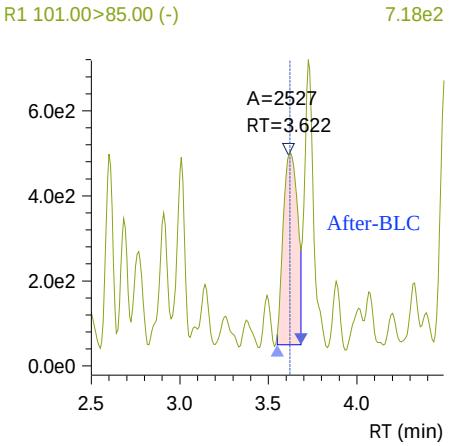
Sample ID: EQ2300306-04
Date Acquired: 6/27/2023 11:46:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-022.lcd
Vial: 32 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.614	8497	163045	0.3300	ng/mL	101.00 >85.00	29.74	22.44-41.67
Sodium Perchlorate-18O4 _IS	Auto	3.620	163045	163045	1.0000	ng/mL	----	----	

Perchlorate

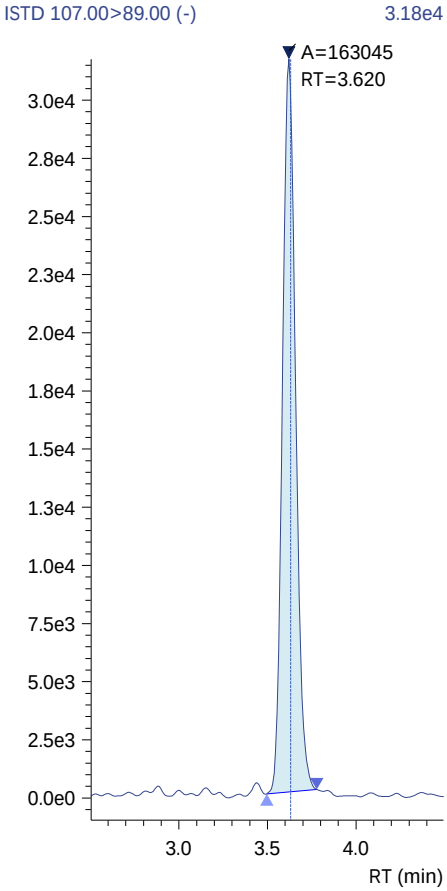
Conc 0.3300
R#1 29.74 (32.06)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

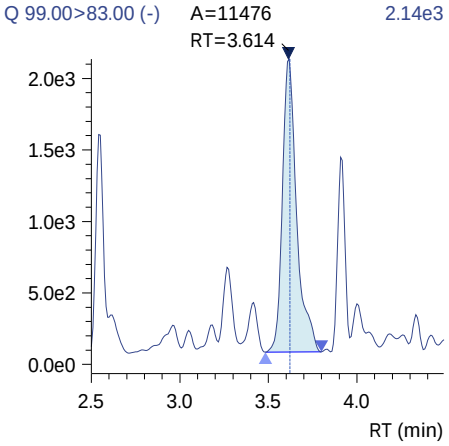
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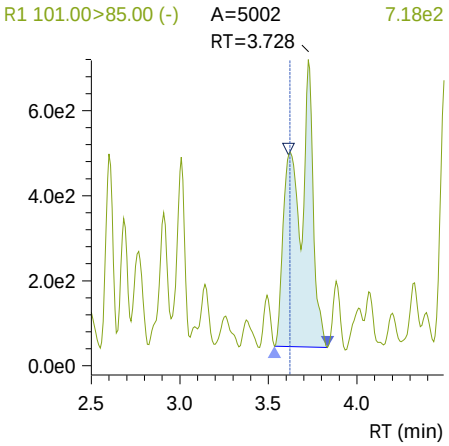
EQ2300306-04

Sample ID: EQ2300306-04
Date Acquired: 6/27/2023 11:46:35 AM
Acquired by: System Administrator
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Vial: 32 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

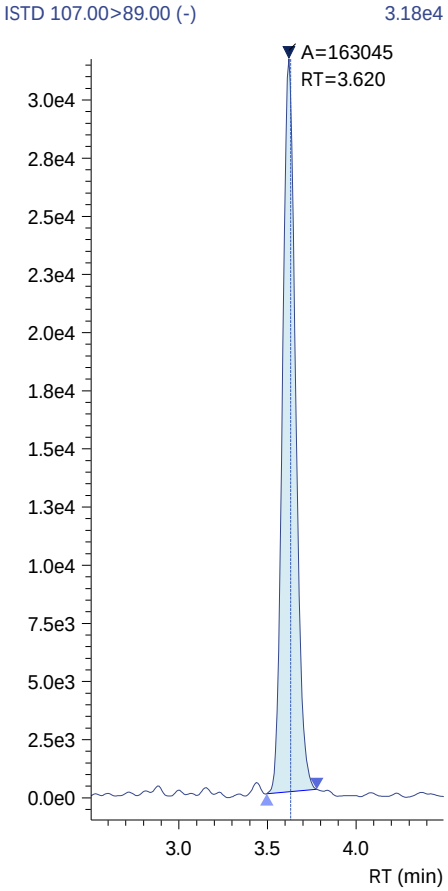
Conc 0.4417
R#1 43.58 (32.06)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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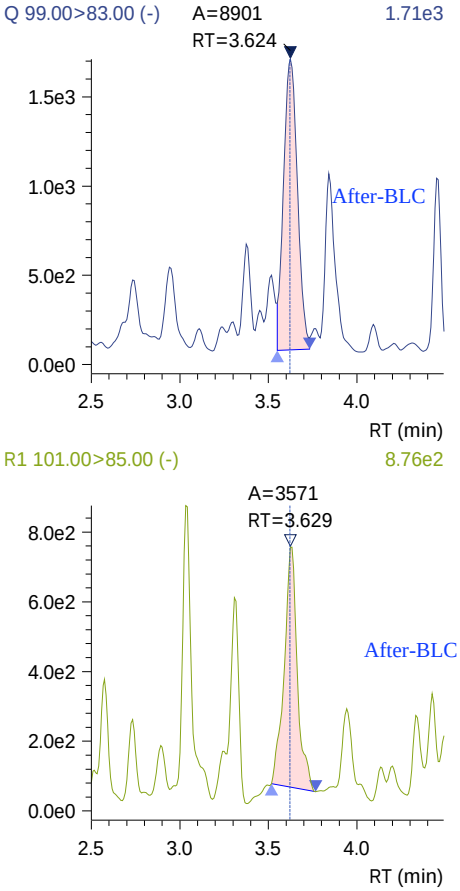
EQ2300306-05

Sample ID: EQ2300306-05
Date Acquired: 6/27/2023 11:52:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-023.lcd
Vial: 33 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.624	8901	168278	0.3350	ng/mL	101.00 >85.00	40.12	22.44-41.67
Sodium Perchlorate-18O4 _IS	Auto	3.619	168278	168278	1.0000	ng/mL	----	----	

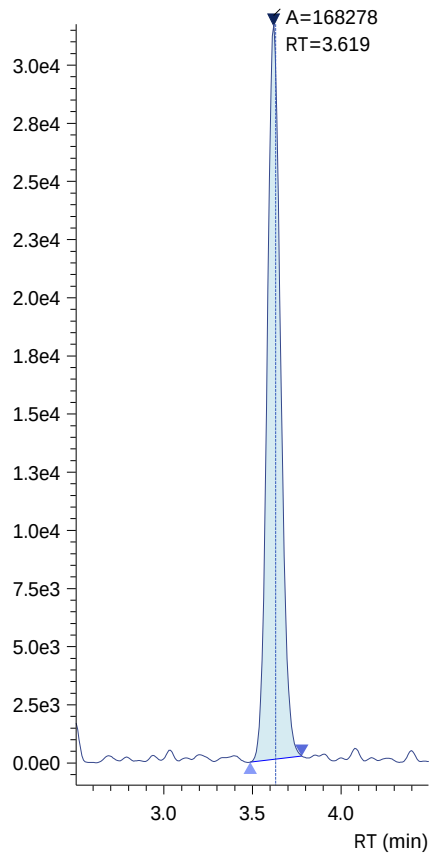
Perchlorate

Conc 0.3350
R#1 40.12 (32.06)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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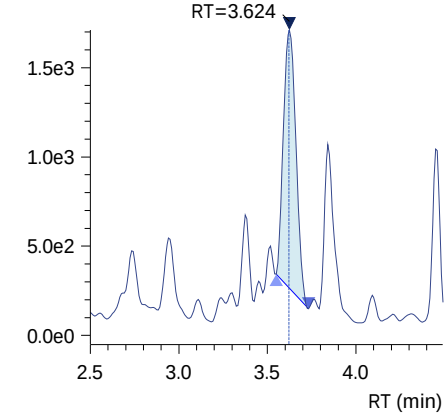
EQ2300306-05

Sample ID: EQ2300306-05
Date Acquired: 6/27/2023 11:52:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-023.lcd
Vial: 33 | Inj. Volume: 10.0000uL | Tray: 4

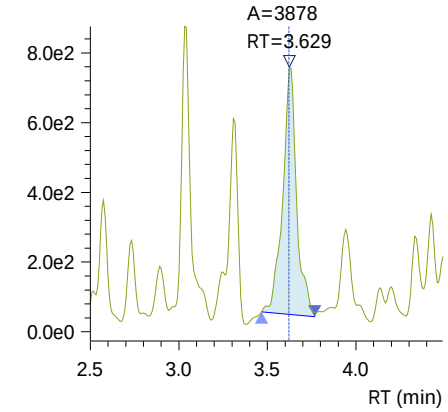
Perchlorate

Conc 0.2651
R#1 54.56 (32.06)

Q 99.00>83.00 (-) A=7108 1.71e3



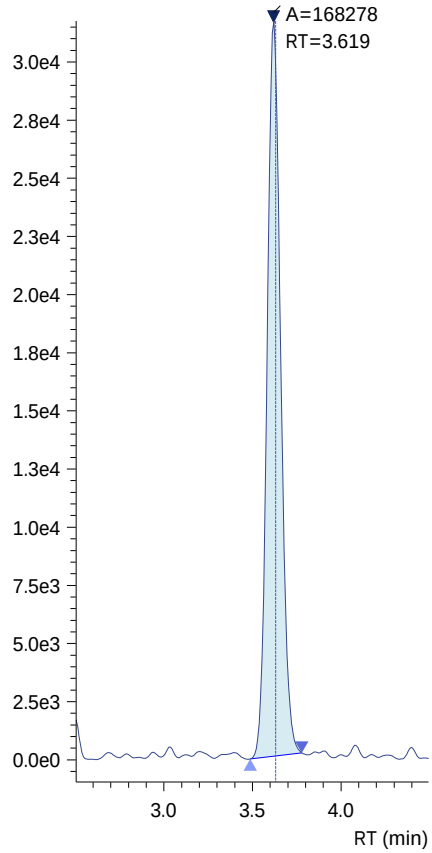
R1 101.00>85.00 (-) 8.76e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.18e4



Insight Report

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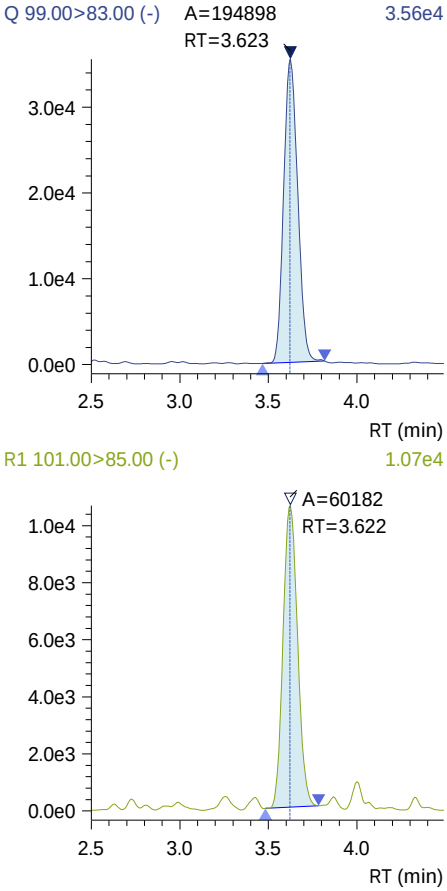
E2300588-003x500

Sample ID: E2300588-003
Date Acquired: 6/27/2023 11:57:41 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-024.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.623	194898	130931	9.4270	ng/mL	101.00 >85.00	30.88	22.44-41.67
Sodium Perchlorate-18O4_IS	Auto	3.620	130931	130931	1.0000	ng/mL	----	----	

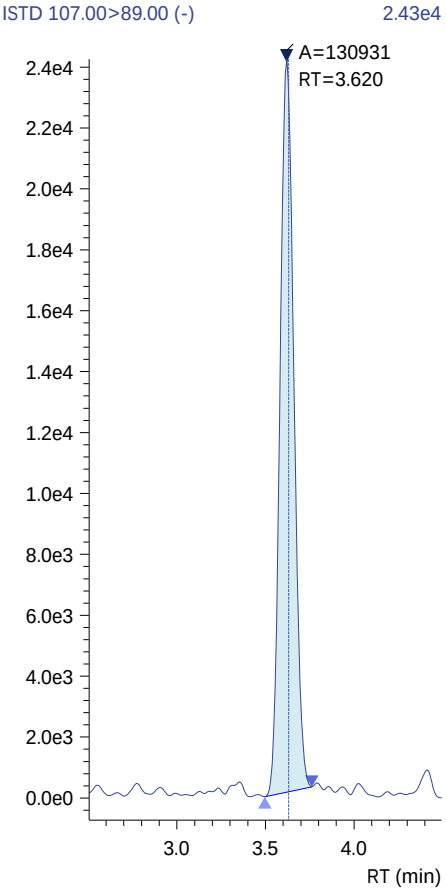
Perchlorate

Conc 9.4270
R#1 30.88 (32.06)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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CCV

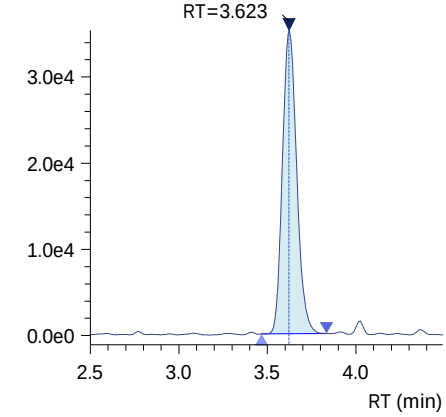
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-026.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.623	197131	145759	8.5650	ng/mL	101.00 >85.00	31.46	22.44-41.67
Sodium Perchlorate-18O4_IS	Auto	3.618	145759	145759	1.0000	ng/mL	----	----	

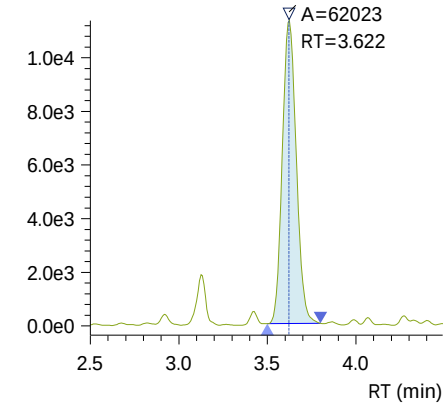
Perchlorate

Conc 8.5650
R#1 31.46 (32.06)

Q 99.00>83.00 (-) A=197131 RT=3.623 3.54e4



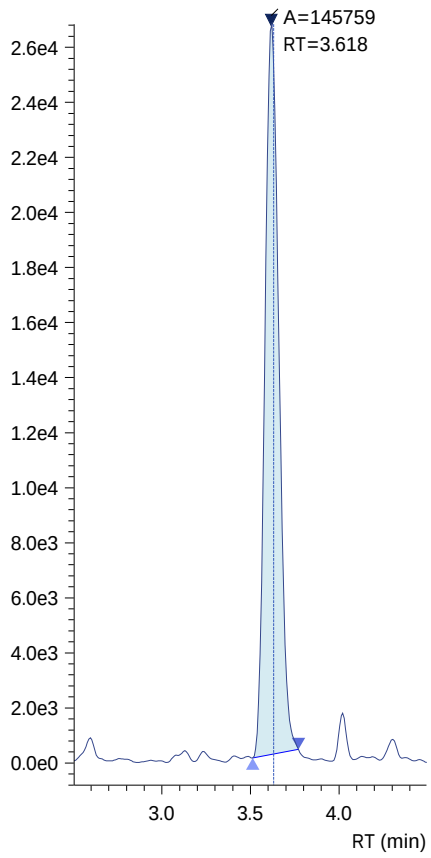
R1 101.00>85.00 (-) 1.14e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.68e4



Insight Report

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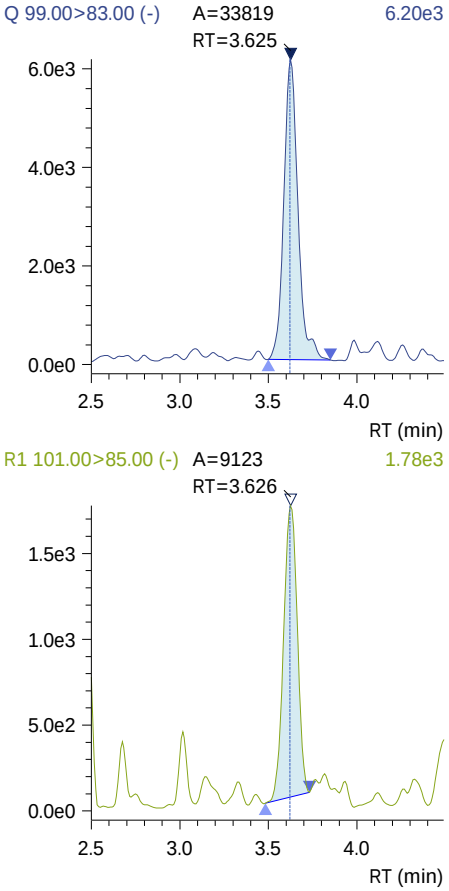
E2300588-005

Sample ID: E2300588-005
Date Acquired: 6/27/2023 12:14:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-027.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.625	33819	156567	1.3680	ng/mL	101.00 >85.00	26.98	22.44-41.67
Sodium Perchlorate-18O4 _IS	Auto	3.621	1565 67	156567	1.0000	ng/mL	----	----	

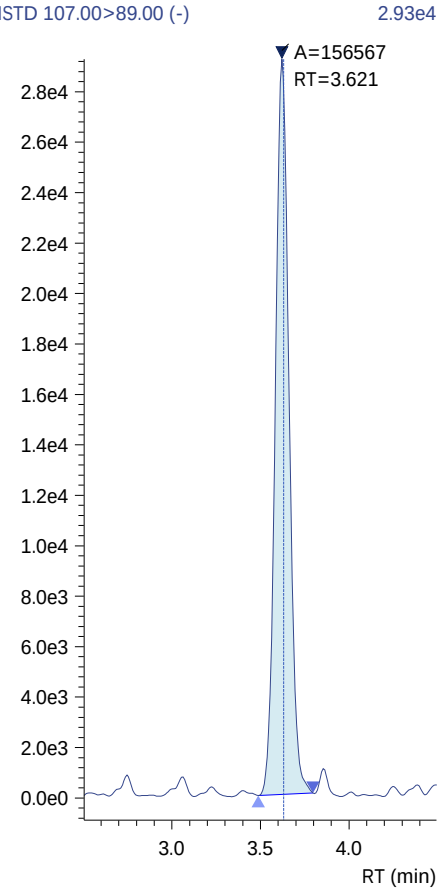
Perchlorate

Conc 1.3680
R#1 26.98 (32.06)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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E2300588-006

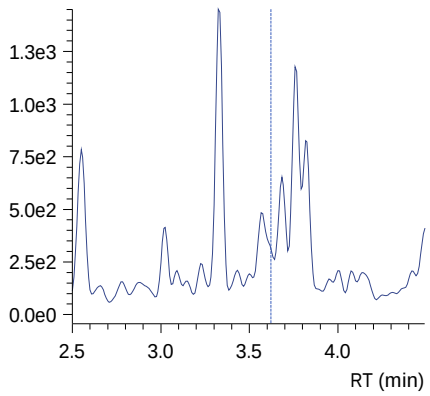
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-028.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	167230	----	ng/mL	101.00 >85.00	0.00	22.44-41.67
Sodium Perchlorate-18O4_IS	Auto	3.620	167230	167230	1.0000	ng/mL	----	----	

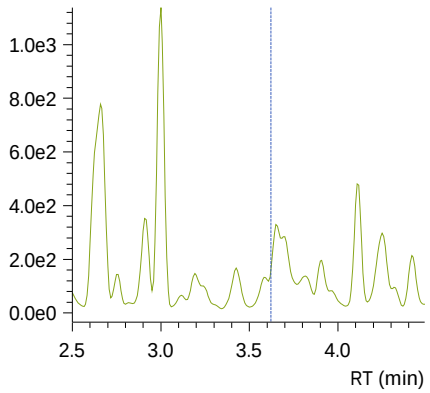
Perchlorate

Conc ----
R#1 0.00 (32.06)

Q 99.00>83.00 (-) 1.45e3



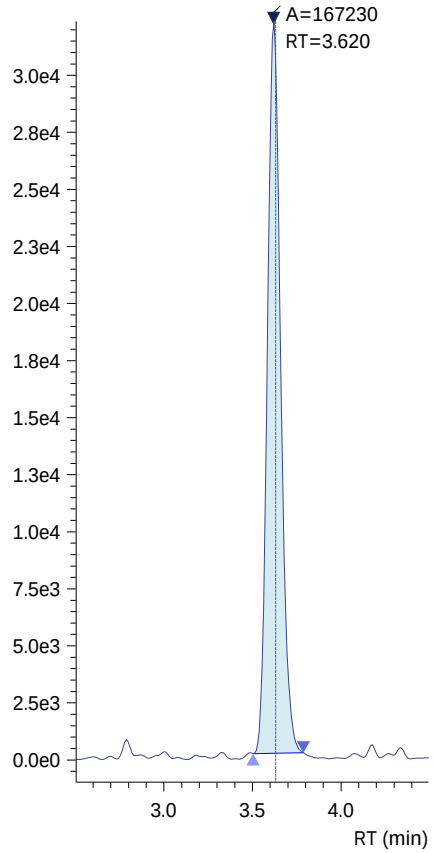
R1 101.00>85.00 (-) 1.14e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.24e4



Insight Report

Printed at 6/27/2023 3:34:11 PM

E2300588-007

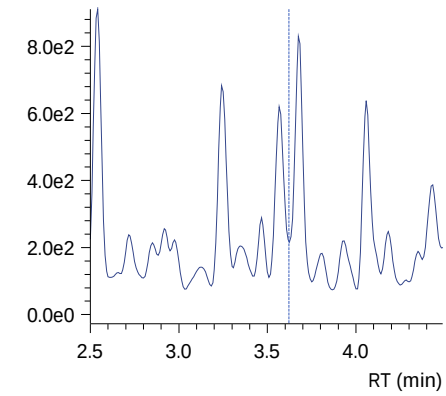
Sample ID: E2300588-007
Date Acquired: 6/27/2023 12:25:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-029.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	161219	----	ng/mL	101.00 >85.00	0.00	22.44-41.67
Sodium Perchlorate-18O4_IS	Auto	3.620	161219	161219	1.0000	ng/mL	----	----	

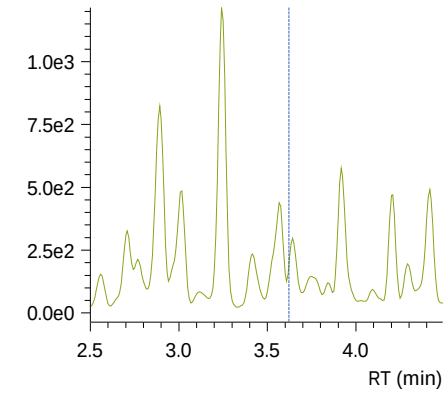
Perchlorate

Conc ----
R#1 0.00 (32.06)

Q 99.00>83.00 (-) 9.11e2



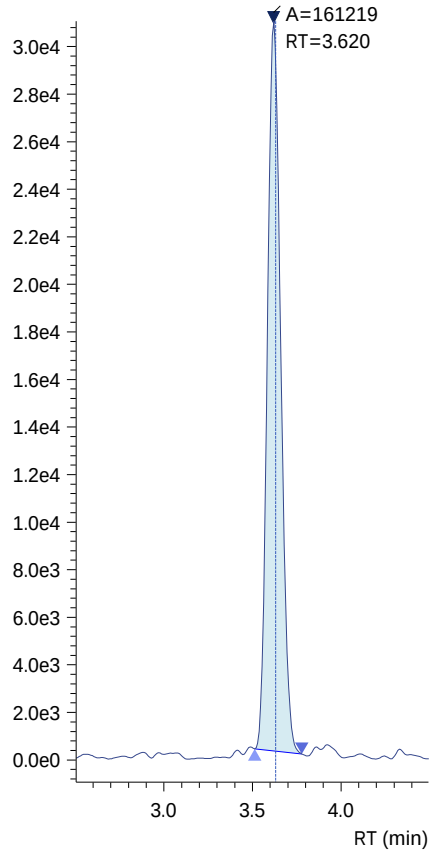
R1 101.00>85.00 (-) 1.22e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.11e4



Insight Report

Printed at 6/27/2023 3:34:11 PM

E2300588-008

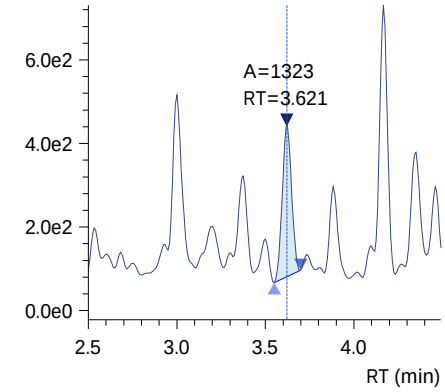
Sample ID: E2300588-008
Date Acquired: 6/27/2023 12:31:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-030.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.621	1323	169602	0.0494	ng/mL	101.00 >85.00	32.82	22.44-41.67
Sodium Perchlorate-18O4 _IS	Auto	3.620	169602	169602	1.0000	ng/mL	----	----	

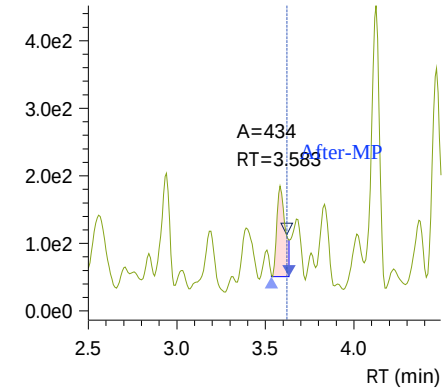
Perchlorate

Conc 0.0494
R#1 32.82 (32.06)

Q 99.00>83.00 (-) 7.31e2



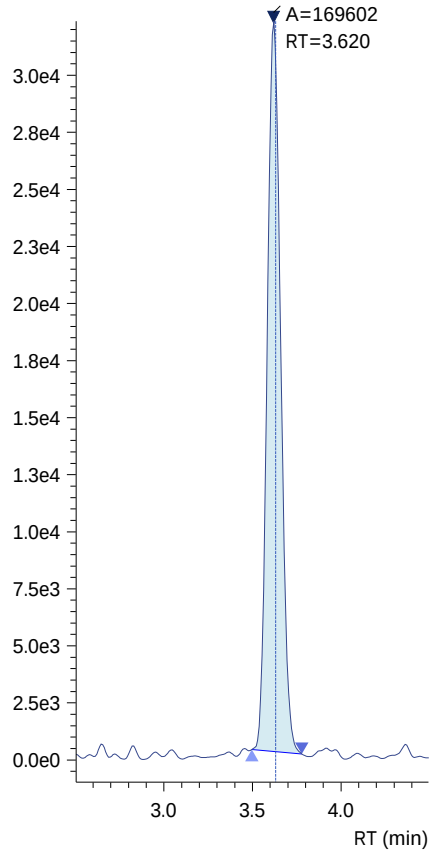
R1 101.00>85.00 (-) 4.52e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.24e4



Insight Report

Printed at 6/27/2023 3:40:30 PM

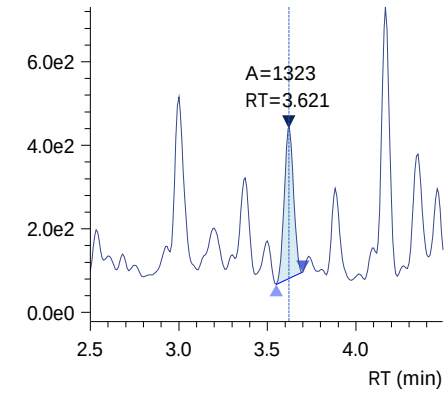
E2300588-008

Sample ID: E2300588-008
Date Acquired: 6/27/2023 12:31:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-030.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 4

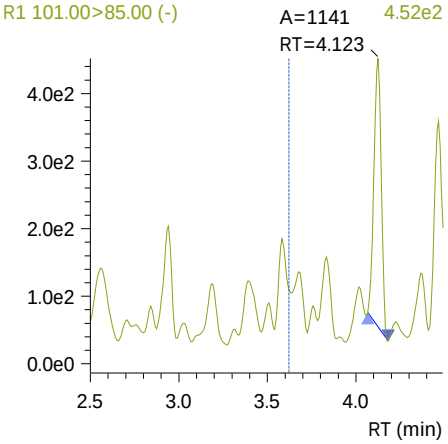
Perchlorate

Conc 0.0489
R#1 0.00 (32.06)

Q 99.00>83.00 (-) 7.31e2



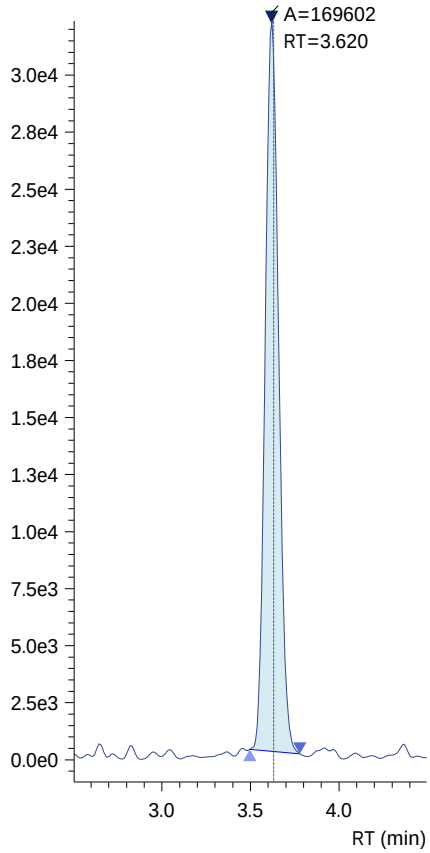
R1 101.00>85.00 (-) 4.52e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.24e4



Insight Report

Printed at 6/27/2023 3:34:11 PM

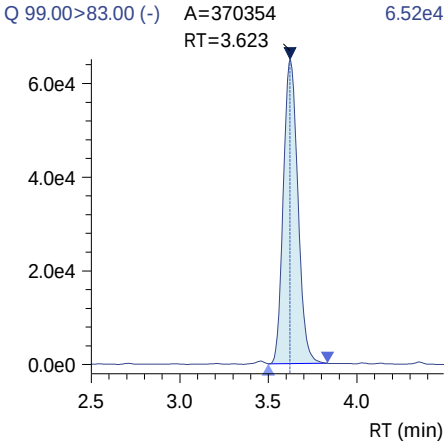
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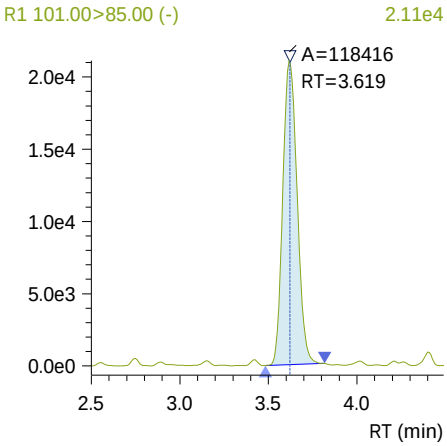
Sample ID: E2300588-004
Date Acquired: 6/27/2023 12:53:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-034.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.623	370354	136473	17.1862	ng/mL	101.00 >85.00	31.97	22.44-41.67
Sodium Perchlorate-18O4_IS	Auto	3.618	136473	136473	1.0000	ng/mL	----	----	

Perchlorate

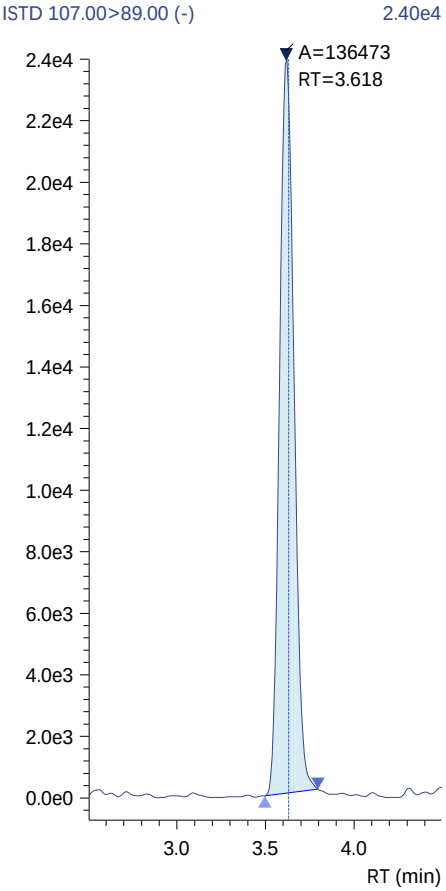
Conc 17.1862
R#1 31.97 (32.06)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/27/2023 3:34:11 PM

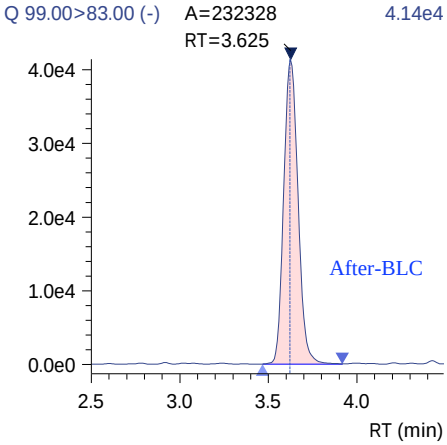
CCV

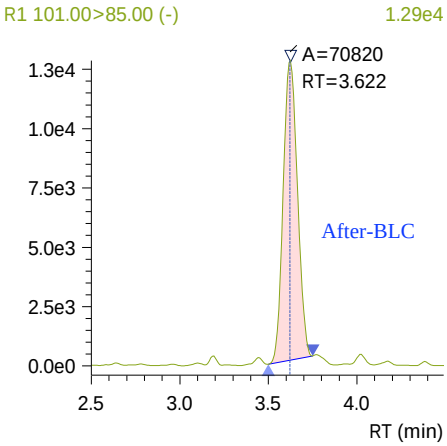
Sample ID: CCV
Date Acquired: 6/27/2023 1:00:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-035.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.625	232328	171895	8.5595	ng/mL	101.00 >85.00	30.48	22.44-41.67
Sodium Perchlorate-18O4_IS	Auto	3.620	171895	171895	1.0000	ng/mL	----	----	

Perchlorate

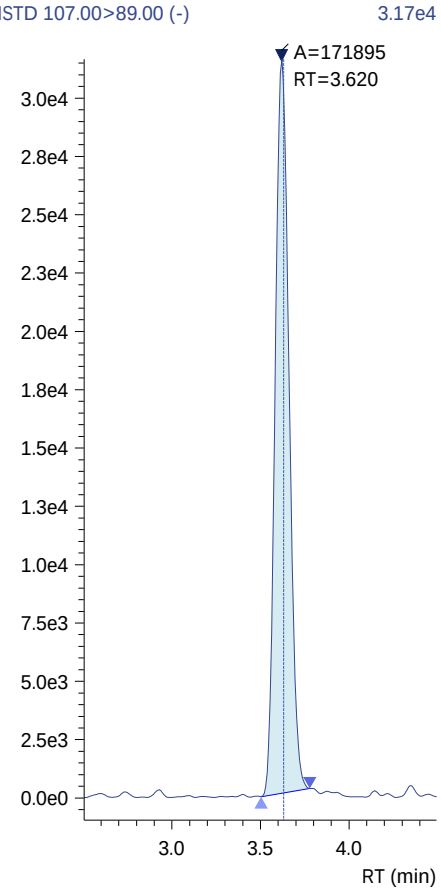
Conc 8.5595
R#1 30.48 (32.06)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/27/2023 3:40:30 PM

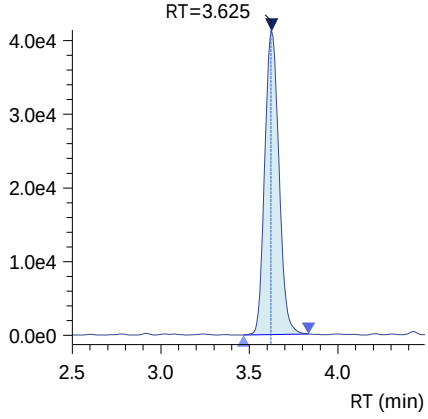
CCV

Sample ID: CCV
Date Acquired: 6/27/2023 1:00:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230627\20230627-035.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 2

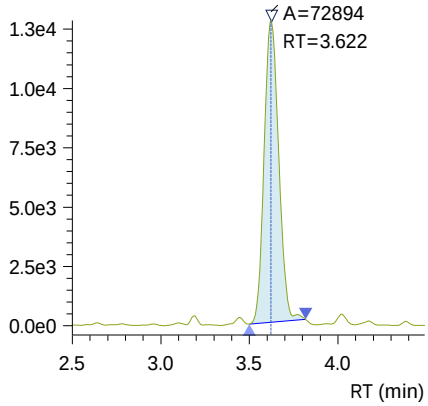
Perchlorate

Conc 8.4139
R#1 31.63 (32.06)

Q 99.00>83.00 (-) A=230471 4.14e4



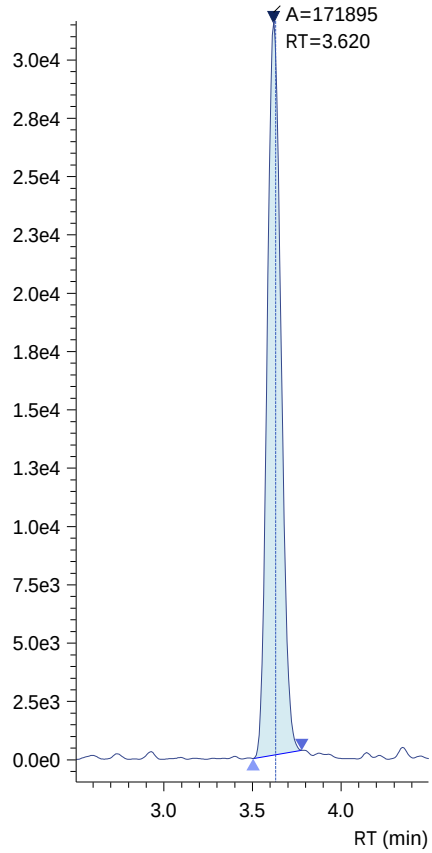
R1 101.00>85.00 (-) 1.29e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.17e4



HS23061707 LHAAP Site1824 Cover Page

ALS WO# HS23061707

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alsglobal.com

WorkOrder: HS23061707

LHAAP Site18/24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

05-Jul-2023

HS23061707 LHAAP Site1824 Final REV_01

ALS WO# HS23061707

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July 21, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23061707**

Laboratory Results for: **LHAAP Site18/24**

Dear Marcia Olive,

ALS Environmental received 11 sample(s) on Jun 24, 2023 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: DAYNA.FISHER
James Guin

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Work Order: HS23061707

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23061707-01	18WW19_062323	Groundwater		23-Jun-2023 06:55	24-Jun-2023 09:05	☐
HS23061707-02	18WW19_062323_a	Groundwater		23-Jun-2023 06:55	24-Jun-2023 09:05	☐
HS23061707-03	18WW20_062323	Groundwater		23-Jun-2023 07:40	24-Jun-2023 09:05	☐
HS23061707-04	18WW08_062323	Groundwater		23-Jun-2023 08:30	24-Jun-2023 09:05	☐
HS23061707-05	18WW09_062323	Groundwater		23-Jun-2023 09:15	24-Jun-2023 09:05	☐
HS23061707-06	18CPTMW15_062323	Groundwater		23-Jun-2023 10:00	24-Jun-2023 09:05	☐
HS23061707-07	18CPTMW15_062323_a	Groundwater		23-Jun-2023 10:00	24-Jun-2023 09:05	☐
HS23061707-08	MW18_062323	Groundwater		23-Jun-2023 11:00	24-Jun-2023 09:05	☐
HS23061707-09	MW19_062323	Groundwater		23-Jun-2023 11:45	24-Jun-2023 09:05	☐
HS23061707-10	18CPTMW26SW_062323	Groundwater		23-Jun-2023 12:30	24-Jun-2023 09:05	☐
HS23061707-11	Trip Blank	Water	CG-041923-958	23-Jun-2023 00:00	24-Jun-2023 09:05	☐

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Work Order: HS23061707

CASE NARRATIVE

Work Order Comments

• This report was revised 07/21/23 to add Mercury analysis to the associated total metals samples on the chain of custody.

Work Order Comments

• The analysis for Perchlorate was subcontracted to our ALS Houston TX, High Resolution Lab. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 196920

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R439909

Sample ID: HS23061712-08MS

• MS and MSD are for an unrelated sample

Sample ID: 18WW19_062323 (HS23061707-01MS)

• MS and/or MSD recovered outside control limits

Metals by Method SW7470A

Batch ID: 197746

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 197198

Sample ID: HS23061712-08MS

• MS/MSD and DUPs are for an unrelated sample

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW19_062323
Collection Date: 23-Jun-2023 06:55

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:00
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 15:00
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:00
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 15:00
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 15:00
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 15:00
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:00
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 15:00
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:00
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 15:00
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 15:00
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 15:00
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:00
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 15:00
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	26-Jun-2023 15:00
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:00
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 15:00
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 15:00
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 15:00
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:00
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:00
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 15:00
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 15:00
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW19_062323
Collection Date: 23-Jun-2023 06:55

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:00
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 15:00
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 15:00
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 15:00
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 15:00
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 15:00
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 15:00
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 15:00
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 15:00
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 15:00
Surr: 1,2-Dichloroethane-d4	*92.1*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 15:00*
Surr: 4-Bromofluorobenzene	*96.3*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 15:00*
Surr: Dibromofluoromethane	*95.6*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 15:00*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 15:00*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW19_062323
Collection Date: 23-Jun-2023 06:55

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.288**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:29
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:29
Arsenic	**0.000541**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:29
Barium	**0.122**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:29
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:29
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:29
Calcium	**5.24**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:29
Chromium	**0.0380**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:29
Cobalt	**0.000710**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:29
Copper	**0.00201**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:29
Iron	**18.4**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:29
Lead	**0.000697**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:29
Magnesium	**2.91**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:29
Manganese	**0.340**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:29
Nickel	**0.0156**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:29
Potassium	**1.83**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:29
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:29
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:29
Sodium	**19.8**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:29
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:29
Vanadium	**0.00188**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:29
Zinc	**0.00484**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:29
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 19-Jul-2023		Analyst: JC
Mercury	**0.0000420**	J	**0.0000300**	**0.000100**	**0.000200**	**mg/L**	1	19-Jul-2023 16:06
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW19_062323_a
Collection Date: 23-Jun-2023 06:55

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:49
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:49
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:49
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:49
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 17:49
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:49
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:49
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 17:49
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 17:49
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:49
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 17:49
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 17:49
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	26-Jun-2023 17:49
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 17:49
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:49
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:49
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW19_062323_a
Collection Date: 23-Jun-2023 06:55

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:49
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:49
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:49
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:49
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
m,p-Xylene	2.0	U	0.50	2.0	2.0	ug/L	1	26-Jun-2023 17:49
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 17:49
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 17:49
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:49
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:49
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:49
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:49
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:49
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:49
Surr: 1,2-Dichloroethane-d4	*90.5*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 17:49*
Surr: 4-Bromofluorobenzene	*93.9*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 17:49*
Surr: Dibromofluoromethane	*93.5*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 17:49*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 17:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW19_062323_a
Collection Date: 23-Jun-2023 06:55

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.614**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:31
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:31
Arsenic	**0.000663**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:31
Barium	**0.119**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:31
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:31
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:31
Calcium	**5.26**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:31
Chromium	**0.0578**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:31
Cobalt	**0.000804**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:31
Copper	**0.00186**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:31
Iron	**19.0**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:31
Lead	**0.000789**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:31
Magnesium	**2.92**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:31
Manganese	**0.366**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:31
Nickel	**0.0159**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:31
Potassium	**1.87**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:31
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:31
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:31
Sodium	**19.7**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:31
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:31
Vanadium	**0.00244**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:31
Zinc	**0.00514**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:31
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 19-Jul-2023		Analyst: JC
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	19-Jul-2023 16:14
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW20_062323
Collection Date: 23-Jun-2023 07:40

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:10
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:10
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:10
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:10
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 18:10
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	26-Jun-2023 18:10
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:10
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	26-Jun-2023 18:10
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 18:10
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 18:10
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:10
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:10
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:10
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW20_062323
Collection Date: 23-Jun-2023 07:40

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:10
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:10
m,p-Xylene	2.0	U	0.50	2.0	2.0	ug/L	1	26-Jun-2023 18:10
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 18:10
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:10
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:10
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:10
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:10
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:10
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:10
Surr: 1,2-Dichloroethane-d4	*92.4*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 18:10*
Surr: 4-Bromofluorobenzene	*94.1*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 18:10*
Surr: Dibromofluoromethane	*94.4*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 18:10*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 18:10*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**0.016**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	05-Jul-2023 13:08
Surr: 2-Fluorobiphenyl	*103*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 13:08*
Surr: 4-Terphenyl-d14	*113*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 13:08*
Surr: Nitrobenzene-d5	*94.6*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 13:08*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW20_062323
Collection Date: 23-Jun-2023 07:40

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.0164**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:33
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:33
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:33
Barium	**0.0694**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:33
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:33
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:33
Calcium	**1.95**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:33
Chromium	**0.000965**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:33
Cobalt	**0.000420**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:33
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	07-Jul-2023 17:33
Iron	**7.34**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:33
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:33
Magnesium	**1.32**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:33
Manganese	**0.108**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:33
Nickel	**0.00107**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:33
Potassium	**1.29**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:33
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:33
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:33
Sodium	**20.8**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:33
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:33
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:33
Zinc	**0.00427**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:33
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 19-Jul-2023		Analyst: JC
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	19-Jul-2023 16:16
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW08_062323
Collection Date: 23-Jun-2023 08:30

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:31
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:31
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:31
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:31
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:31
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:31
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:31
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 18:31
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	26-Jun-2023 18:31
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:31
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	26-Jun-2023 18:31
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 18:31
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	26-Jun-2023 18:31
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW08_062323
Collection Date: 23-Jun-2023 08:30

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:31
cis-1,2-Dichloroethene	**1.9**		**0.20**	**1.0**	**1.0**	**ug/L**	1	26-Jun-2023 18:31
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 18:31
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 18:31
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 18:31
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:31
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:31
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:31
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:31
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:31
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:31
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:31
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:31
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:31
Trichloroethene	**6.2**		**0.20**	**1.0**	**1.0**	**ug/L**	1	26-Jun-2023 18:31
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:31
Vinyl chloride	**1.0**		**0.20**	**1.0**	**1.0**	**ug/L**	1	26-Jun-2023 18:31
Surr: 1,2-Dichloroethane-d4	*91.7*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 18:31*
Surr: 4-Bromofluorobenzene	*96.9*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 18:31*
Surr: Dibromofluoromethane	*95.4*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 18:31*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 18:31*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**0.017**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	05-Jul-2023 13:26
Surr: 2-Fluorobiphenyl	*104*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 13:26*
Surr: 4-Terphenyl-d14	*111*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 13:26*
Surr: Nitrobenzene-d5	*100.0*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 13:26*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18WW09_062323
Collection Date: 23-Jun-2023 09:15

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**0.016**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	05-Jul-2023 13:44
Surr: 2-Fluorobiphenyl	*108*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 13:44*
Surr: 4-Terphenyl-d14	*103*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 13:44*
Surr: Nitrobenzene-d5	*95.3*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 13:44*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**0.258**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:35
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:35
Arsenic	**0.00397**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:35
Barium	**0.221**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:35
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:35
Cadmium	**0.000243**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	07-Jul-2023 17:35
Calcium	**15.6**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:35
Chromium	**0.0250**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:35
Cobalt	**0.000854**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:35
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	07-Jul-2023 17:35
Iron	**35.8**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:35
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:35
Magnesium	**8.90**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:35
Manganese	**0.659**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:35
Nickel	**0.0131**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:35
Potassium	**2.08**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:35
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:35
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:35
Sodium	**40.5**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:35
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:35
Vanadium	**0.00144**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:35
Zinc	**0.00365**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:35
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 19-Jul-2023		Analyst: JC
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	19-Jul-2023 16:17
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW15_062323
Collection Date: 23-Jun-2023 10:00

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:52
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:52
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:52
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 18:52
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:52
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:52
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:52
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 18:52
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 18:52
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:52
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 18:52
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 18:52
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 18:52
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW15_062323
Collection Date: 23-Jun-2023 10:00

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:52
cis-1,2-Dichloroethene	**0.83**	J	**0.20**	**0.50**	**1.0**	**ug/L**	1	26-Jun-2023 18:52
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	26-Jun-2023 18:52
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
m,p-Xylene	2.0	U	0.50	2.0	2.0	ug/L	1	26-Jun-2023 18:52
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 18:52
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 18:52
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:52
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:52
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:52
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:52
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:52
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 18:52
Trichloroethene	**7.3**		**0.20**	**0.50**	**1.0**	**ug/L**	1	26-Jun-2023 18:52
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 18:52
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 18:52
Surr: 1,2-Dichloroethane-d4	*92.0*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 18:52*
Surr: 4-Bromofluorobenzene	*97.1*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 18:52*
Surr: Dibromofluoromethane	*94.7*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 18:52*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 18:52*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**0.025**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	05-Jul-2023 14:02
Surr: 2-Fluorobiphenyl	*112*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:02*
Surr: 4-Terphenyl-d14	*100*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:02*
Surr: Nitrobenzene-d5	*108*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:02*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW15_062323_a
Collection Date: 23-Jun-2023 10:00

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:13
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:13
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:13
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:13
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:13
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:13
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:13
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:13
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 19:13
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 19:13
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:13
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:13
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 19:13
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 19:13
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 19:13
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW15_062323_a
Collection Date: 23-Jun-2023 10:00

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:13
cis-1,2-Dichloroethene	**0.89**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	26-Jun-2023 19:13
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 19:13
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 19:13
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:13
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:13
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:13
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:13
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:13
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Trichloroethene	**7.3**		**0.20**	**1.0**	**1.0**	**ug/L**	1	26-Jun-2023 19:13
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:13
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:13
Surr: 1,2-Dichloroethane-d4	*91.4*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 19:13*
Surr: 4-Bromofluorobenzene	*95.8*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 19:13*
Surr: Dibromofluoromethane	*95.0*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 19:13*
Surr: Toluene-d8	*102*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 19:13*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**0.022**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	05-Jul-2023 14:20
Surr: 2-Fluorobiphenyl	*98.1*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:20*
Surr: 4-Terphenyl-d14	*102*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:20*
Surr: Nitrobenzene-d5	*103*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:20*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW18_062323
Collection Date: 23-Jun-2023 11:00

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:34
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:34
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:34
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:34
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:34
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:34
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:34
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:34
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 19:34
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	26-Jun-2023 19:34
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:34
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:34
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	26-Jun-2023 19:34
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 19:34
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	26-Jun-2023 19:34
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW18_062323
Collection Date: 23-Jun-2023 11:00

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:34
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:34
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
m,p-Xylene	2.0	U	0.50	2.0	2.0	ug/L	1	26-Jun-2023 19:34
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 19:34
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:34
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:34
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:34
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:34
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:34
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Trichloroethene	**4.6**		**0.20**	**0.50**	**1.0**	**ug/L**	1	26-Jun-2023 19:34
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:34
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:34
Surr: 1,2-Dichloroethane-d4	*92.4*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 19:34*
Surr: 4-Bromofluorobenzene	*94.0*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 19:34*
Surr: Dibromofluoromethane	*95.9*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 19:34*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 19:34*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW19_062323
Collection Date: 23-Jun-2023 11:45

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:55
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:55
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:55
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,2-Dichloroethane	**0.57**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	26-Jun-2023 19:55
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:55
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:55
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:55
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:55
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 19:55
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 19:55
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:55
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:55
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	26-Jun-2023 19:55
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 19:55
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	26-Jun-2023 19:55
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW19_062323
Collection Date: 23-Jun-2023 11:45

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:55
cis-1,2-Dichloroethene	**4.4**		**0.20**	**1.0**	**1.0**	**ug/L**	1	26-Jun-2023 19:55
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 19:55
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 19:55
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 19:55
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:55
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:55
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:55
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:55
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Trichloroethene	**2.5**		**0.20**	**1.0**	**1.0**	**ug/L**	1	26-Jun-2023 19:55
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 19:55
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 19:55
Surr: 1,2-Dichloroethane-d4	*93.2*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 19:55*
Surr: 4-Bromofluorobenzene	*95.3*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 19:55*
Surr: Dibromofluoromethane	*95.7*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 19:55*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 19:55*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: MW19_062323
Collection Date: 23-Jun-2023 11:45

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jul-2023		Analyst: JC
Aluminum	**1.35**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	07-Jul-2023 17:37
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	07-Jul-2023 17:37
Arsenic	**0.00223**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:37
Barium	**0.189**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:37
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:37
Cadmium	**0.000512**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	07-Jul-2023 17:37
Calcium	**116**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	07-Jul-2023 17:37
Chromium	**0.302**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:37
Cobalt	**0.00792**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	07-Jul-2023 17:37
Copper	**0.00743**		**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:37
Iron	**86.7**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:37
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	07-Jul-2023 17:37
Magnesium	**67.4**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	07-Jul-2023 17:37
Manganese	**2.13**		**0.0140**	**0.0500**	**0.100**	**mg/L**	20	07-Jul-2023 18:42
Nickel	**0.186**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:37
Potassium	**3.97**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	07-Jul-2023 17:37
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	07-Jul-2023 17:37
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	07-Jul-2023 17:37
Sodium	**931**		**0.280**	**1.00**	**4.00**	**mg/L**	20	07-Jul-2023 18:42
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	07-Jul-2023 17:37
Vanadium	**0.00298**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	07-Jul-2023 17:37
Zinc	**0.0101**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	07-Jul-2023 17:37
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 19-Jul-2023		Analyst: JC
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	19-Jul-2023 16:19
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW26SW_062323
Collection Date: 23-Jun-2023 12:30

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-10
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 20:16
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 20:16
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 20:16
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 20:16
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 20:16
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 20:16
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 20:16
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:16
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 20:16
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 20:16
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	26-Jun-2023 20:16
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	26-Jun-2023 20:16
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:16
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 20:16
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	26-Jun-2023 20:16
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	26-Jun-2023 20:16
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	26-Jun-2023 20:16
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: 18CPTMW26SW_062323
Collection Date: 23-Jun-2023 12:30

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-10
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 20:16
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
m,p-Xylene	2.0	U	0.50	2.0	2.0	ug/L	1	26-Jun-2023 20:16
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 20:16
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 20:16
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 20:16
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 20:16
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 20:16
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 20:16
Surr: 1,2-Dichloroethane-d4	*92.8*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 20:16*
Surr: 4-Bromofluorobenzene	*95.4*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 20:16*
Surr: Dibromofluoromethane	*96.1*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 20:16*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 20:16*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 29-Jun-2023		Analyst: JL
1,4-Dioxane	**0.012**		**0.010**	**0.0050**	**0.010**	**ug/L**	1	05-Jul-2023 14:38
Surr: 2-Fluorobiphenyl	*107*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:38*
Surr: 4-Terphenyl-d14	*105*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:38*
Surr: Nitrobenzene-d5	*102*			**0**	*40-140*	*%REC*	*1*	*05-Jul-2023 14:38*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: KR
Subcontract Analysis	See Attached		0	0		NA	1	11-Jul-2023 11:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: Trip Blank
Collection Date: 23-Jun-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-11
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:07
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:07
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:07
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:07
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:07
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:07
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:07
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:07
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	26-Jun-2023 17:07
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	26-Jun-2023 17:07
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 17:07
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:07
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	26-Jun-2023 17:07
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 17:07
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	26-Jun-2023 17:07
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
Sample ID: Trip Blank
Collection Date: 23-Jun-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23061707
Lab ID:HS23061707-11
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:07
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:07
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
m,p-Xylene	2.0	U	0.50	2.0	2.0	ug/L	1	26-Jun-2023 17:07
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	26-Jun-2023 17:07
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	26-Jun-2023 17:07
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:07
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:07
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:07
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:07
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	26-Jun-2023 17:07
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	26-Jun-2023 17:07
Surr: 1,2-Dichloroethane-d4	*93.2*			**0**	*81-118*	*%REC*	*1*	*26-Jun-2023 17:07*
Surr: 4-Bromofluorobenzene	*94.6*			**0**	*85-114*	*%REC*	*1*	*26-Jun-2023 17:07*
Surr: Dibromofluoromethane	*96.5*			**0**	*80-119*	*%REC*	*1*	*26-Jun-2023 17:07*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*1*	*26-Jun-2023 17:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US Date: 21-Jul-23

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Batch ID: 196920 **Start Date:** 29 Jun 2023 12:18 **End Date:** 29 Jun 2023 12:18
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061707-03	1	1000 (mL)	1 (mL)	0.001	1-L glass, HCl to pH <2
HS23061707-04	1	1000 (mL)	1 (mL)	0.001	1-L glass, HCl to pH <2
HS23061707-05	1	1000 (mL)	1 (mL)	0.001	1-L glass, HCl to pH <2
HS23061707-06	1	1000 (mL)	1 (mL)	0.001	1-L glass, HCl to pH <2
HS23061707-07	1	1000 (mL)	1 (mL)	0.001	1-L glass, HCl to pH <2
HS23061707-10	1	1000 (mL)	1 (mL)	0.001	1-L glass, HCl to pH <2

Batch ID: 197198 **Start Date:** 06 Jul 2023 14:00 **End Date:** 06 Jul 2023 14:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061707-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061707-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061707-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061707-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061707-09		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 197746 **Start Date:** 19 Jul 2023 09:00 **End Date:** 19 Jul 2023 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061707-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061707-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061707-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061707-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23061707-09		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 196920 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Groundwater	
HS23061707-03	18WW20_062323	23 Jun 2023 07:40		29 Jun 2023 12:18	05 Jul 2023 13:08	1
HS23061707-04	18WW08_062323	23 Jun 2023 08:30		29 Jun 2023 12:18	05 Jul 2023 13:26	1
HS23061707-05	18WW09_062323	23 Jun 2023 09:15		29 Jun 2023 12:18	05 Jul 2023 13:44	1
HS23061707-06	18CPTMW15_062323	23 Jun 2023 10:00		29 Jun 2023 12:18	05 Jul 2023 14:02	1
HS23061707-07	18CPTMW15_062323_a	23 Jun 2023 10:00		29 Jun 2023 12:18	05 Jul 2023 14:20	1
HS23061707-10	18CPTMW26SW_062323	23 Jun 2023 12:30		29 Jun 2023 12:18	05 Jul 2023 14:38	1
Batch ID: 197198 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Groundwater	
HS23061707-01	18WW19_062323	23 Jun 2023 06:55		06 Jul 2023 14:00	07 Jul 2023 17:29	1
HS23061707-02	18WW19_062323_a	23 Jun 2023 06:55		06 Jul 2023 14:00	07 Jul 2023 17:31	1
HS23061707-03	18WW20_062323	23 Jun 2023 07:40		06 Jul 2023 14:00	07 Jul 2023 17:33	1
HS23061707-05	18WW09_062323	23 Jun 2023 09:15		06 Jul 2023 14:00	07 Jul 2023 17:35	1
HS23061707-09	MW19_062323	23 Jun 2023 11:45		06 Jul 2023 14:00	07 Jul 2023 18:42	20
HS23061707-09	MW19_062323	23 Jun 2023 11:45		06 Jul 2023 14:00	07 Jul 2023 17:37	1
Batch ID: 197746 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Groundwater	
HS23061707-01	18WW19_062323	23 Jun 2023 06:55		19 Jul 2023 09:00	19 Jul 2023 16:06	1
HS23061707-02	18WW19_062323_a	23 Jun 2023 06:55		19 Jul 2023 09:00	19 Jul 2023 16:14	1
HS23061707-03	18WW20_062323	23 Jun 2023 07:40		19 Jul 2023 09:00	19 Jul 2023 16:16	1
HS23061707-05	18WW09_062323	23 Jun 2023 09:15		19 Jul 2023 09:00	19 Jul 2023 16:17	1
HS23061707-09	MW19_062323	23 Jun 2023 11:45		19 Jul 2023 09:00	19 Jul 2023 16:19	1
Batch ID: R439909 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23061707-11	Trip Blank	23 Jun 2023 00:00			26 Jun 2023 17:07	1
Batch ID: R439909 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS23061707-01	18WW19_062323	23 Jun 2023 06:55			26 Jun 2023 15:00	1
HS23061707-02	18WW19_062323_a	23 Jun 2023 06:55			26 Jun 2023 17:49	1
HS23061707-03	18WW20_062323	23 Jun 2023 07:40			26 Jun 2023 18:10	1
HS23061707-04	18WW08_062323	23 Jun 2023 08:30			26 Jun 2023 18:31	1
HS23061707-06	18CPTMW15_062323	23 Jun 2023 10:00			26 Jun 2023 18:52	1
HS23061707-07	18CPTMW15_062323_a	23 Jun 2023 10:00			26 Jun 2023 19:13	1
HS23061707-08	MW18_062323	23 Jun 2023 11:00			26 Jun 2023 19:34	1
HS23061707-09	MW19_062323	23 Jun 2023 11:45			26 Jun 2023 19:55	1
HS23061707-10	18CPTMW26SW_062323	23 Jun 2023 12:30			26 Jun 2023 20:16	1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R440974 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS23061707-01	18WW19_062323	23 Jun 2023 06:55			11 Jul 2023 11:12	1
HS23061707-02	18WW19_062323_a	23 Jun 2023 06:55			11 Jul 2023 11:12	1
HS23061707-03	18WW20_062323	23 Jun 2023 07:40			11 Jul 2023 11:12	1
HS23061707-04	18WW08_062323	23 Jun 2023 08:30			11 Jul 2023 11:12	1
HS23061707-05	18WW09_062323	23 Jun 2023 09:15			11 Jul 2023 11:12	1
HS23061707-06	18CPTMW15_062323	23 Jun 2023 10:00			11 Jul 2023 11:12	1
HS23061707-07	18CPTMW15_062323_a	23 Jun 2023 10:00			11 Jul 2023 11:12	1
HS23061707-08	MW18_062323	23 Jun 2023 11:00			11 Jul 2023 11:12	1
HS23061707-09	MW19_062323	23 Jun 2023 11:45			11 Jul 2023 11:12	1
HS23061707-10	18CPTMW26SW_062323	23 Jun 2023 12:30			11 Jul 2023 11:12	1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-197198** Units: **mg/L** Analysis Date: **07-Jul-2023 16:55**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407791** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00500	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00250	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.000737	0.00500								J
Nickel	0.00125	0.00500								U
Potassium	1.00	0.200								U
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.02611	0.200								J
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-197198** Units: **mg/L** Analysis Date: **07-Jul-2023 16:57**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407792** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1016	0.0100	0.1	0	102	84 - 117				
Antimony	0.04562	0.00500	0.05	0	91.2	85 - 117				
Arsenic	0.04475	0.00500	0.05	0	89.5	84 - 116				
Barium	0.04351	0.00500	0.05	0	87.0	86 - 114				
Beryllium	0.04595	0.00200	0.05	0	91.9	83 - 121				
Cadmium	0.04446	0.00200	0.05	0	88.9	87 - 115				
Calcium	4.857	0.500	5	0	97.1	87 - 118				
Chromium	0.04428	0.00500	0.05	0	88.6	85 - 116				
Cobalt	0.04416	0.00500	0.05	0	88.3	86 - 115				
Copper	0.04532	0.00500	0.05	0	90.6	85 - 118				
Iron	4.675	0.200	5	0	93.5	87 - 118				
Magnesium	4.84	0.200	5	0	96.8	83 - 118				
Manganese	0.04525	0.00500	0.05	0	90.5	87 - 115				
Nickel	0.04568	0.00500	0.05	0	91.4	85 - 117				
Potassium	4.797	0.200	5	0	95.9	87 - 115				
Selenium	0.04497	0.00500	0.05	0	89.9	80 - 120				
Silver	0.04457	0.00500	0.05	0	89.1	85 - 116				
Sodium	4.773	0.200	5	0	95.5	85 - 117				
Vanadium	0.04433	0.00500	0.05	0	88.7	86 - 115				
Zinc	0.04719	0.00500	0.05	0	94.4	83 - 119				

LCS Sample ID: **LCS-197198** Units: **mg/L** Analysis Date: **07-Jul-2023 18:28**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407895** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	0.0474	0.00500	0.05	0	94.8	88 - 115				
Thallium	0.04474	0.00200	0.05	0	89.5	82 - 116				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS23061712-08MS** Units: **mg/L** Analysis Date: **07-Jul-2023 17:03**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407795** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	0.09509	0.0100	0.1	0.005422	89.7	84 - 117			
Antimony	0.04505	0.00500	0.05	0.000106	89.9	85 - 117			
Arsenic	0.04542	0.00500	0.05	0.000167	90.5	84 - 116			
Barium	0.5178	0.00500	0.05	0.4937	48.1	86 - 114			SO
Beryllium	0.04778	0.00200	0.05	0.000003	95.6	83 - 121			
Cadmium	0.04469	0.00200	0.05	0.00012	89.1	87 - 115			
Calcium	28.51	0.500	5	24.2	86.1	87 - 118			SO
Chromium	0.06521	0.00500	0.05	0.02175	86.9	85 - 116			
Cobalt	0.06097	0.00500	0.05	0.01869	84.6	86 - 115			S
Copper	0.04422	0.00500	0.05	0.001373	85.7	85 - 118			
Iron	5.463	0.200	5	0.9238	90.8	87 - 118			
Magnesium	25.04	0.200	5	20.72	86.3	83 - 118			O
Manganese	0.6867	0.00500	0.05	0.6707	32.0	87 - 115			SO
Nickel	1.381	0.00500	0.05	1.357	49.1	85 - 117			SO
Potassium	6.671	0.200	5	2.144	90.5	87 - 115			
Selenium	0.04458	0.00500	0.05	-0.000058	89.3	80 - 120			
Silver	0.04385	0.00500	0.05	0.00001	87.7	85 - 116			
Sodium	195.6	0.200	5	194	31.6	85 - 117			SEO
Vanadium	0.04448	0.00500	0.05	0.00013	88.7	86 - 115			
Zinc	0.04651	0.00500	0.05	0.00189	89.2	83 - 119			

MS Sample ID: **HS23061712-08MS** Units: **mg/L** Analysis Date: **07-Jul-2023 18:09**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407889** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Lead	0.04924	0.00500	0.05	0	98.5	88 - 115			
Thallium	0.04939	0.00200	0.05	0.000636	97.5	82 - 116			

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS23061712-08MSD** Units: **mg/L** Analysis Date: **07-Jul-2023 17:05**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407796** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09607	0.0100	0.1	0.005422	90.7	84 - 117	0.09509	1.03	20	
Antimony	0.04592	0.00500	0.05	0.000106	91.6	85 - 117	0.04505	1.91	20	
Arsenic	0.04624	0.00500	0.05	0.000167	92.2	84 - 116	0.04542	1.79	20	
Barium	0.5331	0.00500	0.05	0.4937	78.8	86 - 114	0.5178	2.92	20	SO
Beryllium	0.04702	0.00200	0.05	0.000003	94.0	83 - 121	0.04778	1.61	20	
Cadmium	0.046	0.00200	0.05	0.00012	91.8	87 - 115	0.04469	2.9	20	
Calcium	29.1	0.500	5	24.2	97.9	87 - 118	28.51	2.05	20	O
Chromium	0.0658	0.00500	0.05	0.02175	88.1	85 - 116	0.06521	0.893	20	
Cobalt	0.06114	0.00500	0.05	0.01869	84.9	86 - 115	0.06097	0.28	20	S
Copper	0.04503	0.00500	0.05	0.001373	87.3	85 - 118	0.04422	1.82	20	
Iron	5.518	0.200	5	0.9238	91.9	87 - 118	5.463	1.02	20	
Lead	0.04484	0.00500	0.05	0.00001	89.6	88 - 115	0.0438	2.34	20	
Magnesium	25.17	0.200	5	20.72	88.9	83 - 118	25.04	0.508	20	O
Manganese	0.6945	0.00500	0.05	0.6707	47.6	87 - 115	0.6867	1.13	20	SO
Nickel	1.389	0.00500	0.05	1.357	64.4	85 - 117	1.381	0.552	20	SO
Potassium	6.734	0.200	5	2.144	91.8	87 - 115	6.671	0.936	20	
Selenium	0.0457	0.00500	0.05	-0.000058	91.5	80 - 120	0.04458	2.47	20	
Silver	0.04409	0.00500	0.05	0.00001	88.2	85 - 116	0.04385	0.539	20	
Sodium	197.3	0.200	5	194	67.0	85 - 117	195.6	0.902	20	SEO
Thallium	0.0424	0.00200	0.05	0.000636	83.5	82 - 116	0.04061	4.31	20	
Vanadium	0.04468	0.00500	0.05	0.00013	89.1	86 - 115	0.04448	0.437	20	
Zinc	0.04747	0.00500	0.05	0.00189	91.2	83 - 119	0.04651	2.04	20	

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS23061712-08PDS** Units: **mg/L** Analysis Date: **07-Jul-2023 17:07**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407797** PrepDate: **06-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1012	0.0100	0.1	0.005422	95.8	80 - 120				
Antimony	0.09021	0.00500	0.1	0.000106	90.1	80 - 120				
Arsenic	0.09531	0.00500	0.1	0.000167	95.1	80 - 120				
Barium	0.5863	0.00500	0.1	0.4937	92.5	80 - 120				O
Beryllium	0.09768	0.00200	0.1	0.000003	97.7	80 - 120				
Cadmium	0.09695	0.00200	0.1	0.00012	96.8	80 - 120				
Calcium	33.27	0.500	10	24.2	90.6	80 - 120				
Chromium	0.1131	0.00500	0.1	0.02175	91.4	80 - 120				
Cobalt	0.1116	0.00500	0.1	0.01869	92.9	80 - 120				
Copper	0.09121	0.00500	0.1	0.001373	89.8	80 - 120				
Iron	10.48	0.200	10	0.9238	95.5	80 - 120				
Lead	0.09266	0.00500	0.1	0.00001	92.6	80 - 120				
Magnesium	30.57	0.200	10	20.72	98.5	80 - 120				
Manganese	0.7461	0.00500	0.1	0.6707	75.4	80 - 120				SO
Nickel	1.422	0.00500	0.1	1.357	65.3	80 - 120				SO
Potassium	11.87	0.200	10	2.144	97.3	80 - 120				
Selenium	0.09544	0.00500	0.1	-0.000058	95.5	80 - 120				
Silver	0.09628	0.00500	0.1	0.00001	96.3	80 - 120				
Thallium	0.1037	0.00200	0.1	0.000636	103	80 - 120				
Vanadium	0.09273	0.00500	0.1	0.00013	92.6	80 - 120				
Zinc	0.09599	0.00500	0.1	0.00189	94.1	80 - 120				

PDS Sample ID: **HS23061712-08PDS** Units: **mg/L** Analysis Date: **07-Jul-2023 18:36**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407899** PrepDate: **06-Jul-2023** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	377.8	4.00	200	190.4	93.7	80 - 120				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: 197198 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS23061712-08SD** Units: **mg/L** Analysis Date: **07-Jul-2023 17:01**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407794** PrepDate: **06-Jul-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.01117	0.0500					0.005422	0	10	J
Antimony	0.00625	0.0250					0.000106	0	10	U
Arsenic	0.00625	0.0250					0.000167	0	10	U
Barium	0.4803	0.0250					0.4937	2.72	10	
Beryllium	0.00250	0.0100					0.000003	0	10	U
Cadmium	0.00250	0.0100					0.00012	0	10	U
Calcium	23.48	2.50					24.2	2.97	10	
Chromium	0.0213	0.0250					0.02175	0	10	J
Cobalt	0.01822	0.0250					0.01869	0	10	J
Copper	0.0125	0.0250					0.001373	0	10	U
Iron	0.9238	1.00					0.9238	0	10	J
Lead	0.00625	0.0250					0.00001	0	10	U
Magnesium	20.14	1.00					20.72	2.81	10	
Manganese	0.667	0.0250					0.6707	0.548	10	
Nickel	1.355	0.0250					1.357	0.0906	10	
Potassium	2.095	1.00					2.144	2.3	10	
Selenium	0.0125	0.0250					-0.000058	0	10	U
Silver	0.00250	0.0250					0.00001	0	10	U
Thallium	0.00250	0.0100					0.000636	0	10	U
Vanadium	0.00625	0.0250					0.00013	0	10	U
Zinc	0.0125	0.0250					0.00189	0	10	U

SD Sample ID: **HS23061712-08SD** Units: **mg/L** Analysis Date: **07-Jul-2023 18:34**
Client ID: Run ID: **ICPMS06_440735** SeqNo: **7407898** PrepDate: **06-Jul-2023** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Sodium	197.1	20.0					190.4	3.53	10	

The following samples were analyzed in this batch: HS23061707-01 HS23061707-02 HS23061707-03 HS23061707-05 HS23061707-09

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: 197746 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-197746** Units: **mg/L** Analysis Date: **19-Jul-2023 16:03**
Client ID: Run ID: **HG04_441752** SeqNo: **7438123** PrepDate: **19-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0000610	0.000200								J

LCS Sample ID: **LCS-197746** Units: **mg/L** Analysis Date: **19-Jul-2023 16:05**
Client ID: Run ID: **HG04_441752** SeqNo: **7438124** PrepDate: **19-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00452	0.000200	0.005	0	90.4	82 - 119				

MS Sample ID: **HS23061707-01MS** Units: **mg/L** Analysis Date: **19-Jul-2023 16:08**
Client ID: **18WW19_062323** Run ID: **HG04_441752** SeqNo: **7438126** PrepDate: **19-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00461	0.000200	0.005	0.00004200	91.4	82 - 119				

MSD Sample ID: **HS23061707-01MSD** Units: **mg/L** Analysis Date: **19-Jul-2023 16:12**
Client ID: **18WW19_062323** Run ID: **HG04_441752** SeqNo: **7438127** PrepDate: **19-Jul-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00445	0.000200	0.005	0.00004200	88.2	82 - 119	0.004610	3.53	20	

The following samples were analyzed in this batch: HS23061707-01 HS23061707-02 HS23061707-03 HS23061707-05 HS23061707-09

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: 196920 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-196920** Units: **ug/L** Analysis Date: **03-Jul-2023 12:13**
Client ID: Run ID: **SV-6_440441** SeqNo: **7398921** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0050	0.030								U
Surr: 2-Fluorobiphenyl	*0.08591*	*0*	*0.08*	*0*	*107*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09001*	*0*	*0.08*	*0*	*113*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.08388*	*0*	*0.08*	*0*	*105*	*40 - 140*				

MBLK Sample ID: **MBLK-196920** Units: **ug/L** Analysis Date: **05-Jul-2023 12:13**
Client ID: Run ID: **SV-6_440441** SeqNo: **7403351** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0050	0.030								U
Surr: 2-Fluorobiphenyl	*0.08781*	*0*	*0.08*	*0*	*110*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09818*	*0*	*0.08*	*0*	*123*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.08358*	*0*	*0.08*	*0*	*104*	*40 - 140*				

LCS Sample ID: **LCS-196920** Units: **ug/L** Analysis Date: **05-Jul-2023 12:31**
Client ID: Run ID: **SV-6_440441** SeqNo: **7403352** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07718	0.030	0.08	0	96.5	40 - 140				
Surr: 2-Fluorobiphenyl	*0.08221*	*0*	*0.08*	*0*	*103*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.0885*	*0*	*0.08*	*0*	*111*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.07565*	*0*	*0.08*	*0*	*94.6*	*40 - 140*				

LCS Sample ID: **LCS1-196920** Units: **ug/L** Analysis Date: **03-Jul-2023 12:31**
Client ID: Run ID: **SV-6_440441** SeqNo: **7398922** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07345	0.030	0.08	0	91.8	40 - 140				
Surr: 2-Fluorobiphenyl	*0.08991*	*0*	*0.08*	*0*	*112*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.09538*	*0*	*0.08*	*0*	*119*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.08818*	*0*	*0.08*	*0*	*110*	*40 - 140*				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: 196920 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

LCSD Sample ID: **LCSD-196920** Units: **ug/L** Analysis Date: **05-Jul-2023 12:49**
Client ID: Run ID: **SV-6_440441** SeqNo: **7403353** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07106	0.030	0.08	0	88.8	40 - 140	0.07345	3.32	20	
Surr: 2-Fluorobiphenyl	*0.08528*	*0*	*0.08*	*0*	*107*	*40 - 140*	*0.08991*	*5.28*	*20*	
Surr: 4-Terphenyl-d14	*0.08995*	*0*	*0.08*	*0*	*112*	*40 - 140*	*0.09538*	*5.86*	*20*	
Surr: Nitrobenzene-d5	*0.0753*	*0*	*0.08*	*0*	*94.1*	*40 - 140*	*0.08818*	*15.8*	*20*	

LCSD Sample ID: **LCSD1-196920** Units: **ug/L** Analysis Date: **03-Jul-2023 12:49**
Client ID: Run ID: **SV-6_440441** SeqNo: **7398923** PrepDate: **29-Jun-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.06948	0.030	0.08	0	86.9	40 - 140	0.07345	5.56	20	
Surr: 2-Fluorobiphenyl	*0.08694*	*0*	*0.08*	*0*	*109*	*40 - 140*	*0.08991*	*3.36*	*20*	
Surr: 4-Terphenyl-d14	*0.08969*	*0*	*0.08*	*0*	*112*	*40 - 140*	*0.09538*	*6.16*	*20*	
Surr: Nitrobenzene-d5	*0.08839*	*0*	*0.08*	*0*	*110*	*40 - 140*	*0.08818*	*0.236*	*20*	

The following samples were analyzed in this batch: HS23061707-03 HS23061707-04 HS23061707-05 HS23061707-06 HS23061707-07 HS23061707-10

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 14:39**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385759** 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	1.0	1.0								U
1,1,2,2-Tetrachloroethane	0.50	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	0.50	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	0.50	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	0.50	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	1.0	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	1.0	1.0								U
1,3-Dichloropropane	0.50	1.0								U
1,4-Dichlorobenzene	1.0	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	1.0	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	0.50	2.0								U
Acetone	1.0	2.0								U
Benzene	0.50	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	0.50	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	0.50	1.0								U
Bromomethane	1.0	1.0								U

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 14:39**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385759** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	0.50	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	0.50	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	0.50	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	0.50	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	0.50	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	0.50	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	0.50	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	0.50	1.0								U
n-Butylbenzene	0.50	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	0.50	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	0.50	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	0.50	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	0.50	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	0.50	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*46.2*	*1.0*	*50*	*0*	*92.4*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.71*	*1.0*	*50*	*0*	*97.4*	*85 - 114*				
Surr: Dibromofluoromethane	*47.26*	*1.0*	*50*	*0*	*94.5*	*80 - 119*				
Surr: Toluene-d8	*51.65*	*1.0*	*50*	*0*	*103*	*89 - 112*				

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 13:57**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385758** 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	19.93	1.0	20	0	99.6	78 - 124				
1,1,1-Trichloroethane	19.4	1.0	20	0	97.0	74 - 131				
1,1,2,2-Tetrachloroethane	18.21	1.0	20	0	91.0	71 - 121				
1,1,2-Trichloroethane	19.8	1.0	20	0	99.0	80 - 119				
1,1-Dichloroethane	19.05	1.0	20	0	95.3	77 - 125				
1,1-Dichloroethene	19.53	1.0	20	0	97.7	71 - 131				
1,1-Dichloropropene	20.11	1.0	20	0	101	78 - 125				
1,2,3-Trichlorobenzene	20.47	1.0	20	0	102	69 - 129				
1,2,3-Trichloropropane	18.95	1.0	20	0	94.7	73 - 122				
1,2,4-Trichlorobenzene	20.72	1.0	20	0	104	69 - 130				
1,2,4-Trimethylbenzene	20.3	1.0	20	0	101	76 - 124				
1,2-Dibromo-3-chloropropane	19.83	1.0	20	0	99.1	62 - 128				
1,2-Dibromoethane	20.19	1.0	20	0	101	77 - 121				
1,2-Dichlorobenzene	20.37	1.0	20	0	102	80 - 119				
1,2-Dichloroethane	20.46	1.0	20	0	102	73 - 128				
1,2-Dichloropropane	20.12	1.0	20	0	101	78 - 122				
1,3,5-Trimethylbenzene	20.08	1.0	20	0	100	75 - 124				
1,3-Dichlorobenzene	20.13	1.0	20	0	101	80 - 119				
1,3-Dichloropropane	19.76	1.0	20	0	98.8	80 - 119				
1,4-Dichlorobenzene	19.68	1.0	20	0	98.4	79 - 118				
2,2-Dichloropropane	20.81	1.0	20	0	104	60 - 139				
2-Butanone	36.07	2.0	40	0	90.2	56 - 143				
2-Chlorotoluene	19.56	1.0	20	0	97.8	79 - 122				
2-Hexanone	39.18	2.0	40	0	98.0	57 - 139				
4-Chlorotoluene	20.58	1.0	20	0	103	78 - 122				
4-Isopropyltoluene	20.31	1.0	20	0	102	77 - 127				
4-Methyl-2-pentanone	37.9	2.0	40	0	94.7	67 - 130				
Acetone	40.71	2.0	40	0	102	39 - 160				
Benzene	19.87	1.0	20	0	99.3	79 - 120				
Bromobenzene	20.5	1.0	20	0	103	80 - 120				
Bromochloromethane	19.29	1.0	20	0	96.5	78 - 123				
Bromodichloromethane	19.6	1.0	20	0	98.0	79 - 125				
Bromoform	20.23	1.0	20	0	101	66 - 130				
Bromomethane	20.93	1.0	20	0	105	53 - 141				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230626** Units: **ug/L** Analysis Date: **26-Jun-2023 13:57**
Client ID: Run ID: **VOA6_439909** SeqNo: **7385758** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	37.11	2.0	40	0	92.8	64 - 133				
Carbon tetrachloride	20.39	1.0	20	0	102	72 - 136				
Chlorobenzene	20.39	1.0	20	0	102	82 - 118				
Chloroethane	20.11	1.0	20	0	101	60 - 138				
Chloroform	18.87	1.0	20	0	94.3	79 - 124				
Chloromethane	20.56	1.0	20	0	103	50 - 139				
cis-1,2-Dichloroethene	19.3	1.0	20	0	96.5	78 - 123				
cis-1,3-Dichloropropene	20	1.0	20	0	100	75 - 124				
Dibromochloromethane	20.19	1.0	20	0	101	74 - 126				
Dibromomethane	20.37	1.0	20	0	102	79 - 123				
Dichlorodifluoromethane	18.13	1.0	20	0	90.6	32 - 152				
Ethylbenzene	20.24	1.0	20	0	101	79 - 121				
Hexachlorobutadiene	20.65	1.0	20	0	103	66 - 134				
Isopropylbenzene	20.21	1.0	20	0	101	72 - 131				
m,p-Xylene	42.18	2.0	40	0	105	80 - 121				
Methylene chloride	18.12	2.0	20	0	90.6	74 - 124				
Naphthalene	19.86	1.0	20	0	99.3	61 - 128				
n-Butylbenzene	20.57	1.0	20	0	103	75 - 128				
n-Propylbenzene	20.15	1.0	20	0	101	76 - 126				
o-Xylene	20.55	1.0	20	0	103	78 - 122				
sec-Butylbenzene	19.87	1.0	20	0	99.3	77 - 126				
Styrene	20.77	1.0	20	0	104	78 - 123				
tert-Butylbenzene	20.19	1.0	20	0	101	78 - 124				
Tetrachloroethene	20.85	1.0	20	0	104	74 - 129				
Toluene	20.38	1.0	20	0	102	80 - 121				
trans-1,2-Dichloroethene	19.25	1.0	20	0	96.2	75 - 124				
trans-1,3-Dichloropropene	20.27	1.0	20	0	101	73 - 127				
Trichloroethene	20.58	1.0	20	0	103	79 - 123				
Trichlorofluoromethane	20.45	1.0	20	0	102	65 - 141				
Vinyl chloride	18.71	1.0	20	0	93.5	58 - 137				
Surr: 1,2-Dichloroethane-d4	*50.44*	*1.0*	*50*	*0*	*101*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.41*	*1.0*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*50.44*	*1.0*	*50*	*0*	*101*	*80 - 119*				
Surr: Toluene-d8	*49.18*	*1.0*	*50*	*0*	*98.4*	*89 - 112*				

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061712-08MS** Units: **ug/L** Analysis Date: **26-Jun-2023 22:44**
Client ID: Run ID: **VOA6_439909** SeqNo: **7386286** PrepDate: DF: **200**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	4396	200	4000	0	110	78 - 124				
1,1,1-Trichloroethane	4047	200	4000	0	101	74 - 131				
1,1,2,2-Tetrachloroethane	4134	200	4000	0	103	71 - 121				
1,1,2-Trichloroethane	4225	200	4000	0	106	80 - 119				
1,1-Dichloroethane	3751	200	4000	0	93.8	77 - 125				
1,1-Dichloroethene	4102	200	4000	0	103	71 - 131				
1,1-Dichloropropene	4429	200	4000	0	111	78 - 125				
1,2,3-Trichlorobenzene	4721	200	4000	0	118	69 - 129				
1,2,3-Trichloropropane	4271	200	4000	0	107	73 - 122				
1,2,4-Trichlorobenzene	4805	200	4000	0	120	69 - 130				
1,2,4-Trimethylbenzene	4795	200	4000	0	120	76 - 124				
1,2-Dibromo-3-chloropropane	4354	200	4000	0	109	62 - 128				
1,2-Dibromoethane	4218	200	4000	0	105	77 - 121				
1,2-Dichlorobenzene	4657	200	4000	0	116	80 - 119				
1,2-Dichloroethane	4661	200	4000	671.3	99.7	73 - 128				
1,2-Dichloropropane	4069	200	4000	0	102	78 - 122				
1,3,5-Trimethylbenzene	4810	200	4000	0	120	75 - 124				
1,3-Dichlorobenzene	4691	200	4000	0	117	80 - 119				
1,3-Dichloropropane	4234	200	4000	0	106	80 - 119				
1,4-Dichlorobenzene	4573	200	4000	0	114	79 - 118				
2,2-Dichloropropane	3887	200	4000	0	97.2	60 - 139				
2-Butanone	6170	400	8000	0	77.1	56 - 143				
2-Chlorotoluene	4672	200	4000	0	117	79 - 122				
2-Hexanone	7769	400	8000	0	97.1	57 - 139				
4-Chlorotoluene	4666	200	4000	0	117	78 - 122				
4-Isopropyltoluene	5015	200	4000	0	125	77 - 127				
4-Methyl-2-pentanone	7903	400	8000	0	98.8	67 - 130				
Acetone	5906	400	8000	0	73.8	39 - 160				
Benzene	4183	200	4000	0	105	79 - 120				
Bromobenzene	4677	200	4000	0	117	80 - 120				
Bromochloromethane	3847	200	4000	0	96.2	78 - 123				
Bromodichloromethane	4030	200	4000	0	101	79 - 125				
Bromoform	4269	200	4000	0	107	66 - 130				
Bromomethane	4100	200	4000	0	103	53 - 141				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061712-08MS** Units: **ug/L** Analysis Date: **26-Jun-2023 22:44**
Client ID: Run ID: **VOA6_439909** SeqNo: **7386286** PrepDate: DF: **200**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	6965	400	8000	0	87.1	64 - 133				
Carbon tetrachloride	4562	200	4000	0	114	72 - 136				
Chlorobenzene	4567	200	4000	0	114	82 - 118				
Chloroethane	3955	200	4000	0	98.9	60 - 138				
Chloroform	3673	200	4000	0	91.8	79 - 124				
Chloromethane	3752	200	4000	0	93.8	50 - 139				
cis-1,2-Dichloroethene	12650	200	4000	9060	89.7	78 - 123				
cis-1,3-Dichloropropene	4003	200	4000	0	100	75 - 124				
Dibromochloromethane	4312	200	4000	0	108	74 - 126				
Dibromomethane	4083	200	4000	0	102	79 - 123				
Dichlorodifluoromethane	3311	200	4000	0	82.8	32 - 152				
Ethylbenzene	4682	200	4000	0	117	79 - 121				
Hexachlorobutadiene	5284	200	4000	0	132	66 - 134				
Isopropylbenzene	4835	200	4000	0	121	72 - 131				
m,p-Xylene	9697	400	8000	0	121	80 - 121				S
Methylene chloride	3658	400	4000	0	91.5	74 - 124				
Naphthalene	4481	200	4000	0	112	61 - 128				
n-Butylbenzene	5075	200	4000	0	127	75 - 128				
n-Propylbenzene	4977	200	4000	0	124	76 - 126				
o-Xylene	4609	200	4000	0	115	78 - 122				
sec-Butylbenzene	5058	200	4000	0	126	77 - 126				S
Styrene	4650	200	4000	0	116	78 - 123				
tert-Butylbenzene	5049	200	4000	0	126	78 - 124				S
Tetrachloroethene	4931	200	4000	0	123	74 - 129				
Toluene	4616	200	4000	0	115	80 - 121				
trans-1,2-Dichloroethene	3922	200	4000	0	98.1	75 - 124				
trans-1,3-Dichloropropene	3958	200	4000	0	99.0	73 - 127				
Trichloroethene	13470	200	4000	9392	102	79 - 123				
Trichlorofluoromethane	4313	200	4000	0	108	65 - 141				
Vinyl chloride	3797	200	4000	0	94.9	58 - 137				
Surr: 1,2-Dichloroethane-d4	*8821*	*200*	*10000*	*0*	*88.2*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*9699*	*200*	*10000*	*0*	*97.0*	*85 - 114*				
Surr: Dibromofluoromethane	*9300*	*200*	*10000*	*0*	*93.0*	*80 - 119*				
Surr: Toluene-d8	*10380*	*200*	*10000*	*0*	*104*	*89 - 112*				

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061707-01MS** Units: **ug/L** Analysis Date: **26-Jun-2023 16:04**
Client ID: **18WW19_062323** Run ID: **VOA6_439909** SeqNo: **7385763** 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	22.06	1.0	20	0	110	78 - 124				
1,1,1-Trichloroethane	20.81	1.0	20	0	104	74 - 131				
1,1,2,2-Tetrachloroethane	19.66	1.0	20	0	98.3	71 - 121				
1,1,2-Trichloroethane	21.1	1.0	20	0	105	80 - 119				
1,1-Dichloroethane	19.56	1.0	20	0	97.8	77 - 125				
1,1-Dichloroethene	21.49	1.0	20	0	107	71 - 131				
1,1-Dichloropropene	23.15	1.0	20	0	116	78 - 125				
1,2,3-Trichlorobenzene	22.35	1.0	20	0	112	69 - 129				
1,2,3-Trichloropropane	20.04	1.0	20	0	100	73 - 122				
1,2,4-Trichlorobenzene	23.41	1.0	20	0	117	69 - 130				
1,2,4-Trimethylbenzene	23.1	1.0	20	0	116	76 - 124				
1,2-Dibromo-3-chloropropane	21.18	1.0	20	0	106	62 - 128				
1,2-Dibromoethane	20.53	1.0	20	0	103	77 - 121				
1,2-Dichlorobenzene	22.54	1.0	20	0	113	80 - 119				
1,2-Dichloroethane	20.75	1.0	20	0	104	73 - 128				
1,2-Dichloropropane	20.85	1.0	20	0	104	78 - 122				
1,3,5-Trimethylbenzene	23.55	1.0	20	0	118	75 - 124				
1,3-Dichlorobenzene	22.89	1.0	20	0	114	80 - 119				
1,3-Dichloropropane	21.26	1.0	20	0	106	80 - 119				
1,4-Dichlorobenzene	22.47	1.0	20	0	112	79 - 118				
2,2-Dichloropropane	22.39	1.0	20	0	112	60 - 139				
2-Butanone	28.61	2.0	40	0	71.5	56 - 143				
2-Chlorotoluene	22.76	1.0	20	0	114	79 - 122				
2-Hexanone	37.15	2.0	40	0	92.9	57 - 139				
4-Chlorotoluene	23.2	1.0	20	0	116	78 - 122				
4-Isopropyltoluene	25.08	1.0	20	0	125	77 - 127				
4-Methyl-2-pentanone	37.93	2.0	40	0	94.8	67 - 130				
Acetone	30.14	2.0	40	0	75.4	39 - 160				
Benzene	21.75	1.0	20	0	109	79 - 120				
Bromobenzene	22.44	1.0	20	0	112	80 - 120				
Bromochloromethane	18.89	1.0	20	0	94.5	78 - 123				
Bromodichloromethane	20.81	1.0	20	0	104	79 - 125				
Bromoform	21.14	1.0	20	0	106	66 - 130				
Bromomethane	20.82	1.0	20	0	104	53 - 141				

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23061707-01MS** Units: **ug/L** Analysis Date: **26-Jun-2023 16:04**
Client ID: **18WW19_062323** Run ID: **VOA6_439909** SeqNo: **7385763** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	36.39	2.0	40	0	91.0	64 - 133				
Carbon tetrachloride	23.78	1.0	20	0	119	72 - 136				
Chlorobenzene	22.77	1.0	20	0	114	82 - 118				
Chloroethane	22.15	1.0	20	0	111	60 - 138				
Chloroform	18.94	1.0	20	0	94.7	79 - 124				
Chloromethane	19.49	1.0	20	0	97.5	50 - 139				
cis-1,2-Dichloroethene	19.78	1.0	20	0	98.9	78 - 123				
cis-1,3-Dichloropropene	20.98	1.0	20	0	105	75 - 124				
Dibromochloromethane	21.47	1.0	20	0	107	74 - 126				
Dibromomethane	21	1.0	20	0	105	79 - 123				
Dichlorodifluoromethane	18.2	1.0	20	0	91.0	32 - 152				
Ethylbenzene	23.59	1.0	20	0	118	79 - 121				
Hexachlorobutadiene	25.54	1.0	20	0	128	66 - 134				
Isopropylbenzene	24.29	1.0	20	0	121	72 - 131				
m,p-Xylene	48.89	2.0	40	0	122	80 - 121				S
Methylene chloride	18.34	2.0	20	0	91.7	74 - 124				
Naphthalene	20.82	1.0	20	0	104	61 - 128				
n-Butylbenzene	25.38	1.0	20	0	127	75 - 128				
n-Propylbenzene	24.27	1.0	20	0	121	76 - 126				
o-Xylene	23.13	1.0	20	0	116	78 - 122				
sec-Butylbenzene	24.77	1.0	20	0	124	77 - 126				
Styrene	23.2	1.0	20	0	116	78 - 123				
tert-Butylbenzene	24.48	1.0	20	0	122	78 - 124				
Tetrachloroethene	25.38	1.0	20	0	127	74 - 129				
Toluene	23.26	1.0	20	0	116	80 - 121				
trans-1,2-Dichloroethene	20.57	1.0	20	0	103	75 - 124				
trans-1,3-Dichloropropene	20.81	1.0	20	0	104	73 - 127				
Trichloroethene	22.59	1.0	20	0	113	79 - 123				
Trichlorofluoromethane	22.64	1.0	20	0	113	65 - 141				
Vinyl chloride	19.97	1.0	20	0	99.8	58 - 137				
Surr: 1,2-Dichloroethane-d4	*44.63*	*1.0*	*50*	*0*	*89.3*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.97*	*1.0*	*50*	*0*	*97.9*	*85 - 114*				
Surr: Dibromofluoromethane	*47.2*	*1.0*	*50*	*0*	*94.4*	*80 - 119*				
Surr: Toluene-d8	*51.39*	*1.0*	*50*	*0*	*103*	*89 - 112*				

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061712-08MSD** Units: **ug/L** Analysis Date: **26-Jun-2023 23:05**
Client ID: Run ID: **VOA6_439909** SeqNo: **7386287** PrepDate: DF: **200**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	4185	200	4000	0	105	78 - 124	4396	4.92	20	
1,1,1-Trichloroethane	3883	200	4000	0	97.1	74 - 131	4047	4.12	20	
1,1,2,2-Tetrachloroethane	3746	200	4000	0	93.6	71 - 121	4134	9.86	20	
1,1,2-Trichloroethane	3975	200	4000	0	99.4	80 - 119	4225	6.08	20	
1,1-Dichloroethane	3632	200	4000	0	90.8	77 - 125	3751	3.23	20	
1,1-Dichloroethene	3989	200	4000	0	99.7	71 - 131	4102	2.8	20	
1,1-Dichloropropene	4213	200	4000	0	105	78 - 125	4429	5	20	
1,2,3-Trichlorobenzene	4408	200	4000	0	110	69 - 129	4721	6.85	20	
1,2,3-Trichloropropane	3775	200	4000	0	94.4	73 - 122	4271	12.3	20	
1,2,4-Trichlorobenzene	4393	200	4000	0	110	69 - 130	4805	8.97	20	
1,2,4-Trimethylbenzene	4339	200	4000	0	108	76 - 124	4795	10	20	
1,2-Dibromo-3-chloropropane	3915	200	4000	0	97.9	62 - 128	4354	10.6	20	
1,2-Dibromoethane	4043	200	4000	0	101	77 - 121	4218	4.24	20	
1,2-Dichlorobenzene	4279	200	4000	0	107	80 - 119	4657	8.44	20	
1,2-Dichloroethane	4584	200	4000	671.3	97.8	73 - 128	4661	1.66	20	
1,2-Dichloropropane	4009	200	4000	0	100	78 - 122	4069	1.49	20	
1,3,5-Trimethylbenzene	4420	200	4000	0	110	75 - 124	4810	8.46	20	
1,3-Dichlorobenzene	4276	200	4000	0	107	80 - 119	4691	9.24	20	
1,3-Dichloropropane	4038	200	4000	0	101	80 - 119	4234	4.72	20	
1,4-Dichlorobenzene	4181	200	4000	0	105	79 - 118	4573	8.96	20	
2,2-Dichloropropane	3756	200	4000	0	93.9	60 - 139	3887	3.41	20	
2-Butanone	5693	400	8000	0	71.2	56 - 143	6170	8.05	20	
2-Chlorotoluene	4207	200	4000	0	105	79 - 122	4672	10.5	20	
2-Hexanone	7151	400	8000	0	89.4	57 - 139	7769	8.29	20	
4-Chlorotoluene	4324	200	4000	0	108	78 - 122	4666	7.62	20	
4-Isopropyltoluene	4557	200	4000	0	114	77 - 127	5015	9.56	20	
4-Methyl-2-pentanone	7320	400	8000	0	91.5	67 - 130	7903	7.66	20	
Acetone	6066	400	8000	0	75.8	39 - 160	5906	2.67	20	
Benzene	4102	200	4000	0	103	79 - 120	4183	1.97	20	
Bromobenzene	4318	200	4000	0	108	80 - 120	4677	7.97	20	
Bromochloromethane	3685	200	4000	0	92.1	78 - 123	3847	4.32	20	
Bromodichloromethane	3915	200	4000	0	97.9	79 - 125	4030	2.9	20	
Bromoform	4064	200	4000	0	102	66 - 130	4269	4.93	20	
Bromomethane	3658	200	4000	0	91.5	53 - 141	4100	11.4	20	

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061712-08MSD** Units: **ug/L** Analysis Date: **26-Jun-2023 23:05**
Client ID: Run ID: **VOA6_439909** SeqNo: **7386287** PrepDate: DF: **200**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	6739	400	8000	0	84.2	64 - 133	6965	3.31	20	
Carbon tetrachloride	4406	200	4000	0	110	72 - 136	4562	3.46	20	
Chlorobenzene	4285	200	4000	0	107	82 - 118	4567	6.37	20	
Chloroethane	3741	200	4000	0	93.5	60 - 138	3955	5.57	20	
Chloroform	3622	200	4000	0	90.5	79 - 124	3673	1.42	20	
Chloromethane	3688	200	4000	0	92.2	50 - 139	3752	1.73	20	
cis-1,2-Dichloroethene	12020	200	4000	9060	73.9	78 - 123	12650	5.12	20	S
cis-1,3-Dichloropropene	3914	200	4000	0	97.9	75 - 124	4003	2.24	20	
Dibromochloromethane	4098	200	4000	0	102	74 - 126	4312	5.08	20	
Dibromomethane	4076	200	4000	0	102	79 - 123	4083	0.179	20	
Dichlorodifluoromethane	3175	200	4000	0	79.4	32 - 152	3311	4.2	20	
Ethylbenzene	4393	200	4000	0	110	79 - 121	4682	6.37	20	
Hexachlorobutadiene	4732	200	4000	0	118	66 - 134	5284	11	20	
Isopropylbenzene	4550	200	4000	0	114	72 - 131	4835	6.07	20	
m,p-Xylene	8974	400	8000	0	112	80 - 121	9697	7.74	20	
Methylene chloride	3557	400	4000	0	88.9	74 - 124	3658	2.8	20	
Naphthalene	4103	200	4000	0	103	61 - 128	4481	8.8	20	
n-Butylbenzene	4555	200	4000	0	114	75 - 128	5075	10.8	20	
n-Propylbenzene	4459	200	4000	0	111	76 - 126	4977	11	20	
o-Xylene	4296	200	4000	0	107	78 - 122	4609	7.03	20	
sec-Butylbenzene	4560	200	4000	0	114	77 - 126	5058	10.4	20	
Styrene	4324	200	4000	0	108	78 - 123	4650	7.27	20	
tert-Butylbenzene	4537	200	4000	0	113	78 - 124	5049	10.7	20	
Tetrachloroethene	4617	200	4000	0	115	74 - 129	4931	6.57	20	
Toluene	4273	200	4000	0	107	80 - 121	4616	7.73	20	
trans-1,2-Dichloroethene	3854	200	4000	0	96.4	75 - 124	3922	1.74	20	
trans-1,3-Dichloropropene	3839	200	4000	0	96.0	73 - 127	3958	3.05	20	
Trichloroethene	12870	200	4000	9392	86.9	79 - 123	13470	4.54	20	
Trichlorofluoromethane	4101	200	4000	0	103	65 - 141	4313	5.04	20	
Vinyl chloride	3583	200	4000	0	89.6	58 - 137	3797	5.8	20	
Surr: 1,2-Dichloroethane-d4	*8922*	*200*	*10000*	*0*	*89.2*	*81 - 118*	*8821*	*1.14*	*20*	
Surr: 4-Bromofluorobenzene	*9701*	*200*	*10000*	*0*	*97.0*	*85 - 114*	*9699*	*0.0243*	*20*	
Surr: Dibromofluoromethane	*9370*	*200*	*10000*	*0*	*93.7*	*80 - 119*	*9300*	*0.744*	*20*	
Surr: Toluene-d8	*10140*	*200*	*10000*	*0*	*101*	*89 - 112*	*10380*	*2.3*	*20*	

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061707-01MSD** Units: **ug/L** Analysis Date: **26-Jun-2023 16:25**
Client ID: **18WW19_062323** Run ID: **VOA6_439909** SeqNo: **7385764** 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	21.25	1.0	20	0	106	78 - 124	22.06	3.76	20	
1,1,1-Trichloroethane	19.75	1.0	20	0	98.7	74 - 131	20.81	5.24	20	
1,1,2,2-Tetrachloroethane	20.44	1.0	20	0	102	71 - 121	19.66	3.92	20	
1,1,2-Trichloroethane	21	1.0	20	0	105	80 - 119	21.1	0.484	20	
1,1-Dichloroethane	18.53	1.0	20	0	92.7	77 - 125	19.56	5.41	20	
1,1-Dichloroethene	19.9	1.0	20	0	99.5	71 - 131	21.49	7.69	20	
1,1-Dichloropropene	21.77	1.0	20	0	109	78 - 125	23.15	6.12	20	
1,2,3-Trichlorobenzene	23.55	1.0	20	0	118	69 - 129	22.35	5.2	20	
1,2,3-Trichloropropane	20.43	1.0	20	0	102	73 - 122	20.04	1.95	20	
1,2,4-Trichlorobenzene	23.81	1.0	20	0	119	69 - 130	23.41	1.73	20	
1,2,4-Trimethylbenzene	23.2	1.0	20	0	116	76 - 124	23.1	0.416	20	
1,2-Dibromo-3-chloropropane	20.87	1.0	20	0	104	62 - 128	21.18	1.46	20	
1,2-Dibromoethane	20.76	1.0	20	0	104	77 - 121	20.53	1.12	20	
1,2-Dichlorobenzene	22.69	1.0	20	0	113	80 - 119	22.54	0.631	20	
1,2-Dichloroethane	20.85	1.0	20	0	104	73 - 128	20.75	0.459	20	
1,2-Dichloropropane	20.43	1.0	20	0	102	78 - 122	20.85	2.03	20	
1,3,5-Trimethylbenzene	23.66	1.0	20	0	118	75 - 124	23.55	0.452	20	
1,3-Dichlorobenzene	23.1	1.0	20	0	115	80 - 119	22.89	0.904	20	
1,3-Dichloropropane	21.2	1.0	20	0	106	80 - 119	21.26	0.245	20	
1,4-Dichlorobenzene	22.49	1.0	20	0	112	79 - 118	22.47	0.0855	20	
2,2-Dichloropropane	20.87	1.0	20	0	104	60 - 139	22.39	7.02	20	
2-Butanone	27.74	2.0	40	0	69.3	56 - 143	28.61	3.08	20	
2-Chlorotoluene	22.7	1.0	20	0	114	79 - 122	22.76	0.258	20	
2-Hexanone	38.83	2.0	40	0	97.1	57 - 139	37.15	4.41	20	
4-Chlorotoluene	23.44	1.0	20	0	117	78 - 122	23.2	1.02	20	
4-Isopropyltoluene	25.03	1.0	20	0	125	77 - 127	25.08	0.183	20	
4-Methyl-2-pentanone	39	2.0	40	0	97.5	67 - 130	37.93	2.78	20	
Acetone	28.64	2.0	40	0	71.6	39 - 160	30.14	5.12	20	
Benzene	20.52	1.0	20	0	103	79 - 120	21.75	5.84	20	
Bromobenzene	22.49	1.0	20	0	112	80 - 120	22.44	0.224	20	
Bromochloromethane	18.77	1.0	20	0	93.8	78 - 123	18.89	0.669	20	
Bromodichloromethane	19.85	1.0	20	0	99.2	79 - 125	20.81	4.74	20	
Bromoform	20.95	1.0	20	0	105	66 - 130	21.14	0.921	20	
Bromomethane	20.17	1.0	20	0	101	53 - 141	20.82	3.2	20	

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23061707-01MSD** Units: **ug/L** Analysis Date: **26-Jun-2023 16:25**
Client ID: **18WW19_062323** Run ID: **VOA6_439909** SeqNo: **7385764** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	33.81	2.0	40	0	84.5	64 - 133	36.39	7.37	20	
Carbon tetrachloride	22.16	1.0	20	0	111	72 - 136	23.78	7.02	20	
Chlorobenzene	22.17	1.0	20	0	111	82 - 118	22.77	2.67	20	
Chloroethane	19.48	1.0	20	0	97.4	60 - 138	22.15	12.8	20	
Chloroform	18.41	1.0	20	0	92.0	79 - 124	18.94	2.86	20	
Chloromethane	18.6	1.0	20	0	93.0	50 - 139	19.49	4.71	20	
cis-1,2-Dichloroethene	19.23	1.0	20	0	96.2	78 - 123	19.78	2.83	20	
cis-1,3-Dichloropropene	20.37	1.0	20	0	102	75 - 124	20.98	2.96	20	
Dibromochloromethane	21.18	1.0	20	0	106	74 - 126	21.47	1.33	20	
Dibromomethane	20.51	1.0	20	0	103	79 - 123	21	2.37	20	
Dichlorodifluoromethane	16.42	1.0	20	0	82.1	32 - 152	18.2	10.3	20	
Ethylbenzene	22.84	1.0	20	0	114	79 - 121	23.59	3.22	20	
Hexachlorobutadiene	25.95	1.0	20	0	130	66 - 134	25.54	1.6	20	
Isopropylbenzene	23.51	1.0	20	0	118	72 - 131	24.29	3.27	20	
m,p-Xylene	46.9	2.0	40	0	117	80 - 121	48.89	4.16	20	
Methylene chloride	17.84	2.0	20	0	89.2	74 - 124	18.34	2.73	20	
Naphthalene	22.06	1.0	20	0	110	61 - 128	20.82	5.81	20	
n-Butylbenzene	25.8	1.0	20	0	129	75 - 128	25.38	1.61	20	S
n-Propylbenzene	24.13	1.0	20	0	121	76 - 126	24.27	0.572	20	
o-Xylene	22.34	1.0	20	0	112	78 - 122	23.13	3.49	20	
sec-Butylbenzene	24.8	1.0	20	0	124	77 - 126	24.77	0.0965	20	
Styrene	22.61	1.0	20	0	113	78 - 123	23.2	2.6	20	
tert-Butylbenzene	24.37	1.0	20	0	122	78 - 124	24.48	0.469	20	
Tetrachloroethene	24.14	1.0	20	0	121	74 - 129	25.38	5.01	20	
Toluene	22.53	1.0	20	0	113	80 - 121	23.26	3.16	20	
trans-1,2-Dichloroethene	19.02	1.0	20	0	95.1	75 - 124	20.57	7.81	20	
trans-1,3-Dichloropropene	20	1.0	20	0	100	73 - 127	20.81	3.95	20	
Trichloroethene	21.56	1.0	20	0	108	79 - 123	22.59	4.69	20	
Trichlorofluoromethane	20.97	1.0	20	0	105	65 - 141	22.64	7.65	20	
Vinyl chloride	18.6	1.0	20	0	93.0	58 - 137	19.97	7.06	20	
Surr: 1,2-Dichloroethane-d4	*45.18*	*1.0*	*50*	*0*	*90.4*	*81 - 118*	*44.63*	*1.21*	*20*	
Surr: 4-Bromofluorobenzene	*49.11*	*1.0*	*50*	*0*	*98.2*	*85 - 114*	*48.97*	*0.299*	*20*	
Surr: Dibromofluoromethane	*46.8*	*1.0*	*50*	*0*	*93.6*	*80 - 119*	*47.2*	*0.853*	*20*	
Surr: Toluene-d8	*51.65*	*1.0*	*50*	*0*	*103*	*89 - 112*	*51.39*	*0.512*	*20*	

Revision: 1

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

QC BATCH REPORT

Batch ID: R439909 (0)	Instrument: VOA6	Method: VOLATILES ORGANICS BY METHOD 8260C

The following samples were analyzed in this batch:

HS23061707-01	HS23061707-02	HS23061707-03	HS23061707-04
HS23061707-06	HS23061707-07	HS23061707-08	HS23061707-09
HS23061707-10	HS23061707-11		

ALS Houston, US Date: 21-Jul-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: **HS23061707**

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 21-Jul-23

Sample Receipt Checklist

Work Order ID: HS23061707 **Date/Time Received:** 24-Jun-2023 09:05

Client Name: Bhate Environmental **Received by:** Corey Grandits

Completed By: /S/ Malcolm Burleson (eSignature) 26-Jun-2023 11:45 (Date/Time) **Reviewed by:** /S/ James Guin (eSignature) 27-Jun-2023 14:49 (Date/Time)

Matrices: GW 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):	1.0UC 0.9C	IR31
Cooler(s)/Kit(s):	51329	
Date/Time sample(s) sent to storage:	06262023	

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:

bhate
ENVIRONMENTAL ASSOCIATES, INC.

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page: ____ of ____

Project/Phase No: JVPCIBH.0001

COC Number(1): ____

LIMS Number: ____

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Character Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1, 4 - DIOXANE						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
18MW19_062323	23 Jun 2023	0655	-	N		WG	5	X	X	X										
18MW19_062323_a	23 Jun 2023	0655	-	FD		WG	5	X	X	X										
18MW20_062323	23 Jun 2023	0740	-	N		WG	6	X	X	X	X									
18MW08_062323	23 Jun 2023	0830		N		WG	5	X	X		X									
18MW09_062323	23 Jun 2023	0915		N		WG	3		X	X	X									
18CPTMW15_062323	23 Jun 2023	1000	-	N		WG	5	X	X		X									
18CPTMW15_062323_a	23 Jun 2023	1000	-	FD		WG	5	X	X		X									
MW18_062323	23 Jun 2023	1100	-	N		WG	4	X	X											
MW19_062323	23 Jun 2023	1145	-	N		WG	5	X	X	X										
18CPTMW26SW_062323	23 Jun 2023	1230	-	N		WG	5	X	X		X									
TRIP BLANK	23 Jun 2023		-	TB		W	2	X												

Sample Analysis Requested [5] | Quality Assurance Samples [6]

HS23061707

Bhate Environmental Associates, Inc.
LHAAP Site18/24

COMMENTS: 4°C

STANDARD TAT 1.0° IR#1 Cooler 9 13.2g CF=0.1

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received By (signed)	Date	Time
Scott Beesinger	6/23/23	1330	1.	6.24.23	0800
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped ____ No.:

Method of Shipment: ____

Fed ____ Ex ____ Airbill ____ Number:

Analytical Lab: ALS 10450 Stancliff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dane Wacasey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

51329

CUSTODY SEAL

Date: 2/23/23 Time: 1330
Name: Scott Blessing
Company: BHATE

Seal Broken By: SM
Date: 06/24/23

51329 JUN 24 2023



June 30, 2023 Service Request No:E2300611

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

Laboratory Results for: HS23061707

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory June 26, 2023
For your reference, these analyses have been assigned our service request number **E2300611.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300611
Project:	HS23061707	**Date Received:**	06/26/23
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 II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Ten samples were received for analysis at ALS Environmental in Houston on 06/26/23.

The samples were 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:

EQ2300312: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to 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:**E2300611
Project: HS23061707

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300611-001	18WW19_062323	6/23/2023	0655
E2300611-002	18WW19_062323_a	6/23/2023	0655
E2300611-003	18WW20_062323	6/23/2023	0740
E2300611-004	18WW08_062323	6/23/2023	0830
E2300611-005	18WW09_062323	6/23/2023	0915
E2300611-006	18PTW15_062323	6/23/2023	1000
E2300611-007	18PTW15_062323_a	6/23/2023	1000
E2300611-008	MW18_062323	6/23/2023	1100
E2300611-009	MW19_062323	6/23/2023	1145
E2300611-010	18CPTMW26SW_062323	6/23/2023	1230

Service Request Summary

Folder #: **E2300611**
Client Name: ALS Environmental - US
Project Name: HS23061707
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/26/23
Internal Due Date: 7/11/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061707
EDD: No EDD Specified

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300611-001	18WW19_062323	Water	06/23/23 0655	**IV**
E2300611-002	18WW19_062323_a	Water	06/23/23 0655	**IV**
E2300611-003	18WW20_062323	Water	06/23/23 0740	**IV**
E2300611-004	18WW08_062323	Water	06/23/23 0830	**IV**
E2300611-005	18WW09_062323	Water	06/23/23 0915	**IV**
E2300611-006	18PTW15_062323	Water	06/23/23 1000	**IV**
E2300611-007	18PTW15_062323_a	Water	06/23/23 1000	**IV**
E2300611-008	MW18_062323	Water	06/23/23 1100	**IV**
E2300611-009	MW19_062323	Water	06/23/23 1145	**IV**
E2300611-010	18CPTMW26SW_062323	Water	06/23/23 1230	**IV**

Service Request Summary

Folder #: **E2300611**
Client Name: ALS Environmental - US
Project Name: HS23061707
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 06/26/23
Internal Due Date: 7/11/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23061707
EDD: No EDD Specified

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
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

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Department of Defense	L22-90	3/31/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

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

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: Texas **COC ID:** 22151

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@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:	HS23061707
TSR:	Holly Tignac

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23061707-01**	**18WW19_062323**	**Water**	**23 Jun 2023 06:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
2.	**HS23061707-02**	**18WW19_062323_a**	**Water**	**23 Jun 2023 06:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
3.	**HS23061707-03**	**18WW20_062323**	**Water**	**23 Jun 2023 07:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
4.	**HS23061707-04**	**18WW08_062323**	**Water**	**23 Jun 2023 08:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
5.	**HS23061707-05**	**18WW09_062323**	**Water**	**23 Jun 2023 09:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
6.	**HS23061707-06**	**18PTW15_062323**	**Water**	**23 Jun 2023 10:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
7.	**HS23061707-07**	**18PTW15_062323_a**	**Water**	**23 Jun 2023 10:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
8.	**HS23061707-08**	**MW18_062323**	**Water**	**23 Jun 2023 11:00**

RIGHT SOLUTIONS | RIGHT PARTNER

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 22151

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
9.	**HS23061707-09**	**MW19_062323**	**Water**	**23 Jun 2023 11:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023
10.	**HS23061707-10**	**18CPTMW26SW_062323**	**Water**	**23 Jun 2023 12:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			11 Jul 2023

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: NR Date/Time:

Received By: CG Date/Time: 6-26-23 1910

Cooler ID(s): Temperature(s):

ALS Environmental

Cooler Receipt Form

Project Chemist JG

Client/Project ALS

Thermometer ID 1R21

Date/Time Received: 6.26.23 Initials: CG Date/Time Logged in: 6.26.23 Initials CG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☒ Courier (ALS) ○ Client

2. Samples received in: ☒ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☒ No
   Were they intact? ○ Yes ○ No ☒ N/A
   Were they signed and dated? ○ Yes ○ No ☒ N/A
   If yes, how many and where?

4. Packing Material: ○ Inserts ☒ Baggies ○ Bubble Wrap ○ Gel Packs ☒ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		6.26.23	1910	CG	1.7	☒
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☒ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☒ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☒ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ☒ Yes ○ No
10. Did sample labels and tags agree with custody documents? ☒ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

HS-HRMSCoolerReceipt R1.0

ALS Environmental - Houston HRMS

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

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#: 422186 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/27/23 08:35

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300606-001	AAR3332	.02	6850/ClO4 DOD			Ground Water	10mL	
2	E2300606-008	AAR3348	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2300610-001	1824DPTMW05_062223	.01	6850/ClO4 DOD			Water	10mL	
4	E2300610-002	18CPTMW105W_062223	.01	6850/ClO4 DOD			Water	10mL	
5	E2300610-003	18CPTMW108W_062223	.01	6850/ClO4 DOD			Water	10mL	
6	E2300610-004	18CPTMW108Wa_062223	.01	6850/ClO4 DOD			Water	10mL	
7	E2300610-005	18CPTMW015W_062223	.01	6850/ClO4 DOD			Water	10mL	
8	E2300610-006	18CPTMW01DW_062223	.01	6850/ClO4 DOD			Water	10mL	
9	E2300610-007	MW2_062223	.01	6850/ClO4 DOD			Water	10mL	
10	E2300610-008	MW1_062223	.02	6850/ClO4 DOD			Water	10mL	
11	E2300611-001	18WW19_062323	.01	6850/ClO4 DOD			Water	10mL	
12	E2300611-002	18WW19_062323_a	.01	6850/ClO4 DOD			Water	10mL	
13	E2300611-003	18WW20_062323	.01	6850/ClO4 DOD			Water	10mL	
14	E2300611-004	18WW08_062323	.01	6850/ClO4 DOD			Water	10mL	
15	E2300611-005	18WW09_062323	.01	6850/ClO4 DOD			Water	10mL	
16	E2300611-006	18PTW15_062323	.01	6850/ClO4 DOD			Water	10mL	
17	E2300611-007	18PTW15_062323_a	.01	6850/ClO4 DOD			Water	10mL	
18	E2300611-008	MW18_062323	.01	6850/ClO4 DOD			Water	10mL	
19	E2300611-009	MW19_062323	.01	6850/ClO4 DOD			Water	10mL	
20	E2300611-010	18CPTMW26SW_062323	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2300312-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2300312-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2300312-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2300312-04	AAR3332 MS	.02	6850/ClO4 DOD			Liquid	10mL	
25	EQ2300312-05	AAR3332 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
26	EQ2300312-06	AAR3348 MS	.02	6850/ClO4 DOD			Liquid	10mL	
27	EQ2300312-07	AAR3348 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
28	EQ2300312-08	MW1_062223 MS	.02	6850/ClO4 DOD			Liquid	10mL	
29	EQ2300312-09	MW1_062223 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300312-02 1.00µL EQ2300312-03 1.00µL EQ2300312-04 1.00µL EQ2300312-05 1.00µL EQ2300312-06 1.00µL EQ2300312-07 1.00µL
EQ2300312-08 1.00µL EQ2300312-09 1.00µL

Preparation Information Benchsheet

Prep Run#: 422186 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 6/27/23 08:35

Name:	Perchlorate Internal Standard 1ug/mL	Inventory ID	227244	Logbook Ref:	Perchlorate Internal Standard	Expires On:	07/31/2023

E2300606-001	100.00µL	E2300606-008	100.00µL	E2300610-001	100.00µL	E2300610-002	100.00µL	E2300610-003	100.00µL	E2300610-004	100.00µL
E2300610-005	100.00µL	E2300610-006	100.00µL	E2300610-007	100.00µL	E2300610-008	100.00µL	E2300611-001	100.00µL	E2300611-002	100.00µL
E2300611-003	100.00µL	E2300611-004	100.00µL	E2300611-005	100.00µL	E2300611-006	100.00µL	E2300611-007	100.00µL	E2300611-008	100.00µL
E2300611-009	100.00µL	E2300611-010	100.00µL	EQ2300312-01	100.00µL	EQ2300312-02	100.00µL	EQ2300312-03	100.00µL	EQ2300312-04	100.00µL
EQ2300312-05	100.00µL	EQ2300312-06	100.00µL	EQ2300312-07	100.00µL	EQ2300312-08	100.00µL	EQ2300312-09	100.00µL		

Preparation Steps

Step: Preparation
Started: 6/27/23 08:35
Finished: 6/27/23 16:02
By: XMI
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 0655
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18WW19_062323	**Units:**	µg/L
Lab Code:	E2300611-001	**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	6/27/23	6/29/23 16:59	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 0655
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18WW19_062323_a	**Units:**	µg/L
Lab Code:	E2300611-002	**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	ND	U	0.100	0.0500	0.0250	1	6/27/23	6/29/23 17:05	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 0740
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18WW20_062323	**Units:**	µg/L
Lab Code:	E2300611-003	**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	6/27/23	6/29/23 17:10	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 0830
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18WW08_062323	**Units:**	µg/L
Lab Code:	E2300611-004	**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	**7450**		100	50.0	25.0	1000	6/27/23	6/30/23 08:54	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 0915
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18WW09_062323	**Units:**	µg/L
Lab Code:	E2300611-005	**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	6/27/23	6/29/23 17:27	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 1000
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18PTW15_062323	**Units:**	µg/L
Lab Code:	E2300611-006	**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	**51.9**		0.200	0.100	0.0500	2	6/27/23	6/30/23 08:59	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 1000
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18PTW15_062323_a	**Units:**	µg/L
Lab Code:	E2300611-007	**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	**54.7**		0.200	0.100	0.0500	2	6/27/23	6/30/23 09:06	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 1100
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW18_062323	**Units:**	µg/L
Lab Code:	E2300611-008	**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	6/27/23	6/29/23 17:43	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 1145
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	MW19_062323	**Units:**	µg/L
Lab Code:	E2300611-009	**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	6/27/23	6/29/23 17:49	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	6/23/23 1230
Sample Matrix:	Water	**Date Received:**	6/26/23
Sample Name:	18CPTMW26SW_062323	**Units:**	µg/L
Lab Code:	E2300611-010	**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	6/27/23	6/29/23 17:55	422186	809329	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300312-01	**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	6/27/23	6/29/23 14:22	422186	809329	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Analyzed:**	6/30/23 - 6/30/23
Sample Matrix:	Water		

Lab Control Sample Summary

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

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	422186

	Lab Control Sample EQ2300312-02			Duplicate Lab Control Sample EQ2300312-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0868	0.100	87	0.0893	0.100	89	84 - 119	3	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:**	E2300611
Project:	HS23061707	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300312-02	**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	**0.0868**	J	0.100	0.0500	0.0250	1	6/27/23	6/30/23 09:12	422186	809342	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300611
Project:	HS23061707	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300312-03	**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	**0.0893**	J	0.100	0.0500	0.0250	1	6/27/23	6/29/23 14:33	422186	809329	

HS23061707-MSVOA-SW8260

ALS WO# HS23061707

01200407

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-01 **18WW19_062323**

Collected	Received	Matrix	Basis
06/23/23 06:55	06/24/23 09:05	Groundwater	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	06/26/23 15:00	VOA6_439909	X062608.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 15:00	VOA6_439909	X062608.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 15:00	VOA6_439909	X062608.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-01 | **Collected** | **Received** | **Matrix** | **Basis**

18WW19_062323 | 06/23/23 06:55 | 06/24/23 09:05 | Groundwater | 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	06/26/23 15:00	VOA6_439909	X062608.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 15:00	VOA6_439909	X062608.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-02

18WW19_062323_a

Collected	Received	Matrix	Basis
06/23/23 06:55	06/24/23 09:05	Groundwater	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	06/26/23 17:49	VOA6_439909	X062616.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 17:49	VOA6_439909	X062616.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 17:49	VOA6_439909	X062616.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-02

18WW19_062323_a

Collected	Received	Matrix	Basis
06/23/23 06:55	06/24/23 09:05	Groundwater	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	06/26/23 17:49	VOA6_439909	X062616.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:49	VOA6_439909	X062616.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-03 | **Collected** | **Received** | **Matrix** | **Basis**

18WW20_062323 | 06/23/23 07:40 | 06/24/23 09:05 | Groundwater | 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	06/26/23 18:10	VOA6_439909	X062617.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:10	VOA6_439909	X062617.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 18:10	VOA6_439909	X062617.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-03

18WW20_062323

Collected	Received	Matrix	Basis
06/23/23 07:40	06/24/23 09:05	Groundwater	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	06/26/23 18:10	VOA6_439909	X062617.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:10	VOA6_439909	X062617.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-04 | **18WW08_062323**

Collected	Received	Matrix	Basis
06/23/23 08:30	06/24/23 09:05	Groundwater	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	06/26/23 18:31	VOA6_439909	X062618.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:31	VOA6_439909	X062618.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 18:31	VOA6_439909	X062618.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-04 | **Collected** | **Received** | **Matrix** | **Basis**

18WW08_062323 | 06/23/23 08:30 | 06/24/23 09:05 | Groundwater | 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	06/26/23 18:31	VOA6_439909	X062618.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
cis-1,2-Dichloroethene	ug/L	1.9		0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Trichloroethene	ug/L	6.2		0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D
Vinyl chloride	ug/L	1.0		0.20	1.0	1.0	1	06/26/23 18:31	VOA6_439909	X062618.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-06

18CPTMW15_062323

Collected	Received	Matrix	Basis
06/23/23 10:00	06/24/23 09:05	Groundwater	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	06/26/23 18:52	VOA6_439909	X062619.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:52	VOA6_439909	X062619.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 18:52	VOA6_439909	X062619.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-06

18CPTMW15_062323

Collected	Received	Matrix	Basis
06/23/23 10:00	06/24/23 09:05	Groundwater	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	06/26/23 18:52	VOA6_439909	X062619.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
cis-1,2-Dichloroethene	ug/L	0.83	J	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Trichloroethene	ug/L	7.3		0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 18:52	VOA6_439909	X062619.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-07

18CPTMW15_062323_a

Collected	Received	Matrix	Basis
06/23/23 10:00	06/24/23 09:05	Groundwater	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	06/26/23 19:13	VOA6_439909	X062620.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 19:13	VOA6_439909	X062620.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 19:13	VOA6_439909	X062620.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-07

18CPTMW15_062323_a

Collected	Received	Matrix	Basis
06/23/23 10:00	06/24/23 09:05	Groundwater	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	06/26/23 19:13	VOA6_439909	X062620.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
cis-1,2-Dichloroethene	ug/L	0.89	J	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Trichloroethene	ug/L	7.3		0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:13	VOA6_439909	X062620.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-08

MW18_062323

Collected	Received	Matrix	Basis
06/23/23 11:00	06/24/23 09:05	Groundwater	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	06/26/23 19:34	VOA6_439909	X062621.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 19:34	VOA6_439909	X062621.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 19:34	VOA6_439909	X062621.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-08

MW18_062323

Collected	Received	Matrix	Basis
06/23/23 11:00	06/24/23 09:05	Groundwater	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	06/26/23 19:34	VOA6_439909	X062621.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Trichloroethene	ug/L	4.6		0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:34	VOA6_439909	X062621.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-09

MW19_062323

Collected	Received	Matrix	Basis
06/23/23 11:45	06/24/23 09:05	Groundwater	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	06/26/23 19:55	VOA6_439909	X062622.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,2-Dichloroethane	ug/L	0.57	J	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 19:55	VOA6_439909	X062622.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 19:55	VOA6_439909	X062622.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-09

MW19_062323

Collected	Received	Matrix	Basis
06/23/23 11:45	06/24/23 09:05	Groundwater	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	06/26/23 19:55	VOA6_439909	X062622.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
cis-1,2-Dichloroethene	ug/L	4.4		0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Trichloroethene	ug/L	2.5		0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 19:55	VOA6_439909	X062622.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-10

18CPTMW26SW_062323

Collected	Received	Matrix	Basis
06/23/23 12:30	06/24/23 09:05	Groundwater	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	06/26/23 20:16	VOA6_439909	X062623.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 20:16	VOA6_439909	X062623.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 20:16	VOA6_439909	X062623.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-10

18CPTMW26SW_062323

Collected	Received	Matrix	Basis
06/23/23 12:30	06/24/23 09:05	Groundwater	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	06/26/23 20:16	VOA6_439909	X062623.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 20:16	VOA6_439909	X062623.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-11

Trip Blank

Collected	Received	Matrix	Basis
06/23/23 00:00	06/24/23 09:05	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	06/26/23 17:07	VOA6_439909	X062614.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 17:07	VOA6_439909	X062614.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 17:07	VOA6_439909	X062614.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

HS23061707-11

Trip Blank

Collected	Received	Matrix	Basis
06/23/23 00:00	06/24/23 09:05	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	06/26/23 17:07	VOA6_439909	X062614.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 17:07	VOA6_439909	X062614.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

VBLKW-230626	Collected	Received	Matrix	Basis
VBLKW-230626	NA	NA	Aqueous	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	06/26/23 14:39	VOA6_439909	X062607.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

VBLKW-230626	Collected	Received	Matrix	Basis
VBLKW-230626	NA	NA	Aqueous	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	06/26/23 14:39	VOA6_439909	X062607.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/26/23 14:39	VOA6_439909	X062607.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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: LHAAP Site18/24

Workorder: HS23061707

RunID: VOA6-439909

Volatiles by EPA 8260

CCB-CCB	Analyzed	Conc Units	Dilution
CCB	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46.1	50	92.2		80-120
4-Bromofluorobenzene	47.69	50	95.4		80-120
Dibromofluoromethane	47.41	50	94.8		80-120
Toluene-d8	51.73	50	103		80-120

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	49.91	50	99.8		80-120
4-Bromofluorobenzene	50.59	50	101		80-120
Dibromofluoromethane	50.9	50	102		80-120
Toluene-d8	48.11	50	96.2		80-120

HS23061707-01	Analyzed	Conc Units	Dilution
18WW19_062323	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46	50	92.1		81-118
4-Bromofluorobenzene	48	50	96.3		85-114
Dibromofluoromethane	48	50	95.6		80-119
Toluene-d8	52	50	104		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6-439909

Volatiles by EPA 8260

HS23061707-01MS	Analyzed	Conc Units	Dilution
18WW19_062323	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	44.63	50	89.3		81-118
4-Bromofluorobenzene	48.97	50	97.9		85-114
Dibromofluoromethane	47.2	50	94.4		80-119
Toluene-d8	51.39	50	103		89-112

HS23061707-01MSD	Analyzed	Conc Units	Dilution
18WW19_062323	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	45.18	50	90.4		81-118
4-Bromofluorobenzene	49.11	50	98.2		85-114
Dibromofluoromethane	46.8	50	93.6		80-119
Toluene-d8	51.65	50	103		89-112

HS23061707-02	Analyzed	Conc Units	Dilution
18WW19_062323_a	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	45	50	90.5		81-118
4-Bromofluorobenzene	47	50	93.9		85-114
Dibromofluoromethane	47	50	93.5		80-119
Toluene-d8	52	50	104		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061707

RunID: VOA6-439909

Volatiles by EPA 8260

HS23061707-03	Analyzed	Conc Units	Dilution
18WW20_062323	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46	50	92.4		81-118
4-Bromofluorobenzene	47	50	94.1		85-114
Dibromofluoromethane	47	50	94.4		80-119
Toluene-d8	52	50	104		89-112

HS23061707-04	Analyzed	Conc Units	Dilution
18WW08_062323	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46	50	91.7		81-118
4-Bromofluorobenzene	48	50	96.9		85-114
Dibromofluoromethane	48	50	95.4		80-119
Toluene-d8	53	50	105		89-112

HS23061707-06	Analyzed	Conc Units	Dilution
18CPTMW15_062323	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46	50	92.0		81-118
4-Bromofluorobenzene	49	50	97.1		85-114
Dibromofluoromethane	47	50	94.7		80-119
Toluene-d8	53	50	106		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6-439909

Volatiles by EPA 8260

HS23061707-07	Analyzed	Conc Units	Dilution
18CPTMW15_062323_a	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46	50	91.4		81-118
4-Bromofluorobenzene	48	50	95.8		85-114
Dibromofluoromethane	47	50	95.0		80-119
Toluene-d8	51	50	102		89-112

HS23061707-08	Analyzed	Conc Units	Dilution
MW18_062323	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46	50	92.4		81-118
4-Bromofluorobenzene	47	50	94.0		85-114
Dibromofluoromethane	48	50	95.9		80-119
Toluene-d8	53	50	106		89-112

HS23061707-09	Analyzed	Conc Units	Dilution
MW19_062323	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	47	50	93.2		81-118
4-Bromofluorobenzene	48	50	95.3		85-114
Dibromofluoromethane	48	50	95.7		80-119
Toluene-d8	52	50	104		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6-439909

Volatiles by EPA 8260

HS23061707-10	Analyzed	Conc Units	Dilution
18CPTMW26SW_062323	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46	50	92.8		81-118
4-Bromofluorobenzene	48	50	95.4		85-114
Dibromofluoromethane	48	50	96.1		80-119
Toluene-d8	53	50	105		89-112

HS23061707-11	Analyzed	Conc Units	Dilution
Trip Blank	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	47	50	93.2		81-118
4-Bromofluorobenzene	47	50	94.6		85-114
Dibromofluoromethane	48	50	96.5		80-119
Toluene-d8	52	50	104		89-112

HS23061712-08MS	Analyzed	Conc Units	Dilution
BatchQC	06/26/23	%REC	200

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	8821	10000	88.2		81-118
4-Bromofluorobenzene	9699	10000	97.0		85-114
Dibromofluoromethane	9300	10000	93.0		80-119
Toluene-d8	10380	10000	104		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061707

RunID: VOA6-439909

Volatiles by EPA 8260

HS23061712-08MSD	Analyzed	Conc Units	Dilution
BatchQC	06/26/23	%REC	200

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	8922	10000	89.2		81-118
4-Bromofluorobenzene	9701	10000	97.0		85-114
Dibromofluoromethane	9370	10000	93.7		80-119
Toluene-d8	10140	10000	101		89-112

VBLKW-230626	Analyzed	Conc Units	Dilution
VBLKW-230626	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	46.2	50	92.4		81-118
4-Bromofluorobenzene	48.71	50	97.4		85-114
Dibromofluoromethane	47.26	50	94.5		80-119
Toluene-d8	51.65	50	103		89-112

VLCSW-230626	Analyzed	Conc Units	Dilution
VLCSW-230626	06/26/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.44	50	101		81-118
4-Bromofluorobenzene	50.41	50	101		85-114
Dibromofluoromethane	50.44	50	101		80-119
Toluene-d8	49.18	50	98.4		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 LHAAP Site18/24

Workorder **HS23061707**

RunID VOA6-439909

Volatiles by EPA 8260

18WW19_062323 (HS23061707-01)				HS23061707-01MS				HS23061707-01MSD						
Sample Matrix: Aqueous			Run Date	06/26/23				06/26/23						
Result Units: ug/L			Run Time	16:04				16:25						
			Data File	X062611.D				X062612.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	22.06	20	110		21.25	20	106		20	3.76	
1,1,1-Trichloroethane	74-131	1	0	20.81	20	104		19.75	20	99		20	5.24	
1,1,2,2-Tetrachloroethane	71-121	1	0	19.66	20	98		20.44	20	102		20	3.92	
1,1,2-Trichloroethane	80-119	1	0	21.1	20	105		21	20	105		20	0.484	
1,1-Dichloroethane	77-125	1	0	19.56	20	98		18.53	20	93		20	5.41	
1,1-Dichloroethene	71-131	1	0	21.49	20	107		19.9	20	100		20	7.69	
1,1-Dichloropropene	78-125	1	0	23.15	20	116		21.77	20	109		20	6.12	
1,2,3-Trichlorobenzene	69-129	1	0	22.35	20	112		23.55	20	118		20	5.2	
1,2,3-Trichloropropane	73-122	1	0	20.04	20	100		20.43	20	102		20	1.95	
1,2,4-Trichlorobenzene	69-130	1	0	23.41	20	117		23.81	20	119		20	1.73	
1,2,4-Trimethylbenzene	76-124	1	0	23.1	20	116		23.2	20	116		20	0.416	
1,2-Dibromo-3-chloropropane	62-128	1	0	21.18	20	106		20.87	20	104		20	1.46	
1,2-Dibromoethane	77-121	1	0	20.53	20	103		20.76	20	104		20	1.12	
1,2-Dichlorobenzene	80-119	1	0	22.54	20	113		22.69	20	113		20	0.631	
1,2-Dichloroethane	73-128	1	0	20.75	20	104		20.85	20	104		20	0.459	
1,2-Dichloropropane	78-122	1	0	20.85	20	104		20.43	20	102		20	2.03	
1,3,5-Trimethylbenzene	75-124	1	0	23.55	20	118		23.66	20	118		20	0.452	
1,3-Dichlorobenzene	80-119	1	0	22.89	20	114		23.1	20	115		20	0.904	
1,3-Dichloropropane	80-119	1	0	21.26	20	106		21.2	20	106		20	0.245	
1,4-Dichlorobenzene	79-118	1	0	22.47	20	112		22.49	20	112		20	0.0855	
2,2-Dichloropropane	60-139	1	0	22.39	20	112		20.87	20	104		20	7.02	
2-Butanone	56-143	1	0	28.61	40	72		27.74	40	69		20	3.08	
2-Chlorotoluene	79-122	1	0	22.76	20	114		22.7	20	114		20	0.258	
2-Hexanone	57-139	1	0	37.15	40	93		38.83	40	97		20	4.41	
4-Chlorotoluene	78-122	1	0	23.2	20	116		23.44	20	117		20	1.02	
4-Isopropyltoluene	77-127	1	0	25.08	20	125		25.03	20	125		20	0.183	
4-Methyl-2-pentanone	67-130	1	0	37.93	40	95		39	40	98		20	2.78	
Acetone	39-160	1	0	30.14	40	75		28.64	40	72		20	5.12	
Benzene	79-120	1	0	21.75	20	109		20.52	20	103		20	5.84	
Bromobenzene	80-120	1	0	22.44	20	112		22.49	20	112		20	0.224	
Bromochloromethane	78-123	1	0	18.89	20	94		18.77	20	94		20	0.669	
Bromodichloromethane	79-125	1	0	20.81	20	104		19.85	20	99		20	4.74	
Bromoform	66-130	1	0	21.14	20	106		20.95	20	105		20	0.921	
Bromomethane	53-141	1	0	20.82	20	104		20.17	20	101		20	3.2	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

RunID VOA6-439909

Volatiles by EPA 8260

18WW19_062323 (HS23061707-01)				HS23061707-01MS				HS23061707-01MSD						
Sample Matrix: Aqueous			Run Date	06/26/23				06/26/23						
Result Units: ug/L			Run Time	16:04				16:25						
			Data File	X062611.D				X062612.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	36.39	40	91		33.81	40	84		20	7.37	
Carbon tetrachloride	72-136	1	0	23.78	20	119		22.16	20	111		20	7.02	
Chlorobenzene	82-118	1	0	22.77	20	114		22.17	20	111		20	2.67	
Chloroethane	60-138	1	0	22.15	20	111		19.48	20	97		20	12.8	
Chloroform	79-124	1	0	18.94	20	95		18.41	20	92		20	2.86	
Chloromethane	50-139	1	0	19.49	20	98		18.6	20	93		20	4.71	
cis-1,2-Dichloroethene	78-123	1	0	19.78	20	99		19.23	20	96		20	2.83	
cis-1,3-Dichloropropene	75-124	1	0	20.98	20	105		20.37	20	102		20	2.96	
Dibromochloromethane	74-126	1	0	21.47	20	107		21.18	20	106		20	1.33	
Dibromomethane	79-123	1	0	21	20	105		20.51	20	103		20	2.37	
Dichlorodifluoromethane	32-152	1	0	18.2	20	91		16.42	20	82		20	10.3	
Ethylbenzene	79-121	1	0	23.59	20	118		22.84	20	114		20	3.22	
Hexachlorobutadiene	66-134	1	0	25.54	20	128		25.95	20	130		20	1.6	
Isopropylbenzene	72-131	1	0	24.29	20	121		23.51	20	118		20	3.27	
m,p-Xylene	80-121	1	0	48.89	40	122		46.9	40	117		20	4.16	
Methylene chloride	74-124	1	0	18.34	20	92		17.84	20	89		20	2.73	
Naphthalene	61-128	1	0	20.82	20	104		22.06	20	110		20	5.81	
n-Butylbenzene	75-128	1	0	25.38	20	127		25.8	20	129		20	1.61	
n-Propylbenzene	76-126	1	0	24.27	20	121		24.13	20	121		20	0.572	
o-Xylene	78-122	1	0	23.13	20	116		22.34	20	112		20	3.49	
sec-Butylbenzene	77-126	1	0	24.77	20	124		24.8	20	124		20	0.0965	
Styrene	78-123	1	0	23.2	20	116		22.61	20	113		20	2.6	
tert-Butylbenzene	78-124	1	0	24.48	20	122		24.37	20	122		20	0.469	
Tetrachloroethene	74-129	1	0	25.38	20	127		24.14	20	121		20	5.01	
Toluene	80-121	1	0	23.26	20	116		22.53	20	113		20	3.16	
trans-1,2-Dichloroethene	75-124	1	0	20.57	20	103		19.02	20	95		20	7.81	
trans-1,3-Dichloropropene	73-127	1	0	20.81	20	104		20	20	100		20	3.95	
Trichloroethene	79-123	1	0	22.59	20	113		21.56	20	108		20	4.69	
Trichlorofluoromethane	65-141	1	0	22.64	20	113		20.97	20	105		20	7.65	
Vinyl chloride	58-137	1	0	19.97	20	100		18.6	20	93		20	7.06	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061707

RunID: VOA6-439909

Volatiles by EPA 8260

BatchQC (HS23061712-08)				HS23061712-08MS				HS23061712-08MSD						
Sample Matrix: Aqueous			Run Date	06/26/23				06/26/23						
Result Units: ug/L			Run Time	22:44				23:05						
			Data File	X062630.D				X062631.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	200	0	4396	4000	110		4185	4000	105		20	4.92	
1,1,1-Trichloroethane	74-131	200	0	4047	4000	101		3883	4000	97		20	4.12	
1,1,2,2-Tetrachloroethane	71-121	200	0	4134	4000	103		3746	4000	94		20	9.86	
1,1,2-Trichloroethane	80-119	200	0	4225	4000	106		3975	4000	99		20	6.08	
1,1-Dichloroethane	77-125	200	0	3751	4000	94		3632	4000	91		20	3.23	
1,1-Dichloroethene	71-131	200	0	4102	4000	103		3989	4000	100		20	2.8	
1,1-Dichloropropene	78-125	200	0	4429	4000	111		4213	4000	105		20	5	
1,2,3-Trichlorobenzene	69-129	200	0	4721	4000	118		4408	4000	110		20	6.85	
1,2,3-Trichloropropane	73-122	200	0	4271	4000	107		3775	4000	94		20	12.3	
1,2,4-Trichlorobenzene	69-130	200	0	4805	4000	120		4393	4000	110		20	8.97	
1,2,4-Trimethylbenzene	76-124	200	0	4795	4000	120		4339	4000	108		20	10	
1,2-Dibromo-3-chloropropane	62-128	200	0	4354	4000	109		3915	4000	98		20	10.6	
1,2-Dibromoethane	77-121	200	0	4218	4000	105		4043	4000	101		20	4.24	
1,2-Dichlorobenzene	80-119	200	0	4657	4000	116		4279	4000	107		20	8.44	
1,2-Dichloroethane	73-128	200	671.3	4661	4000	100		4584	4000	98		20	1.66	
1,2-Dichloropropane	78-122	200	0	4069	4000	102		4009	4000	100		20	1.49	
1,3,5-Trimethylbenzene	75-124	200	0	4810	4000	120		4420	4000	110		20	8.46	
1,3-Dichlorobenzene	80-119	200	0	4691	4000	117		4276	4000	107		20	9.24	
1,3-Dichloropropane	80-119	200	0	4234	4000	106		4038	4000	101		20	4.72	
1,4-Dichlorobenzene	79-118	200	0	4573	4000	114		4181	4000	105		20	8.96	
2,2-Dichloropropane	60-139	200	0	3887	4000	97		3756	4000	94		20	3.41	
2-Butanone	56-143	200	0	6170	8000	77		5693	8000	71		20	8.05	
2-Chlorotoluene	79-122	200	0	4672	4000	117		4207	4000	105		20	10.5	
2-Hexanone	57-139	200	0	7769	8000	97		7151	8000	89		20	8.29	
4-Chlorotoluene	78-122	200	0	4666	4000	117		4324	4000	108		20	7.62	
4-Isopropyltoluene	77-127	200	0	5015	4000	125		4557	4000	114		20	9.56	
4-Methyl-2-pentanone	67-130	200	0	7903	8000	99		7320	8000	92		20	7.66	
Acetone	39-160	200	0	5906	8000	74		6066	8000	76		20	2.67	
Benzene	79-120	200	0	4183	4000	105		4102	4000	103		20	1.97	
Bromobenzene	80-120	200	0	4677	4000	117		4318	4000	108		20	7.97	
Bromochloromethane	78-123	200	0	3847	4000	96		3685	4000	92		20	4.32	
Bromodichloromethane	79-125	200	0	4030	4000	101		3915	4000	98		20	2.9	
Bromoform	66-130	200	0	4269	4000	107		4064	4000	102		20	4.93	
Bromomethane	53-141	200	0	4100	4000	103		3658	4000	92		20	11.4	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

RunID VOA6-439909

Volatiles by EPA 8260

BatchQC (HS23061712-08)				HS23061712-08MS				HS23061712-08MSD						
Sample Matrix: Aqueous			Run Date	06/26/23				06/26/23						
Result Units: ug/L			Run Time	22:44				23:05						
			Data File	X062630.D				X062631.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	200	0	6965	8000	87		6739	8000	84		20	3.31	
Carbon tetrachloride	72-136	200	0	4562	4000	114		4406	4000	110		20	3.46	
Chlorobenzene	82-118	200	0	4567	4000	114		4285	4000	107		20	6.37	
Chloroethane	60-138	200	0	3955	4000	99		3741	4000	94		20	5.57	
Chloroform	79-124	200	0	3673	4000	92		3622	4000	90		20	1.42	
Chloromethane	50-139	200	0	3752	4000	94		3688	4000	92		20	1.73	
cis-1,2-Dichloroethene	78-123	200	9060	12650	4000	90		12020	4000	74		20	5.12	
cis-1,3-Dichloropropene	75-124	200	0	4003	4000	100		3914	4000	98		20	2.24	
Dibromochloromethane	74-126	200	0	4312	4000	108		4098	4000	102		20	5.08	
Dibromomethane	79-123	200	0	4083	4000	102		4076	4000	102		20	0.179	
Dichlorodifluoromethane	32-152	200	0	3311	4000	83		3175	4000	79		20	4.2	
Ethylbenzene	79-121	200	0	4682	4000	117		4393	4000	110		20	6.37	
Hexachlorobutadiene	66-134	200	0	5284	4000	132		4732	4000	118		20	11	
Isopropylbenzene	72-131	200	0	4835	4000	121		4550	4000	114		20	6.07	
m,p-Xylene	80-121	200	0	9697	8000	121		8974	8000	112		20	7.74	
Methylene chloride	74-124	200	0	3658	4000	92		3557	4000	89		20	2.8	
Naphthalene	61-128	200	0	4481	4000	112		4103	4000	103		20	8.8	
n-Butylbenzene	75-128	200	0	5075	4000	127		4555	4000	114		20	10.8	
n-Propylbenzene	76-126	200	0	4977	4000	124		4459	4000	111		20	11	
o-Xylene	78-122	200	0	4609	4000	115		4296	4000	107		20	7.03	
sec-Butylbenzene	77-126	200	0	5058	4000	126		4560	4000	114		20	10.4	
Styrene	78-123	200	0	4650	4000	116		4324	4000	108		20	7.27	
tert-Butylbenzene	78-124	200	0	5049	4000	126		4537	4000	113		20	10.7	
Tetrachloroethene	74-129	200	0	4931	4000	123		4617	4000	115		20	6.57	
Toluene	80-121	200	0	4616	4000	115		4273	4000	107		20	7.73	
trans-1,2-Dichloroethene	75-124	200	0	3922	4000	98		3854	4000	96		20	1.74	
trans-1,3-Dichloropropene	73-127	200	0	3958	4000	99		3839	4000	96		20	3.05	
Trichloroethene	79-123	200	9392	13470	4000	102		12870	4000	87		20	4.54	
Trichlorofluoromethane	65-141	200	0	4313	4000	108		4101	4000	103		20	5.04	
Vinyl chloride	58-137	200	0	3797	4000	95		3583	4000	90		20	5.8	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

01200442

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right partner.

Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 LHAAP Site18/24

Workorder
HS23061707

SAMPLENUM
VLCSW-230626

Volatiles by EPA 8260

VOA6_439909			VLCSW-230626			
Spike Matrix	Aqueous		**Run Date**	06/26/23		
Result Units	ug/L		**Run Time**	13:57		
			Data File	X062605.D		
Analyte	**%Recovery Limits**	**Spike Added**	**LCS Result**	**%R**	**Q**	
1,1,1,2-Tetrachloroethane	78-124	20	19.93	100		
1,1,1-Trichloroethane	74-131	20	19.4	97		
1,1,2,2-Tetrachloroethane	71-121	20	18.21	91		
1,1,2-Trichloroethane	80-119	20	19.8	99		
1,1-Dichloroethane	77-125	20	19.05	95		
1,1-Dichloroethene	71-131	20	19.53	98		
1,1-Dichloropropene	78-125	20	20.11	101		
1,2,3-Trichlorobenzene	69-129	20	20.47	102		
1,2,3-Trichloropropane	73-122	20	18.95	95		
1,2,4-Trichlorobenzene	69-130	20	20.72	104		
1,2,4-Trimethylbenzene	76-124	20	20.3	101		
1,2-Dibromo-3-chloropropane	62-128	20	19.83	99		
1,2-Dibromoethane	77-121	20	20.19	101		
1,2-Dichlorobenzene	80-119	20	20.37	102		
1,2-Dichloroethane	73-128	20	20.46	102		
1,2-Dichloropropane	78-122	20	20.12	101		
1,3,5-Trimethylbenzene	75-124	20	20.08	100		
1,3-Dichlorobenzene	80-119	20	20.13	101		
1,3-Dichloropropane	80-119	20	19.76	99		
1,4-Dichlorobenzene	79-118	20	19.68	98		
2,2-Dichloropropane	60-139	20	20.81	104		
2-Butanone	56-143	40	36.07	90		
2-Chlorotoluene	79-122	20	19.56	98		
2-Hexanone	57-139	40	39.18	98		
4-Chlorotoluene	78-122	20	20.58	103		
4-Isopropyltoluene	77-127	20	20.31	102		
4-Methyl-2-pentanone	67-130	40	37.9	95		
Acetone	39-160	40	40.71	102		
Benzene	79-120	20	19.87	99		
Bromobenzene	80-120	20	20.5	103		
Bromochloromethane	78-123	20	19.29	96		
Bromodichloromethane	79-125	20	19.6	98		
Bromoform	66-130	20	20.23	101		
Bromomethane	53-141	20	20.93	105		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061707

SAMPLENUM
VLCSW-230626

Volatiles by EPA 8260

VOA6_439909			VLCSW-230626			
Spike Matrix	Aqueous		**Run Date**	06/26/23		
Result Units	ug/L		**Run Time**	13:57		
			Data File	X062605.D		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Carbon disulfide	64-133	40	37.11	93		
Carbon tetrachloride	72-136	20	20.39	102		
Chlorobenzene	82-118	20	20.39	102		
Chloroethane	60-138	20	20.11	101		
Chloroform	79-124	20	18.87	94		
Chloromethane	50-139	20	20.56	103		
cis-1,2-Dichloroethene	78-123	20	19.3	96		
cis-1,3-Dichloropropene	75-124	20	20	100		
Dibromochloromethane	74-126	20	20.19	101		
Dibromomethane	79-123	20	20.37	102		
Dichlorodifluoromethane	32-152	20	18.13	91		
Ethylbenzene	79-121	20	20.24	101		
Hexachlorobutadiene	66-134	20	20.65	103		
Isopropylbenzene	72-131	20	20.21	101		
m,p-Xylene	80-121	40	42.18	105		
Methylene chloride	74-124	20	18.12	91		
Naphthalene	61-128	20	19.86	99		
n-Butylbenzene	75-128	20	20.57	103		
n-Propylbenzene	76-126	20	20.15	101		
o-Xylene	78-122	20	20.55	103		
sec-Butylbenzene	77-126	20	19.87	99		
Styrene	78-123	20	20.77	104		
tert-Butylbenzene	78-124	20	20.19	101		
Tetrachloroethene	74-129	20	20.85	104		
Toluene	80-121	20	20.38	102		
trans-1,2-Dichloroethene	75-124	20	19.25	96		
trans-1,3-Dichloropropene	73-127	20	20.27	101		
Trichloroethene	79-123	20	20.58	103		
Trichlorofluoromethane	65-141	20	20.45	102		
Vinyl chloride	58-137	20	18.71	94		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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.

Project LHAAP Site18/24

Workorder
HS23061707

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230626	X062607.D	06/26/23 14:39	VOA6_439909
VLCSW-230626	LCS	VLCSW-230626	X062605.D	06/26/23 13:57	VOA6_439909
18WW19_062323	SAMP	HS23061707-01	X062608.D	06/26/23 15:00	VOA6_439909
18WW19_062323	MS	HS23061707-01MS	X062611.D	06/26/23 16:04	VOA6_439909
18WW19_062323	MSD	HS23061707-01MSD	X062612.D	06/26/23 16:25	VOA6_439909
Trip Blank	SAMP	HS23061707-11	X062614.D	06/26/23 17:07	VOA6_439909
18WW19_062323_a	SAMP	HS23061707-02	X062616.D	06/26/23 17:49	VOA6_439909
18WW20_062323	SAMP	HS23061707-03	X062617.D	06/26/23 18:10	VOA6_439909
18WW08_062323	SAMP	HS23061707-04	X062618.D	06/26/23 18:31	VOA6_439909
18CPTMW15_062323	SAMP	HS23061707-06	X062619.D	06/26/23 18:52	VOA6_439909
18CPTMW15_062323_a	SAMP	HS23061707-07	X062620.D	06/26/23 19:13	VOA6_439909
MW18_062323	SAMP	HS23061707-08	X062621.D	06/26/23 19:34	VOA6_439909
MW19_062323	SAMP	HS23061707-09	X062622.D	06/26/23 19:55	VOA6_439909
18CPTMW26SW_062323	SAMP	HS23061707-10	X062623.D	06/26/23 20:16	VOA6_439909
BatchQC	MS	HS23061712-08MS	X062630.D	06/26/23 22:44	VOA6_439909
BatchQC	MSD	HS23061712-08MSD	X062631.D	06/26/23 23:05	VOA6_439909

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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061707

RunID
VOA6-438076

Volatiles by EPA 8260

Tune File X061501.D 06/15/23 6/15/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.6 (18.6)
75	30.0 - 60.0% of mass 95	48.4 (48.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.1 (7.1)
173	Less than 2.0% of mass 174	0.6 (0.74) 1
174	50.0 - 120.0% of mass 95	78.8 (78.8)
175	4.0 - 9.0% of mass 174	6.3 (8.04) 1
176	93.0 - 101.0% of mass 174	78 (99.1) 1
177	5.0 - 9.0% of mass 176	5.8 (7.46) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD000.25	ICAL1	6/15/2023	X061502	VSTD000.25
2	VSTD000.5	ICAL2	6/15/2023	X061503	VSTD000.5
3	VSTD001	ICAL3	6/15/2023	X061504	VSTD001
4	VSTD002	ICAL4	6/15/2023	X061505	VSTD002
5	VSTD005	ICAL5	6/15/2023	X061506	VSTD005
6	VSTD020	ICAL6	6/15/2023	X061507	VSTD020
7	VSTD050	ICAL7	6/15/2023	X061508	VSTD050
8	VSTD100	ICAL8	6/15/2023	X061509	VSTD100
9	VSTD150	ICAL9	6/15/2023	X061510	VSTD150
10	VSTD200	ICAL	6/15/2023	X061511	VSTD200
11	CCV	ICV	6/15/2023	X061514	CCV

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061707**	

Volatiles by EPA 8260

RunID: VOA6-438076

Tune File	X061501.D	06/15/23 6/15/2023	This check applies to the following analyses

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

RunID **VOA6-439909**

Volatiles by EPA 8260

Tune File X062601.D 06/26/23 6/26/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	16.5 (16.5)
75	30.0 - 60.0% of mass 95	45.8 (45.8)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.7 (6.66)
173	Less than 2.0% of mass 174	1.1 (1.17) 1
174	50.0 - 120.0% of mass 95	90.5 (90.5)
175	4.0 - 9.0% of mass 174	5.5 (6.03) 1
176	93.0 - 101.0% of mass 174	89.5 (99) 1
177	5.0 - 9.0% of mass 176	5.9 (6.62) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	6/26/2023	X062603	CCV
2	CCB	CCB	6/26/2023	X062604	CCB
3	VLCSW-	LCS	6/26/2023	X062605	VLCSW-230626
4	VBLKW-	MBLK	6/26/2023	X062607	VBLKW-230626
5	HS23061707-	SAMP	6/26/2023	X062608	18WW19_062323
6	HS23061707-	MS	6/26/2023	X062611	HS23061707-01MS
7	HS23061707-	MSD	6/26/2023	X062612	HS23061707-01MSD
8	HS23061707-	SAMP	6/26/2023	X062614	Trip Blank
9	HS23061707-	SAMP	6/26/2023	X062616	18WW19_062323_a
10	HS23061707-	SAMP	6/26/2023	X062617	18WW20_062323
11	HS23061707-	SAMP	6/26/2023	X062618	18WW08_062323
12	HS23061707-	SAMP	6/26/2023	X062619	18CPTMW15_062323
13	HS23061707-	SAMP	6/26/2023	X062620	18CPTMW15_062323_a
14	HS23061707-	SAMP	6/26/2023	X062621	MW18_062323
15	HS23061707-	SAMP	6/26/2023	X062622	MW19_062323
16	HS23061707-	SAMP	6/26/2023	X062623	18CPTMW26SW_062323
17	HS23061712-	MS	6/26/2023	X062630	ZZZZZZMS
18	HS23061712-	MSD	6/26/2023	X062631	ZZZZZZMSD
19	CCV-END	CCV_EN	6/26/2023	X062632	CCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061707**	

Volatiles by EPA 8260

RunID: VOA6-439909

Tune File	X062601.D	06/26/23 6/26/2023	**This check applies to the following analyses**

01200452

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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

Volatiles by EPA 8260

RunID VOA6_438076

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	NE 197396	2615 431897	4505 640204	9827 870731	21019	86585	LINR	0.00663	0.43345		0.99964	
Chloromethane	NE 241131	3301 524590	5922 786709	11295 1090387	25651	97329	LINR	0.02054	0.53963		0.99929	
Propionitrile	NE 0.06176	0.05455 0.06051	0.06270 0.06246	0.05541 0.06236	0.06089	0.06358	AVRG		0.06047		5.37976	
Vinyl Chloride	NE 0.48769	0.60687 0.50556	0.54795 0.50115	0.57402 0.50335	0.48951	0.50986	AVRG		0.52511		7.94630	
Bromomethane	NE 0.27989	0.33537 0.29094	0.33175 0.29103	0.32542 0.28060	0.29769	0.28007	AVRG		0.30142		7.63157	
Chloroethane	NE 0.30426	0.37220 0.30884	0.33836 0.30484	0.32964 0.29773	0.31503	0.31792	AVRG		0.32098		7.20024	
Trichlorofluoromethane	NE 0.55345	0.70569 0.60431	0.65920 0.60479	0.69163 0.60887	0.58830	0.59980	AVRG		0.62401		8.07463	
Acrolein	NE 0.02794	0.03568 0.03158	0.02823 0.03279	0.02994 0.03252	0.03064	0.02991	AVRG		0.03103		7.82710	
Acetone	NE 120180	2789 254517	4663 376478	7818 532376	16276	54363	LINR	-0.00544	0.13002		0.99878	
1,1-Dichloroethene	NE 0.35517	0.45895 0.36783	0.44657 0.36468	0.41881 0.36713	0.37605	0.36786	AVRG		0.39145		10.02453	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 2 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Isobutyl Alcohol	NE 0.06440	0.05685 0.06398	0.06692 0.06447	0.06596 0.06514	0.07003	0.06902	AVRG		0.06519		5.78524	
Acetonitrile	NE 0.04861	0.04721 0.04885	0.04408 0.05012	0.05000 0.04863	0.05074	0.04825	AVRG		0.04850		4.07759	
Allyl Chloride	NE 1.08770	1.16902 1.08886	1.04930 1.11033	1.07830 1.08781	1.11392	1.08331	AVRG		1.09651		3.00701	
Iodomethane	NE 622671	2984 1361652	6227 1987305	14998 2762966	43988	223261	QUAD	0.04643	1.52252	-0.01414	0.99955	
Acrylonitrile	NE 0.15374	0.16498 0.15959	0.14851 0.16440	0.15637 0.16394	0.15489	0.16196	AVRG		0.15871		3.58694	
Methylene Chloride	NE 0.50432	0.65930 0.49542	0.67977 0.48937	0.52763 0.48228	0.60779	0.53053	AVRG		0.55293		13.75211	
Methyl tert-butyl ether	NE 1.31513	1.51541 1.29341	1.35429 1.32919	1.47005 1.30180	1.37915	1.33784	AVRG		1.36625		5.64492	
Carbon Disulfide	NE 1.27200	1.58729 1.32682	1.49094 1.37989	1.45947 1.39563	1.31193	1.32063	AVRG		1.39384		7.29728	
trans-1,2-Dichloroethene	NE 0.43392	0.54737 0.44333	0.51101 0.44594	0.49568 0.44153	0.44892	0.44795	AVRG		0.46841		8.48506	
Vinyl Acetate	NE 1.30590	1.14998 1.23968	1.31997 1.24313	1.13084 1.19252	1.30406	1.36566	AVRG		1.25019		6.44761	
1,1-Dichloroethane	NE 0.79188	0.96555 0.80903	0.89576 0.79801	0.89979 0.79485	0.81735	0.82215	AVRG		0.84382		7.28399	
Chloroprene	NE 0.14920	0.19494 0.16266	0.15806 0.15820	0.19402 0.16101	0.16299	0.15462	AVRG		0.16619		9.98603	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 3 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
2-Butanone	NE 0.16847	0.15780 0.17739	0.15585 0.17973	0.16329 0.18455	0.13672	0.15713	AVRG		0.16455		9.02144	
Methacrylonitrile	NE 0.41001	0.45084 0.39816	0.47260 0.40753	0.34475 0.40591	0.41093	0.41229	AVRG		0.41256		8.55015	
2,2-Dichloropropane	NE 313511	4078 661036	7438 998442	15188 1330788	33630	134641	LINR	-0.00010	0.66582		0.99984	
cis-1,2-Dichloroethene	NE 0.51032	0.63371 0.51263	0.59203 0.51321	0.54477 0.51241	0.52201	0.52031	AVRG		0.54016		8.10440	
Chloroform	NE 0.83554	1.06707 0.82576	1.04857 0.82364	1.00209 0.81356	0.89839	0.85930	AVRG		0.90821		11.31143	
Bromochloromethane	NE 0.26932	0.31540 0.26813	0.32241 0.27038	0.31702 0.26796	0.28759	0.27231	AVRG		0.28784		8.22049	
1,1,1-Trichloroethane	NE 0.65869	0.86069 0.69751	0.78052 0.70708	0.80161 0.71389	0.68231	0.70420	AVRG		0.73406		8.94326	
1,1-Dichloropropene	NE 0.38290	0.48495 0.40900	0.39369 0.41695	0.45740 0.41345	0.41202	0.40033	AVRG		0.41897		7.68787	
1,2-Dichloroethane	NE 0.40659	0.50041 0.40754	0.44494 0.41027	0.39189 0.38937	0.41620	0.41114	AVRG		0.41982		8.13871	
Carbon Tetrachloride	NE 0.35611	0.48305 0.38889	0.40420 0.39879	0.43692 0.39810	0.38136	0.37897	AVRG		0.40293		9.22126	
Benzene	NE 1.21772	1.43274 1.25333	1.39866 1.25530	1.32317 1.24146	1.21650	1.23632	AVRG		1.28613		6.24204	
Trichloroethene	NE 0.32967	0.38877 0.34715	0.35052 0.35260	0.38059 0.35386	0.34683	0.34151	AVRG		0.35461		5.25026	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	NE 0.42719	0.51371 0.43289	0.53585 0.43326	0.45737 0.42742	0.43564	0.43124	AVRG		0.45495		9.00412	
Methyl Methacrylate	NE 0.38805	0.41027 0.38979	0.40060 0.39545	0.33936 0.39592	0.36954	0.39466	AVRG		0.38707		5.41914	
2-Chloroethylvinyl ether	NE 0.12791	0.10601 0.12501	0.12371 0.12617	0.12156 0.12420	0.12156	0.13185	AVRG		0.12311		5.82358	
1,2-Dichloropropane	NE 0.32863	0.37996 0.33248	0.33362 0.32951	0.33899 0.32343	0.33720	0.33445	AVRG		0.33759		4.90636	
2-Nitropropane	NE 0.13379	0.15541 0.13164	0.12048 0.13757	0.12260 0.13758	0.13928	0.13451	AVRG		0.13476		7.53641	
Dibromomethane	NE 0.20336	0.21555 0.20193	0.23900 0.20257	0.22439 0.19834	0.21012	0.21202	AVRG		0.21192		6.13059	
4-Methyl-2-Pentanone	NE 0.32212	0.30760 0.31184	0.33367 0.30831	0.33070 0.31407	0.33715	0.34142	AVRG		0.32299		4.05223	
cis-1,3-Dichloropropene	NE 0.54967	0.61626 0.56034	0.56522 0.56241	0.54409 0.55560	0.54909	0.54586	AVRG		0.56095		3.93014	
Ethyl Methacrylate	NE 0.31215	0.36463 0.31567	0.39888 0.34496	0.38425 0.35543	0.38260	0.36686	AVRG		0.35838		8.34634	
Toluene	NE 1.40762	1.68448 1.42956	1.50279 1.42094	1.56276 1.40372	1.38239	1.41654	AVRG		1.46787		6.74844	
trans-1,3-Dichloropropene	NE 0.46653	0.47369 0.46660	0.51235 0.47587	0.44699 0.47465	0.44101	0.46631	AVRG		0.46933		4.30530	
2-Hexanone	NE 0.21970	0.17351 0.21503	0.21078 0.21508	0.22169 0.22116	0.22767	0.23709	AVRG		0.21575		8.17380	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

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Volatiles by EPA 8260

ICAL Summary Page 5 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,1,2-Trichloroethane	NE 0.27350	0.32535 0.26982	0.29705 0.26865	0.30791 0.26434	0.28978	0.27731	AVRG		0.28597		7.23925	
1,3-Dichloropropane	NE 0.56370	0.64851 0.55661	0.60816 0.54916	0.57702 0.54626	0.57725	0.57717	AVRG		0.57821		5.59903	
Dibromochloromethane	NE 0.39440	0.45130 0.39633	0.42505 0.39869	0.41073 0.39759	0.37918	0.39427	AVRG		0.40528		5.26412	
Tetrachloroethene	NE 0.26936	0.33320 0.29091	0.30082 0.30122	0.33399 0.30164	0.29936	0.28615	AVRG		0.30185		6.87487	
1,2-Dibromoethane	NE 0.34611	0.42541 0.34375	0.40286 0.34624	0.36309 0.34502	0.36325	0.35394	AVRG		0.36552		7.95769	
1-Chlorohexane	NE 0.27058	0.31891 0.29451	0.30742 0.30497	0.33602 0.30108	0.30509	0.29798	AVRG		0.30406		5.82966	
Chlorobenzene	NE 0.95733	1.16599 0.96191	1.05258 0.96797	1.02315 0.96078	0.98663	0.96310	AVRG		1.00438		6.86694	
1,1,1,2-Tetrachloroethane	NE 0.35354	0.41610 0.36178	0.40706 0.36400	0.38381 0.36679	0.36058	0.35698	AVRG		0.37452		6.08083	
Ethylbenzene	NE 0.48268	0.58074 0.49951	0.54181 0.51159	0.54627 0.50660	0.49714	0.49091	AVRG		0.51747		6.19763	
m,p-Xylenes	NE 0.61776	0.69775 0.63064	0.60842 0.64151	0.65267 0.63784	0.63943	0.61731	AVRG		0.63815		4.13336	
o-Xylene	NE 0.60231	0.68793 0.61488	0.67177 0.61904	0.68201 0.62117	0.62191	0.60992	AVRG		0.63677		5.28356	
Styrene	NE 1.03828	1.11203 1.04302	1.06411 1.05857	1.03374 1.05409	1.01012	1.02585	AVRG		1.04887		2.76930	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

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Volatiles by EPA 8260

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Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromoform	NE 0.27612	0.32157 0.27809	0.28167 0.28435	0.27167 0.28854	0.26654	0.27431	AVRG		0.28254		5.68771	
Isopropylbenzene	NE 1.45822	1.81086 1.52966	1.55188 1.58026	1.65791 1.57911	1.51756	1.47991	AVRG		1.57393		6.78027	
1,1,2,2-Tetrachloroethane	NE 0.80734	1.01343 0.78646	1.04169 0.78147	0.92927 0.78458	0.90463	0.86384	AVRG		0.87919		11.37969	
1,2,3-Trichloropropane	NE 0.58363	0.71376 0.57749	0.64247 0.56939	0.67579 0.57068	0.64682	0.69393	AVRG		0.63044		8.99664	
trans-1,4-Dichloro-2-butene	NE 0.12201	0.12188 0.12421	0.12097 0.12746	0.10883 0.12711	0.11805	0.12477	AVRG		0.12170		4.66453	
n-Propylbenzene	NE 3.06771	3.81139 3.17546	3.04596 3.24067	3.59078 3.23495	3.20535	3.24000	AVRG		3.29025		7.59470	
Bromobenzene	NE 0.76742	0.93832 0.77052	0.84056 0.78062	0.86168 0.78584	0.80430	0.78514	AVRG		0.81493		6.90326	
1,3,5-Trimethylbenzene	NE 2.24247	2.81070 2.33416	2.39182 2.36164	2.56909 2.35482	2.31883	2.34509	AVRG		2.41429		7.14055	
2-Chlorotoluene	NE 1.91381	2.37538 1.91814	2.31498 1.92712	2.30029 1.92088	2.10665	2.02743	AVRG		2.08941		9.20889	
4-Chlorotoluene	NE 2.20862	2.65754 2.23079	2.26290 2.24646	2.51579 2.24423	2.31216	2.29693	AVRG		2.33060		6.55345	
tert-Butylbenzene	NE 1.82457	2.31433 1.93069	1.96015 1.96746	2.20052 1.98619	1.96704	1.95151	AVRG		2.01139		7.45137	
1,2,4-Trimethylbenzene	NE 2.29724	2.82875 2.35208	2.45476 2.38166	2.51264 2.36035	2.34854	2.38641	AVRG		2.43582		6.58075	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

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Volatiles by EPA 8260

ICAL Summary Page 7 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
sec-Butylbenzene	NE 2.53422	3.32113 2.75963	2.78825 2.84355	3.00060 2.83927	2.74806	2.69627	AVRG		2.83678		7.77278	
p-Isopropyltoluene	NE 2.28631	2.76903 2.49189	2.31617 2.52839	2.63680 2.50601	2.40779	2.41022	AVRG		2.48362		6.13282	
1,3-Dichlorobenzene	NE 1.37542	1.65871 1.42022	1.45865 1.43696	1.47401 1.43277	1.39591	1.40674	AVRG		1.45104		5.76143	
1,4-Dichlorobenzene	NE 1.45636	1.76382 1.48340	1.68376 1.47244	1.67915 1.46629	1.47899	1.49407	AVRG		1.55314		7.70609	
Benzyl Chloride	NE 0.83370	0.91627 0.87954	0.80528 0.91703	0.71741 0.90236	0.66903	0.79217	AVRG		0.82587		10.76194	
n-Butylbenzene	NE 2.03494	2.22356 2.21681	1.73994 2.25668	2.12823 2.23717	2.08088	2.11969	AVRG		2.11532		7.57840	
1,2-Dichlorobenzene	NE 1.38424	1.64703 1.40787	1.40433 1.40761	1.51430 1.38773	1.39669	1.40798	AVRG		1.43975		6.03897	
1,2-Dibromo-3-Chloropropane	NE 57289	562 117282	1184 182534	2351 252682	5689	22086	LINR	0.00523	0.14424		0.99979	
1,2,4-Trichlorobenzene	NE 1.00852	1.03201 1.05151	0.95053 1.05450	0.92843 1.05037	0.93678	1.00122	AVRG		1.00154		5.09180	
Hexachlorobutadiene	NE 0.40176	0.45496 0.46265	0.43499 0.48062	0.47567 0.48593	0.43999	0.40952	AVRG		0.44956		6.74761	
Naphthalene	NE 2.30432	2.52164 2.32026	1.98002 2.30178	2.06297 2.29116	2.15195	2.35762	AVRG		2.25463		7.26973	
1,2,3-Trichlorobenzene	NE 0.91409	1.00600 0.94320	0.82982 0.94850	0.91549 0.93747	0.87650	0.92316	AVRG		0.92158		5.30458	

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Initial Calibration Data

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Project LHAAP Site18/24

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Volatiles by EPA 8260

ICAL Summary Page 8 / 12

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethyl Acetate	NE 0.48954	0.55715 0.45908	0.55803 0.45507	0.54813 0.45523	0.52955	0.53528	AVRG		0.50967		8.78368	
Methyl Acrylate	NE 0.42996	0.40444 0.42077	0.36366 0.43604	0.41022 0.42149	0.34054	0.41749	AVRG		0.40496		7.88415	
n-Butanol	NE 116028	934 246332	2023 401679	3179 566916	8163	42441	LINR	1.30216	0.01397		0.99668	
Ethyl Acrylate	NE 533003	4696 1125305	8042 1751972	14275 2344010	39998	144388	LINR	0.04728	1.18250		0.99891	
Cyclohexanone	NE 225144	2832 470281	5123 717000	11759 970775	24566	91911	LINR	-0.25984	0.02790		0.99996	
1,4-Dioxane	0.00564 0.00573	0.00561 0.00606	0.00675 0.00618	0.00622 0.00628	0.00612	0.00602	AVRG		0.00606		5.64821	
n-Hexane	NE 208750	2120 496122	4190 791040	10696 NE	23971	95375	QUAD	-0.00494	2.32300	-0.27911	0.99904	
Freon TF	NE 158688	2188 355059	3869 548562	8361 742502	18080	69934	QUAD	0.00021	2.93242	-0.16774	0.99957	
Methyl Acetate	NE 0.30048	0.31498 0.29215	0.31317 0.29784	0.26234 0.29548	0.27837	0.30868	AVRG		0.29595		5.72758	
Methylcyclohexane	NE 0.70648	0.63728 0.74078	0.62017 0.77029	0.69345 0.75370	0.69642	0.67070	AVRG		0.69881		7.28568	
Isopropyl alcohol	NE 0.02587	0.03027 0.02632	0.03392 0.02742	0.02884 0.02799	0.02722	0.02723	AVRG		0.02834		8.70660	
Amyl alcohol	NE 0.00950	0.00862 0.00970	0.00888 0.01042	0.00895 0.01061	0.00779	0.00937	AVRG		0.00932		9.45742	

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Volatiles by EPA 8260

ICAL Summary Page 9 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Allyl alcohol	NE 208750	2756 496122	4190 791040	11222 NE	23971	95375	QUAD	-0.12571	46.53375	-5.61944	0.99904	
4-Methyl-2-pentanol	NE 0.06843	0.08471 0.06853	0.09038 0.07488	0.09393 0.07669	0.08353	0.07453	AVRG		0.07951		11.48326	
Tert-butyl alcohol	NE 0.04721	0.05620 0.04618	0.06105 0.04794	0.05158 0.04957	0.05225	0.05012	AVRG		0.05134		9.20429	
Diethyl ether	NE 0.30172	0.33100 0.30182	0.32986 0.30795	0.32506 0.29912	0.31304	0.30966	AVRG		0.31325		3.96667	
1,3-Butadiene	NE 0.38320	0.46769 0.40906	0.43786 0.40982	0.43128 0.40837	0.37829	0.40359	AVRG		0.41435		6.69422	
Cyclohexane	NE 0.55762	0.71131 0.62652	0.61554 0.64990	0.70135 0.66862	0.60145	0.60394	AVRG		0.63736		7.85586	
Tetrahydrofuran	NE 0.07355	0.07531 0.07188	0.07084 0.07229	0.07374 0.07204	0.06939	0.07678	AVRG		0.07287		3.09331	
alpha-Methylstyrene	NE 1.14972	1.32267 1.18100	1.09879 1.20081	1.15655 1.20136	1.15284	1.18162	AVRG		1.18282		5.17506	
Diisopropyl ether	NE 1.44796	1.70619 1.43897	1.46103 1.45103	1.46501 1.40305	1.45974	1.43875	AVRG		1.47464		6.02123	
Dichlorofluoromethane	NE 0.67939	0.84072 0.69933	0.68197 0.70668	0.80782 0.68931	0.69537	0.66668	AVRG		0.71858		8.57276	
Propylene oxide	NE 0.03660	NE 0.03513	0.05463 NE	0.05586 NE	0.04243	0.04133	AVRG		0.04433		20.07401	*
3-Methyl-1-butanol	NE 125842	1270 266062	2518 427718	3850 594725	10033	52635	LINR	0.70832	0.00998		0.99878	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 10 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Butyl acrylate	NE 512904	1843 1042036	6899 1639896	19207 2199388	48821	203667	LINR	0.01097	0.74717		0.99973	
Butyl methacrylate	NE 0.88124	0.82471 0.81967	0.80995 0.82765	0.85924 0.78273	0.86805	0.89548	AVRG		0.84097		4.39110	
Dicyclopentadiene	NE 2.64890	3.29432 2.62708	2.78520 2.65197	2.95593 2.55993	2.95812	2.68736	AVRG		2.79653		8.37421	
1,2,3-Trimethylbenzene	NE 2.35164	2.43219 2.38718	2.33843 2.38987	2.47839 2.31737	2.37922	2.31576	AVRG		2.37667		2.25782	
Ethanol	NE 0.00428	0.00512 0.00425	0.00500 0.00428	0.00594 0.00411	0.00529	0.00474	AVRG		0.00478		12.83125	
tert-Butyl formate	NE 0.38030	0.39279 0.38170	0.45974 0.40182	0.42517 0.42845	0.42867	0.40731	AVRG		0.41177		6.32007	
3,3-Dimethyl-1-butanol	NE 0.03530	0.04577 0.03571	0.04419 0.03842	0.04692 0.03856	0.04271	0.04048	AVRG		0.04089		10.38248	
tert-Amyl methyl ether	NE 1.52534	1.82207 1.52372	1.65634 1.59018	1.67414 1.51346	1.59982	1.52885	AVRG		1.60377		6.30893	
tert-Butyl ethyl ether	NE 1.46020	1.80647 1.45186	1.57123 1.48722	1.56716 1.45836	1.46858	1.46510	AVRG		1.52624		7.51749	
tert-Amyl alcohol	NE 0.03803	0.04668 0.03817	0.04597 0.04018	0.04251 0.04285	0.04287	0.04073	AVRG		0.04200		7.27701	
Epichlorohydrin	NE 0.02666	0.03720 0.02704	0.03387 0.02777	0.03155 0.02772	0.02794	0.02942	AVRG		0.02991		12.04819	
Isoprene	NE 0.11147	0.16436 0.11863	0.19825 0.11449	0.16986 0.11423	0.11813	0.11521	AVRG		0.13607		23.83892	*

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 11 / 12

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
n-Amyl acetate	NE 0.63723	0.72007 0.63944	0.73131 0.65455	0.63610 0.65751	0.66393	0.68601	AVRG		0.66957		5.30890	
Isopropyl acetate	NE 0.84694	0.96664 0.83507	0.81115 0.84519	0.82457 0.83945	0.90675	0.89568	AVRG		0.86349		5.76082	
n-Butyl acetate	NE 0.54986	0.46933 0.53460	0.51599 0.54978	0.51302 0.55812	0.55855	0.57035	AVRG		0.53551		5.88026	
Acetaldehyde	NE 50952	NE 103450	NE 152553	4310 210164	6656	20285	LINR	-0.06894	0.02587		0.99963	*
Methyl Amyl Ketone	NE 0.74062	0.65724 0.75253	0.65081 0.77485	0.73145 0.78295	0.75722	0.77834	AVRG		0.73622		6.74574	
Dimethyl Disulfide	NE 0.76213	0.81112 0.75348	0.66792 0.77596	0.70809 0.75246	0.72312	0.71935	AVRG		0.74151		5.65803	
Isobutylene	NE 0.04599	0.05492 0.04507	0.05248 0.05081	0.04904 0.04389	0.04588	0.04218	AVRG		0.04781		8.88937	
2-Ethylhexyl Acrylate	NE 360378	2087 790630	3400 1215186	8837 1627894	25308	120798	LINR	0.02538	0.94922		0.99965	
94 1,2-Dichloroethylene (total)	NE 0.47212	0.59054 0.47798	0.55152 0.47957	0.52022 0.47697	0.48546	0.48413	AVRG		0.50428		8.22663	
95 Xylenes (total)	NE 0.56850	0.64773 0.59032	0.58459 0.60398	0.62199 0.60228	0.58667	0.57654	AVRG		0.59807		4.09592	
30 Dibromofluoromethane	NE 209535	1689 449558	5707 670515	9855 880893	25267	90715	LINR	-0.00695	0.44346		0.99959	
35 1,2-Dichloroethane-d4	NE 238148	3125 480296	6368 717187	11054 943547	26822	99379	LINR	-0.01718	0.47386		0.99978	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_438076

Volatiles by EPA 8260

ICAL Summary Page 12 / 12

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
48 Toluene-d8	NE 1.13265	1.45018 1.22907	1.43208 1.19790	1.30411 1.15568	1.24221	1.23311	AVRG		1.26411		8.86752	
69 4-Bromofluorobenzene	NE 332999	7971 703849	11345 1057321	16470 1427380	37968	139706	LINR	-0.01076	0.48296		0.99989	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_438076

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.00	46.87	93.74	80-120	
1,1,1-Trichloroethane	50.00	44.94	89.89	80-120	
1,1,2,2-Tetrachloroethane	50.00	46.24	92.49	80-120	
Freon TF	50.00	49.79	99.59	80-120	
Methyl acetate	50.00	48.69	97.38	80-120	
Cyclohexane	50.00	46.80	93.62	80-120	
Methylcyclohexane	50.00	53.51	107.04	80-120	
Carbon Disulfide	100.00	90.58	90.58	80-120	
2-Hexanone	100.00	98.60	98.60	80-120	
1,1,2-Trichloroethane	50.00	47.08	94.17	80-120	
1,1-Dichloroethane	50.00	46.17	92.34	80-120	
1,1-Dichloroethene	50.00	44.21	88.43	80-120	
1,1-Dichloropropene	50.00	46.82	93.64	80-120	
1,2,3-Trichlorobenzene	50.00	50.83	101.67	80-120	
1,2,3-Trichloropropane	50.00	47.13	94.28	80-120	
1,2,4-Trichlorobenzene	50.00	50.59	101.19	80-120	
1,2,4-Trimethylbenzene	50.00	46.23	92.47	80-120	
1,2-Dibromo-3-Chloropropane	50.00	50.38	100.77	80-120	
1,2-Dibromoethane	50.00	47.45	94.91	80-120	
Acrolein	100.00	103.93	103.93	80-120	
Acrylonitrile	100.00	94.07	94.08	80-120	
1,2-Dichlorobenzene	50.00	47.36	94.73	80-120	
1,2-Dichloroethane	50.00	49.10	98.20	80-120	
1,2-Dichloropropane	50.00	48.45	96.90	80-120	
1,3,5-Trimethylbenzene	50.00	46.12	92.25	80-120	
1,3-Dichlorobenzene	50.00	47.31	94.64	80-120	
1,3-Dichloropropane	50.00	48.46	96.92	80-120	
1,4-Dichlorobenzene	50.00	46.35	92.71	80-120	
1-Chlorohexane	50.00	45.55	91.10	80-120	
2,2-Dichloropropane	50.00	49.24	98.49	80-120	
2-Butanone	100.00	102.39	102.40	80-120	
2-Chloroethylvinyl ether	100.00	102.53	102.53	80-120	
2-Chlorotoluene	50.00	45.20	90.40	80-120	
4-Chlorotoluene	50.00	46.76	93.53	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_438076

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	46.63	93.27	80-120	
4-Methyl-2-Pentanone	100.00	97.98	97.98	80-120	
Acetone	100.00	87.51	87.52	80-120	
Acetonitrile	500.00	494.01	98.80	80-120	
Allyl Chloride	50.00	49.12	98.25	80-120	
Benzene	50.00	47.05	94.11	80-120	
Bromobenzene	50.00	47.80	95.61	80-120	
Bromochloromethane	50.00	44.92	89.85	80-120	
Bromodichloromethane	50.00	46.41	92.84	80-120	
Bromoform	50.00	48.28	96.57	80-120	
Bromomethane	50.00	46.93	93.86	80-120	
Carbon Tetrachloride	50.00	46.16	92.34	80-120	
Chlorobenzene	50.00	46.73	93.47	80-120	
Chloroethane	50.00	46.13	92.28	80-120	
Chloroform	50.00	44.31	88.62	80-120	
Chloromethane	50.00	47.99	96.00	80-120	
Chloroprene	50.00	44.77	89.56	80-120	
cis-1,2-Dichloroethene	50.00	46.34	92.69	80-120	
cis-1,3-Dichloropropene	50.00	49.32	98.65	80-120	
Dibromochloromethane	50.00	48.01	96.02	80-120	
Dibromomethane	50.00	48.22	96.45	80-120	
Dichlorodifluoromethane	50.00	48.88	97.77	80-120	
Ethylbenzene	50.00	45.79	91.59	80-120	
Ethyl Methacrylate	50.00	49.51	99.03	80-120	
Iodomethane	100.00	92.19	92.19	80-120	
Isobutyl Alcohol	1000.00	980.04	98.00	70-130	
Propionitrile	500.00	498.23	99.65	70-130	
Hexachlorobutadiene	50.00	49.69	99.39	80-120	
Isopropylbenzene	50.00	45.67	91.36	80-120	
m,p-Xylenes	100.00	95.16	95.17	80-120	
Methyl tert-butyl ether	50.00	47.37	94.75	80-120	
Methylene Chloride	50.00	43.72	87.45	80-120	
Methacrylonitrile	50.00	48.78	97.56	80-120	
Methyl Methacrylate	50.00	49.45	98.90	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_438076

Volatiles by EPA 8260

Sample Matrix LIQUID
Lab Smp Id ICV
Level LOW
Fraction VOA
Client Smp ID ICV
Operator PC

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	48.74	97.49	80-120	
n-Propylbenzene	50.00	46.49	92.99	80-120	
Naphthalene	50.00	52.43	104.86	80-120	
o-Xylene	50.00	46.20	92.40	80-120	
sec-Butylbenzene	50.00	45.26	90.53	80-120	
Styrene	50.00	48.54	97.09	80-120	
tert-Butylbenzene	50.00	45.20	90.41	80-120	
Tetrachloroethene	50.00	45.65	91.32	80-120	
Toluene	50.00	47.38	94.76	80-120	
trans-1,2-Dichloroethene	50.00	45.23	90.46	80-120	
trans-1,3-Dichloropropene	50.00	49.63	99.28	80-120	
trans-1,4-Dichloro-2-butene	50.00	51.27	102.56	80-120	
Trichloroethene	50.00	46.73	93.48	80-120	
Trichlorofluoromethane	50.00	46.34	92.69	80-120	
Vinyl Acetate	100.00	103.98	103.98	80-120	
Vinyl Chloride	50.00	45.89	91.79	80-120	
1,2-Dichloroethylene (total)	100.00	91.57	91.58	80-120	
Xylenes (total)	150.00	141.36	94.25	80-120	
1,4-Dioxane	1000.00	977.76	97.78	80-120	
Dibromofluoromethane	50.00	50.87	101.75	71-125	
1,2-Dichloroethane-d4	50.00	50.05	100.12	70-125	
Toluene-d8	50.00	48.61	97.23	75-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062603.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :15
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00606	0.00603	0.00603	0.001	0.45316	20.0	Averaged	
1,3-Butadiene	0.41435	0.35568	0.35568	0.100	14.15852	20.0	Averaged	
Methacrylonitrile	0.41256	0.40401	0.40401	0.100	2.07106	20.0	Averaged	
Isobutyl Alcohol	0.06519	0.06430	0.06430	0.005	1.37532	20.0	Averaged	
Acetonitrile	0.04850	0.04635	0.04635	0.005	4.41885	20.0	Averaged	
Allyl Chloride	1.09651	1.02259	1.02259	0.100	6.74135	20.0	Averaged	
Propionitrile	0.06047	0.06167	0.06167	0.010	-1.99213	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12170	0.11737	0.11737	0.050	3.55535	20.0	Averaged	
Ethyl Acetate	0.50967	0.46040	0.46040	0.100	9.66729	20.0	Averaged	
Methyl Methacrylate	0.38707	0.38998	0.38998	0.100	-0.75122	20.0	Averaged	
Ethyl Methacrylate	0.35838	0.33124	0.33124	0.100	7.57324	20.0	Averaged	
Methyl Acrylate	0.40496	0.42432	0.42432	0.100	-4.78135	20.0	Averaged	
Diethyl ether	0.31325	0.31619	0.31619	0.100	-0.93867	20.0	Averaged	
Diisopropyl ether	1.47464	1.41555	1.41555	0.100	4.00693	20.0	Averaged	
Dichlorodifluoromethane	50.0	40.21014	0.34570	0.100	19.57972	20.0	Linear	
Chloromethane	50.0	44.29686	0.46699	0.100	11.40627	20.0	Linear	
Vinyl Chloride	0.52511	0.44888	0.44888	0.100	14.51678	20.0	Averaged	
Bromomethane	0.30142	0.28051	0.28051	0.100	6.93603	20.0	Averaged	
Chloroethane	0.32098	0.29846	0.29846	0.100	7.01722	20.0	Averaged	
Trichlorofluoromethane	0.62401	0.57379	0.57379	0.100	8.04767	20.0	Averaged	
Acrolein	0.03103	0.02996	0.02996	0.010	3.42719	20.0	Averaged	
Acetone	100	101	0.13177	0.100	-1.07479	20.0	Linear	
1,1-Dichloroethene	0.39145	0.35013	0.35013	0.100	10.55648	20.0	Averaged	
Iodomethane	100	101	0.65580	0.100	-0.95186	20.0	Quadratic	
Acrylonitrile	0.15871	0.15060	0.15060	0.050	5.10761	20.0	Averaged	
Methylene Chloride	0.55293	0.48221	0.48221	0.100	12.79050	20.0	Averaged	
Methyl tert-butyl ether	1.36625	1.33506	1.33506	0.100	2.28331	20.0	Averaged	
Carbon Disulfide	1.39384	1.18818	1.18818	0.100	14.75490	20.0	Averaged	
trans-1,2-Dichloroethene	0.46841	0.42354	0.42354	0.100	9.57927	20.0	Averaged	
Vinyl Acetate	1.25019	1.27516	1.27516	0.010	-1.99704	20.0	Averaged	
1,1-Dichloroethane	0.84382	0.76155	0.76155	0.200	9.74964	20.0	Averaged	
2-Butanone	0.16455	0.16591	0.16591	0.100	-0.82550	20.0	Averaged	
2,2-Dichloropropane	50.0	48.60078	0.64725	0.100	2.79844	20.0	Linear	
cis-1,2-Dichloroethene	0.54016	0.50132	0.50132	0.100	7.18993	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062603.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :15
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroform	0.90821	0.80782	0.80782	0.200	11.05382	20.0	Averaged	
Bromochloromethane	0.28784	0.27213	0.27213	0.100	5.45747	20.0	Averaged	
30 Dibromofluoromethane	50.0	50.90218	0.45454	0.100	-1.80436	20.0	Linear	
1,1,1-Trichloroethane	0.73406	0.66703	0.66703	0.100	9.13050	20.0	Averaged	
1,1-Dichloropropene	0.41897	0.37943	0.37943	0.100	9.43578	20.0	Averaged	
1,2-Dichloroethane	0.41982	0.41399	0.41399	0.100	1.38763	20.0	Averaged	
Carbon Tetrachloride	0.40293	0.37121	0.37121	0.100	7.87367	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	49.91244	0.48118	0.100	0.17512	20.0	Linear	
Benzene	1.28613	1.21032	1.21032	0.500	5.89481	20.0	Averaged	
Trichloroethene	0.35461	0.33760	0.33760	0.200	4.79652	20.0	Averaged	
Bromodichloromethane	0.45495	0.43052	0.43052	0.200	5.36899	20.0	Averaged	
2-Chloroethylvinyl ether	0.12311	0.11928	0.11928	0.001	3.11323	20.0	Averaged	
1,2-Dichloropropane	0.33759	0.32025	0.32025	0.100	5.13567	20.0	Averaged	
Dibromomethane	0.21192	0.21155	0.21155	0.100	0.17626	20.0	Averaged	
4-Methyl-2-Pentanone	0.32299	0.30961	0.30961	0.100	4.14247	20.0	Averaged	
cis-1,3-Dichloropropene	0.56095	0.55384	0.55384	0.200	1.26759	20.0	Averaged	
48 Toluene-d8	1.26411	1.21637	1.21637	0.100	3.77647	20.0	Averaged	
Toluene	1.46787	1.36471	1.36471	0.400	7.02784	20.0	Averaged	
trans-1,3-Dichloropropene	0.46933	0.47363	0.47363	0.100	-0.91562	20.0	Averaged	
2-Hexanone	0.21575	0.22018	0.22018	0.100	-2.05396	20.0	Averaged	
1,1,2-Trichloroethane	0.28597	0.27657	0.27657	0.100	3.28711	20.0	Averaged	
1,3-Dichloropropane	0.57821	0.55808	0.55808	0.100	3.48036	20.0	Averaged	
Dibromochloromethane	0.40528	0.40218	0.40218	0.100	0.76499	20.0	Averaged	
Tetrachloroethene	0.30185	0.27653	0.27653	0.200	8.38944	20.0	Averaged	
1,2-Dibromoethane	0.36552	0.35669	0.35669	0.100	2.41432	20.0	Averaged	
1-Chlorohexane	0.30406	0.26542	0.26542	0.100	12.70985	20.0	Averaged	
Chlorobenzene	1.00438	0.94916	0.94916	0.500	5.49795	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37452	0.35713	0.35713	0.100	4.64268	20.0	Averaged	
Ethylbenzene	0.51747	0.46843	0.46843	0.100	9.47689	20.0	Averaged	
m,p-Xylenes	0.63815	0.59768	0.59768	0.100	6.34090	20.0	Averaged	
o-Xylene	0.63677	0.58854	0.58854	0.300	7.57409	20.0	Averaged	
Styrene	1.04887	1.01843	1.01843	0.300	2.90199	20.0	Averaged	
Bromoform	0.28254	0.28577	0.28577	0.100	-1.14378	20.0	Averaged	
Isopropylbenzene	1.57393	1.39379	1.39379	0.100	11.44500	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062603.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date :15
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1,2,2-Tetrachloroethane	0.87919	0.81969	0.81969	0.300	6.76782	20.0	Averaged	
1,2,3-Trichloropropane	0.63044	0.59844	0.59844	0.100	5.07640	20.0	Averaged	
n-Propylbenzene	3.29025	2.95861	2.95861	0.100	10.07941	20.0	Averaged	
Bromobenzene	0.81493	0.78222	0.78222	0.100	4.01479	20.0	Averaged	
1,3,5-Trimethylbenzene	2.41429	2.17232	2.17232	0.100	10.02244	20.0	Averaged	
2-Chlorotoluene	2.08941	1.85489	1.85489	0.100	11.22397	20.0	Averaged	
4-Chlorotoluene	2.33060	2.13621	2.13621	0.100	8.34081	20.0	Averaged	
tert-Butylbenzene	2.01139	1.76963	1.76963	0.100	12.01929	20.0	Averaged	
1,2,4-Trimethylbenzene	2.43582	2.22125	2.22125	0.100	8.80894	20.0	Averaged	
sec-Butylbenzene	2.83678	2.48725	2.48725	0.100	12.32134	20.0	Averaged	
p-Isopropyltoluene	2.48362	2.25579	2.25579	0.100	9.17360	20.0	Averaged	
1,3-Dichlorobenzene	1.45104	1.34581	1.34581	0.600	7.25203	20.0	Averaged	
1,4-Dichlorobenzene	1.55314	1.42962	1.42962	0.400	7.95276	20.0	Averaged	
n-Butylbenzene	2.11532	1.98810	1.98810	0.500	6.01459	20.0	Averaged	
1,2-Dichlorobenzene	1.43975	1.37665	1.37665	0.400	4.38274	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	52.04982	0.14940	0.040	-4.09964	20.0	Linear	
1,2,4-Trichlorobenzene	1.00154	0.98842	0.98842	0.100	1.31024	20.0	Averaged	
Hexachlorobutadiene	0.44956	0.43274	0.43274	0.100	3.74282	20.0	Averaged	
Naphthalene	2.25463	2.33452	2.33452	0.200	-3.54318	20.0	Averaged	
1,2,3-Trichlorobenzene	0.92158	0.93646	0.93646	0.010	-1.61414	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.50428	0.46243	0.46243	0.200	8.29961	20.0	Averaged	
95 Xylenes (total)	0.59807	0.56599	0.56599	0.100	5.36299	20.0	Averaged	
Cyclohexane	0.63736	0.54831	0.54831	0.100	13.97210	20.0	Averaged	
Freon TF	50.0	49.36081	0.34333	0.100	1.27837	20.0	Quadratic	
Methylcyclohexane	0.69881	0.73601	0.73601	0.100	-5.32438	20.0	Averaged	
Methyl Acetate	0.29595	0.28293	0.28293	0.100	4.39888	20.0	Averaged	
Tert-butyl alcohol	0.05134	0.04604	0.04604	0.005	10.33501	20.0	Averaged	
Isopropyl alcohol	0.02834	0.02584	0.02584	0.005	8.83484	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062632.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :26
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00606	0.00551	0.00551	0.001	9.12715	50.0	Averaged	
1,3-Butadiene	0.41435	0.34521	0.34521	0.100	16.68623	50.0	Averaged	
Methacrylonitrile	0.41256	0.38155	0.38155	0.100	7.51647	50.0	Averaged	
Isobutyl Alcohol	0.06519	0.05839	0.05839	0.005	10.43143	50.0	Averaged	
Acetonitrile	0.04850	0.04349	0.04349	0.005	10.31655	50.0	Averaged	
Allyl Chloride	1.09651	0.95089	0.95089	0.100	13.28004	50.0	Averaged	
Propionitrile	0.06047	0.05846	0.05846	0.010	3.32612	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12170	0.10540	0.10540	0.050	13.39156	50.0	Averaged	
Ethyl Acetate	0.50967	0.42938	0.42938	0.100	15.75373	50.0	Averaged	
Methyl Methacrylate	0.38707	0.36719	0.36719	0.100	5.13624	50.0	Averaged	
Ethyl Methacrylate	0.35838	0.30169	0.30169	0.100	15.81806	50.0	Averaged	
Methyl Acrylate	0.40496	0.40923	0.40923	0.100	-1.05566	50.0	Averaged	
Diethyl ether	0.31325	0.28794	0.28794	0.100	8.07819	50.0	Averaged	
Diisopropyl ether	1.47464	1.28740	1.28740	0.100	12.69715	50.0	Averaged	
Dichlorodifluoromethane	50.0	39.57464	0.34019	0.100	20.85072	50.0	Linear	
Chloromethane	50.0	43.62179	0.45971	0.100	12.75642	50.0	Linear	
Vinyl Chloride	0.52511	0.43864	0.43864	0.100	16.46645	50.0	Averaged	
Bromomethane	0.30142	0.28213	0.28213	0.100	6.39963	50.0	Averaged	
Chloroethane	0.32098	0.28898	0.28898	0.100	9.96932	50.0	Averaged	
Trichlorofluoromethane	0.62401	0.56632	0.56632	0.100	9.24382	50.0	Averaged	
Acrolein	0.03103	0.02541	0.02541	0.010	18.11025	50.0	Averaged	
Acetone	100	85.77685	0.11188	0.100	14.22315	50.0	Linear	
1,1-Dichloroethene	0.39145	0.35252	0.35252	0.100	9.94426	50.0	Averaged	
Iodomethane	100	95.31061	0.61785	0.100	4.68939	50.0	Quadratic	
Acrylonitrile	0.15871	0.13866	0.13866	0.050	12.63524	50.0	Averaged	
Methylene Chloride	0.55293	0.47578	0.47578	0.100	13.95420	50.0	Averaged	
Methyl tert-butyl ether	1.36625	1.21816	1.21816	0.100	10.83909	50.0	Averaged	
Carbon Disulfide	1.39384	1.05466	1.05466	0.100	24.33471	50.0	Averaged	
trans-1,2-Dichloroethene	0.46841	0.41235	0.41235	0.100	11.96758	50.0	Averaged	
Vinyl Acetate	1.25019	1.10063	1.10063	0.010	11.96294	50.0	Averaged	
1,1-Dichloroethane	0.84382	0.74562	0.74562	0.200	11.63772	50.0	Averaged	
2-Butanone	0.16455	0.15148	0.15148	0.100	7.93994	50.0	Averaged	
2,2-Dichloropropane	50.0	43.63065	0.58107	0.100	12.73870	50.0	Linear	
cis-1,2-Dichloroethene	0.54016	0.49456	0.49456	0.100	8.44093	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062632.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :26
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroform	0.90821	0.79288	0.79288	0.200	12.69844	50.0	Averaged	
Bromochloromethane	0.28784	0.26575	0.26575	0.100	7.67248	50.0	Averaged	
30 Dibromofluoromethane	50.0	48.00094	0.42881	0.100	3.99812	50.0	Linear	
1,1,1-Trichloroethane	0.73406	0.66354	0.66354	0.100	9.60590	50.0	Averaged	
1,1-Dichloropropene	0.41897	0.37950	0.37950	0.100	9.41892	50.0	Averaged	
1,2-Dichloroethane	0.41982	0.38211	0.38211	0.100	8.98261	50.0	Averaged	
Carbon Tetrachloride	0.40293	0.36825	0.36825	0.100	8.60637	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	45.54653	0.43980	0.100	8.90693	50.0	Linear	
Benzene	1.28613	1.18399	1.18399	0.500	7.94162	50.0	Averaged	
Trichloroethene	0.35461	0.34389	0.34389	0.200	3.02410	50.0	Averaged	
Bromodichloromethane	0.45495	0.41004	0.41004	0.200	9.87217	50.0	Averaged	
2-Chloroethylvinyl ether	0.12311	0.09910	0.09910	0.001	19.50289	50.0	Averaged	
1,2-Dichloropropane	0.33759	0.30945	0.30945	0.100	8.33584	50.0	Averaged	
Dibromomethane	0.21192	0.20010	0.20010	0.100	5.57566	50.0	Averaged	
4-Methyl-2-Pentanone	0.32299	0.28372	0.28372	0.100	12.15752	50.0	Averaged	
cis-1,3-Dichloropropene	0.56095	0.51705	0.51705	0.200	7.82582	50.0	Averaged	
48 Toluene-d8	1.26411	1.19464	1.19464	0.100	5.49537	50.0	Averaged	
Toluene	1.46787	1.39268	1.39268	0.400	5.12225	50.0	Averaged	
trans-1,3-Dichloropropene	0.46933	0.43157	0.43157	0.100	8.04588	50.0	Averaged	
2-Hexanone	0.21575	0.19650	0.19650	0.100	8.92161	50.0	Averaged	
1,1,2-Trichloroethane	0.28597	0.26477	0.26477	0.100	7.41132	50.0	Averaged	
1,3-Dichloropropane	0.57821	0.54226	0.54226	0.100	6.21757	50.0	Averaged	
Dibromochloromethane	0.40528	0.38753	0.38753	0.100	4.38074	50.0	Averaged	
Tetrachloroethene	0.30185	0.28389	0.28389	0.200	5.95015	50.0	Averaged	
1,2-Dibromoethane	0.36552	0.34874	0.34874	0.100	4.59122	50.0	Averaged	
1-Chlorohexane	0.30406	0.25315	0.25315	0.100	16.74329	50.0	Averaged	
Chlorobenzene	1.00438	0.95930	0.95930	0.500	4.48869	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37452	0.35517	0.35517	0.100	5.16671	50.0	Averaged	
Ethylbenzene	0.51747	0.48714	0.48714	0.100	5.86185	50.0	Averaged	
m,p-Xylenes	0.63815	0.61755	0.61755	0.100	3.22681	50.0	Averaged	
o-Xylene	0.63677	0.59475	0.59475	0.300	6.59942	50.0	Averaged	
Styrene	1.04887	1.02843	1.02843	0.300	1.94838	50.0	Averaged	
Bromoform	0.28254	0.27608	0.27608	0.100	2.28632	50.0	Averaged	
Isopropylbenzene	1.57393	1.46011	1.46011	0.100	7.23149	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID VOA6_439909

Volatiles by EPA 8260

Instrument ID VOA6.I
Lab File ID X062632.D
Analysis Type WATER
Lab Sample ID CCV-END

Injection Date :26
ICAL Date(s) 15-JUN-2023 15-JUN-2023
ICAL Times :15 14:45
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,1,2,2-Tetrachloroethane	0.87919	0.75168	0.75168	0.300	14.50259	50.0	Averaged	
1,2,3-Trichloropropane	0.63044	0.58725	0.58725	0.100	6.85150	50.0	Averaged	
n-Propylbenzene	3.29025	2.96633	2.96633	0.100	9.84505	50.0	Averaged	
Bromobenzene	0.81493	0.76322	0.76322	0.100	6.34642	50.0	Averaged	
1,3,5-Trimethylbenzene	2.41429	2.20688	2.20688	0.100	8.59085	50.0	Averaged	
2-Chlorotoluene	2.08941	1.84250	1.84250	0.100	11.81742	50.0	Averaged	
4-Chlorotoluene	2.33060	2.14909	2.14909	0.100	7.78835	50.0	Averaged	
tert-Butylbenzene	2.01139	1.82100	1.82100	0.100	9.46549	50.0	Averaged	
1,2,4-Trimethylbenzene	2.43582	2.23145	2.23145	0.100	8.39024	50.0	Averaged	
sec-Butylbenzene	2.83678	2.56291	2.56291	0.100	9.65410	50.0	Averaged	
p-Isopropyltoluene	2.48362	2.27807	2.27807	0.100	8.27648	50.0	Averaged	
1,3-Dichlorobenzene	1.45104	1.34645	1.34645	0.600	7.20828	50.0	Averaged	
1,4-Dichlorobenzene	1.55314	1.40811	1.40811	0.400	9.33809	50.0	Averaged	
n-Butylbenzene	2.11532	1.97057	1.97057	0.500	6.84317	50.0	Averaged	
1,2-Dichlorobenzene	1.43975	1.34163	1.34163	0.400	6.81566	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	46.56304	0.13357	0.040	6.87391	50.0	Linear	
1,2,4-Trichlorobenzene	1.00154	0.95678	0.95678	0.100	4.46898	50.0	Averaged	
Hexachlorobutadiene	0.44956	0.42215	0.42215	0.100	6.09891	50.0	Averaged	
Naphthalene	2.25463	2.13303	2.13303	0.200	5.39338	50.0	Averaged	
1,2,3-Trichlorobenzene	0.92158	0.87825	0.87825	0.010	4.70200	50.0	Averaged	
94 1,2-Dichloroethylene (total	0.50428	0.45346	0.45346	0.200	10.07881	50.0	Averaged	
95 Xylenes (total)	0.59807	0.57578	0.57578	0.100	3.72578	50.0	Averaged	
Cyclohexane	0.63736	0.59384	0.59384	0.100	6.82795	50.0	Averaged	
Freon TF	50.0	49.98053	0.34773	0.100	0.03894	50.0	Quadratic	
Methylcyclohexane	0.69881	0.67128	0.67128	0.100	3.93865	50.0	Averaged	
Methyl Acetate	0.29595	0.26410	0.26410	0.100	10.76006	50.0	Averaged	
Tert-butyl alcohol	0.05134	0.04026	0.04026	0.005	21.58916	50.0	Averaged	
Isopropyl alcohol	0.02834	0.02166	0.02166	0.005	23.58268	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 LHAAP Site18/24

Workorder **HS23061707**

Volatiles by EPA 8260

VOA6_439909		Pentafluorobenzene				1,4-Difluorobenzene				Chlorobenzene				1,4-Dichlorobenze			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	X062603.D	448462	#	4.18	#	675768	#	4.97	#	643218	#	7.67	#	361290	#	9.66	#
HS23061707-01	X062608.D	470724		4.18		670901		4.97		596357		7.67		310331		9.66	
HS23061707-01MS	X062611.D	478875		4.18		680173		4.97		621892		7.67		354966		9.66	
HS23061707-01MSD	X062612.D	486549		4.18		689290		4.97		621354		7.67		343257		9.66	
HS23061707-02	X062616.D	482638		4.18		673006		4.97		599830		7.67		313303		9.66	
HS23061707-03	X062617.D	473971		4.18		667824		4.97		594199		7.67		303854		9.66	
HS23061707-04	X062618.D	476359		4.18		671575		4.97		591916		7.67		309101		9.66	
HS23061707-06	X062619.D	473620		4.18		671591		4.97		582842		7.67		309081		9.66	
HS23061707-07	X062620.D	471590		4.18		668216		4.97		606179		7.67		328506		9.66	
HS23061707-08	X062621.D	494252		4.18		706333		4.97		617818		7.67		307641		9.66	
HS23061707-09	X062622.D	454874		4.18		645524		4.97		579051		7.67		298549		9.66	
HS23061707-10	X062623.D	457552		4.19		654684		4.97		581468		7.67		300579		9.66	
HS23061707-11	X062614.D	471161		4.18		672061		4.97		605148		7.67		315944		9.66	
VBLKW-230626	X062607.D	478836		4.18		682036		4.97		618357		7.67		329847		9.66	
VLCSW-230626	X062605.D	460514		4.18		687751		4.97		645405		7.67		366585		9.66	
MS-ZZZZZZMS	X062630.D	477071		4.18		675566		4.97		610400		7.67		339896		9.66	
ZZZZZZMSD	X062631.D	481991		4.18		682531		4.97		631008		7.67		359655		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

01200478

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Analysis Run Log

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061707

RunID
VOA6-438076

Volatiles by EPA 8260

Run ID VOA6_438076 **Start Date** 06/15/23 **EndDate** 06/15/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:54	BFB	TUNE	BFB	X061501.D	06/15/23	1
11:15	VSTD000.25	ICAL1	VSTD000.25	X061502.D	06/15/23	1
11:36	VSTD000.5	ICAL2	VSTD000.5	X061503.D	06/15/23	1
12:18	VSTD001	ICAL3	VSTD001	X061504.D	06/15/23	1
12:39	VSTD002	ICAL4	VSTD002	X061505.D	06/15/23	1
13:00	VSTD005	ICAL5	VSTD005	X061506.D	06/15/23	1
13:21	VSTD020	ICAL6	VSTD020	X061507.D	06/15/23	1
13:42	VSTD050	ICAL7	VSTD050	X061508.D	06/15/23	1
14:03	VSTD100	ICAL8	VSTD100	X061509.D	06/15/23	1
14:24	VSTD150	ICAL9	VSTD150	X061510.D	06/15/23	1
14:45	VSTD200	ICAL	VSTD200	X061511.D	06/15/23	1
15:47	CCV	ICV	CCV	X061514.D	06/15/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061707

RunID
VOA6-439909

Volatiles by EPA 8260

Run ID VOA6_439909 **Start Date** 06/26/23 **EndDate** 06/26/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
12:33	BFB	TUNE	BFB	X062601.D	06/26/23	1
13:15	CCV	CCV	CCV	X062603.D	06/26/23	1
13:36	CCB	CCB	CCB	X062604.D	06/26/23	1
13:57	VLCSW-230626	LCS	VLCSW-230626	X062605.D	06/26/23	1
14:39	VBLKW-230626	MBLK	VBLKW-230626	X062607.D	06/26/23	1
15:00	HS23061707-01	SAMP	18WW19_062323	X062608.D	06/26/23	1
15:21	HS23061712-03	SAMP	ZZZZZZZZZZ	X062609.D	06/26/23	1
15:42	HS23061712-04	SAMP	ZZZZZZZZZZ	X062610.D	06/26/23	1
16:04	HS23061707-01MS	MS	HS23061707-01MS	X062611.D	06/26/23	1
16:25	HS23061707-01MSD	MSD	HS23061707-01MSD	X062612.D	06/26/23	1
17:07	HS23061707-11	SAMP	Trip Blank	X062614.D	06/26/23	1
17:28	HS23061712-09	SAMP	ZZZZZZZZZZ	X062615.D	06/26/23	1
17:49	HS23061707-02	SAMP	18WW19_062323_a	X062616.D	06/26/23	1
18:10	HS23061707-03	SAMP	18WW20_062323	X062617.D	06/26/23	1
18:31	HS23061707-04	SAMP	18WW08_062323	X062618.D	06/26/23	1
18:52	HS23061707-06	SAMP	18CPTMW15_062323	X062619.D	06/26/23	1
19:13	HS23061707-07	SAMP	18CPTMW15_062323_	X062620.D	06/26/23	1
19:34	HS23061707-08	SAMP	MW18_062323	X062621.D	06/26/23	1
19:55	HS23061707-09	SAMP	MW19_062323	X062622.D	06/26/23	1
20:16	HS23061707-10	SAMP	18CPTMW26SW_0623	X062623.D	06/26/23	1
20:37	HS23061712-06	SAMP	ZZZZZZZZZZ	X062624.D	06/26/23	1
20:58	HS23061712-01	SAMP	ZZZZZZZZZZ	X062625.D	06/26/23	25
21:19	HS23061712-08	SAMP	ZZZZZZZZZZ	X062626.D	06/26/23	20
21:40	HS23061712-08	SAMP	ZZZZZZZZZZ	X062627.D	06/26/23	200
22:01	HS23061712-07	SAMP	ZZZZZZZZZZ	X062628.D	06/26/23	25
22:22	HS23061712-07	SAMP	ZZZZZZZZZZ	X062629.D	06/26/23	250
22:44	HS23061712-08MS	MS	ZZZZZZMS	X062630.D	06/26/23	200
23:05	HS23061712-08MSD	MSD	ZZZZZZMSD	X062631.D	06/26/23	200
23:26	CCV-END	CCV_END	CCV-END	X062632.D	06/26/23	1

01200481

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right partner.

Raw Data VOA6 438076

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061501.D Page 1
Report Date: 15-Jun-2023 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061501.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2023 10:54
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
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: NAHSTW7051

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)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.691	8.889	(0.000)	95	91504			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	17024			15.00- 40.00	18.60
8.691	8.889	(0.000)	75	44272			30.00- 60.00	48.38
8.691	8.889	(0.000)	96	6495			5.00- 9.00	7.10
8.691	8.889	(0.000)	173	533			0.00- 2.00	0.74
8.691	8.889	(0.000)	174	72064			50.00- 0.00	78.76
8.691	8.889	(0.000)	175	5792			5.00- 9.00	8.04
8.691	8.889	(0.000)	176	71408			95.00- 101.00	99.09
8.691	8.889	(0.000)	177	5330			5.00- 9.00	7.46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.60
75	30.00 - 60.00% of mass 95	48.38
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.58 (0.74)
174	Greater than 50.00% of mass 95	78.76
175	5.00 - 9.00% of mass 174	6.33 (8.04)
176	95.00 - 101.00% of mass 174	78.04 (99.09)
177	5.00 - 9.00% of mass 176	5.82 (7.46)

Data File: X061501.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	732	62.00	3604	92.10	1898	141.90	68
37.10	4114	63.00	2982	93.00	3456	143.00	777
38.10	3477	63.90	141	94.00	11246	143.90	94
39.10	1745	64.80	123	95.00	91504	147.70	291
40.00	1863	66.90	341	96.00	6495	148.80	125
41.10	52	68.00	9377	96.90	224	149.70	51
42.00	50	69.10	8186	104.00	204	151.90	69
42.90	82	70.00	449	104.80	127	152.80	64
44.10	1699	72.00	505	106.00	388	154.80	170
45.00	935	73.00	3827	106.90	76	156.90	174
46.00	105	74.10	13173	109.90	113	157.70	64
47.10	1295	75.10	44272	110.80	95	158.80	71
48.00	358	76.00	3684	115.10	123	169.90	113
49.00	3460	76.90	535	115.90	365	172.80	533
50.10	17024	77.90	379	116.90	632	173.90	72064
51.10	5327	78.90	2312	117.90	274	174.90	5792
52.00	282	80.00	561	118.90	458	175.90	71408
54.80	200	80.90	2487	128.00	326	176.90	5330
56.00	1410	81.90	556	128.80	272	178.00	84
57.00	1995	86.00	91	130.00	338	186.00	171
57.90	156	86.90	3763	135.00	109	191.00	88
59.90	837	87.90	3752	136.90	179	262.00	65
61.00	4172	90.90	273	140.90	1058		

Data File: \\nahstws005\target\chem\voa6.i\x230615.b\x061501.d Page 1

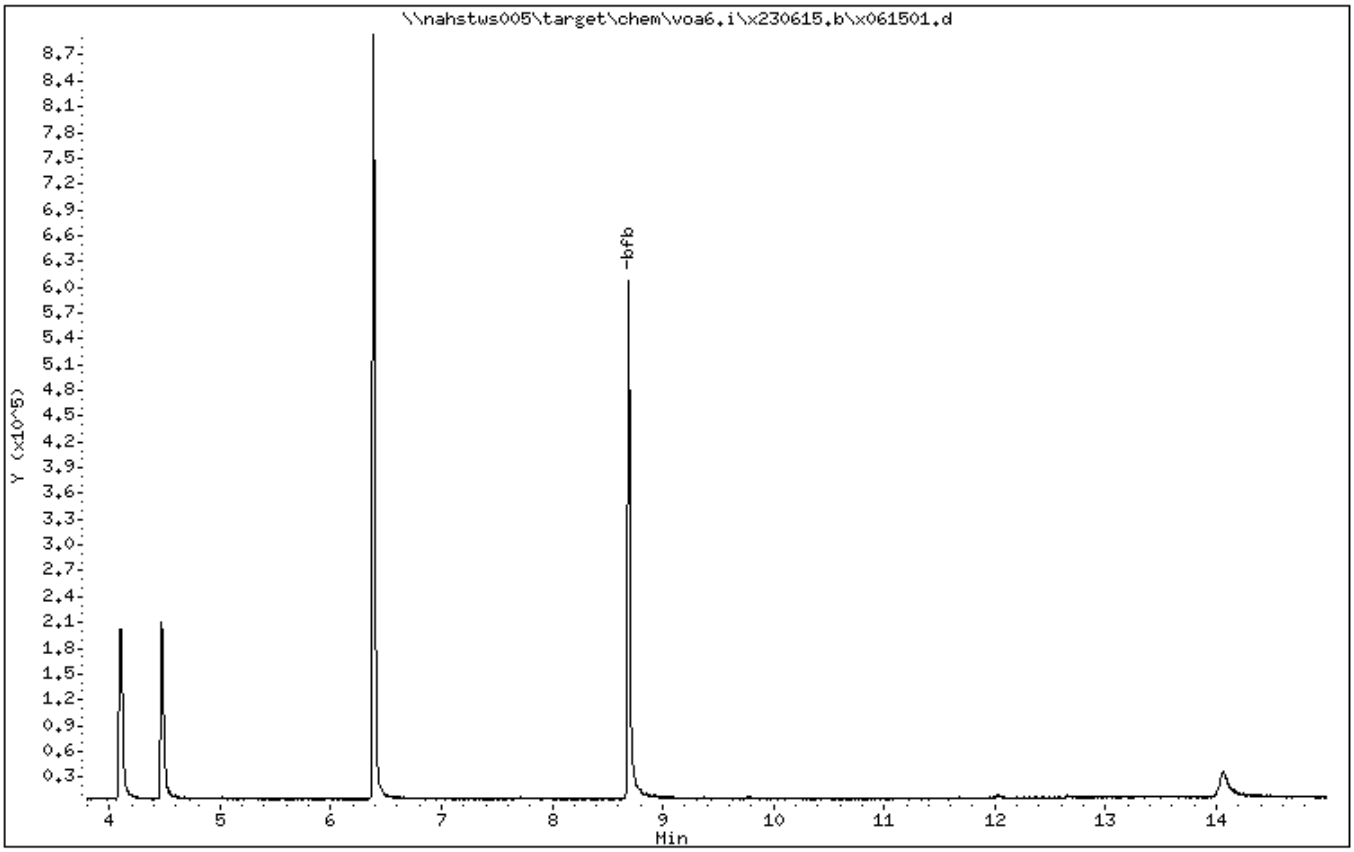
Date : 15-JUN-2023 10:54

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa6.i\x230615.b\x061501.d
Inj Date : 15-JUN-2023 10:54
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061502.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 15-JUN-2023 11:15
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 11:15 Cal File: X061502.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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

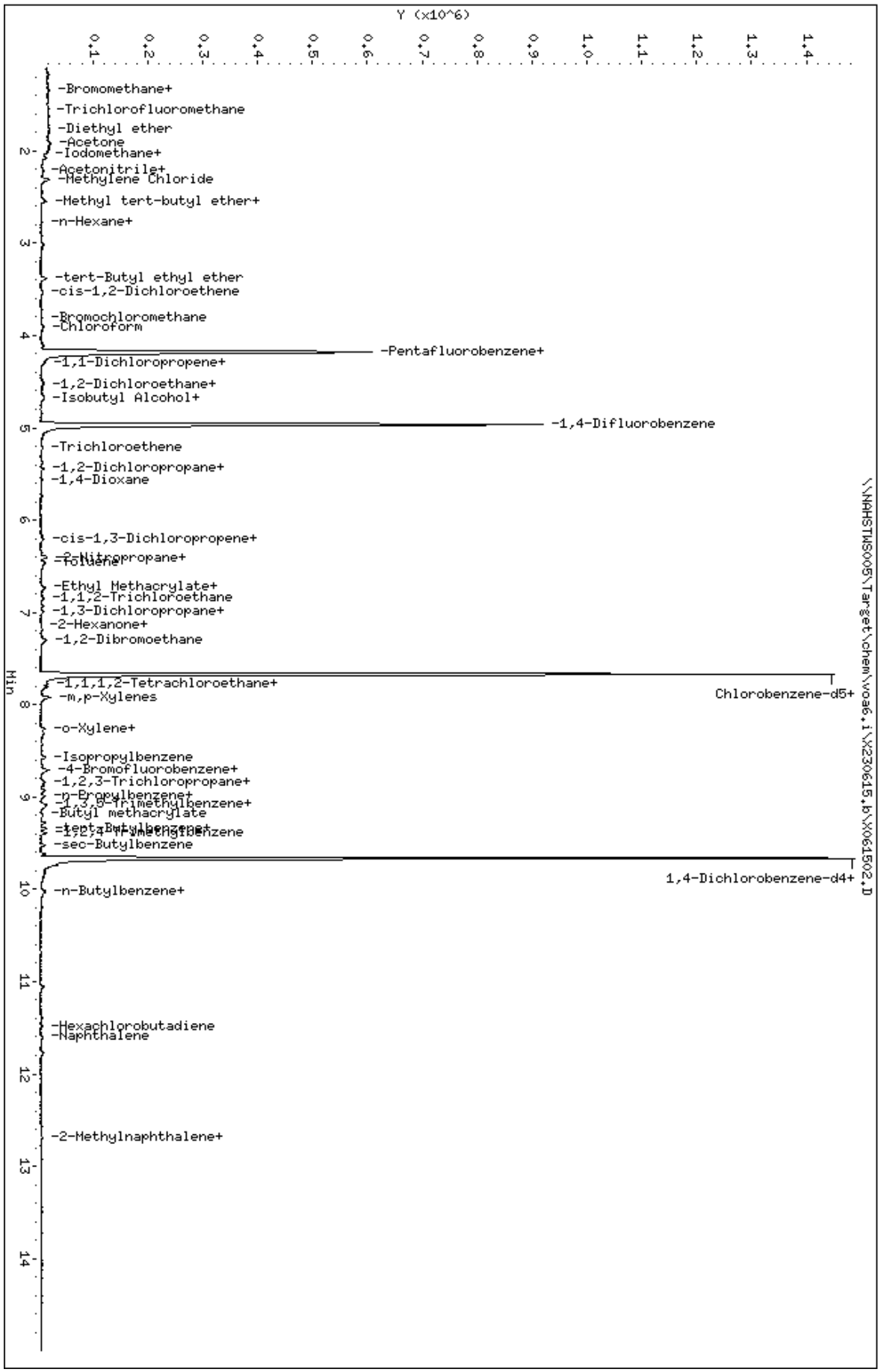
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	494932	50.0000	
	6 Bromomethane	94	1.343	1.344	(0.321)	1702	0.25000	0.57
	10 Acetone	43	1.977	1.973	(0.473)	3259	0.50000	2.26
	13 Acetonitrile	39	2.206	2.202	(0.528)	1535	2.50000	3.19(a)
	15 Iodomethane	142	2.029	2.030	(0.485)	1365	0.50000	2.53(T)
	17 Methylene Chloride	84	2.307	2.307	(0.552)	5303	0.25000	0.96
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	766330	50.0000	
	42 1,2-Dichloropropane	63	5.441	5.437	(1.096)	1532	0.25000	0.29(a)
	43 2-Nitropropane	43	6.352	5.966	(1.519)	2352	0.25000	1.76(Ta)
	45 4-Methyl-2-Pentanone	43	6.352	6.322	(0.828)	2352	0.50000	0.52(a)
	46 cis-1,3-Dichloropropene	75	6.175	6.153	(1.244)	2487	0.25000	0.28(a)
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	699301	50.0000	
$	48 Toluene-d8	98	6.400	6.386	(0.835)	9354	0.25000	0.52(a)
	49 Ethyl Methacrylate	69	6.738	6.708	(1.357)	997	0.25000	0.18(a)
	50 Toluene	91	6.464	6.445	(0.843)	6514	0.25000	0.31(a)
	52 2-Hexanone	43	7.139	7.083	(0.931)	730	0.50000	0.24(Ta)
	53 1,1,2-Trichloroethane	83	6.843	6.835	(0.892)	1411	0.25000	0.35(a)
	54 1,3-Dichloropropane	76	6.993	6.978	(0.912)	3023	0.25000	0.37(a)
	55 Dibromochloromethane	129	7.184	7.173	(0.937)	1999	0.25000	0.35(a)
	56 Tetrachloroethene	164	6.940	6.925	(0.905)	1096	0.25000	0.25(a)
	57 1,2-Dibromoethane	107	7.281	7.259	(0.950)	1818	0.25000	0.35(a)

58 1-Chlorohexane	55	7.716	7.694 (1.554)	1009	0.25000	0.21(a)
59 Chlorobenzene	112	7.697	7.690 (1.004)	4842	0.25000	0.34(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
60	1,1,1,2-Tetrachloroethane	131	7.776	7.773	(1.014)	1838	0.25000	0.35(a)
61	Ethylbenzene	106	7.810	7.799	(1.019)	2138	0.25000	0.29(a)
62	m,p-Xylenes	106	7.922	7.900	(1.033)	4853	0.50000	0.54(a)
63	o-Xylene	106	8.260	8.237	(1.077)	2870	0.25000	0.32(a)
64	Styrene	104	8.301	8.256	(1.083)	4358	0.25000	0.29(a)
67	Isopropylbenzene	105	8.567	8.560	(1.117)	6739	0.25000	0.30(a)
$ 69	4-Bromofluorobenzene	95	8.710	8.687	(1.136)	6918	0.25000	0.48(a)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	377299	50.0000	
71	1,2,3-Trichloropropane	75	8.878	8.863	(0.919)	1462	0.25000	0.30(a)
73	n-Propylbenzene	91	8.927	8.908	(0.924)	7862	0.25000	0.31(a)
74	Bromobenzene	156	8.822	8.803	(0.913)	2206	0.25000	0.35(a)
75	1,3,5-Trimethylbenzene	105	9.077	9.066	(0.939)	5834	0.25000	0.32(a)
76	2-Chlorotoluene	91	8.991	8.972	(0.931)	6413	0.25000	0.40(a)
77	4-Chlorotoluene	91	9.103	9.070	(0.942)	6038	0.25000	0.34(a)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	4660	0.25000	0.30(a)
79	1,2,4-Trimethylbenzene	105	9.392	9.377	(0.972)	6265	0.25000	0.34(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	6772	0.25000	0.31(a)
82	p-Isopropyltoluene	119	9.658	9.647	(1.000)	5545	0.25000	0.29(a)
83	1,3-Dichlorobenzene	146	9.609	9.602	(0.995)	3815	0.25000	0.34(a)
84	1,4-Dichlorobenzene	146	9.688	9.681	(1.003)	4582	0.25000	0.39(a)
87	n-Butylbenzene	91	10.033	9.992	(1.038)	2862	0.25000	0.17(a)
88	1,2-Dichlorobenzene	146	10.014	9.992	(1.036)	2957	0.25000	0.27(a)
91	Hexachlorobutadiene	225	11.491	11.476	(1.189)	911	0.25000	0.26(a)
92	Naphthalene	128	11.607	11.540	(1.201)	3349	0.25000	0.19(a)
141	Cyclohexane	56	4.177	4.121	(0.999)	7819	0.25000	1.23(a)
147	Methylcyclohexane	55	5.377	5.381	(1.083)	1111	0.25000	0.10(a)
135	1,4-Dioxane	88	5.624	5.598	(1.345)	279	5.00000	4.65(aM)
136	n-Hexane	57	2.772	2.776	(0.663)	805	0.25000	(Ta)
139	Diethyl ether	59	1.767	1.760	(0.423)	1156	0.25000	0.37(a)
149	Isopropyl alcohol	45	2.104	2.093	(0.503)	1938	5.00000	6.90(T)
160	2-Methylnaphthalene	142	12.694	12.634	(1.314)	824	0.25000	0.11(a)
166	1,2,3-Trimethylbenzene	105	9.740	9.729	(1.008)	6314	0.25000	0.35(a)
174	tert-Amyl methyl ether	73	4.669	4.665	(1.117)	6862	0.25000	0.43(a)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.808)	5136	0.25000	0.33(a)
176	tert-Amyl alcohol	59	4.639	4.612	(1.109)	2691	5.00000	6.47
151	4-Methyl-2-pentanol	45	6.730	6.708	(1.356)	7887	5.00000	6.47
180	1-Methylnaphthalene	142	12.694	12.634	(1.314)	824	0.25000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	1108	0.25000	0.27(a)
162	Butyl acrylate	55	8.323	8.249	(1.086)	733	0.25000	0.61(a)
164	Dicyclopentadiene	66	9.677	9.681	(1.002)	13171	0.25000	0.62(a)
M 94	1,2-Dichloroethylene (total)	96				2586	0.50000	(a)
134	Cyclohexanone	55	8.653	8.642	(0.896)	2230	5.00000	(a)
150	Allyl alcohol	57	2.772	2.772	(0.663)	805	5.00000	(a)
200	Dimethyl Disulfide	94	6.209	6.194	(0.810)	3528	0.25000	0.34(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: \\NAHSTMS005\Target\chem\voa6.i\X230615.b\X061502.D
Date : 15-JUN-2023 11:15
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

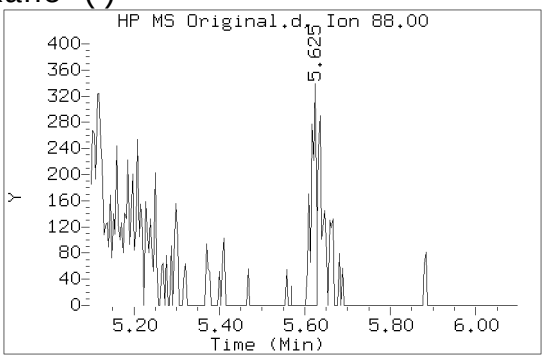
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Inj Date : 15-JUN-2023 11:15
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

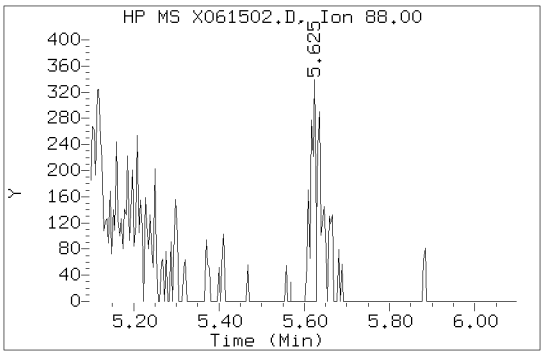
BEFORE

MASS
88
AREA
279
HEIGHT
339
20-Jun-2023
18:22
linh
pham



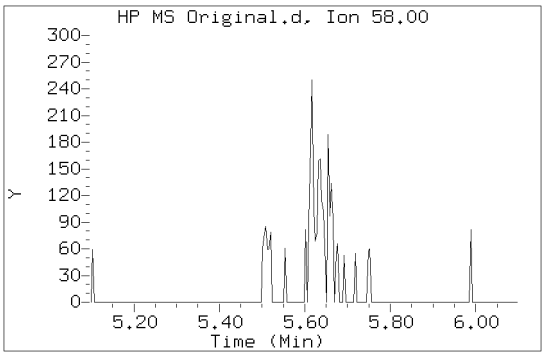
AFTER

MASS
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20-Jun-2023
18:24
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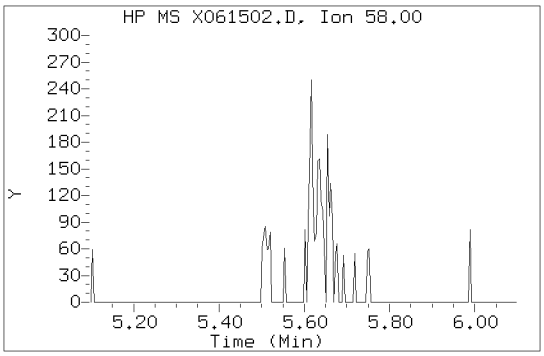
BEFORE

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AFTER

MASS
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HEIGHT
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20-Jun-2023
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D Page 1
Report Date: 05-Jul-2023 12:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061503.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 15-JUN-2023 11:36
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 11:36 Cal File: X061503.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	480661	50.0000	
2	Dichlorodifluoromethane	85	0.973	0.973	(0.233)	2615	0.50000	0.95(M)
3	Chloromethane	50	1.081	1.081	(0.259)	3301	0.50000	1.66(M)
4	Propionitrile	54	3.709	3.709	(0.887)	2622	5.00000	4.51(aM)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	2917	0.50000	0.57(M)
6	Bromomethane	94	1.344	1.344	(0.321)	1612	0.50000	0.55(M)
7	Chloroethane	64	1.407	1.407	(0.337)	1789	0.50000	0.57(M)
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	3392	0.50000	0.56(M)
9	Acrolein	56	1.445	1.445	(0.346)	343	1.00000	1.15(aM)
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	2206	0.50000	0.58(M)
12	Isobutyl Alcohol	43	4.702	4.702	(1.125)	5465	10.0000	8.71(aM)
13	Acetonitrile	39	2.213	2.213	(0.529)	2269	5.00000	4.86(aM)
14	Allyl Chloride	41	2.217	2.217	(0.530)	5619	0.50000	0.53(a)
15	Iodomethane	142	2.026	2.026	(0.485)	2984	1.00000	2.79(TM)
16	Acrylonitrile	53	2.584	2.584	(0.618)	1586	1.00000	1.03(M)
17	Methylene Chloride	84	2.307	2.307	(0.552)	3169	0.50000	0.59(M)
18	Methyl tert-butyl ether	73	2.543	2.543	(0.608)	7284	0.50000	0.55
19	Carbon Disulfide	76	2.075	2.075	(0.496)	15259	1.00000	1.13(M)
20	trans-1,2-Dichloroethene	96	2.539	2.539	(0.607)	2631	0.50000	0.58
21	Vinyl Acetate	43	3.046	3.046	(0.728)	11055	1.00000	0.91(aM)
22	1,1-Dichloroethane	63	2.926	2.926	(0.700)	4641	0.50000	0.57(M)

23 Chloroprene	53	1.775	1.775 (0.425)	937	0.50000	0.58(aM)
24 2-Butanone	43	3.683	3.683 (0.881)	1517	1.00000	0.95(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
25	Methacrylonitrile	41	3.870	3.870	(0.926)	2167	0.50000	0.54(aM)
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	4078	0.50000	0.63(M)
27	cis-1,2-Dichloroethene	96	3.537	3.537	(0.846)	3046	0.50000	0.58(M)
28	Chloroform	83	3.908	3.908	(0.935)	5129	0.50000	0.58(M)
29	Bromochloromethane	128	3.807	3.807	(0.910)	1516	0.50000	0.54(M)
31	1,1,1-Trichloroethane	97	4.076	4.076	(0.975)	4137	0.50000	0.58
32	1,1-Dichloropropene	75	4.283	4.283	(0.863)	3575	0.50000	0.57(M)
33	1,2-Dichloroethane	62	4.582	4.582	(0.923)	3689	0.50000	0.59
34	Carbon Tetrachloride	117	4.268	4.268	(0.860)	3561	0.50000	0.59
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	737190	50.0000	
37	Benzene	78	4.519	4.519	(0.910)	10562	0.50000	0.55(M)
38	Trichloroethene	130	5.220	5.220	(1.051)	2866	0.50000	0.54(a)
39	Bromodichloromethane	83	5.726	5.726	(1.153)	3787	0.50000	0.56(aM)
40	Methyl Methacrylate	41	5.643	5.643	(1.350)	1972	0.50000	0.52(aM)
41	2-Chloroethylvinyl ether	63	6.093	6.093	(1.227)	1563	1.00000	0.86(aM)
42	1,2-Dichloropropane	63	5.445	5.445	(1.097)	2801	0.50000	0.56(aM)
43	2-Nitropropane	43	5.977	5.977	(1.429)	747	0.50000	0.57(aM)
44	Dibromomethane	93	5.568	5.568	(1.122)	1589	0.50000	0.50(aM)
45	4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	4230	1.00000	0.95(a)
46	cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	4543	0.50000	0.54(a)
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	687572	50.0000	
$ 48	Toluene-d8	98	6.401	6.401	(0.835)	9971	0.50000	0.57(a)
49	Ethyl Methacrylate	69	6.813	6.813	(1.372)	3142	0.50000	0.52(aM)
50	Toluene	91	6.461	6.461	(0.843)	11582	0.50000	0.57(aM)
51	trans-1,3-Dichloropropene	75	6.708	6.708	(1.351)	3492	0.50000	0.50(a)
52	2-Hexanone	43	7.117	7.117	(0.928)	2386	1.00000	0.80(a)
53	1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	2237	0.50000	0.56(aM)
54	1,3-Dichloropropane	76	6.989	6.989	(0.912)	4459	0.50000	0.56(aM)
55	Dibromochloromethane	129	7.184	7.184	(0.937)	3103	0.50000	0.55(a)
56	Tetrachloroethene	164	6.929	6.929	(0.904)	2291	0.50000	0.55(aM)
57	1,2-Dibromoethane	107	7.274	7.274	(0.949)	2925	0.50000	0.58(a)
58	1-Chlorohexane	55	7.705	7.705	(1.552)	2351	0.50000	0.52(aM)
59	Chlorobenzene	112	7.694	7.694	(1.003)	8017	0.50000	0.58(aM)
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	2861	0.50000	0.55(a)
61	Ethylbenzene	106	7.806	7.806	(1.018)	3993	0.50000	0.56(a)
62	m,p-Xylenes	106	7.915	7.915	(1.032)	9595	1.00000	1.09(aM)
63	o-Xylene	106	8.252	8.252	(1.076)	4730	0.50000	0.54(aM)
64	Styrene	104	8.297	8.297	(1.082)	7646	0.50000	0.53(aM)
66	Bromoform	173	8.417	8.417	(1.098)	2211	0.50000	0.56(Ta)
67	Isopropylbenzene	105	8.567	8.567	(1.117)	12451	0.50000	0.57(a)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	3818	0.50000	0.57(aM)
$ 69	4-Bromofluorobenzene	95	8.706	8.706	(1.135)	7971	0.50000	0.66(a)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	376739	50.0000	
71	1,2,3-Trichloropropane	75	8.878	8.878	(0.919)	2689	0.50000	0.56(a)
72	trans-1,4-Dichloro-2-butene	53	8.935	8.935	(1.165)	838	0.50000	0.50(aM)
73	n-Propylbenzene	91	8.927	8.927	(0.924)	14359	0.50000	0.57(a)
74	Bromobenzene	156	8.826	8.826	(0.913)	3535	0.50000	0.57(aM)
75	1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	10589	0.50000	0.58(aM)
76	2-Chlorotoluene	91	8.983	8.983	(0.930)	8949	0.50000	0.56(aM)
77	4-Chlorotoluene	91	9.092	9.092	(0.941)	10012	0.50000	0.57(aM)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	8719	0.50000	0.57(aM)
79	1,2,4-Trimethylbenzene	105	9.388	9.388	(0.972)	10657	0.50000	0.58(aM)

81 sec-Butylbenzene	105	9.519	9.519 (0.985)	12512	0.50000	0.58(aM)
82 p-Isopropyltoluene	119	9.658	9.658 (1.000)	10432	0.50000	0.55(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
83	1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	6249	0.50000	0.57(a)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	6645	0.50000	0.56(a)
86	Benzyl Chloride	91	9.834	9.834	(1.283)	6300	0.50000	0.55(aM)
87	n-Butylbenzene	91	10.018	10.018	(1.037)	8377	0.50000	0.52(aM)
88	1,2-Dichlorobenzene	146	10.011	10.011	(1.036)	6205	0.50000	0.57(a)
89	1,2-Dibromo-3-Chloropropane	155	10.689	10.689	(1.106)	562	0.50000	0.77(aM)
90	1,2,4-Trichlorobenzene	180	11.371	11.371	(1.177)	3888	0.50000	0.51(a)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	1714	0.50000	0.50(a)
92	Naphthalene	128	11.596	11.596	(1.200)	9500	0.50000	0.55(aM)
93	1,2,3-Trichlorobenzene	180	11.769	11.769	(1.218)	3790	0.50000	0.54(a)
146	Methyl acetate	43	2.255	2.255	(0.539)	1514	0.50000	0.53(aM)
138	Freon TF	101	1.917	1.917	(0.459)	2188	0.50000	0.67(aM)
141	Cyclohexane	56	4.129	4.129	(0.987)	3419	0.50000	0.55(aMH)
142	Tetrahydrofuran	42	3.874	3.874	(0.926)	724	1.00000	1.03(aM)
147	Methylcyclohexane	55	5.373	5.373	(1.082)	4698	0.50000	0.45(aM)
135	1,4-Dioxane	88	5.621	5.621	(1.344)	539	10.0000	9.25(aM)
132	n-Butanol	56	5.373	5.373	(1.285)	934	10.0000	72.06(aM)
131	Methyl Acrylate	55	3.784	3.784	(0.905)	1944	0.50000	0.49(aM)
133	Ethyl Acrylate	55	5.448	5.448	(1.303)	4696	0.50000	2.77(M)
136	n-Hexane	57	2.779	2.779	(0.665)	2120	0.50000	0.26(aM)
139	Diethyl ether	59	1.764	1.764	(0.422)	1591	0.50000	0.52(aM)
148	Tert-butyl alcohol	59	2.435	2.435	(0.582)	5403	10.0000	10.94(M)
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	2910	10.0000	10.68
156	Diisopropyl ether	45	3.012	3.012	(0.720)	8201	0.50000	0.57(Ta)
160	2-Methylnaphthalene	142	12.668	12.668	(1.311)	3514	0.50000	0.47(a)
166	1,2,3-Trimethylbenzene	105	9.741	9.741	(1.008)	9163	0.50000	0.51(a)
167	Ethanol	45	1.700	1.700	(0.407)	492	10.0000	10.70(M)
172	tert-Butyl formate	59	4.635	4.635	(1.108)	3776	1.00000	0.95(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	6294	10.0000	11.19(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	8758	0.50000	0.56(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	8683	0.50000	0.59(a)
176	tert-Amyl alcohol	59	4.635	4.635	(1.108)	4487	10.0000	11.11(M)
151	4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	12489	10.0000	10.65
180	1-Methylnaphthalene	142	12.668	12.668	(1.311)	3514	0.50000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	2248	0.50000	0.56(aM)
152	Amyl alcohol	42	7.015	7.015	(0.915)	1185	10.0000	9.25(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	4041	0.50000	0.58(M)
161	3-Methyl-1-butanol	55	7.004	7.004	(0.913)	1270	10.0000	44.67(M)
162	Butyl acrylate	55	8.297	8.297	(1.082)	1843	0.50000	0.72(a)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	12411	0.50000	0.58(aM)
182	Epichlorohydrin	57	6.127	6.127	(1.234)	1097	2.00000	2.48(aM)
M 94	1,2-Dichloroethylene (total)	96				5677	1.00000	1.17(a)
M 95	Xylenes (total)	106				14325	1.50000	1.63(a)
130	Ethyl Acetate	43	3.717	3.717	(0.889)	2678	0.50000	0.54(aM)
134	Cyclohexanone	55	8.657	8.657	(0.896)	2832	10.0000	0.47(a)
185	Isoprene	39	1.779	1.779	(0.425)	790	0.50000	0.60(a)
188	Isopropyl acetate	43	4.702	4.702	(0.947)	7126	0.50000	0.55(aM)
187	n-Amyl acetate	43	8.489	8.489	(1.107)	4951	0.50000	0.53(aM)
189	n-Butyl acetate	43	7.244	7.244	(0.945)	3227	0.50000	0.43(aM)
150	Allyl alcohol	57	2.779	2.779	(0.665)	2756	10.0000	7.04(M)
195	Methyl Amyl Ketone	43	8.425	8.425	(1.099)	4519	0.50000	0.44(aM)
200	Dimethyl Disulfide	94	6.209	6.209	(0.810)	5577	0.50000	0.54(a)

205 2-Ethylhexyl Acrylate	55	11.615	11.615 (1.202)	2087	0.50000	1.56(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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061504.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 15-JUN-2023 12:18
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 12:18 Cal File: X061504.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	476411	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	4505	1.00000	1.42
3	Chloromethane	50	1.081	1.081	(0.259)	5922	1.00000	2.17
4	Propionitrile	54	3.694	3.694	(0.883)	5974	10.0000	10.36(aM)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	5221	1.00000	1.04
6	Bromomethane	94	1.347	1.347	(0.322)	3161	1.00000	1.10(M)
7	Chloroethane	64	1.403	1.403	(0.336)	3224	1.00000	1.05
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	6281	1.00000	1.05
9	Acrolein	56	1.452	1.452	(0.347)	538	2.00000	1.81(aM)
10	Acetone	43	1.981	1.981	(0.474)	4663	2.00000	3.49(M)
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	4255	1.00000	1.14
12	Isobutyl Alcohol	43	4.687	4.687	(1.121)	12753	20.0000	20.52(a)
13	Acetonitrile	39	2.206	2.206	(0.528)	4200	10.0000	9.08(a)
14	Allyl Chloride	41	2.209	2.209	(0.528)	9998	1.00000	0.95(a)
15	Iodomethane	142	2.029	2.029	(0.485)	6227	2.00000	3.31(M)
16	Acrylonitrile	53	2.592	2.592	(0.620)	2830	2.00000	1.87(M)
17	Methylene Chloride	84	2.311	2.311	(0.553)	6477	1.00000	1.22(M)
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	12904	1.00000	0.99
19	Carbon Disulfide	76	2.074	2.074	(0.496)	28412	2.00000	2.13
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	4869	1.00000	1.09
21	Vinyl Acetate	43	3.030	3.030	(0.725)	25154	2.00000	2.11(M)

22 1,1-Dichloroethane	63	2.925	2.925 (0.700)	8535	1.00000	1.06(M)
23 Chloroprene	53	1.782	1.782 (0.426)	1506	1.00000	0.95(aM)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	3.675	3.675	(0.879)	2970	2.00000	1.89(M)
	25	Methacrylonitrile	41	3.859	3.859	(0.923)	4503	1.00000	1.14(aH)
	26	2,2-Dichloropropane	77	3.506	3.506	(0.839)	7438	1.00000	1.16
	27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.845)	5641	1.00000	1.09
	28	Chloroform	83	3.908	3.908	(0.935)	9991	1.00000	1.15
	29	Bromochloromethane	128	3.803	3.803	(0.909)	3072	1.00000	1.12
$	30	Dibromofluoromethane	113	4.106	4.106	(0.982)	5707	1.00000	1.00
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	7437	1.00000	1.06
	32	1,1-Dichloropropene	75	4.286	4.286	(0.863)	5846	1.00000	0.93
	33	1,2-Dichloroethane	62	4.571	4.571	(0.921)	6607	1.00000	1.05
	34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	6002	1.00000	1.00
$	35	1,2-Dichloroethane-d4	65	4.481	4.481	(1.072)	6368	1.00000	0.55
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	742460	50.0000	
	37	Benzene	78	4.522	4.522	(0.911)	20769	1.00000	1.08
	38	Trichloroethene	130	5.216	5.216	(1.051)	5205	1.00000	0.98(a)
	39	Bromodichloromethane	83	5.729	5.729	(1.154)	7957	1.00000	1.17(a)
	40	Methyl Methacrylate	41	5.624	5.624	(1.345)	3817	1.00000	1.03(aM)
	41	2-Chloroethylvinyl ether	63	6.074	6.074	(1.223)	3674	2.00000	2.00(aM)
	42	1,2-Dichloropropane	63	5.441	5.441	(1.096)	4954	1.00000	0.98(aM)
	43	2-Nitropropane	43	5.977	5.977	(1.429)	1148	1.00000	0.89(aH)
	44	Dibromomethane	93	5.561	5.561	(1.120)	3549	1.00000	1.12(a)
	45	4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	9202	2.00000	2.06(aM)
	46	cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	8393	1.00000	1.00(a)
*	47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	689452	50.0000	
$	48	Toluene-d8	98	6.393	6.393	(0.834)	19747	1.00000	1.13(a)
	49	Ethyl Methacrylate	69	6.798	6.798	(1.369)	6487	1.00000	0.95(aMH)
	50	Toluene	91	6.457	6.457	(0.842)	20722	1.00000	1.02(a)
	51	trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	7608	1.00000	1.09(a)
	52	2-Hexanone	43	7.116	7.116	(0.928)	5813	2.00000	1.95(a)
	53	1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	4096	1.00000	1.03(a)
	54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	8386	1.00000	1.05(a)
	55	Dibromochloromethane	129	7.184	7.184	(0.937)	5861	1.00000	1.04(a)
	56	Tetrachloroethene	164	6.929	6.929	(0.904)	4148	1.00000	0.99(a)
	57	1,2-Dibromoethane	107	7.266	7.266	(0.948)	5555	1.00000	1.10(a)
	58	1-Chlorohexane	55	7.697	7.697	(1.550)	4565	1.00000	1.01(a)
	59	Chlorobenzene	112	7.697	7.697	(1.004)	14514	1.00000	1.04(a)
	60	1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	5613	1.00000	1.08(a)
	61	Ethylbenzene	106	7.806	7.806	(1.018)	7471	1.00000	1.04(a)
	62	m,p-Xylenes	106	7.911	7.911	(1.032)	16779	2.00000	1.90(a)
	63	o-Xylene	106	8.248	8.248	(1.076)	9263	1.00000	1.05(a)
	64	Styrene	104	8.286	8.286	(1.081)	14673	1.00000	1.01(a)
	66	Bromoform	173	8.417	8.417	(1.098)	3884	1.00000	0.99(Ta)
	67	Isopropylbenzene	105	8.563	8.563	(1.117)	21399	1.00000	0.98(a)
	68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	7862	1.00000	1.18(a)
$	69	4-Bromofluorobenzene	95	8.698	8.698	(1.134)	11345	1.00000	1.16(a)
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	377369	50.0000	
	71	1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	4849	1.00000	1.01(a)
	72	trans-1,4-Dichloro-2-butene	53	8.919	8.919	(1.163)	1668	1.00000	0.99(aM)
	73	n-Propylbenzene	91	8.919	8.919	(0.923)	22989	1.00000	0.92(a)
	74	Bromobenzene	156	8.818	8.818	(0.913)	6344	1.00000	1.03(a)
	75	1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	18052	1.00000	0.99(a)
	76	2-Chlorotoluene	91	8.983	8.983	(0.930)	17472	1.00000	1.10(a)

77	4-Chlorotoluene	91	9.088	9.088 (0.941)	17079	1.00000	0.97(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	14794	1.00000	0.97(a)

	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	9.384	9.384	(0.971)	18527	1.00000	1.00(a)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	21044	1.00000	0.98(a)
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	17481	1.00000	0.93(a)
83	1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	11009	1.00000	1.00(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	12708	1.00000	1.08(a)
86	Benzyl Chloride	91	9.830	9.830	(1.282)	11104	1.00000	0.97(a)
87	n-Butylbenzene	91	10.014	10.014	(1.036)	13132	1.00000	0.82(aM)
88	1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	10599	1.00000	0.97(a)
89	1,2-Dibromo-3-Chloropropane	155	10.674	10.674	(1.105)	1184	1.00000	1.34(a)
90	1,2,4-Trichlorobenzene	180	11.364	11.364	(1.176)	7174	1.00000	0.94(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	3283	1.00000	0.96(a)
92	Naphthalene	128	11.570	11.570	(1.197)	14944	1.00000	0.87(a)
93	1,2,3-Trichlorobenzene	180	11.750	11.750	(1.216)	6263	1.00000	0.90(a)
146	Methyl acetate	43	2.258	2.258	(0.540)	2984	1.00000	1.05(a)
138	Freon TF	101	1.921	1.921	(0.459)	3869	1.00000	1.20(a)
141	Cyclohexane	56	4.121	4.121	(0.986)	5865	1.00000	0.96(aH)
142	Tetrahydrofuran	42	3.863	3.863	(0.924)	1350	2.00000	1.94(aM)
147	Methylcyclohexane	55	5.373	5.373	(1.082)	9209	1.00000	0.88(aM)
135	1,4-Dioxane	88	5.613	5.613	(1.342)	1286	20.0000	22.27(M)
132	n-Butanol	56	5.370	5.370	(1.284)	2023	20.0000	80.30(aM)
131	Methyl Acrylate	55	3.750	3.750	(0.897)	3465	1.00000	0.89(aM)
133	Ethyl Acrylate	55	5.422	5.422	(1.297)	8042	1.00000	3.07(M)
136	n-Hexane	57	2.775	2.775	(0.664)	4190	1.00000	0.77(a)
139	Diethyl ether	59	1.767	1.767	(0.423)	3143	1.00000	1.05(a)
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	11634	20.0000	23.78
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	6463	20.0000	23.93
156	Diisopropyl ether	45	3.012	3.012	(0.720)	13921	1.00000	0.99(Ta)
160	2-Methylnaphthalene	142	12.668	12.668	(1.311)	6245	1.00000	0.83(a)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	17649	1.00000	0.98(a)
167	Ethanol	45	1.707	1.707	(0.408)	953	20.0000	20.92(M)
172	tert-Butyl formate	59	4.627	4.627	(1.107)	8761	2.00000	2.23(aM)
173	3,3-Dimethyl-1-butanol	57	7.296	7.296	(0.952)	12186	20.0000	21.61(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	15782	1.00000	1.03(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	14971	1.00000	1.02(a)
176	tert-Amyl alcohol	59	4.627	4.627	(1.107)	8761	20.0000	21.89(M)
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	26840	20.0000	22.73(M)
180	1-Methylnaphthalene	142	12.668	12.668	(1.311)	6245	1.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	4172	1.00000	1.05(a)
152	Amyl alcohol	42	6.981	6.981	(0.911)	2449	20.0000	19.06(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	6498	1.00000	0.94(M)
159	Propylene oxide	43	1.812	1.812	(0.433)	1041	2.00000	2.46(a)
161	3-Methyl-1-butanol	55	6.951	6.951	(0.907)	2518	20.0000	53.71(M)
162	Butyl acrylate	55	8.278	8.278	(1.080)	6899	1.00000	1.21(a)
163	Butyl methacrylate	41	9.182	9.182	(0.950)	6113	1.00000	0.96(a)
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	21021	1.00000	0.99(aM)
182	Epichlorohydrin	57	6.119	6.119	(1.233)	2012	4.00000	4.53(aM)
M 94	1,2-Dichloroethylene (total)	96				10510	2.00000	2.18(a)
M 95	Xylenes (total)	106				26042	3.00000	2.96(a)
130	Ethyl Acetate	43	3.694	3.694	(0.883)	5317	1.00000	1.09(aM)
134	Cyclohexanone	55	8.653	8.653	(0.896)	5123	20.0000	11.33(a)
185	Isoprene	39	1.778	1.778	(0.425)	1889	1.00000	1.45(a)
188	Isopropyl acetate	43	4.687	4.687	(0.944)	12045	1.00000	0.93(a)

187 n-Amyl acetate	43	8.477	8.477 (1.106)	10084	1.00000	1.09(aM)
189 n-Butyl acetate	43	7.233	7.233 (0.943)	7115	1.00000	0.96(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.775	2.775	(0.664)	4190	20.0000	14.15
195 Methyl Amyl Ketone	43	8.410	8.410	(1.097)	8974	1.00000	0.88(a)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	9210	1.00000	0.90(a)
202 Isobutylene	41	1.242	1.242	(0.297)	500	1.00000	1.09(aM)
205 2-Ethylhexyl Acrylate	55	11.577	11.577	(1.198)	3400	1.00000	1.74(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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D Page 1
Report Date: 20-Jun-2023 18:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 15-JUN-2023 12:39
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 12:39 Cal File: X061505.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.178	4.181	(1.000)	491447	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	9827	2.00000	2.63
3	Chloromethane	50	1.081	1.081	(0.259)	11295	2.00000	3.15(M)
4	Propionitrile	54	3.675	3.653	(0.880)	10893	20.0000	18.32(a)
5	Vinyl Chloride	62	1.145	1.149	(0.274)	11284	2.00000	2.18(M)
6	Bromomethane	94	1.347	1.344	(0.323)	6397	2.00000	2.15
7	Chloroethane	64	1.404	1.407	(0.336)	6480	2.00000	2.05(M)
8	Trichlorofluoromethane	101	1.561	1.565	(0.374)	13596	2.00000	2.21(M)
9	Acrolein	56	1.449	1.449	(0.347)	1177	4.00000	3.85(aM)
10	Acetone	43	1.977	1.973	(0.473)	7818	4.00000	5.84
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	8233	2.00000	2.13(M)
12	Isobutyl Alcohol	43	4.680	4.676	(1.120)	25931	40.0000	40.46(a)
13	Acetonitrile	39	2.210	2.202	(0.529)	9828	20.0000	20.61(a)
14	Allyl Chloride	41	2.210	2.202	(0.529)	21197	2.00000	1.96(a)
15	Iodomethane	142	2.030	2.030	(0.486)	14998	4.00000	4.64
16	Acrylonitrile	53	2.577	2.536	(0.617)	6148	4.00000	3.94(M)
17	Methylene Chloride	84	2.311	2.307	(0.553)	10372	2.00000	1.90(M)
18	Methyl tert-butyl ether	73	2.539	2.536	(0.608)	28898	2.00000	2.15
19	Carbon Disulfide	76	2.071	2.071	(0.496)	57380	4.00000	4.18
20	trans-1,2-Dichloroethene	96	2.539	2.532	(0.608)	9744	2.00000	2.11
21	Vinyl Acetate	43	3.019	2.997	(0.723)	44460	4.00000	3.61(M)

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	17688	2.00000	2.13
23 Chloroprene	53	1.775	1.775 (0.425)	3814	2.00000	2.33(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.660	3.578	(0.876)	6420	4.00000	3.96(M)
25	Methacrylonitrile	41	3.859	3.821	(0.924)	6777	2.00000	1.67(aH)
26	2,2-Dichloropropane	77	3.510	3.514	(0.840)	15188	2.00000	2.31
27	cis-1,2-Dichloroethene	96	3.529	3.525	(0.845)	10709	2.00000	2.01
28	Chloroform	83	3.912	3.904	(0.936)	19699	2.00000	2.20
29	Bromochloromethane	128	3.799	3.795	(0.909)	6232	2.00000	2.20
$ 30	Dibromofluoromethane	113	4.110	4.099	(0.984)	9855	2.00000	1.91
31	1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	15758	2.00000	2.18
32	1,1-Dichloropropene	75	4.283	4.279	(0.863)	13845	2.00000	2.18
33	1,2-Dichloroethane	62	4.568	4.556	(0.920)	11862	2.00000	1.86
34	Carbon Tetrachloride	117	4.268	4.264	(0.860)	13225	2.00000	2.16(M)
$ 35	1,2-Dichloroethane-d4	65	4.485	4.470	(1.074)	11054	2.00000	1.51
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	756725	50.0000	
37	Benzene	78	4.519	4.511	(0.910)	40051	2.00000	2.05
38	Trichloroethene	130	5.209	5.205	(1.049)	11520	2.00000	2.14(a)
39	Bromodichloromethane	83	5.726	5.722	(1.153)	13844	2.00000	2.01(a)
40	Methyl Methacrylate	41	5.625	5.606	(1.346)	6671	2.00000	1.75(a)
41	2-Chloroethylvinyl ether	63	6.067	6.048	(1.222)	7359	4.00000	3.94(a)
42	1,2-Dichloropropane	63	5.433	5.437	(1.094)	10261	2.00000	2.00(aM)
43	2-Nitropropane	43	5.973	5.966	(1.430)	2410	2.00000	1.81(aH)
44	Dibromomethane	93	5.561	5.550	(1.120)	6792	2.00000	2.11(a)
45	4-Methyl-2-Pentanone	43	6.333	6.322	(0.826)	18797	4.00000	4.09(a)
46	cis-1,3-Dichloropropene	75	6.164	6.153	(1.242)	16469	2.00000	1.93(a)
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	710505	50.0000	
$ 48	Toluene-d8	98	6.393	6.386	(0.834)	37063	2.00000	2.06(a)
49	Ethyl Methacrylate	69	6.719	6.708	(1.353)	11631	2.00000	2.14(aM)
50	Toluene	91	6.453	6.445	(0.842)	44414	2.00000	2.12(a)
51	trans-1,3-Dichloropropene	75	6.689	6.678	(1.347)	13530	2.00000	1.90(a)
52	2-Hexanone	43	7.105	7.083	(0.927)	12601	4.00000	4.11(a)
53	1,1,2-Trichloroethane	83	6.843	6.835	(0.892)	8751	2.00000	2.15(a)
54	1,3-Dichloropropane	76	6.985	6.978	(0.911)	16399	2.00000	1.99(a)
55	Dibromochloromethane	129	7.180	7.173	(0.936)	11673	2.00000	2.02(a)
56	Tetrachloroethene	164	6.929	6.925	(0.904)	9492	2.00000	2.21(a)
57	1,2-Dibromoethane	107	7.263	7.259	(0.947)	10319	2.00000	1.98(a)
58	1-Chlorohexane	55	7.701	7.694	(1.551)	10171	2.00000	2.21(a)
59	Chlorobenzene	112	7.698	7.690	(1.004)	29078	2.00000	2.03(a)
60	1,1,1,2-Tetrachloroethane	131	7.776	7.773	(1.014)	10908	2.00000	2.04(a)
61	Ethylbenzene	106	7.806	7.799	(1.018)	15525	2.00000	2.11(a)
62	m,p-Xylenes	106	7.908	7.900	(1.031)	37098	4.00000	4.09(a)
63	o-Xylene	106	8.245	8.237	(1.075)	19383	2.00000	2.14(a)
64	Styrene	104	8.271	8.256	(1.079)	29379	2.00000	1.97(a)
66	Bromoform	173	8.414	8.410	(1.097)	7721	2.00000	1.92(Ta)
67	Isopropylbenzene	105	8.564	8.560	(1.117)	47118	2.00000	2.10(a)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.837	(0.915)	14437	2.00000	2.11(a)
$ 69	4-Bromofluorobenzene	95	8.695	8.687	(1.134)	16470	2.00000	1.86(a)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	388397	50.0000	
71	1,2,3-Trichloropropane	75	8.867	8.863	(0.918)	10499	2.00000	2.14(a)
72	trans-1,4-Dichloro-2-butene	53	8.905	8.886	(1.161)	3093	2.00000	1.78(aM)
73	n-Propylbenzene	91	8.916	8.908	(0.923)	55786	2.00000	2.18(a)
74	Bromobenzene	156	8.815	8.803	(0.912)	13387	2.00000	2.11(aM)
75	1,3,5-Trimethylbenzene	105	9.070	9.066	(0.939)	39913	2.00000	2.12(a)
76	2-Chlorotoluene	91	8.976	8.972	(0.929)	35737	2.00000	2.20(a)

77	4-Chlorotoluene	91	9.081	9.070 (0.940)	39085	2.00000	2.15(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	34187	2.00000	2.18(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D Page 3
Report Date: 20-Jun-2023 18:25

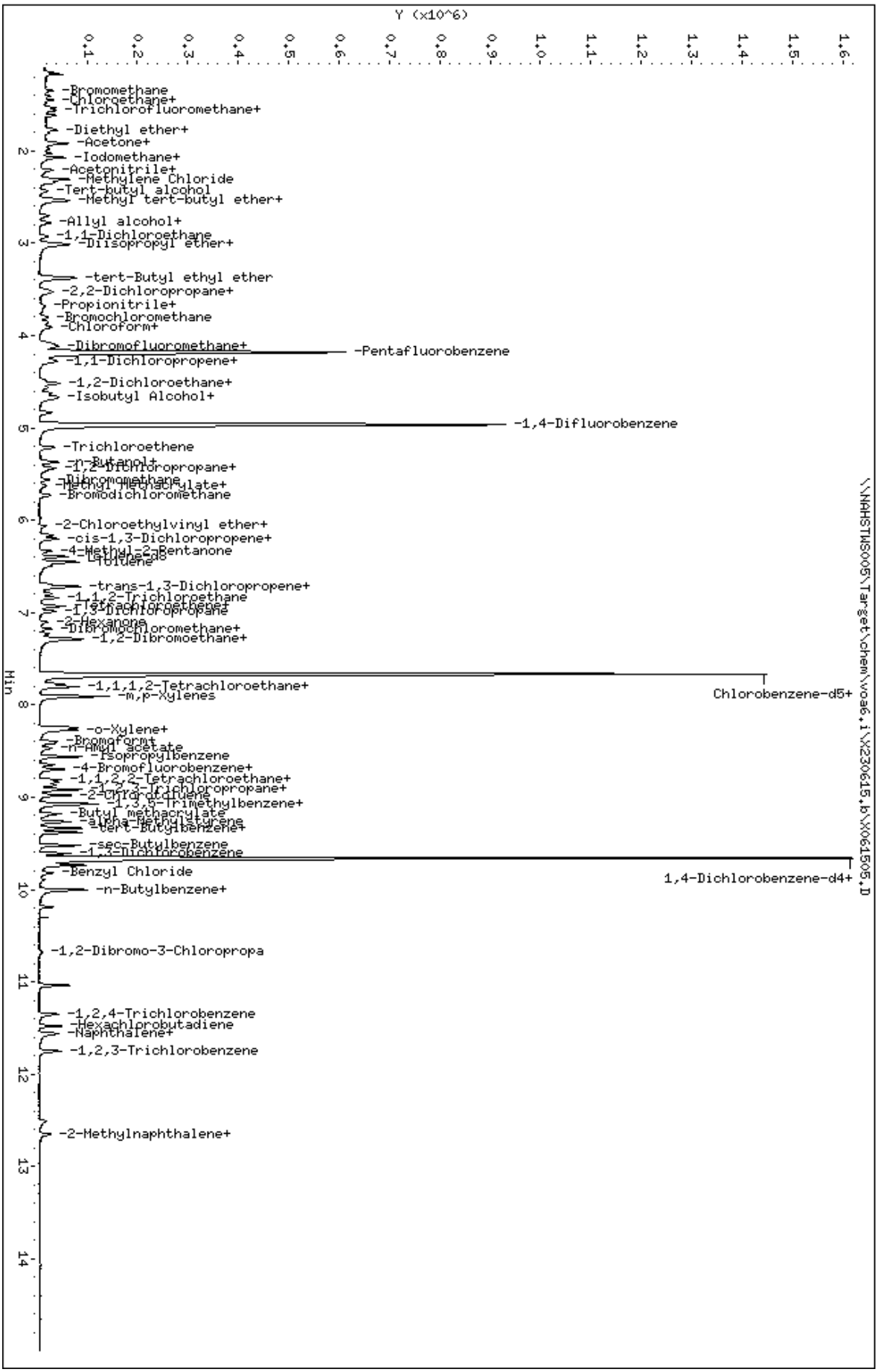
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	39036	2.00000	2.06(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	46617	2.00000	2.11(a)
82	p-Isopropyltoluene	119	9.651	9.647	(0.999)	40965	2.00000	2.12(a)
83	1,3-Dichlorobenzene	146	9.609	9.602	(0.995)	22900	2.00000	2.03(a)
84	1,4-Dichlorobenzene	146	9.684	9.681	(1.002)	26087	2.00000	2.16(a)
86	Benzyl Chloride	91	9.816	9.808	(1.280)	20389	2.00000	1.73(aM)
87	n-Butylbenzene	91	10.003	9.992	(1.035)	33064	2.00000	2.01(a)
88	1,2-Dichlorobenzene	146	10.003	9.992	(1.035)	23526	2.00000	2.10(a)
89	1,2-Dibromo-3-Chloropropane	155	10.674	10.655	(1.105)	2351	2.00000	2.36(a)
90	1,2,4-Trichlorobenzene	180	11.353	11.334	(1.175)	14424	2.00000	1.85(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	7390	2.00000	2.11(a)
92	Naphthalene	128	11.562	11.540	(1.197)	32050	2.00000	1.82(a)
93	1,2,3-Trichlorobenzene	180	11.750	11.739	(1.216)	14223	2.00000	1.98(a)
146	Methyl acetate	43	2.247	2.232	(0.538)	5157	2.00000	1.77(aM)
138	Freon TF	101	1.921	1.917	(0.460)	8361	2.00000	2.50(aM)
141	Cyclohexane	56	4.125	4.121	(0.987)	13787	2.00000	2.20(aMH)
142	Tetrahydrofuran	42	3.863	3.844	(0.925)	2899	4.00000	4.04(a)
147	Methylcyclohexane	55	5.370	5.381	(1.082)	20990	2.00000	1.98(aM)
135	1,4-Dioxane	88	5.613	5.598	(1.344)	2444	40.0000	41.03(M)
132	n-Butanol	56	5.355	5.253	(1.282)	3179	40.0000	88.25(aM)
131	Methyl Acrylate	55	3.735	3.690	(0.894)	8064	2.00000	2.02(aM)
133	Ethyl Acrylate	55	5.407	5.381	(1.294)	14275	2.00000	3.59(M)
136	n-Hexane	57	2.776	2.776	(0.664)	10696	2.00000	2.27(aM)
139	Diethyl ether	59	1.764	1.760	(0.422)	6390	2.00000	2.07(a)
148	Tert-butyl alcohol	59	2.438	2.431	(0.584)	20278	40.0000	40.18
149	Isopropyl alcohol	45	2.105	2.093	(0.504)	11338	40.0000	40.70(T)
156	Diisopropyl ether	45	3.001	3.000	(0.718)	28799	2.00000	1.98(Ta)
160	2-Methylnaphthalene	142	12.646	12.634	(1.309)	12286	2.00000	1.60
166	1,2,3-Trimethylbenzene	105	9.733	9.729	(1.007)	38504	2.00000	2.08(a)
167	Ethanol	45	1.700	1.707	(0.407)	2336	40.0000	49.73(TM)
172	tert-Butyl formate	59	4.627	4.612	(1.108)	16716	4.00000	4.13(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.285	(0.951)	26671	40.0000	45.89
174	tert-Amyl methyl ether	73	4.669	4.665	(1.118)	32910	2.00000	2.08(aM)
175	tert-Butyl ethyl ether	59	3.375	3.379	(0.808)	30807	2.00000	2.05(a)
176	tert-Amyl alcohol	59	4.627	4.612	(1.108)	16715	40.0000	40.49
151	4-Methyl-2-pentanol	45	6.715	6.708	(1.353)	56864	40.0000	47.25(M)
180	1-Methylnaphthalene	142	12.646	12.634	(1.309)	12286	2.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	8478	2.00000	2.08(aM)
152	Amyl alcohol	42	6.944	6.899	(0.906)	5090	40.0000	38.44(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	15880	2.00000	2.24(M)
159	Propylene oxide	43	1.809	1.805	(0.433)	2196	4.00000	5.04
161	3-Methyl-1-butanol	55	6.937	6.899	(0.905)	3850	40.0000	62.56(M)
162	Butyl acrylate	55	8.267	8.249	(1.078)	19207	2.00000	2.35(a)
163	Butyl methacrylate	41	9.178	9.167	(0.950)	13349	2.00000	2.04(a)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	45923	2.00000	2.11(aM)
182	Epichlorohydrin	57	6.112	6.093	(1.231)	3820	8.00000	8.43(M)
M 94	1,2-Dichloroethylene (total)	96				20453	4.00000	(a)
130	Ethyl Acetate	43	3.672	3.657	(0.879)	10775	2.00000	2.15(Ta)
134	Cyclohexanone	55	8.650	8.642	(0.895)	11759	40.0000	41.26(a)
185	Isoprene	39	1.779	1.775	(0.426)	3339	2.00000	2.49(a)
188	Isopropyl acetate	43	4.680	4.676	(0.943)	24959	2.00000	1.90(a)
187	n-Amyl acetate	43	8.470	8.451	(1.105)	18078	2.00000	1.90(aM)

189 n-Butyl acetate	43	7.229	7.210 (0.943)	14580	2.00000	1.91(aM)
150 Allyl alcohol	57	2.776	2.772 (0.664)	11222	40.0000	46.69

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.209	1.216	(0.289)	4310	8.00000	13.50(M)
195 Methyl Amyl Ketone	43	8.395	8.380	(1.095)	20788	2.00000	1.98(a)
200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	20124	2.00000	1.90(a)
202 Isobutylene	41	1.246	1.242	(0.298)	964	2.00000	2.05(aM)
205 2-Ethylhexyl Acrylate	55	11.566	11.544	(1.197)	8837	2.00000	2.46(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.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230615.b\X061505.D
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Column phase: DB624

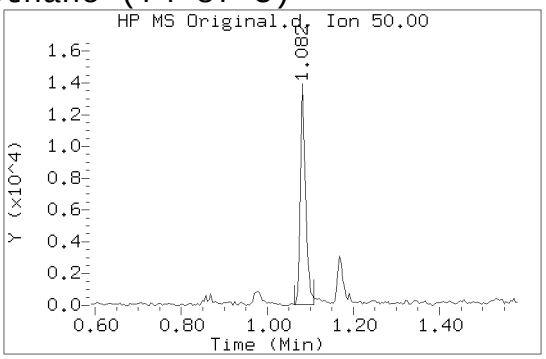
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LabSampID : VSTD002

Chloromethane (74-87-3)

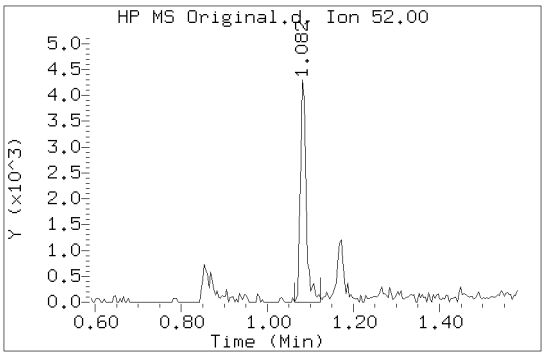
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BEFORE

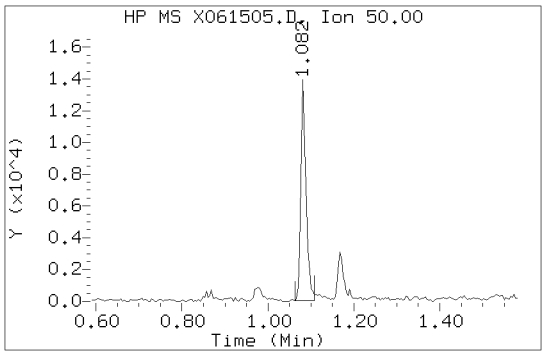
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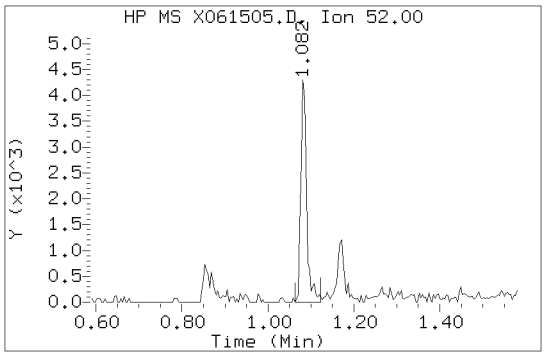
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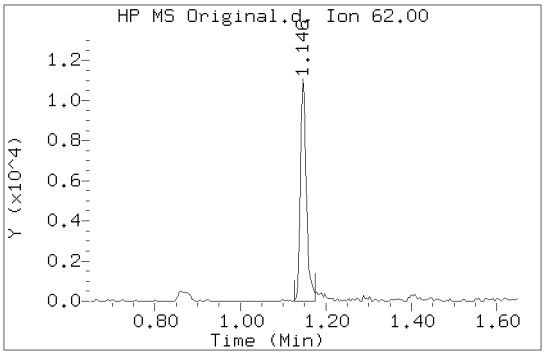
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Vinyl Chloride (75-01-4)

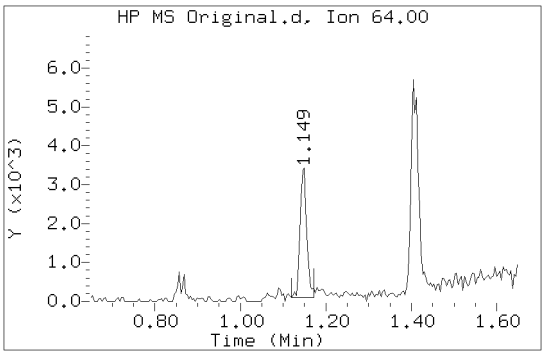
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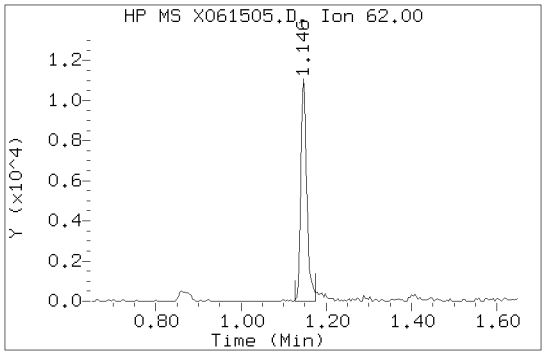
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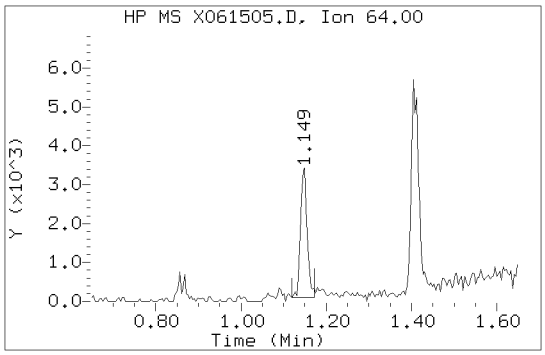
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20-Jun-2023
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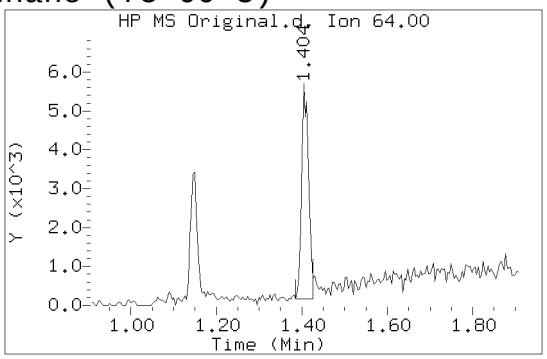
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InstruID : voa6.i
LabSampID : VSTD002

Chloroethane (75-00-3)

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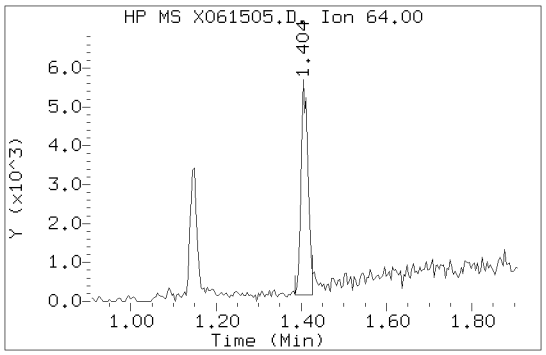
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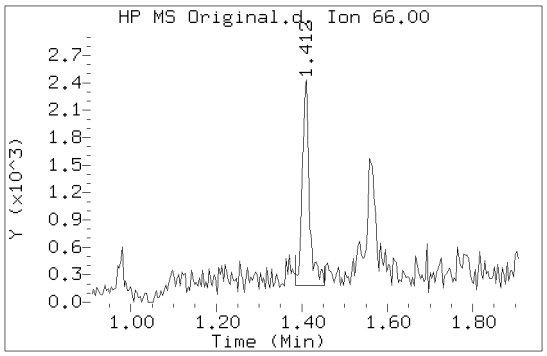
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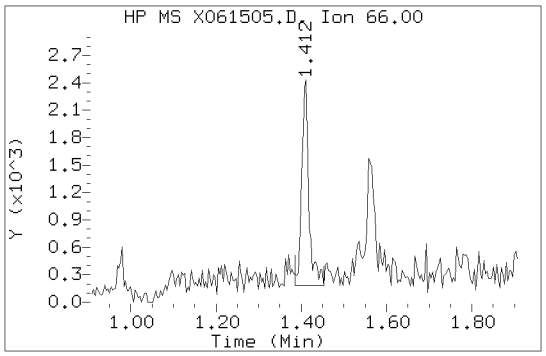
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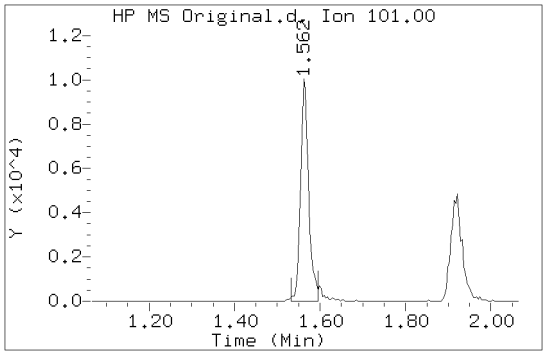


Trichlorofluoromethane (75-69-4)

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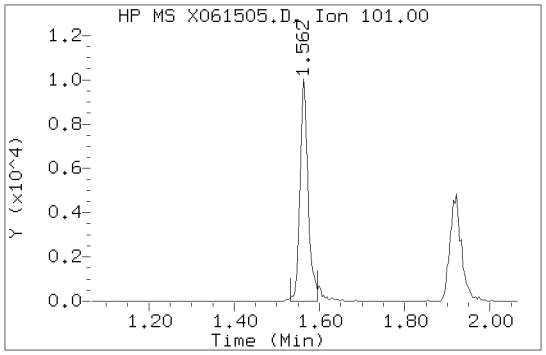
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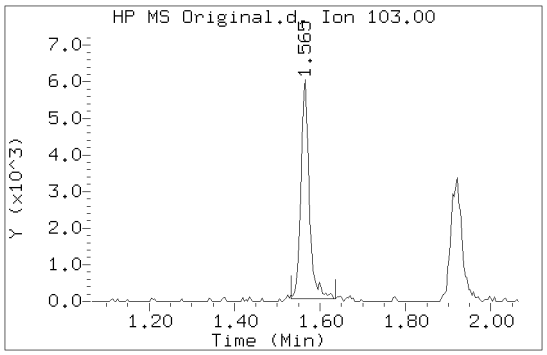
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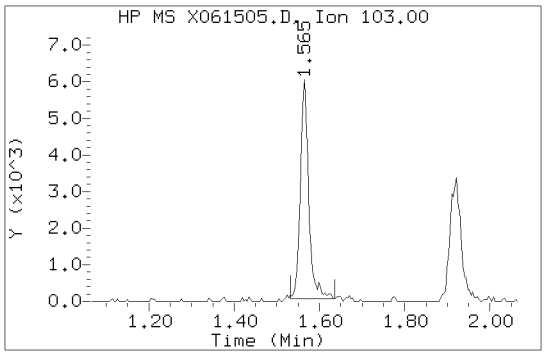
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AFTER

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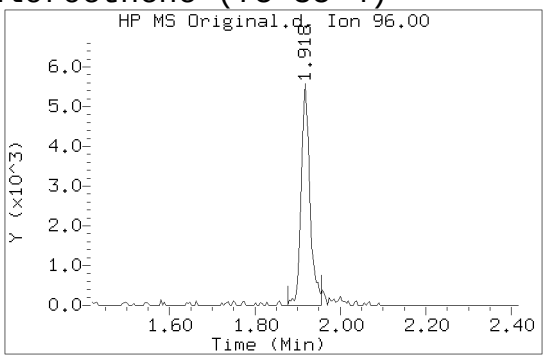
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LabSampID : VSTD002

1,1-Dichloroethene (75-35-4)

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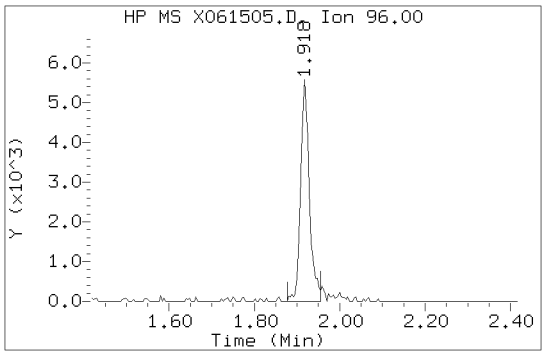
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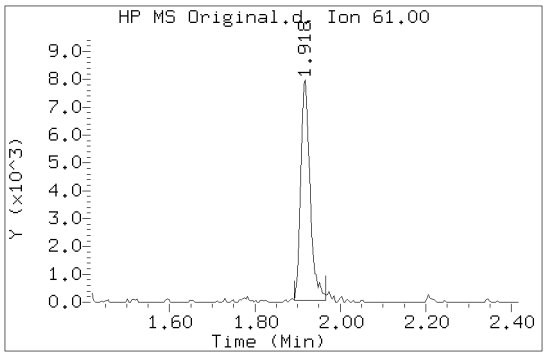
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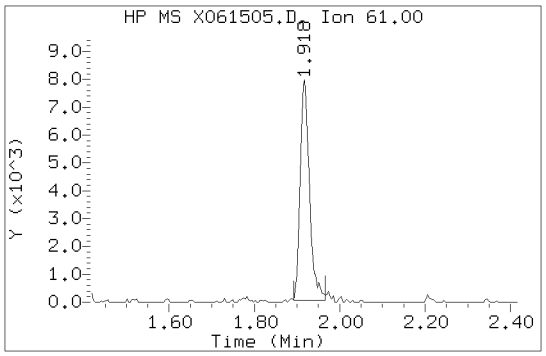
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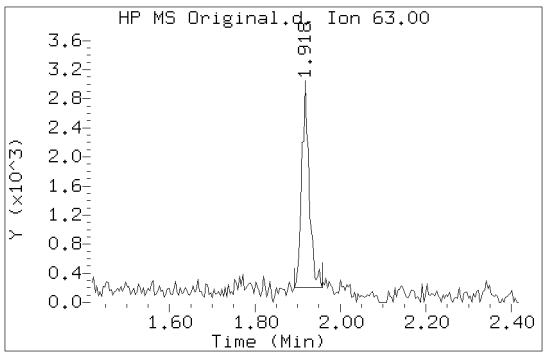
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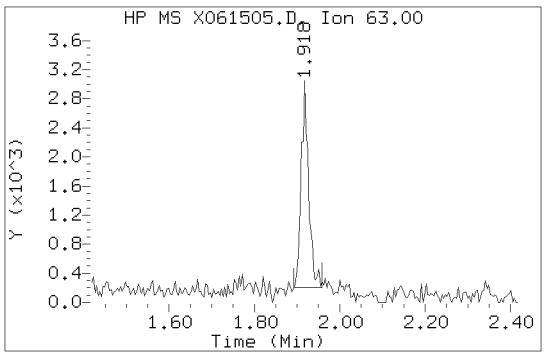
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AFTER

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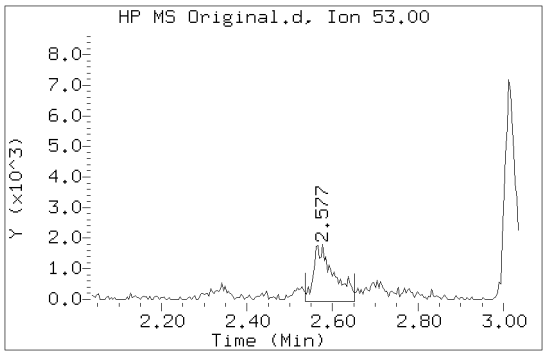


Acrylonitrile (107-13-1)

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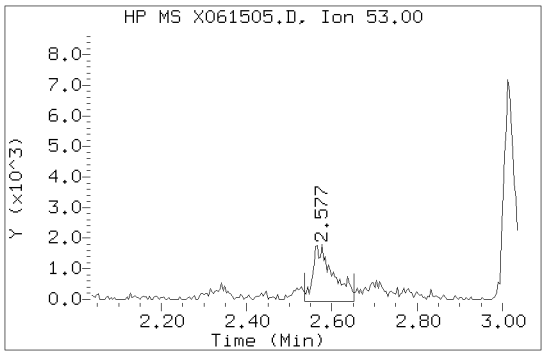
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AFTER

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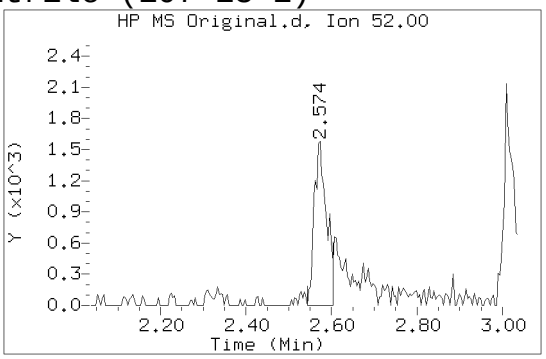


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LabSampID : VSTD002

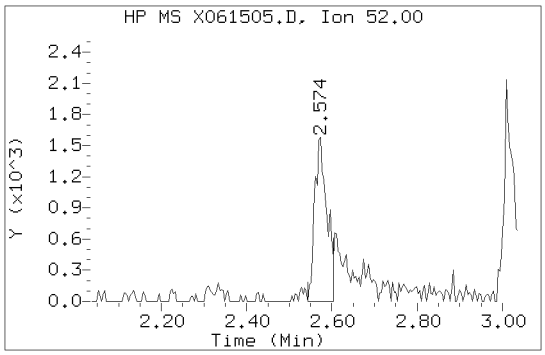
Acrylonitrile (107-13-1)

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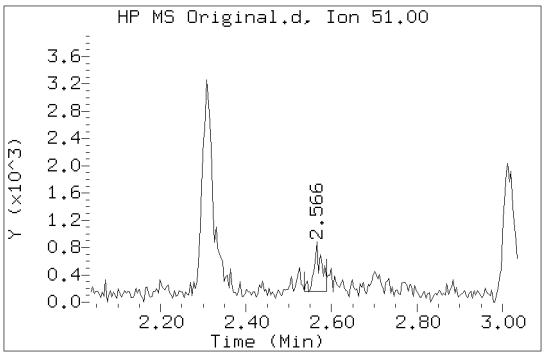
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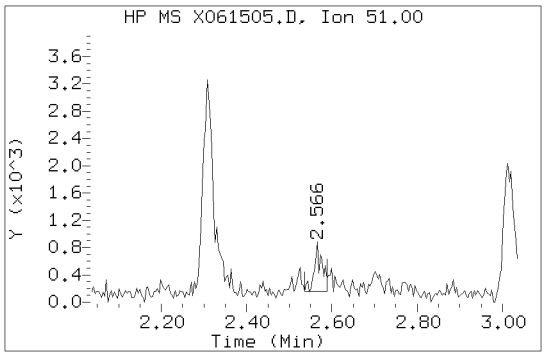
AFTER
MASS
52
AREA
3159
HEIGHT
1580
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
51
AREA
891
HEIGHT
729
20-Jun-2023
18:22
linh
pham



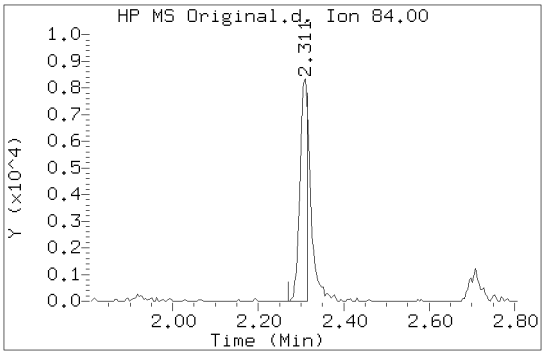
AFTER
MASS
51
AREA
891
HEIGHT
729
20-Jun-2023
18:22
linh
pham



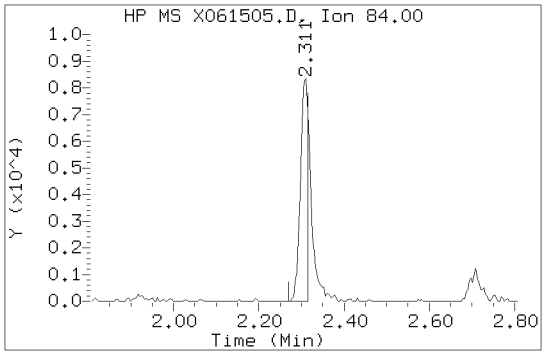
Methylene Chloride (75-09-2)

Reason Code:

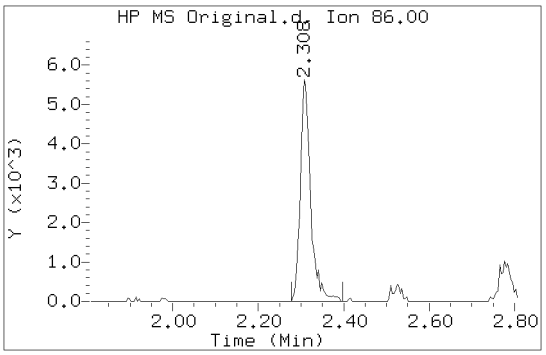
BEFORE
MASS
84
AREA
10372
HEIGHT
8340
20-Jun-2023
18:22
linh
pham



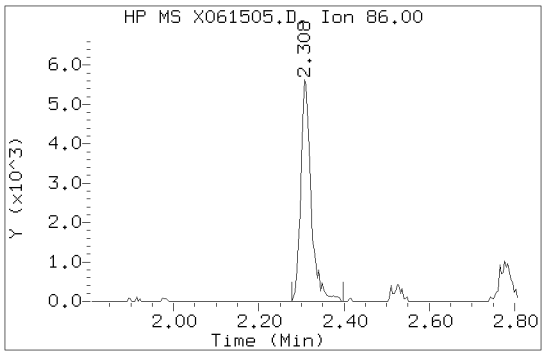
AFTER
MASS
84
AREA
10372
HEIGHT
8340
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
86
AREA
9744
HEIGHT
5630
20-Jun-2023
18:22
linh
pham



AFTER
MASS
86
AREA
9744
HEIGHT
5630
20-Jun-2023
18:22
linh
pham



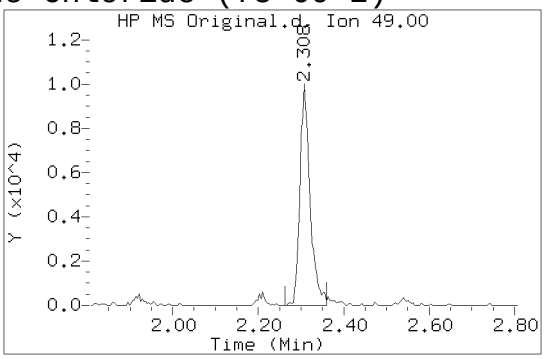
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Methylene Chloride (75-09-2)

Reason Code:

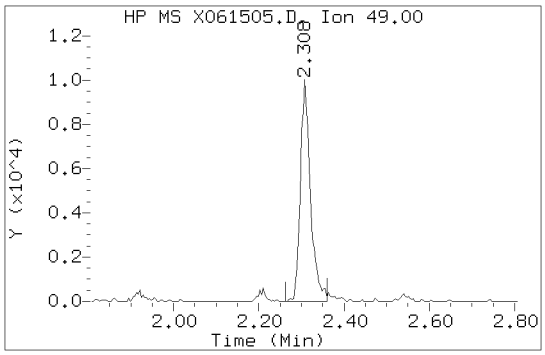
BEFORE

MASS
49
AREA
16901
HEIGHT
10016
20-Jun-2023
18:22
linh
pham



AFTER

MASS
49
AREA
16901
HEIGHT
10016
20-Jun-2023
18:22
linh
pham

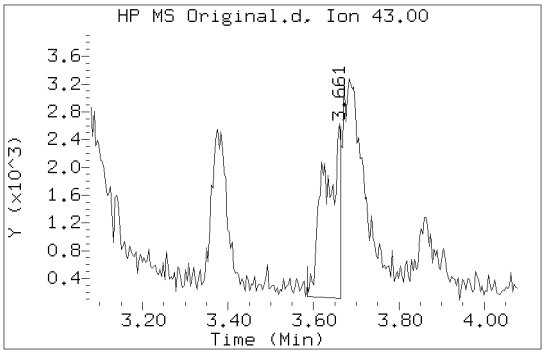


2-Butanone (78-93-3)

Reason Code:

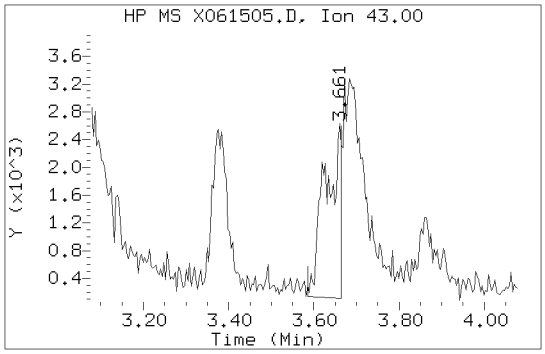
BEFORE

MASS
43
AREA
6420
HEIGHT
2515
20-Jun-2023
18:22
linh
pham



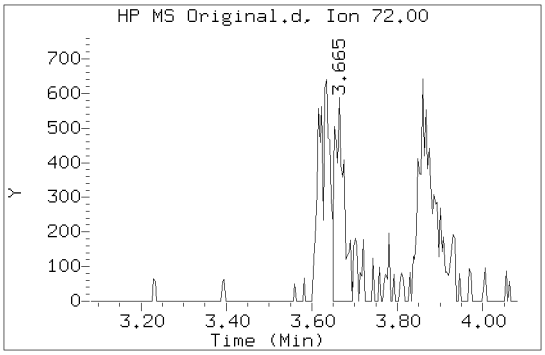
AFTER

MASS
43
AREA
6420
HEIGHT
2515
20-Jun-2023
18:22
linh
pham



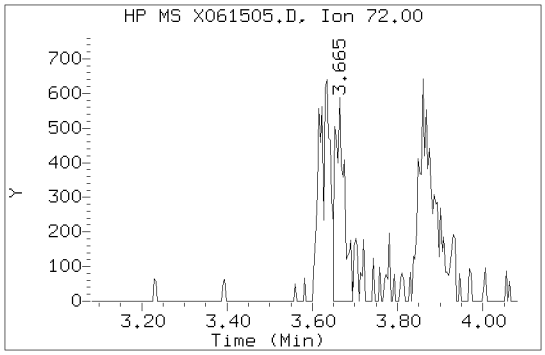
BEFORE

MASS
72
AREA
878
HEIGHT
589
20-Jun-2023
18:22
linh
pham



AFTER

MASS
72
AREA
878
HEIGHT
589
20-Jun-2023
18:22
linh
pham

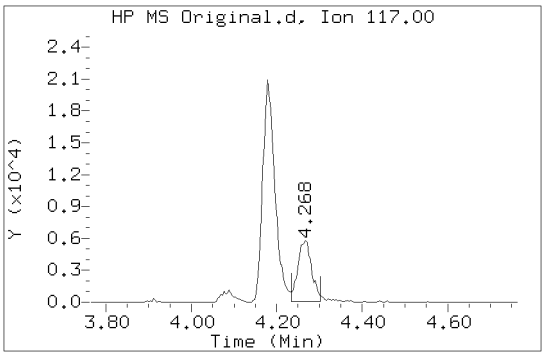


Carbon Tetrachloride (56-23-5)

Reason Code:

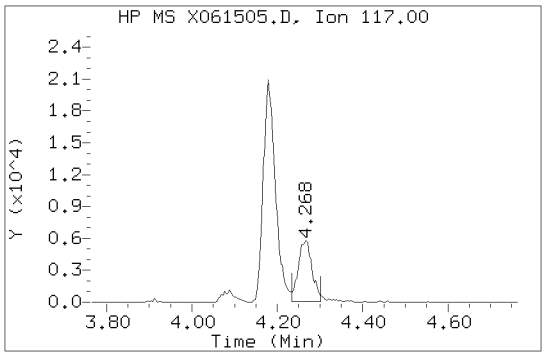
BEFORE

MASS
117
AREA
13225
HEIGHT
5768
20-Jun-2023
18:22
linh
pham



AFTER

MASS
117
AREA
13225
HEIGHT
5768
20-Jun-2023
18:22
linh
pham



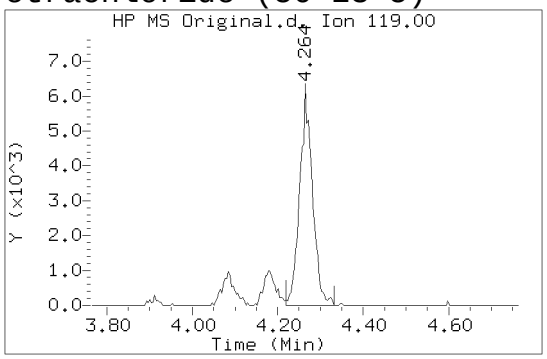
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

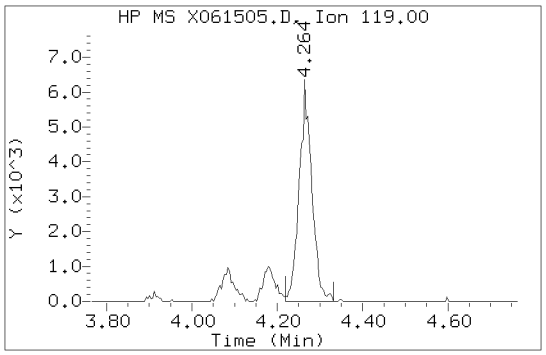
BEFORE

MASS
119
AREA
13241
HEIGHT
6356
20-Jun-2023
18:22
linh
pham



AFTER

MASS
119
AREA
13241
HEIGHT
6356
20-Jun-2023
18:22
linh
pham

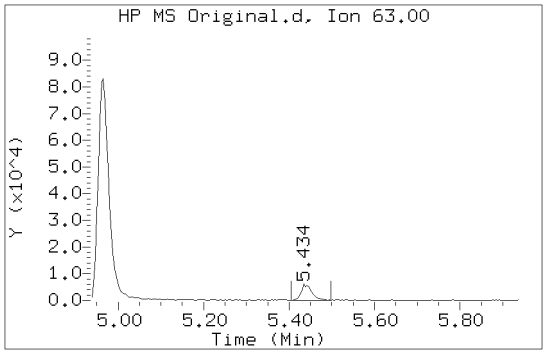


1,2-Dichloropropane (78-87-5)

Reason Code:

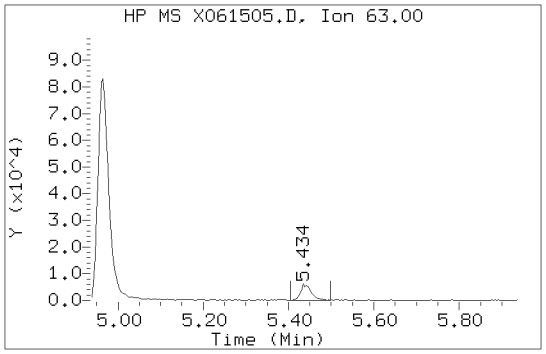
BEFORE

MASS
63
AREA
10261
HEIGHT
6073
20-Jun-2023
18:22
linh
pham



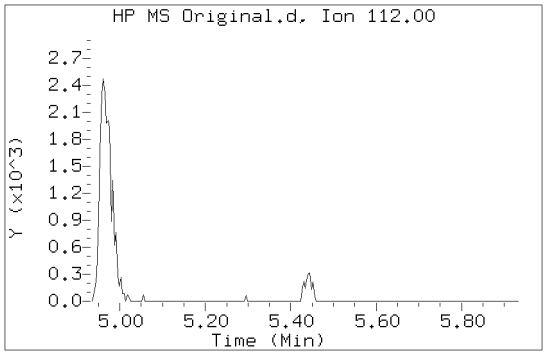
AFTER

MASS
63
AREA
10261
HEIGHT
6073
20-Jun-2023
18:22
linh
pham



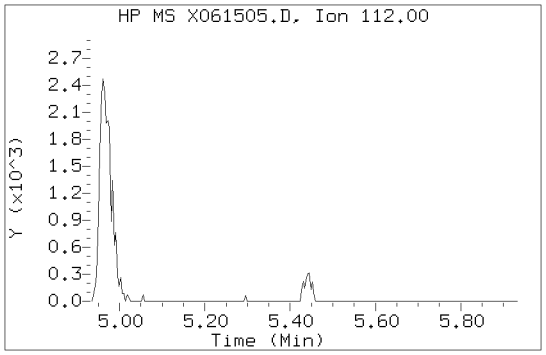
BEFORE

MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

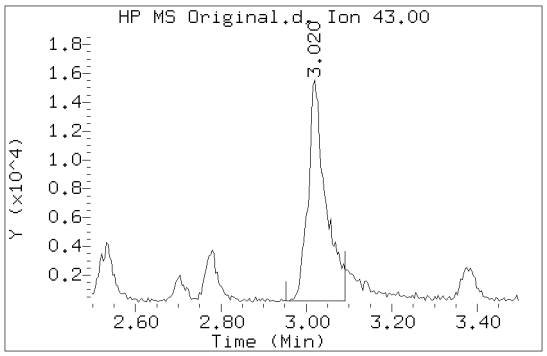


Vinyl Acetate (108-05-4)

Reason Code:

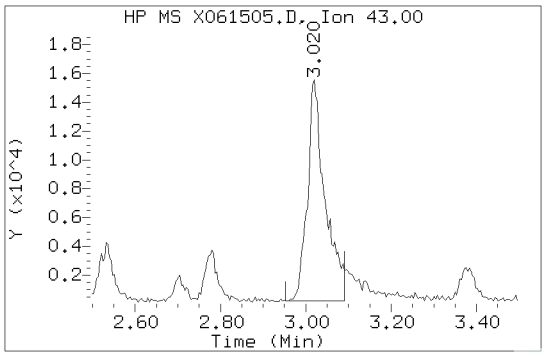
BEFORE

MASS
43
AREA
44460
HEIGHT
15343
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
44460
HEIGHT
15343
20-Jun-2023
18:22
linh
pham



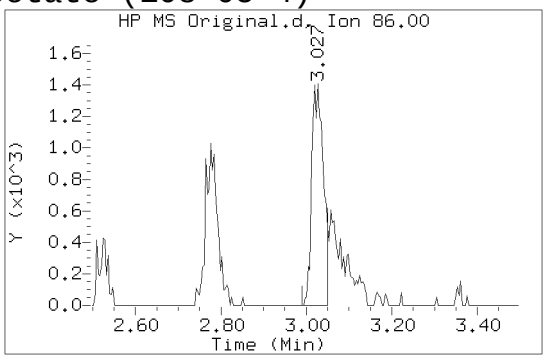
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Vinyl Acetate (108-05-4)

Reason Code:

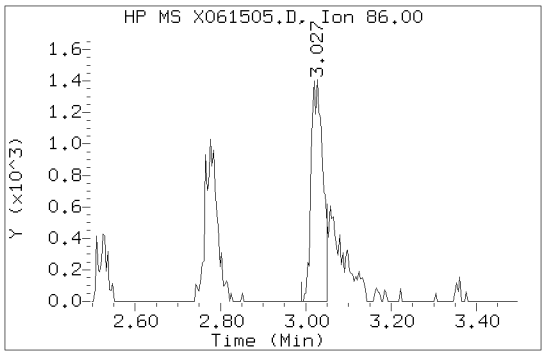
BEFORE

MASS
86
AREA
2664
HEIGHT
1408
20-Jun-2023
18:22
linh
pham



AFTER

MASS
86
AREA
2664
HEIGHT
1408
20-Jun-2023
18:22
linh
pham

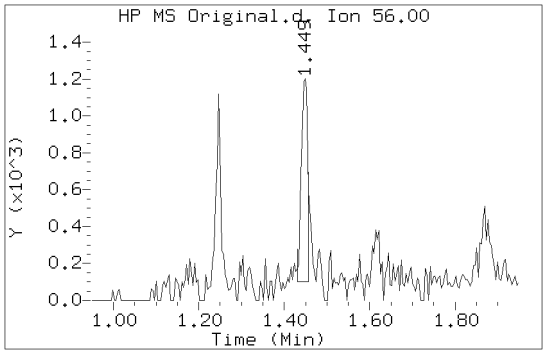


Acrolein (107-02-8)

Reason Code:

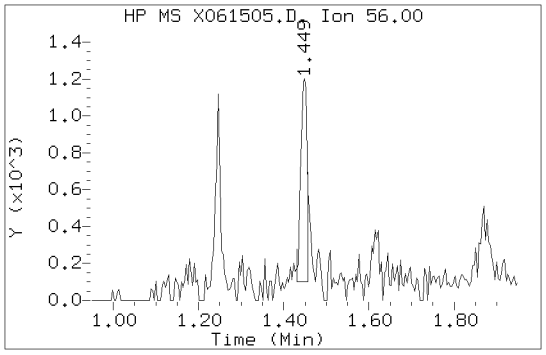
BEFORE

MASS
56
AREA
1177
HEIGHT
1102
20-Jun-2023
18:22
linh
pham



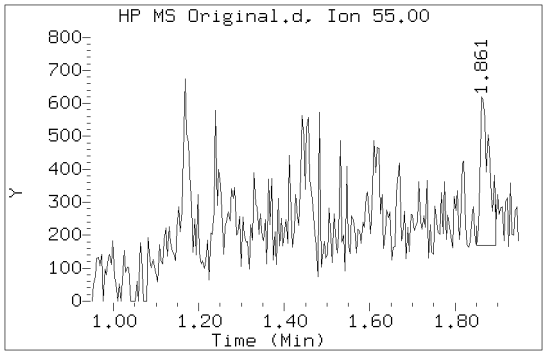
AFTER

MASS
56
AREA
1177
HEIGHT
1102
20-Jun-2023
18:22
linh
pham



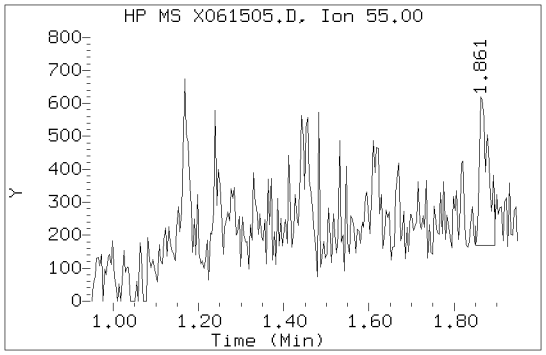
BEFORE

MASS
55
AREA
650
HEIGHT
449
20-Jun-2023
18:22
linh
pham



AFTER

MASS
55
AREA
650
HEIGHT
449
20-Jun-2023
18:22
linh
pham

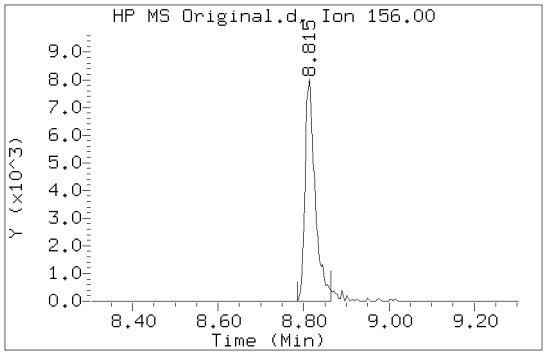


Bromobenzene (108-86-1)

Reason Code:

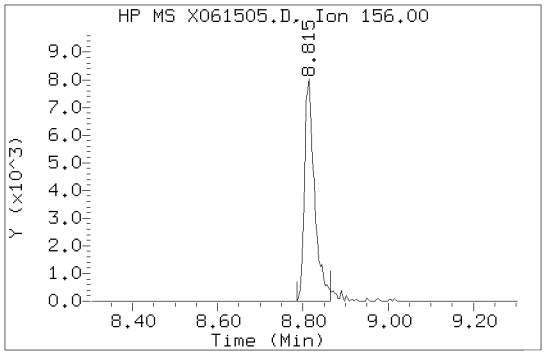
BEFORE

MASS
156
AREA
13387
HEIGHT
8032
20-Jun-2023
18:22
linh
pham



AFTER

MASS
156
AREA
13387
HEIGHT
8032
20-Jun-2023
18:22
linh
pham

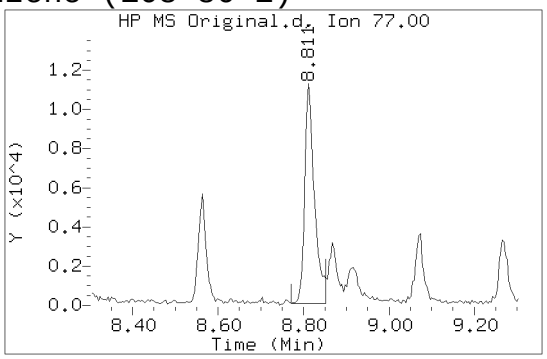


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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

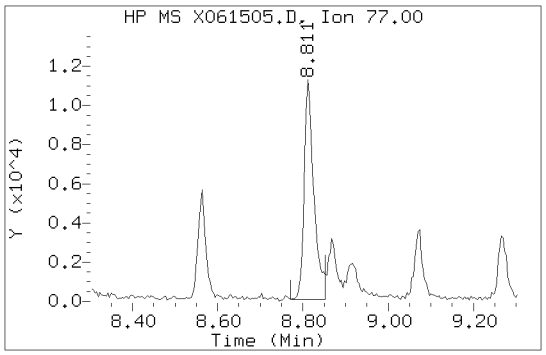
Bromobenzene (108-86-1)

Reason Code:

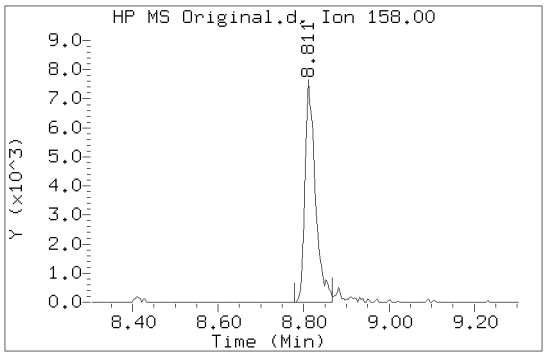
BEFORE
MASS
77
AREA
18077
HEIGHT
11211
20-Jun-2023
18:22
linh
pham



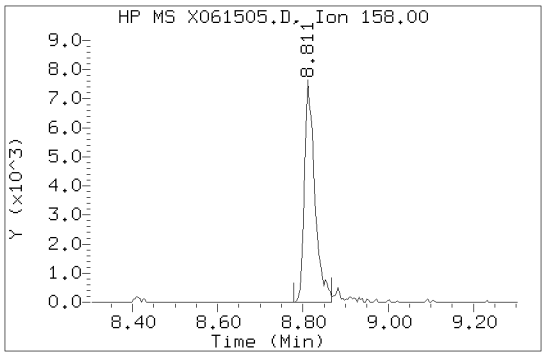
AFTER
MASS
77
AREA
18077
HEIGHT
11211
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
158
AREA
13121
HEIGHT
7648
20-Jun-2023
18:22
linh
pham



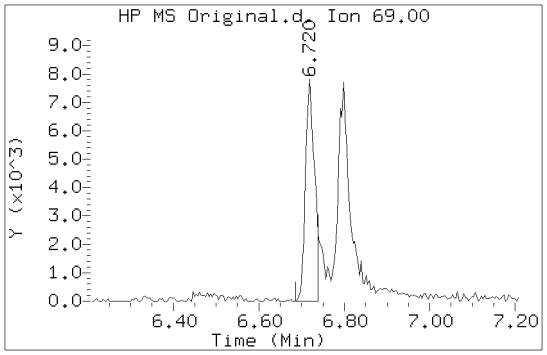
AFTER
MASS
158
AREA
13121
HEIGHT
7648
20-Jun-2023
18:22
linh
pham



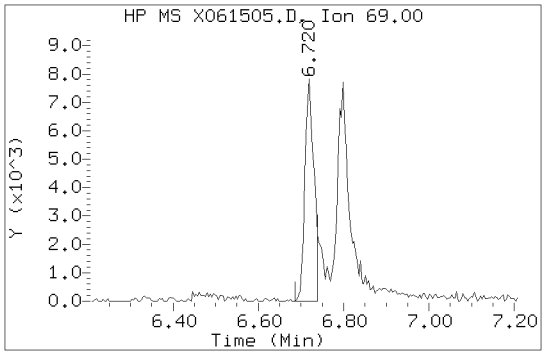
Ethyl Methacrylate (97-63-2)

Reason Code:

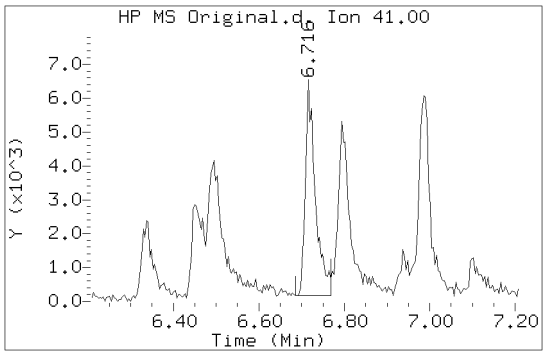
BEFORE
MASS
69
AREA
11631
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



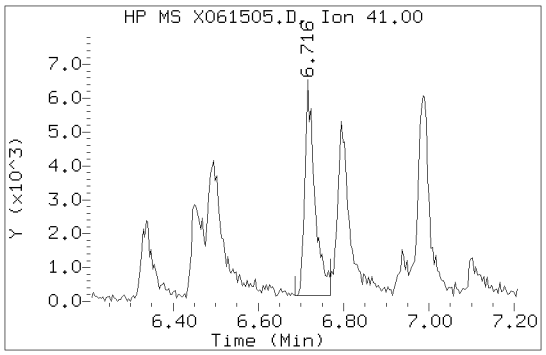
AFTER
MASS
69
AREA
11631
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
41
AREA
10404
HEIGHT
6367
20-Jun-2023
18:22
linh
pham



AFTER
MASS
41
AREA
10404
HEIGHT
6367
20-Jun-2023
18:22
linh
pham



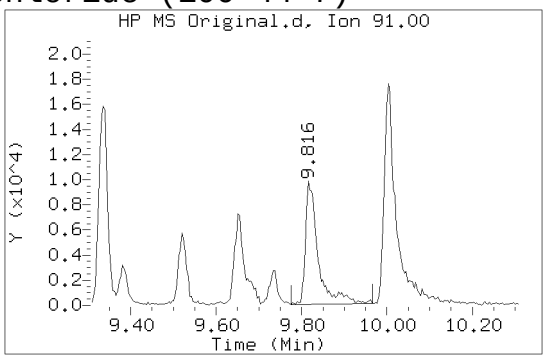
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Benzyl Chloride (100-44-7)

Reason Code:

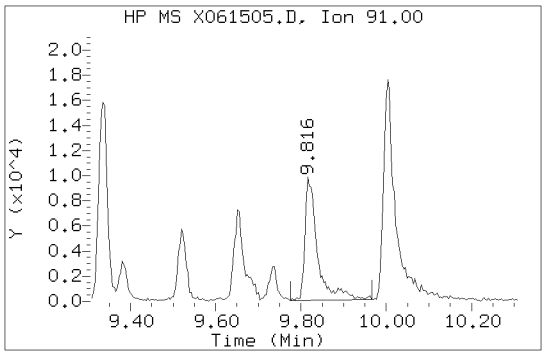
BEFORE

MASS
91
AREA
20389
HEIGHT
9812
20-Jun-2023
18:22
linh
pham



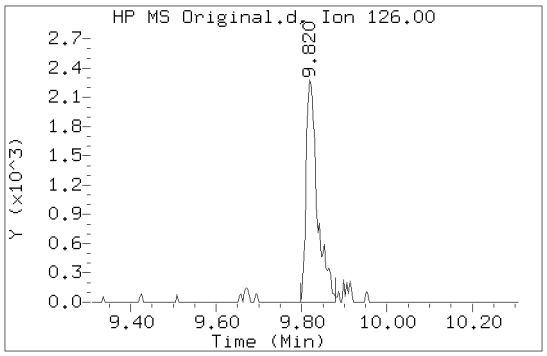
AFTER

MASS
91
AREA
20389
HEIGHT
9812
20-Jun-2023
18:22
linh
pham



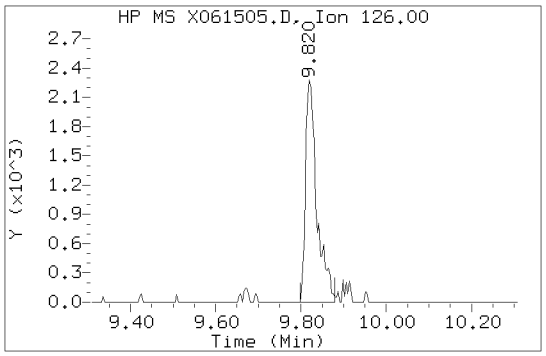
BEFORE

MASS
126
AREA
4211
HEIGHT
2279
20-Jun-2023
18:22
linh
pham



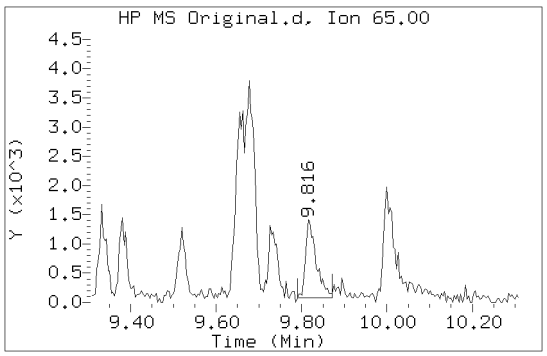
AFTER

MASS
126
AREA
4211
HEIGHT
2279
20-Jun-2023
18:22
linh
pham



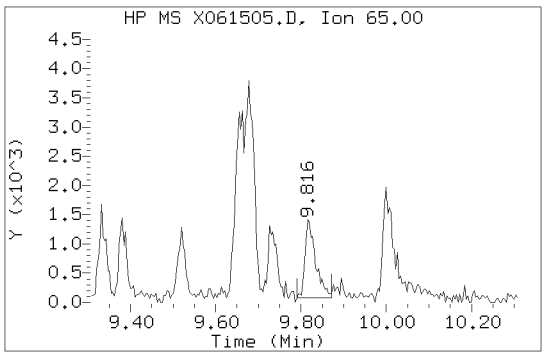
BEFORE

MASS
65
AREA
2345
HEIGHT
1335
20-Jun-2023
18:22
linh
pham



AFTER

MASS
65
AREA
2345
HEIGHT
1335
20-Jun-2023
18:22
linh
pham

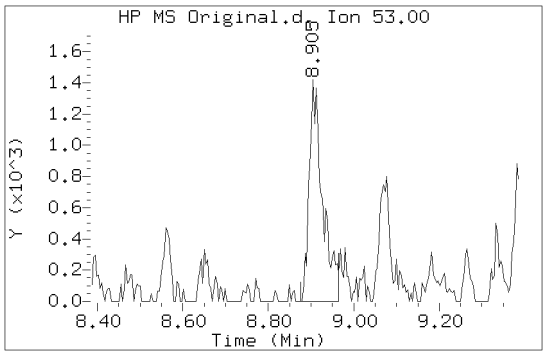


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

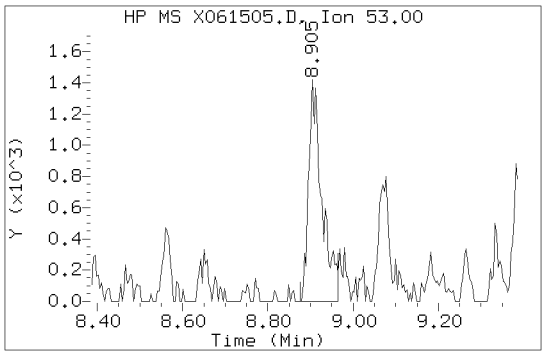
BEFORE

MASS
53
AREA
3093
HEIGHT
1420
20-Jun-2023
18:22
linh
pham



AFTER

MASS
53
AREA
3093
HEIGHT
1420
20-Jun-2023
18:22
linh
pham



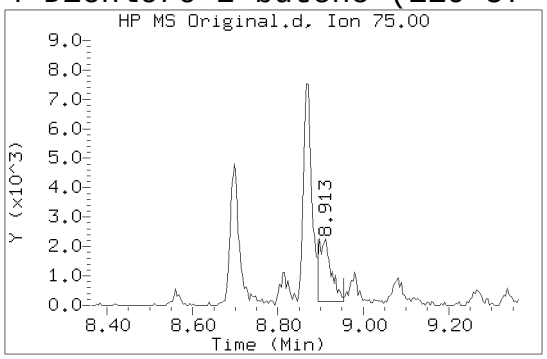
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

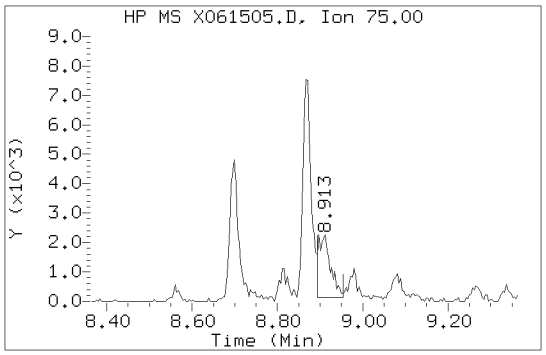
BEFORE

MASS
75
AREA
4233
HEIGHT
2139
20-Jun-2023
18:22
linh
pham



AFTER

MASS
75
AREA
4233
HEIGHT
2139
20-Jun-2023
18:22
linh
pham

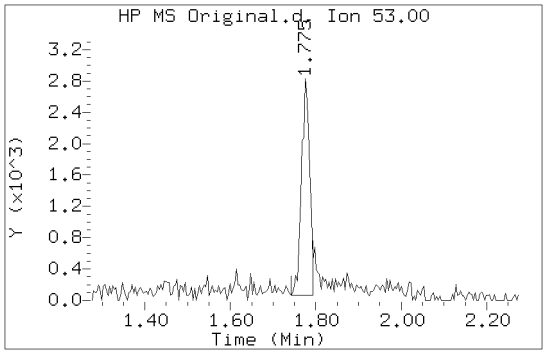


Chloroprene (126-99-8)

Reason Code:

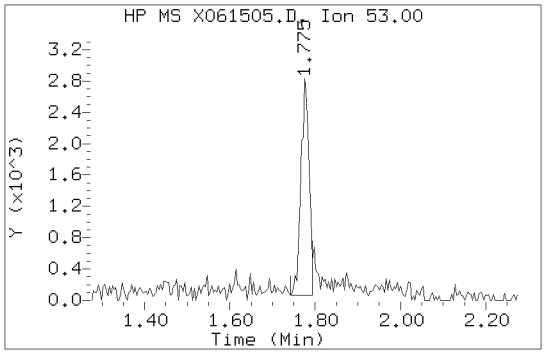
BEFORE

MASS
53
AREA
3814
HEIGHT
2765
20-Jun-2023
18:22
linh
pham



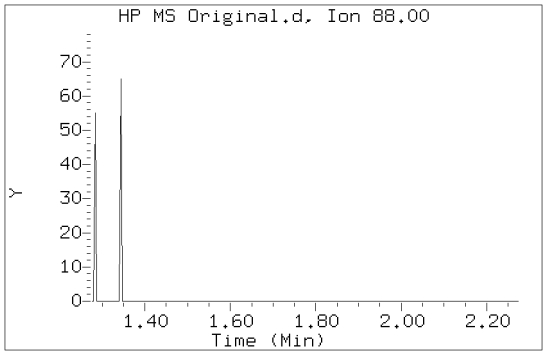
AFTER

MASS
53
AREA
3814
HEIGHT
2765
20-Jun-2023
18:22
linh
pham



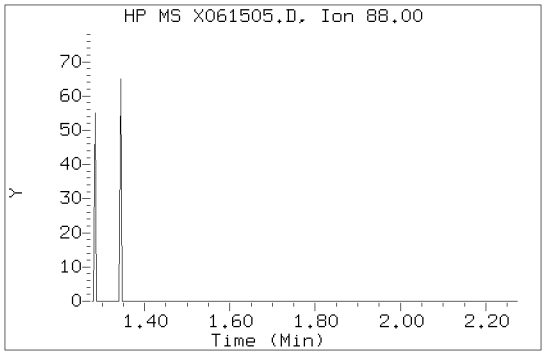
BEFORE

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

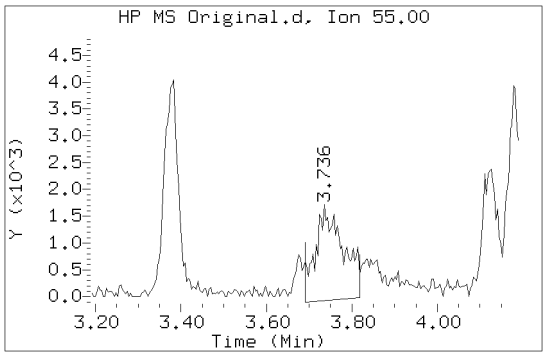


Methyl Acrylate (96-33-3)

Reason Code:

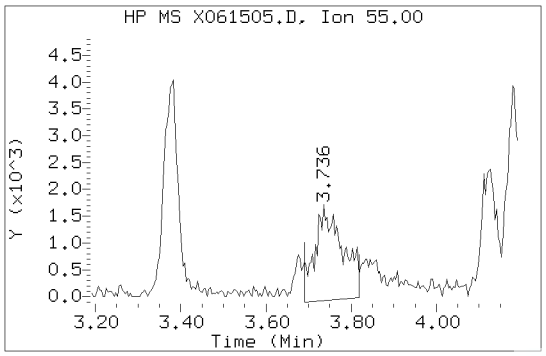
BEFORE

MASS
55
AREA
8064
HEIGHT
1791
20-Jun-2023
18:22
linh
pham



AFTER

MASS
55
AREA
8064
HEIGHT
1791
20-Jun-2023
18:22
linh
pham



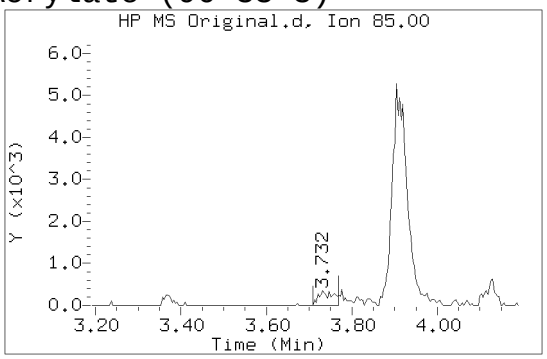
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

Reason Code:

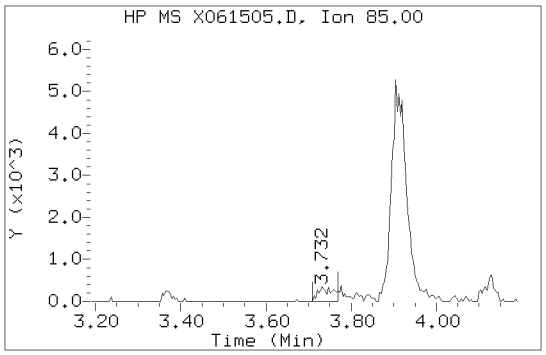
BEFORE

MASS
85
AREA
844
HEIGHT
344
20-Jun-2023
18:22
linh
pham



AFTER

MASS
85
AREA
844
HEIGHT
344
20-Jun-2023
18:22
linh
pham

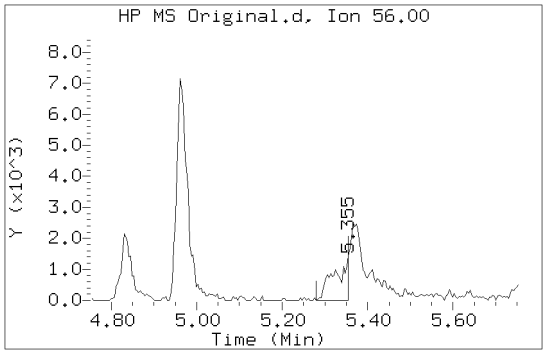


n-Butanol (71-36-3)

Reason Code:

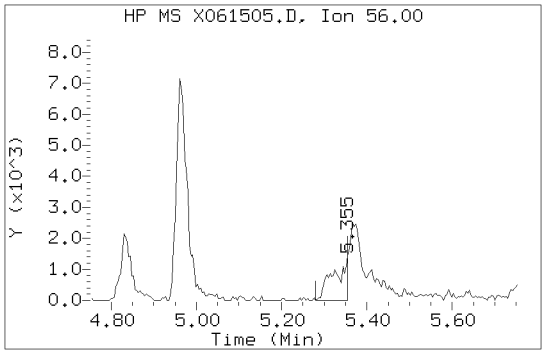
BEFORE

MASS
56
AREA
3179
HEIGHT
1448
20-Jun-2023
18:22
linh
pham



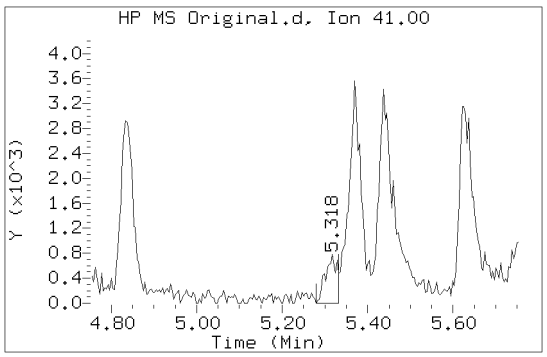
AFTER

MASS
56
AREA
3179
HEIGHT
1448
20-Jun-2023
18:22
linh
pham



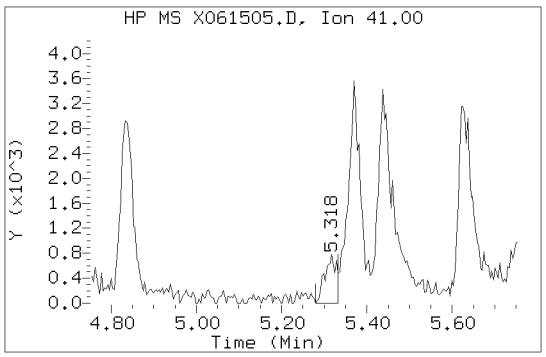
BEFORE

MASS
41
AREA
1455
HEIGHT
782
20-Jun-2023
18:22
linh
pham



AFTER

MASS
41
AREA
1455
HEIGHT
782
20-Jun-2023
18:22
linh
pham

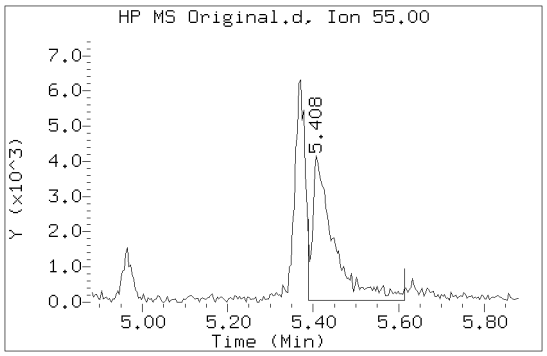


Ethyl Acrylate (140-88-5)

Reason Code:

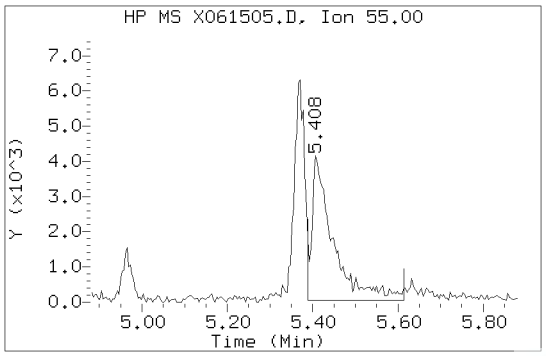
BEFORE

MASS
55
AREA
14275
HEIGHT
4107
20-Jun-2023
18:22
linh
pham



AFTER

MASS
55
AREA
14275
HEIGHT
4107
20-Jun-2023
18:22
linh
pham



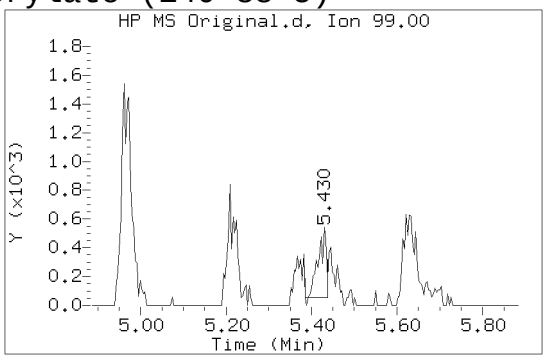
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

Reason Code:

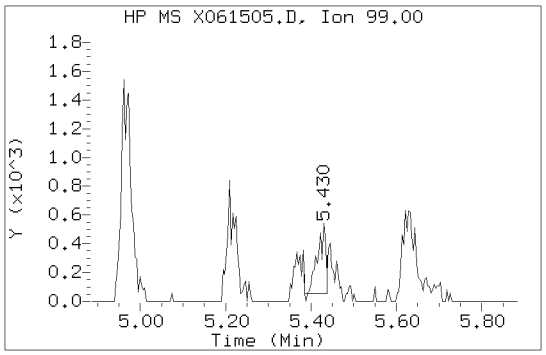
BEFORE

MASS
99
AREA
625
HEIGHT
488
20-Jun-2023
18:22
linh
pham



AFTER

MASS
99
AREA
625
HEIGHT
488
20-Jun-2023
18:22
linh
pham

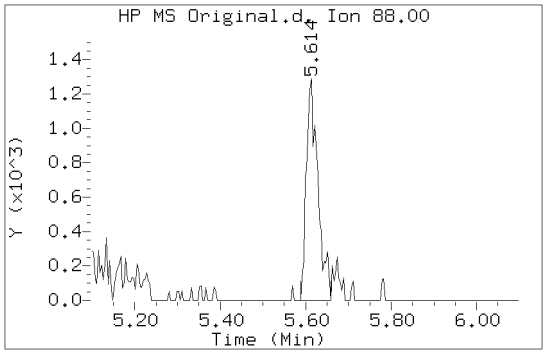


1,4-Dioxane ()

Reason Code:

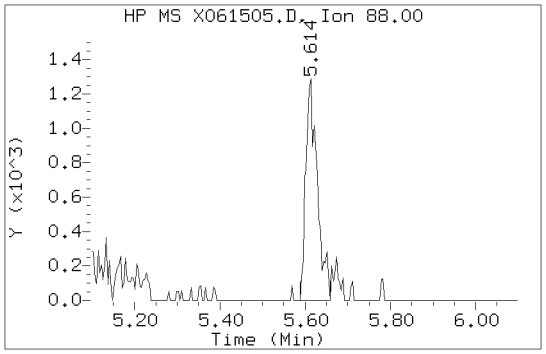
BEFORE

MASS
88
AREA
2444
HEIGHT
1289
20-Jun-2023
18:22
linh
pham



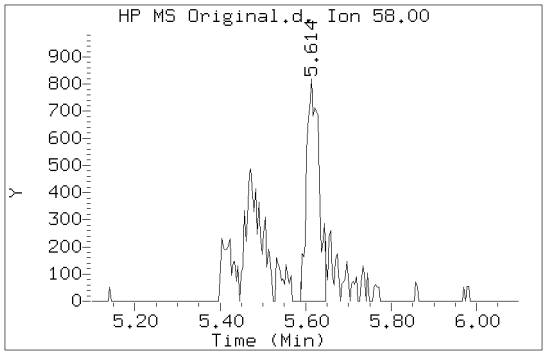
AFTER

MASS
88
AREA
2444
HEIGHT
1289
20-Jun-2023
18:22
linh
pham



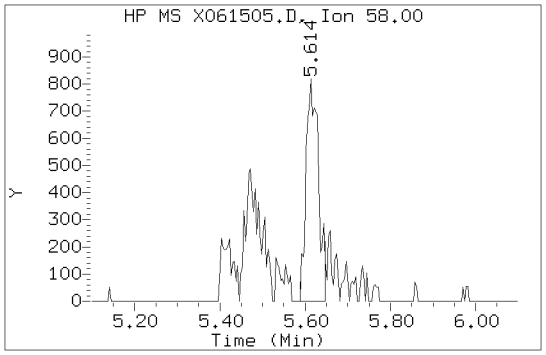
BEFORE

MASS
58
AREA
1653
HEIGHT
819
20-Jun-2023
18:22
linh
pham



AFTER

MASS
58
AREA
1653
HEIGHT
819
20-Jun-2023
18:22
linh
pham

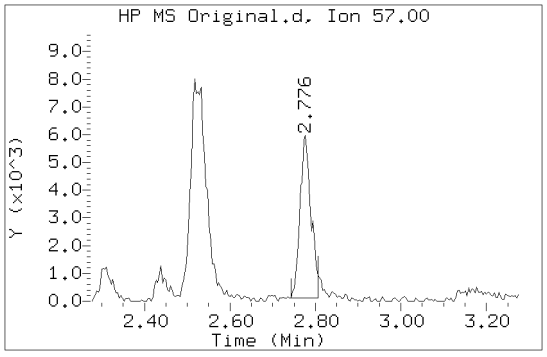


n-Hexane (110-54-3)

Reason Code:

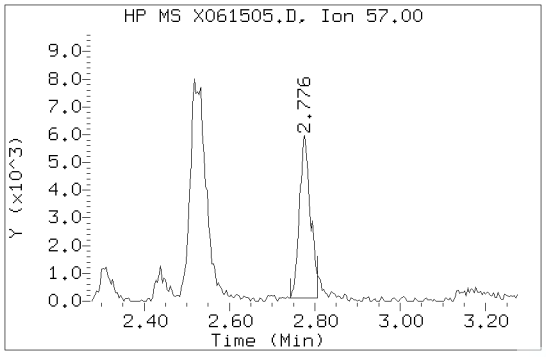
BEFORE

MASS
57
AREA
10696
HEIGHT
5866
20-Jun-2023
18:22
linh
pham



AFTER

MASS
57
AREA
10696
HEIGHT
5866
20-Jun-2023
18:22
linh
pham

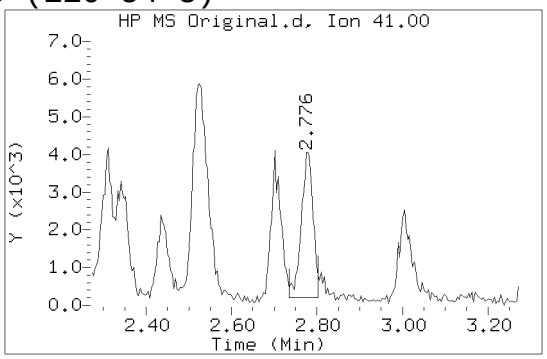


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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

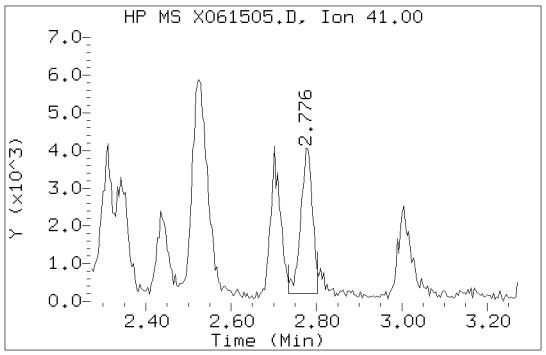
n-Hexane (110-54-3)

Reason Code:

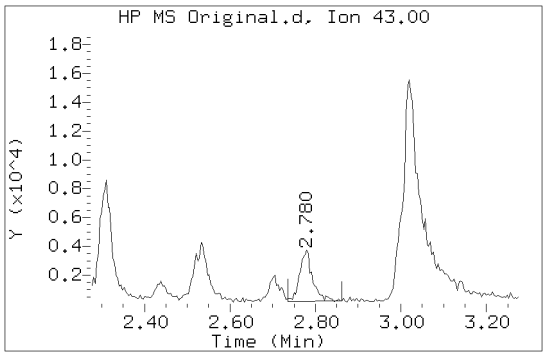
BEFORE
MASS
41
AREA
7540
HEIGHT
3854
20-Jun-2023
18:22
linh
pham



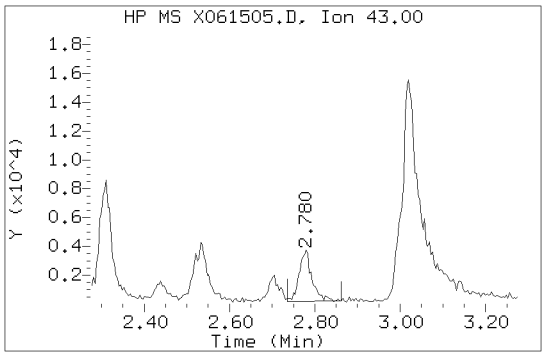
AFTER
MASS
41
AREA
7540
HEIGHT
3854
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
43
AREA
7477
HEIGHT
3518
20-Jun-2023
18:22
linh
pham



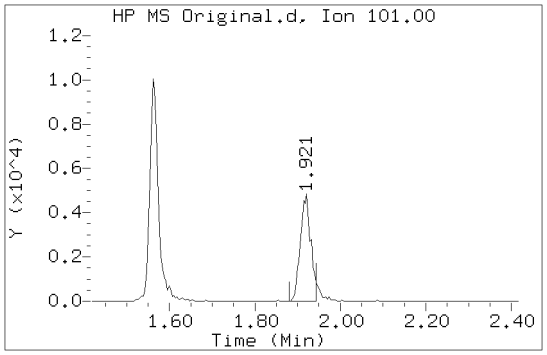
AFTER
MASS
43
AREA
7477
HEIGHT
3518
20-Jun-2023
18:22
linh
pham



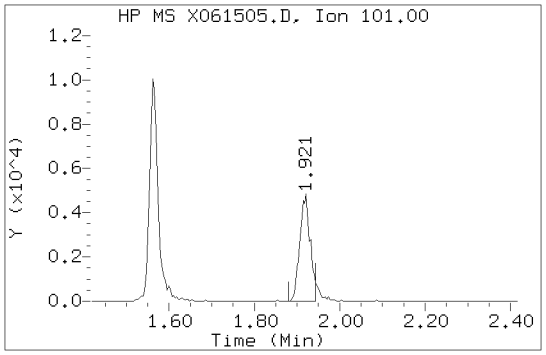
Freon TF (76-13-1)

Reason Code:

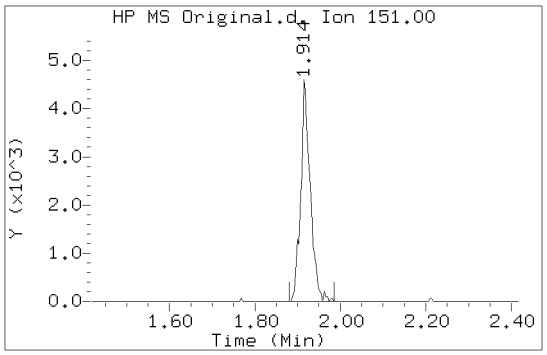
BEFORE
MASS
101
AREA
8361
HEIGHT
4850
20-Jun-2023
18:22
linh
pham



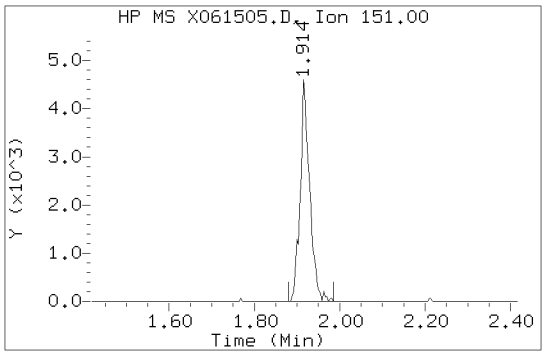
AFTER
MASS
101
AREA
8361
HEIGHT
4850
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
151
AREA
7295
HEIGHT
4601
20-Jun-2023
18:22
linh
pham



AFTER
MASS
151
AREA
7295
HEIGHT
4601
20-Jun-2023
18:22
linh
pham

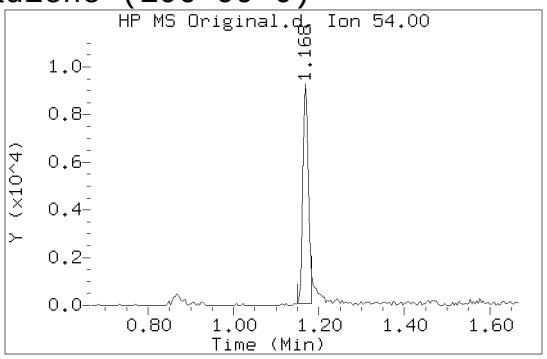


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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

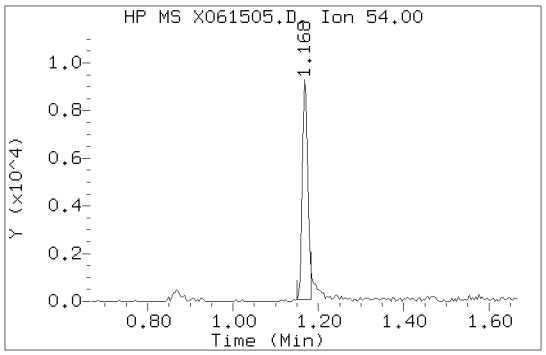
1,3-Butadiene (106-99-0)

Reason Code:

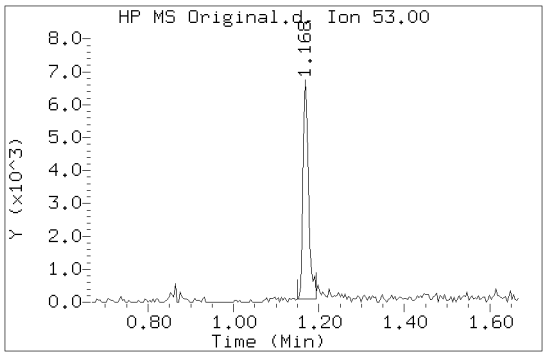
BEFORE
MASS
54
AREA
8478
HEIGHT
9216
20-Jun-2023
18:22
linh
pham



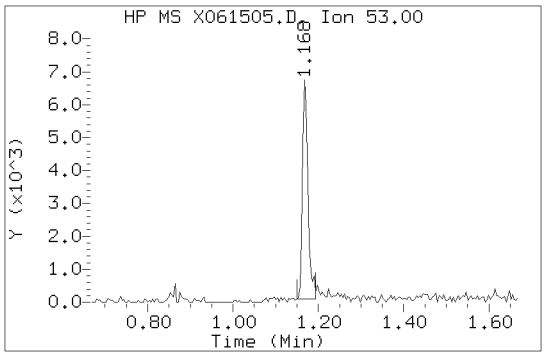
AFTER
MASS
54
AREA
8478
HEIGHT
9216
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
53
AREA
6095
HEIGHT
6659
20-Jun-2023
18:22
linh
pham



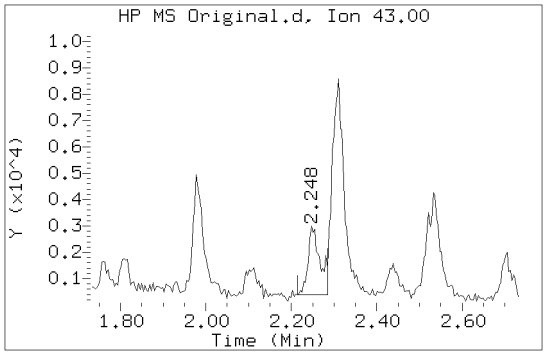
AFTER
MASS
53
AREA
6095
HEIGHT
6659
20-Jun-2023
18:22
linh
pham



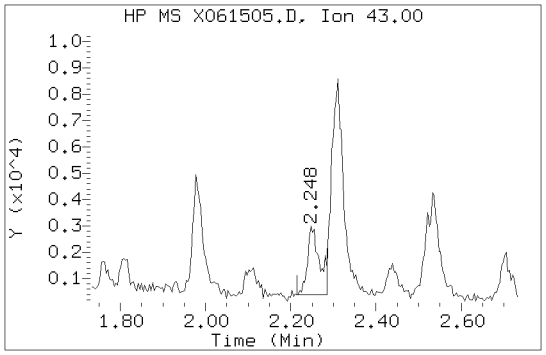
Methyl acetate (79-20-9)

Reason Code:

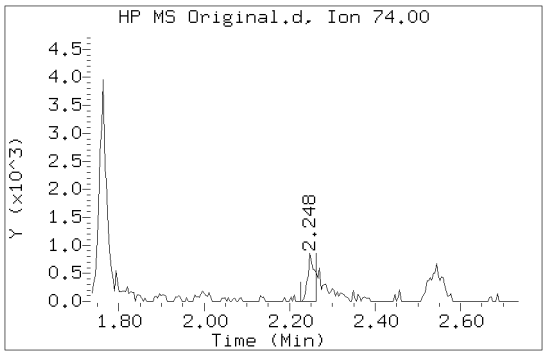
BEFORE
MASS
43
AREA
5157
HEIGHT
2617
20-Jun-2023
18:22
linh
pham



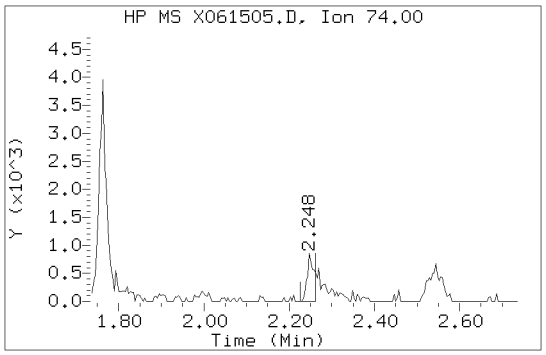
AFTER
MASS
43
AREA
5157
HEIGHT
2617
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
74
AREA
940
HEIGHT
855
20-Jun-2023
18:22
linh
pham



AFTER
MASS
74
AREA
940
HEIGHT
855
20-Jun-2023
18:22
linh
pham



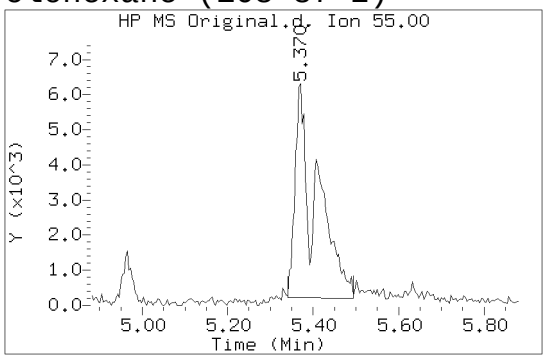
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Methylcyclohexane (108-87-2)

Reason Code:

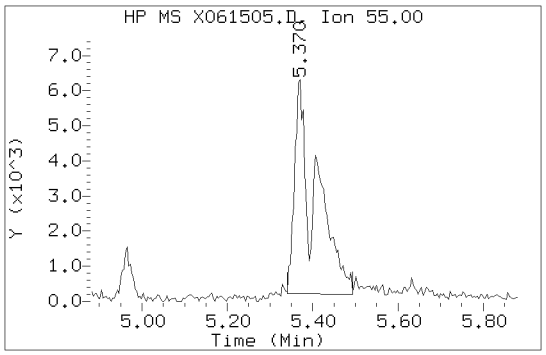
BEFORE

MASS
55
AREA
20990
HEIGHT
6091
20-Jun-2023
18:22
linh
pham



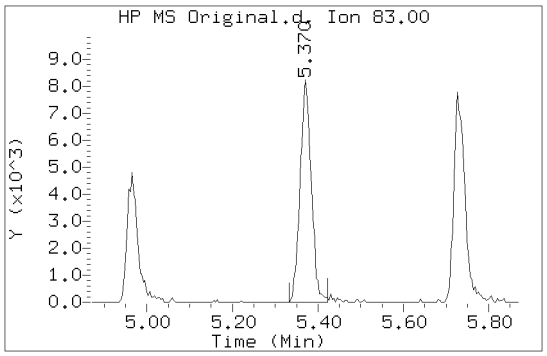
AFTER

MASS
55
AREA
20990
HEIGHT
6091
20-Jun-2023
18:22
linh
pham



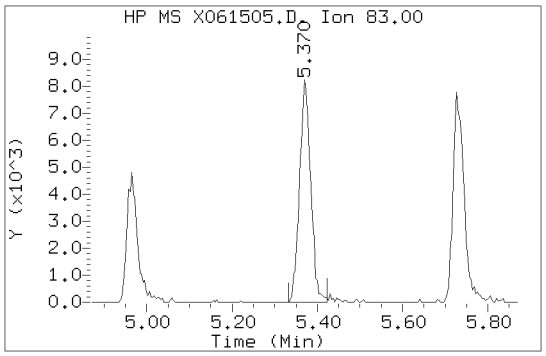
BEFORE

MASS
83
AREA
15282
HEIGHT
8235
20-Jun-2023
18:22
linh
pham



AFTER

MASS
83
AREA
15282
HEIGHT
8235
20-Jun-2023
18:22
linh
pham

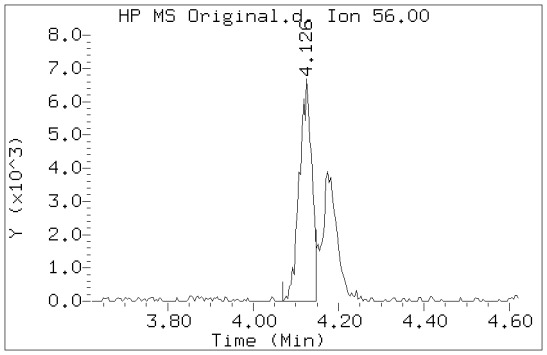


Cyclohexane (110-82-7)

Reason Code:

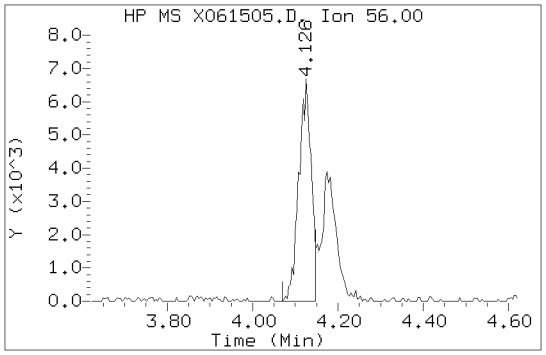
BEFORE

MASS
56
AREA
13787
HEIGHT
6686
20-Jun-2023
18:22
linh
pham



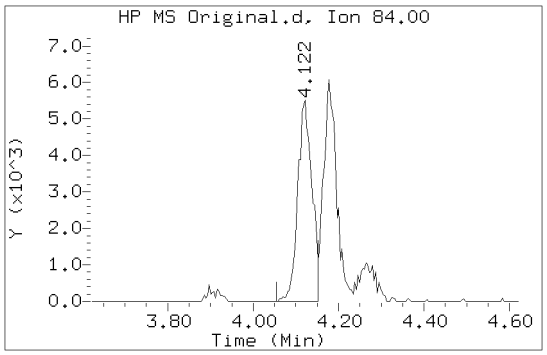
AFTER

MASS
56
AREA
13787
HEIGHT
6686
20-Jun-2023
18:22
linh
pham



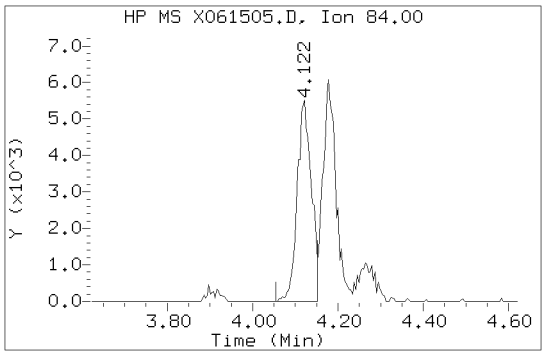
BEFORE

MASS
84
AREA
12922
HEIGHT
5508
20-Jun-2023
18:22
linh
pham



AFTER

MASS
84
AREA
12922
HEIGHT
5508
20-Jun-2023
18:22
linh
pham



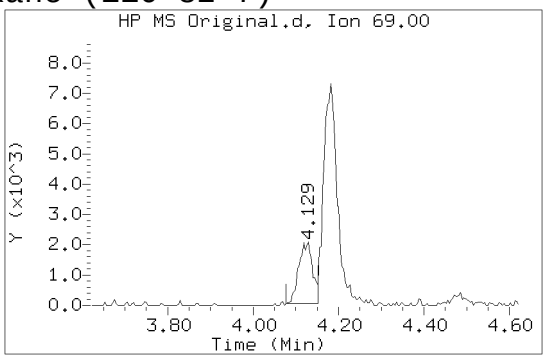
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Cyclohexane (110-82-7)

Reason Code:

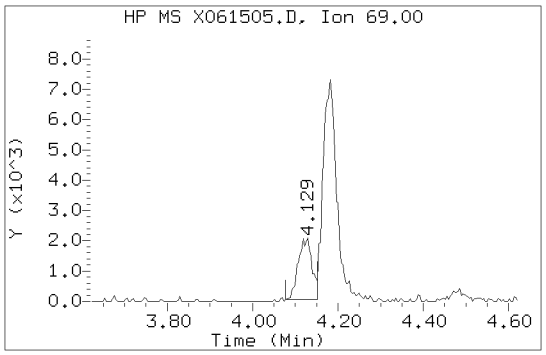
BEFORE

MASS
69
AREA
4668
HEIGHT
2038
20-Jun-2023
18:22
linh
pham



AFTER

MASS
69
AREA
4668
HEIGHT
2038
20-Jun-2023
18:22
linh
pham

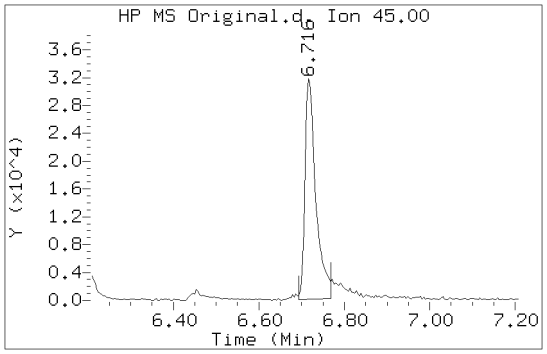


4-Methyl-2-pentanol (108-11-2)

Reason Code:

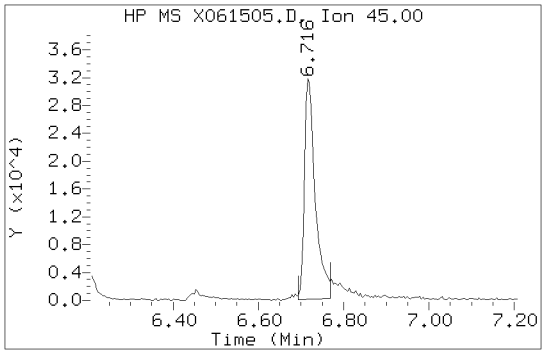
BEFORE

MASS
45
AREA
56864
HEIGHT
31680
20-Jun-2023
18:22
linh
pham



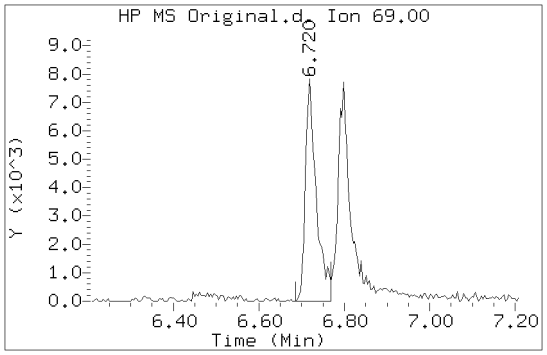
AFTER

MASS
45
AREA
56864
HEIGHT
31680
20-Jun-2023
18:22
linh
pham



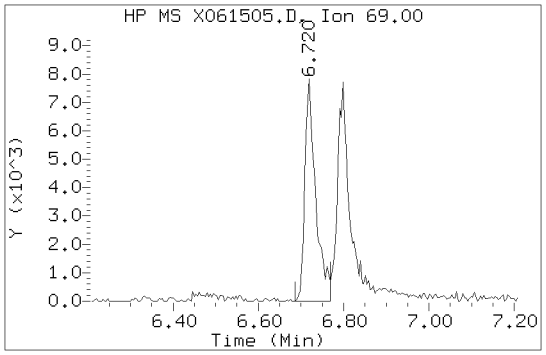
BEFORE

MASS
69
AREA
14049
HEIGHT
7830
20-Jun-2023
18:22
linh
pham



AFTER

MASS
69
AREA
14049
HEIGHT
7830
20-Jun-2023
18:22
linh
pham

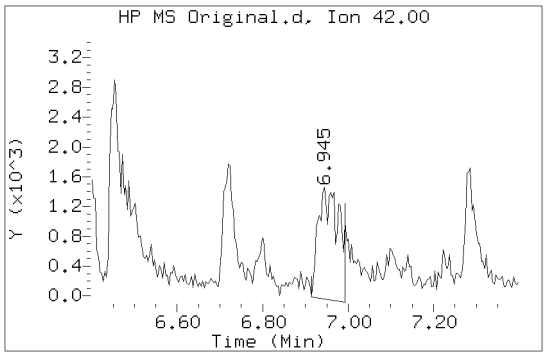


Amyl alcohol (71-41-0)

Reason Code:

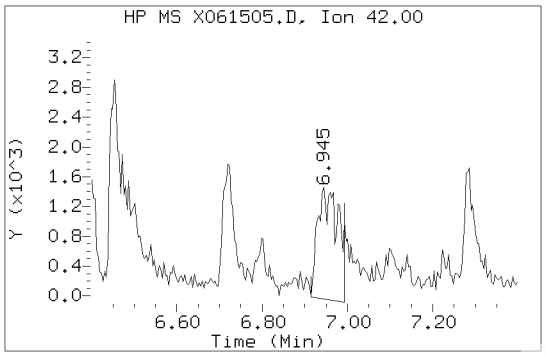
BEFORE

MASS
42
AREA
5090
HEIGHT
1499
20-Jun-2023
18:22
linh
pham



AFTER

MASS
42
AREA
5090
HEIGHT
1499
20-Jun-2023
18:22
linh
pham

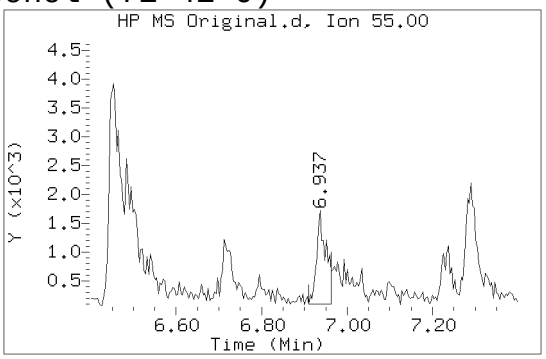


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061505.D
Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

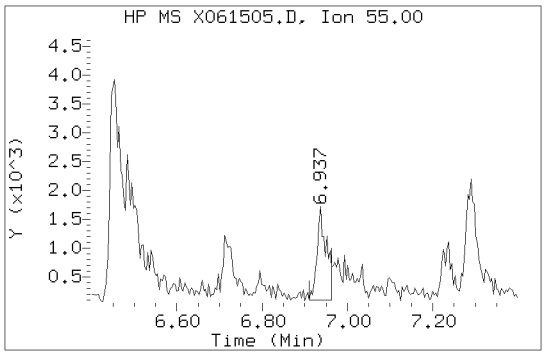
Amyl alcohol (71-41-0)

Reason Code:

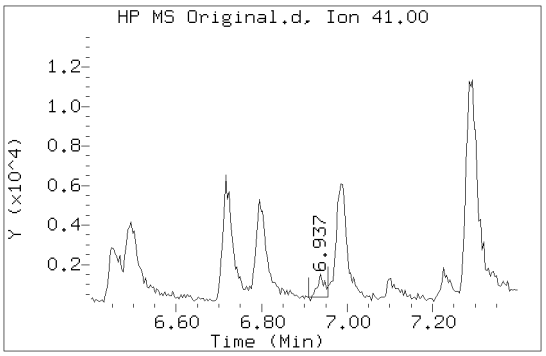
BEFORE
MASS
55
AREA
2484
HEIGHT
1619
20-Jun-2023
18:22
linh
pham



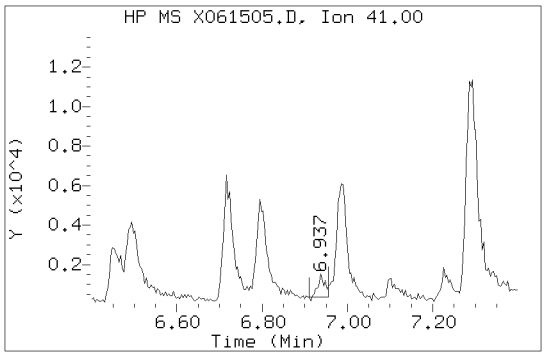
AFTER
MASS
55
AREA
2484
HEIGHT
1619
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



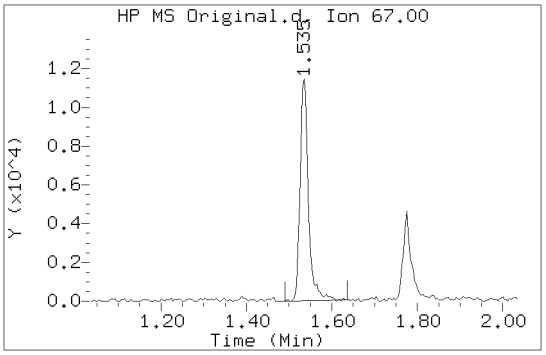
AFTER
MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



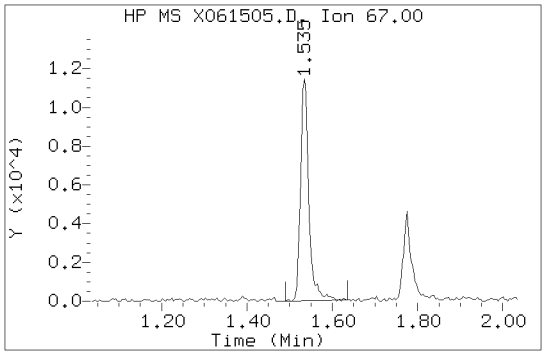
Dichlorofluoromethane (75-43-4)

Reason Code:

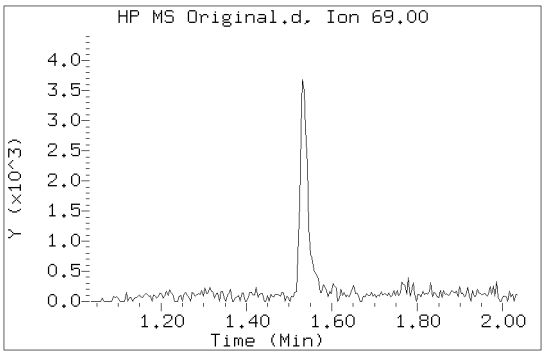
BEFORE
MASS
67
AREA
15880
HEIGHT
11454
20-Jun-2023
18:22
linh
pham



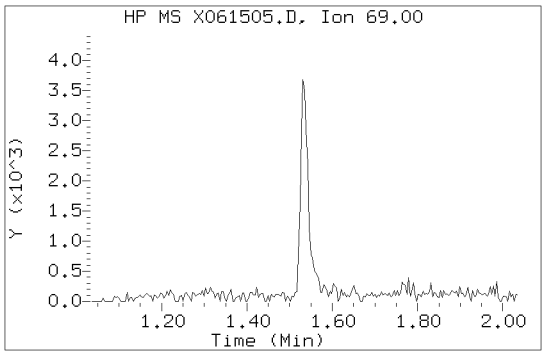
AFTER
MASS
67
AREA
15880
HEIGHT
11454
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER
MASS
69
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



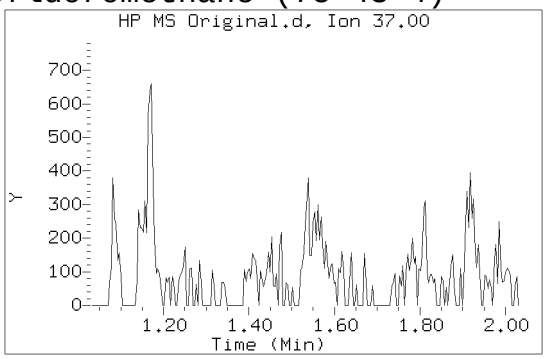
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Dichlorofluoromethane (75-43-4)

Reason Code:

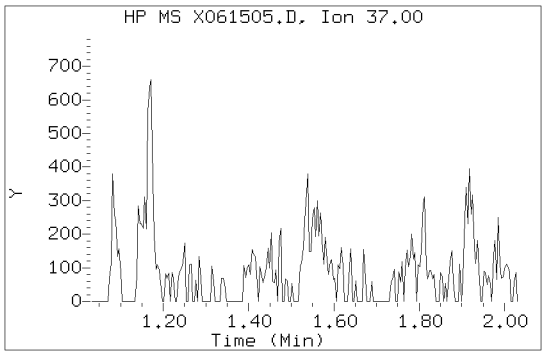
BEFORE

MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

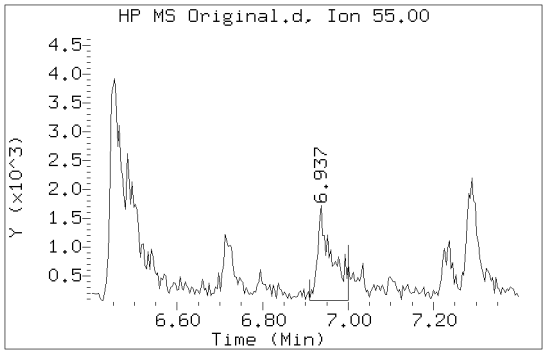


3-Methyl-1-butanol (123-51-3)

Reason Code:

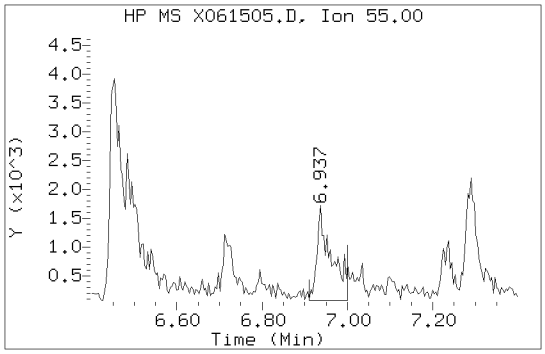
BEFORE

MASS
55
AREA
3850
HEIGHT
1643
20-Jun-2023
18:22
linh
pham



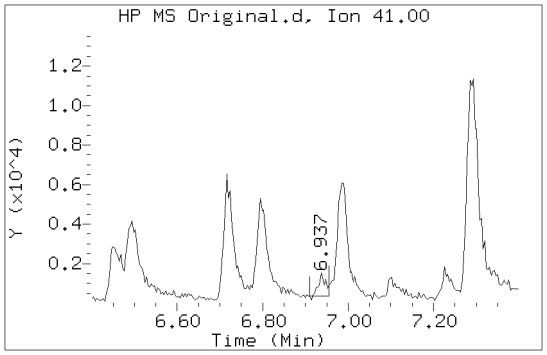
AFTER

MASS
55
AREA
3850
HEIGHT
1643
20-Jun-2023
18:22
linh
pham



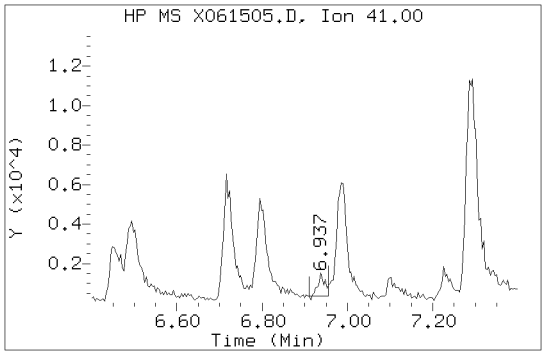
BEFORE

MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham



AFTER

MASS
41
AREA
1377
HEIGHT
1194
20-Jun-2023
18:22
linh
pham

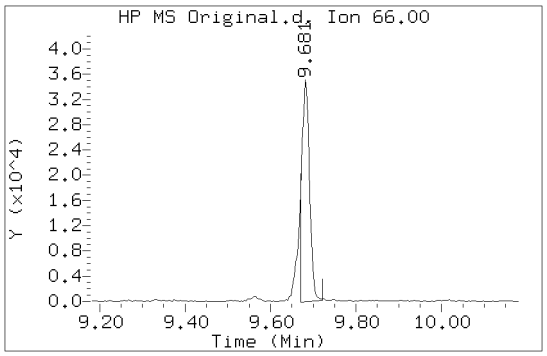


Dicyclopentadiene (77-73-6)

Reason Code:

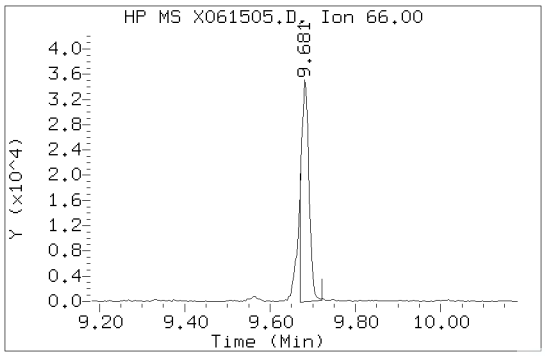
BEFORE

MASS
66
AREA
45923
HEIGHT
35155
20-Jun-2023
18:22
linh
pham



AFTER

MASS
66
AREA
45923
HEIGHT
35155
20-Jun-2023
18:22
linh
pham



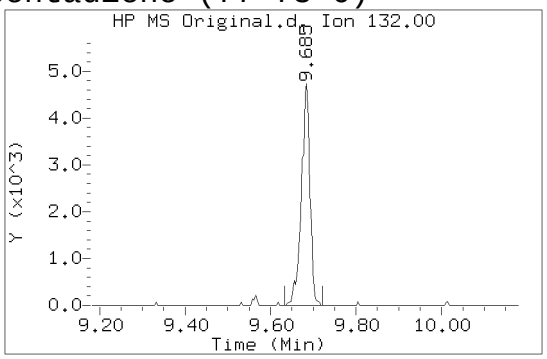
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Dicyclopentadiene (77-73-6)

Reason Code:

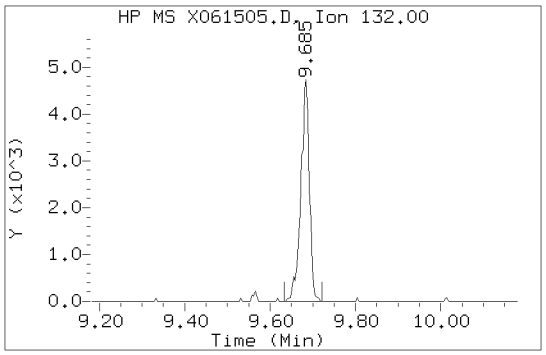
BEFORE

MASS
132
AREA
6793
HEIGHT
4734
20-Jun-2023
18:22
linh
pham



AFTER

MASS
132
AREA
6793
HEIGHT
4734
20-Jun-2023
18:22
linh
pham

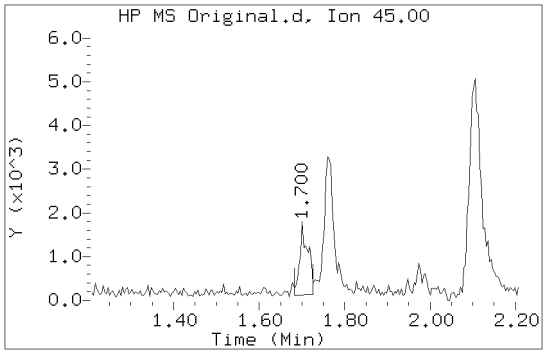


Ethanol (64-17-5)

Reason Code:

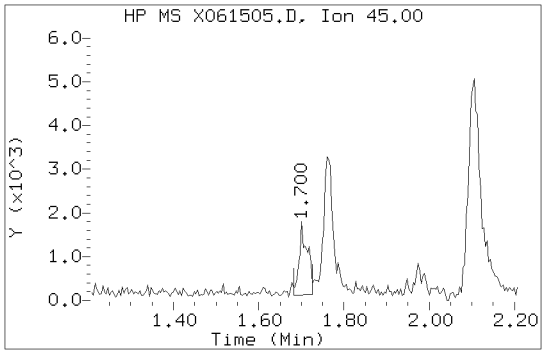
BEFORE

MASS
45
AREA
2336
HEIGHT
1678
20-Jun-2023
18:22
linh
pham



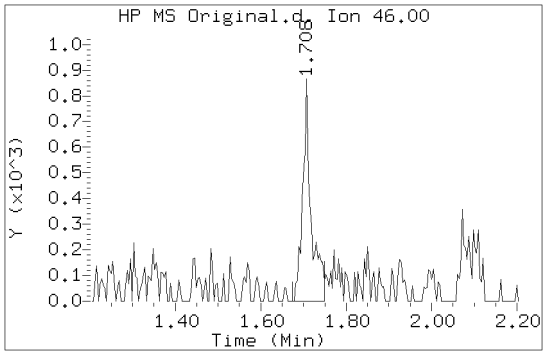
AFTER

MASS
45
AREA
2336
HEIGHT
1678
20-Jun-2023
18:22
linh
pham



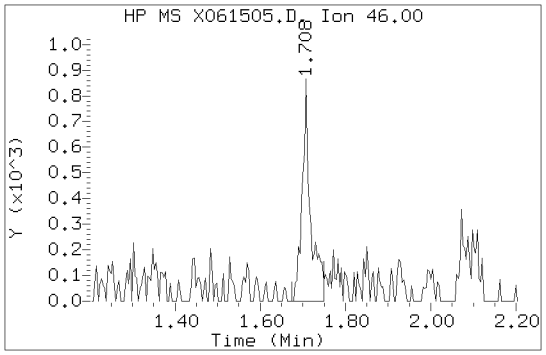
BEFORE

MASS
46
AREA
1210
HEIGHT
866
20-Jun-2023
18:22
linh
pham



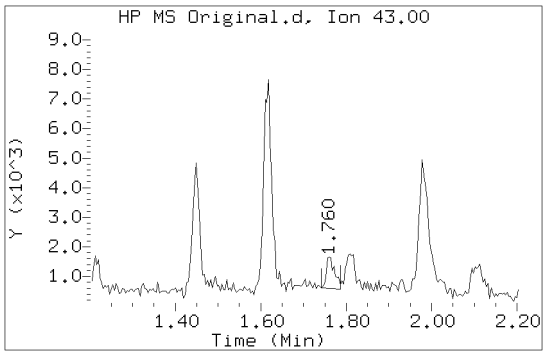
AFTER

MASS
46
AREA
1210
HEIGHT
866
20-Jun-2023
18:22
linh
pham



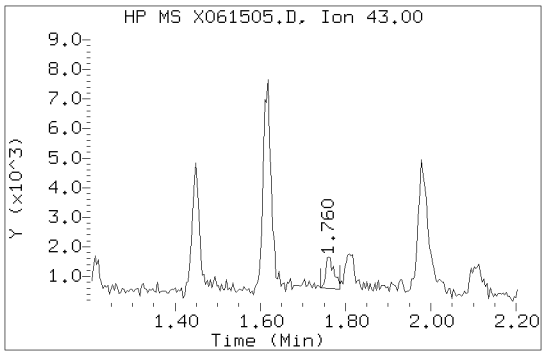
BEFORE

MASS
43
AREA
1441
HEIGHT
1055
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
1441
HEIGHT
1055
20-Jun-2023
18:22
linh
pham



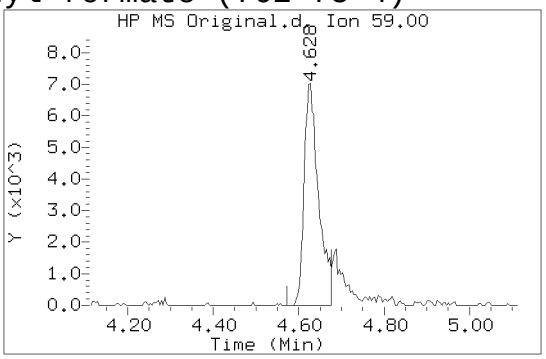
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

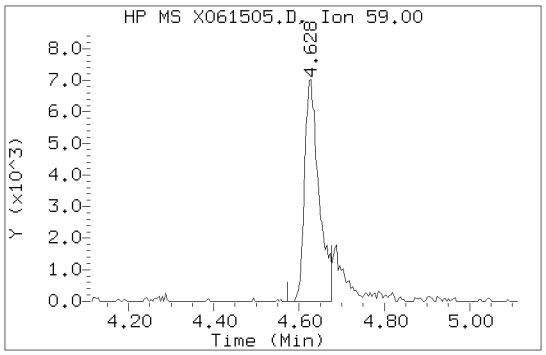
BEFORE

MASS
59
AREA
16716
HEIGHT
7019
20-Jun-2023
18:22
linh
pham



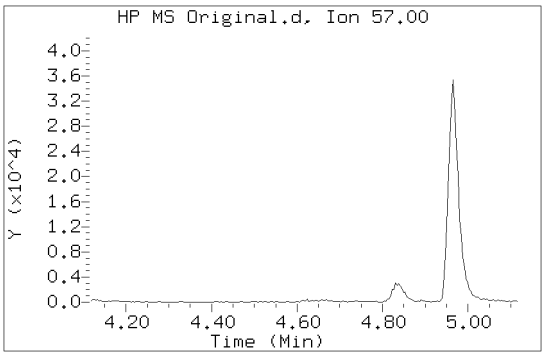
AFTER

MASS
59
AREA
16716
HEIGHT
7019
20-Jun-2023
18:22
linh
pham



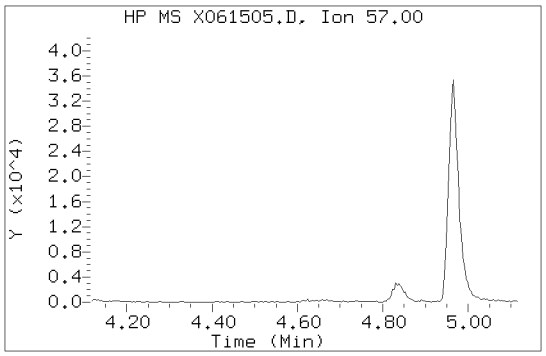
BEFORE

MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



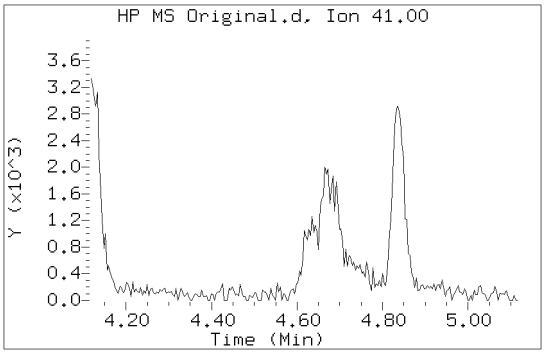
AFTER

MASS
57
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



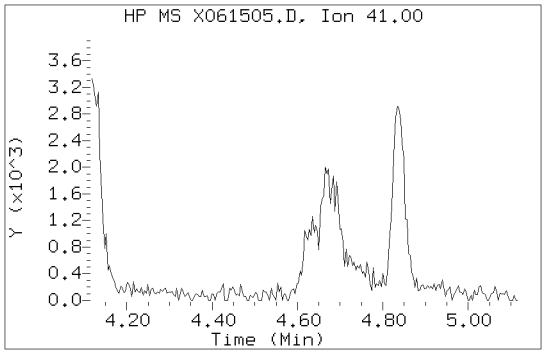
BEFORE

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

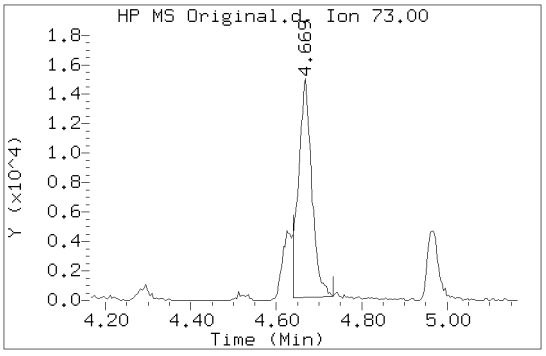


tert-Amyl methyl ether (974-05-08)

Reason Code:

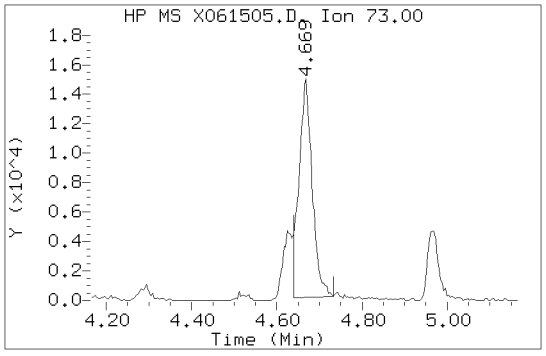
BEFORE

MASS
73
AREA
32910
HEIGHT
14863
20-Jun-2023
18:22
linh
pham



AFTER

MASS
73
AREA
32910
HEIGHT
14863
20-Jun-2023
18:22
linh
pham



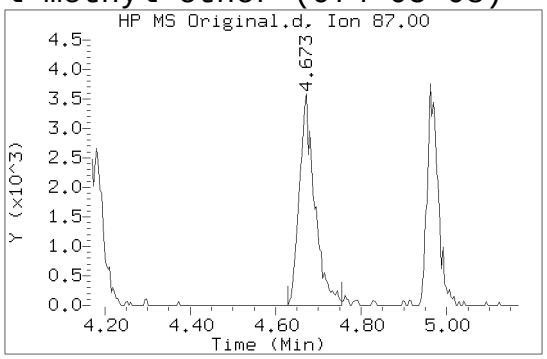
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

tert-Amyl methyl ether (974-05-08)

Reason Code:

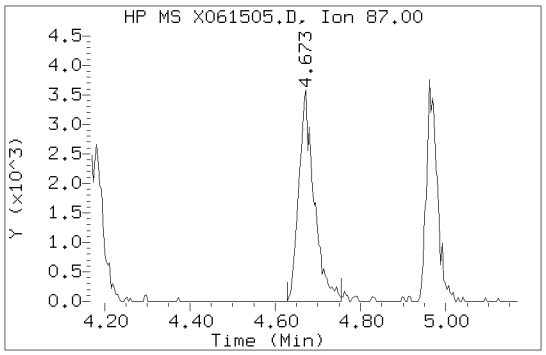
BEFORE

MASS
87
AREA
9052
HEIGHT
3583
20-Jun-2023
18:22
linh
pham



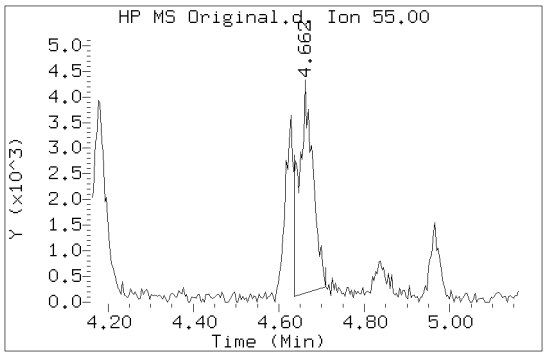
AFTER

MASS
87
AREA
9052
HEIGHT
3583
20-Jun-2023
18:22
linh
pham



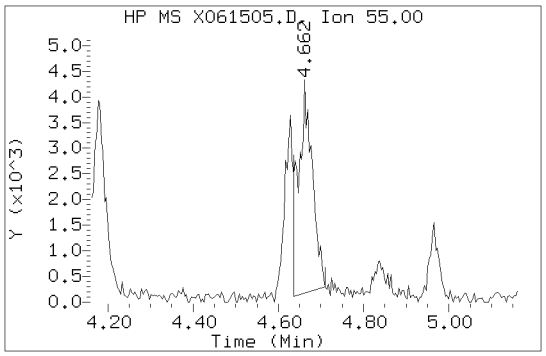
BEFORE

MASS
55
AREA
9699
HEIGHT
4151
20-Jun-2023
18:22
linh
pham



AFTER

MASS
55
AREA
9699
HEIGHT
4151
20-Jun-2023
18:22
linh
pham

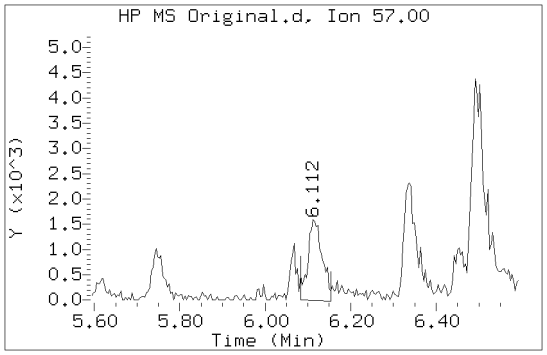


Epichlorohydrin (106-89-8)

Reason Code:

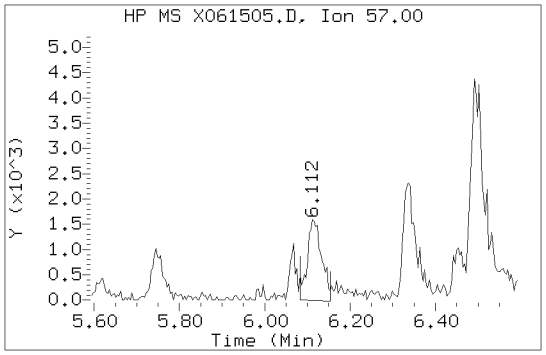
BEFORE

MASS
57
AREA
3820
HEIGHT
1601
20-Jun-2023
18:22
linh
pham



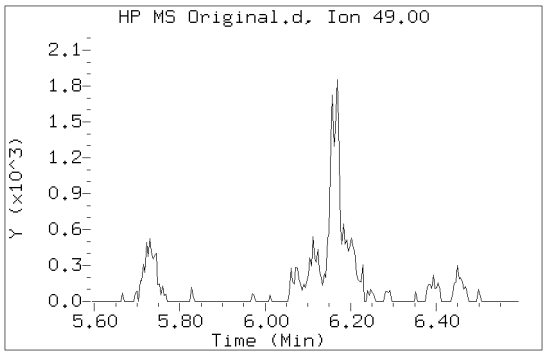
AFTER

MASS
57
AREA
3820
HEIGHT
1601
20-Jun-2023
18:22
linh
pham



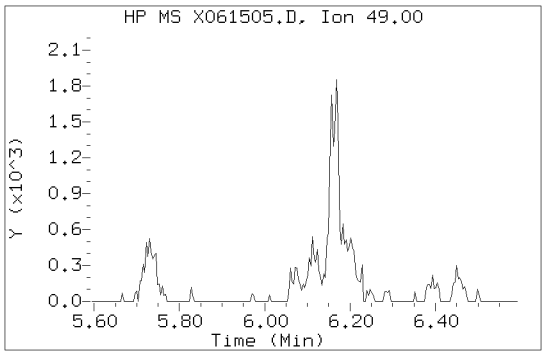
BEFORE

MASS
49
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
49
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

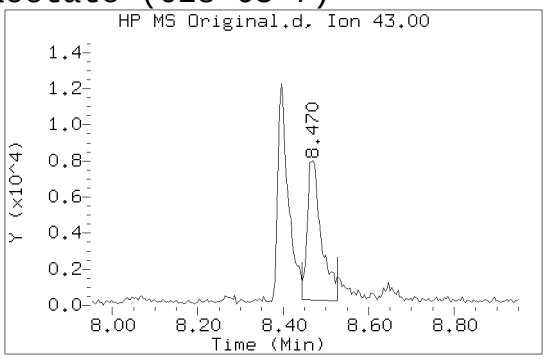


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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

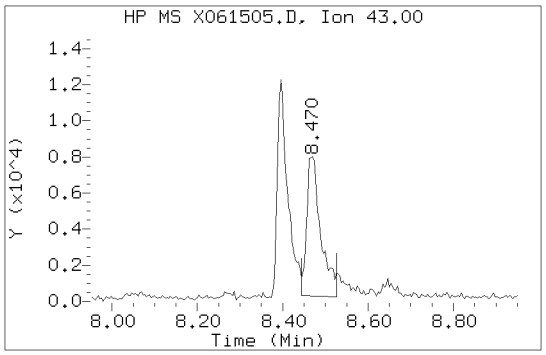
n-Amyl acetate (628-63-7)

Reason Code:

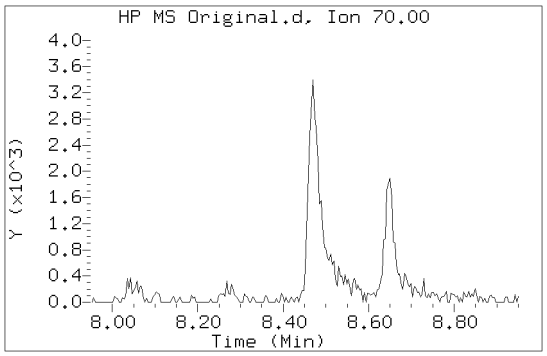
BEFORE
MASS
43
AREA
18078
HEIGHT
7749
20-Jun-2023
18:22
linh
pham



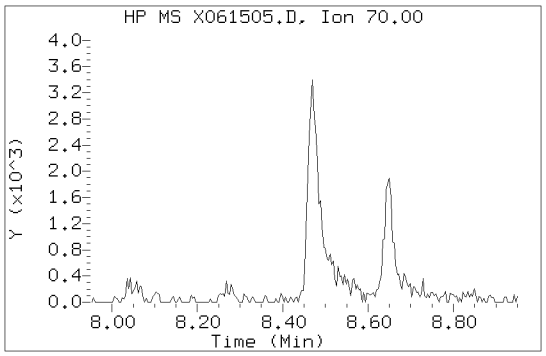
AFTER
MASS
43
AREA
18078
HEIGHT
7749
20-Jun-2023
18:22
linh
pham



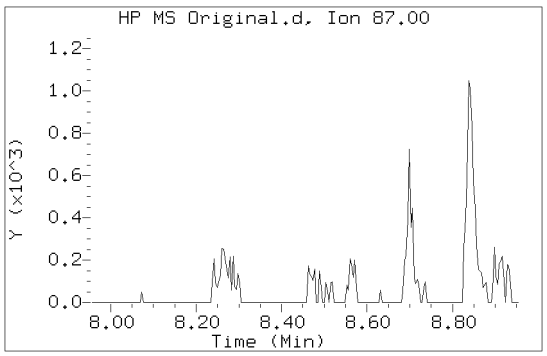
BEFORE
MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



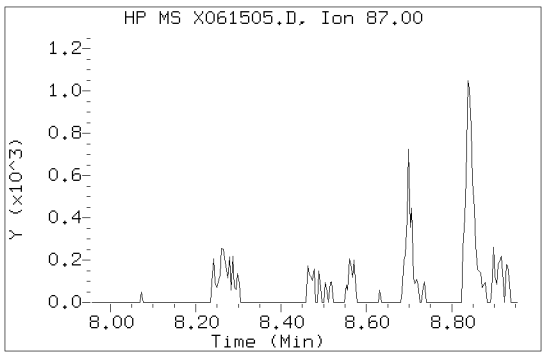
AFTER
MASS
70
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



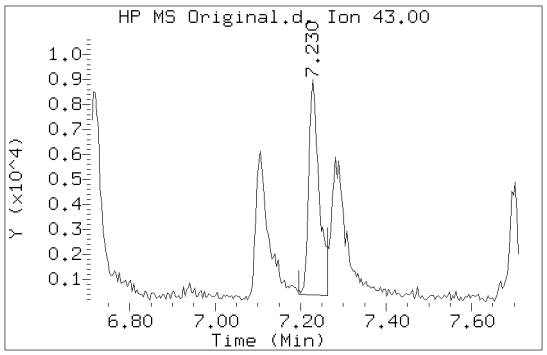
AFTER
MASS
87
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



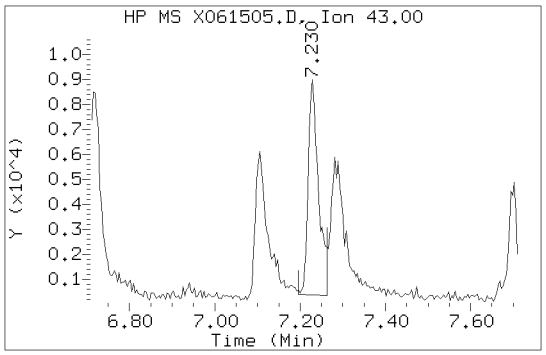
n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
MASS
43
AREA
14580
HEIGHT
8610
20-Jun-2023
18:22
linh
pham



AFTER
MASS
43
AREA
14580
HEIGHT
8610
20-Jun-2023
18:22
linh
pham



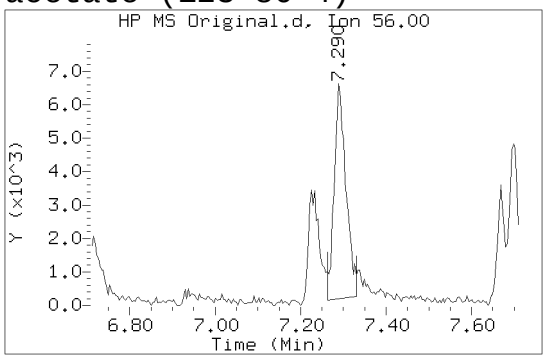
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

Reason Code:

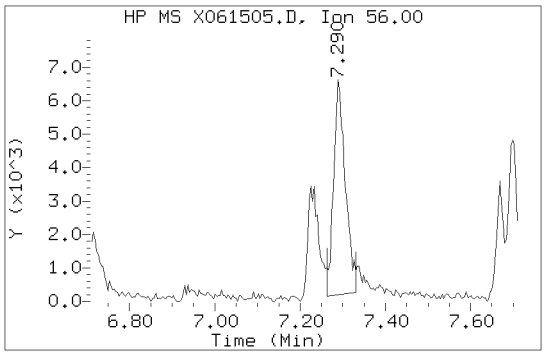
BEFORE

MASS
56
AREA
12380
HEIGHT
6432
20-Jun-2023
18:22
linh
pham



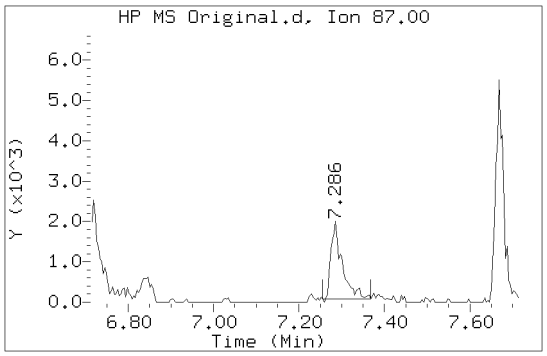
AFTER

MASS
56
AREA
12380
HEIGHT
6432
20-Jun-2023
18:22
linh
pham



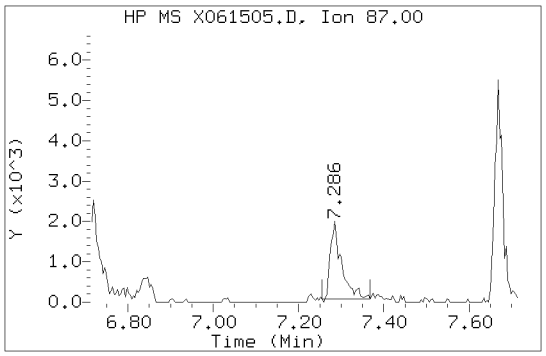
BEFORE

MASS
87
AREA
3534
HEIGHT
1937
20-Jun-2023
18:22
linh
pham



AFTER

MASS
87
AREA
3534
HEIGHT
1937
20-Jun-2023
18:22
linh
pham

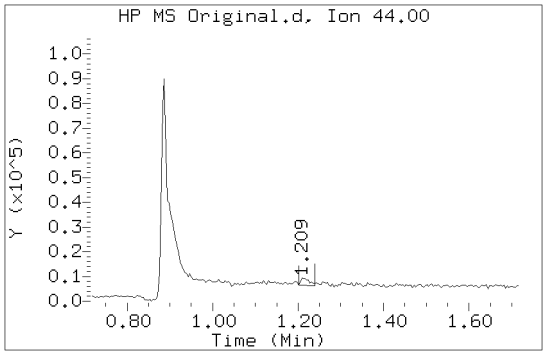


Acetaldehyde (75-07-0)

Reason Code:

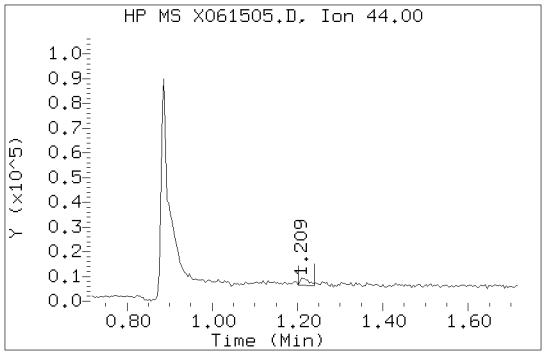
BEFORE

MASS
44
AREA
4310
HEIGHT
3066
20-Jun-2023
18:22
linh
pham



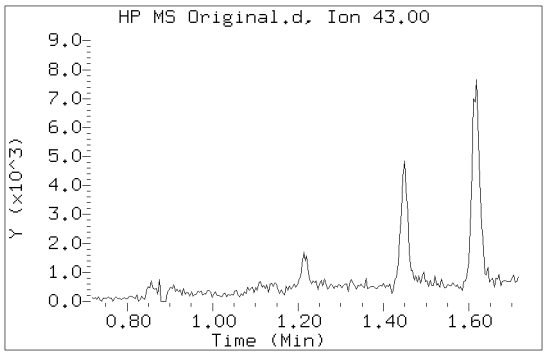
AFTER

MASS
44
AREA
4310
HEIGHT
3066
20-Jun-2023
18:22
linh
pham



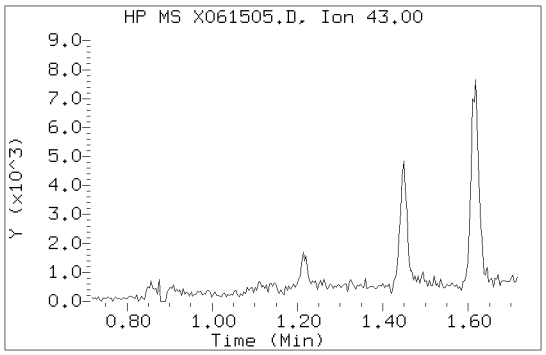
BEFORE

MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
43
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



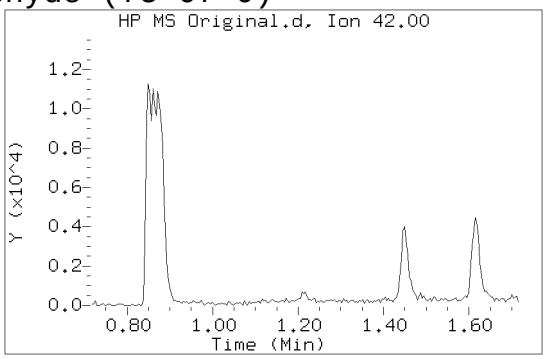
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Inj Date : 15-JUN-2023 12:39
InstruID : voa6.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

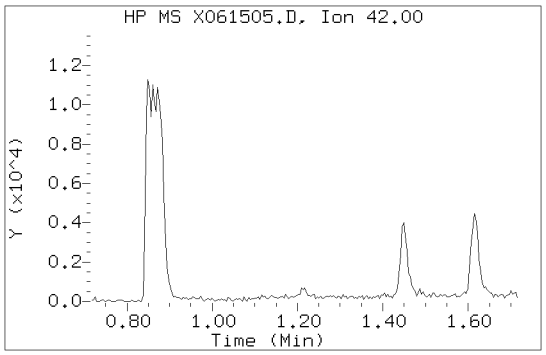
BEFORE

MASS
42
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham

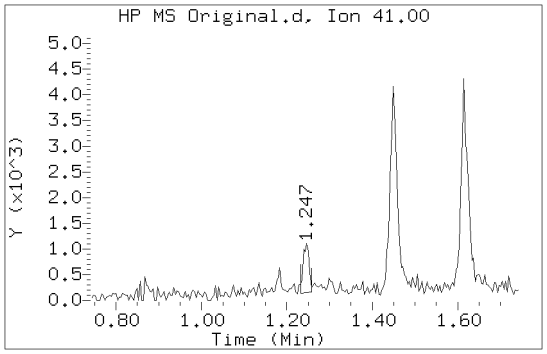


Isobutylene (115-11-7)

Reason Code:

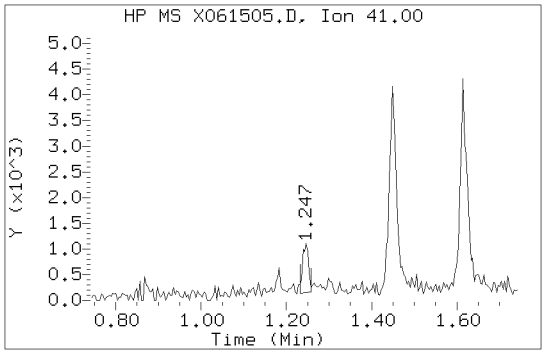
BEFORE

MASS
41
AREA
964
HEIGHT
953
20-Jun-2023
18:22
linh
pham



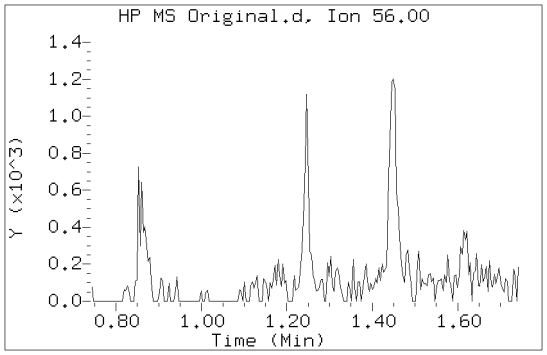
AFTER

MASS
41
AREA
964
HEIGHT
953
20-Jun-2023
18:22
linh
pham



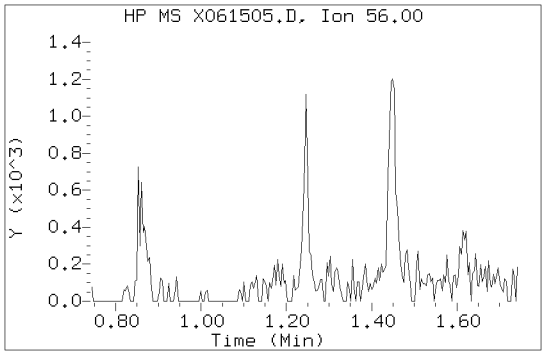
BEFORE

MASS
56
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



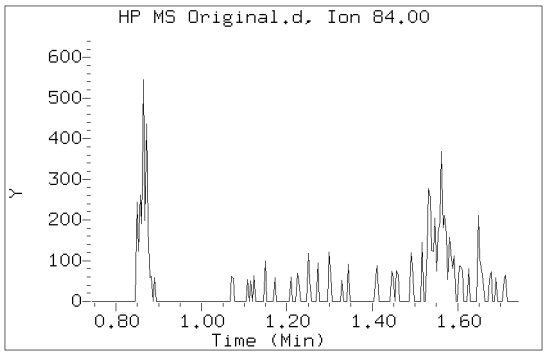
AFTER

MASS
56
AREA
0
HEIGHT
0
20-Jun-2023
18:22
linh
pham



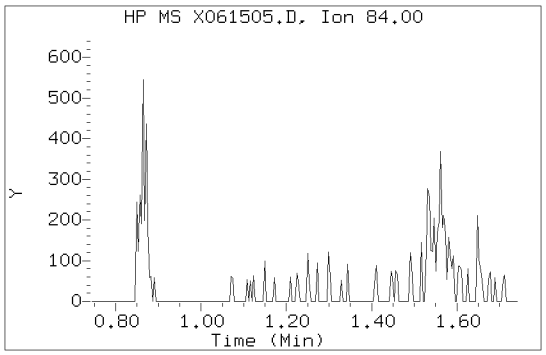
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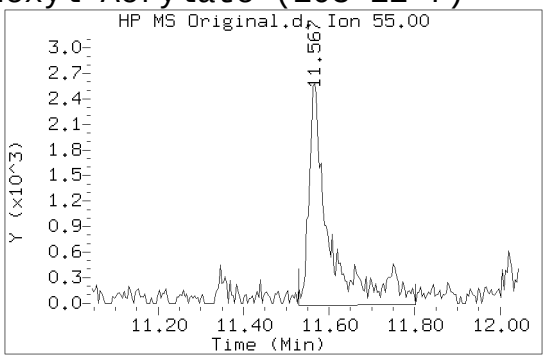
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Inj Date : 15-JUN-2023 12:39
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2-Ethylhexyl Acrylate (103-11-7)

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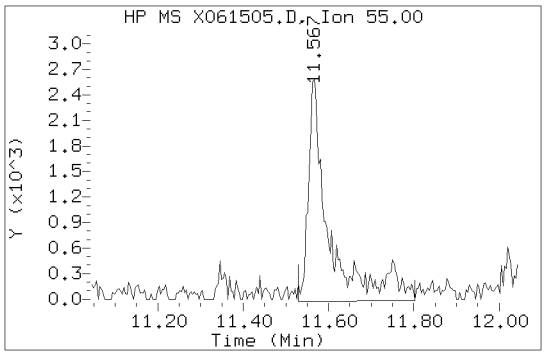
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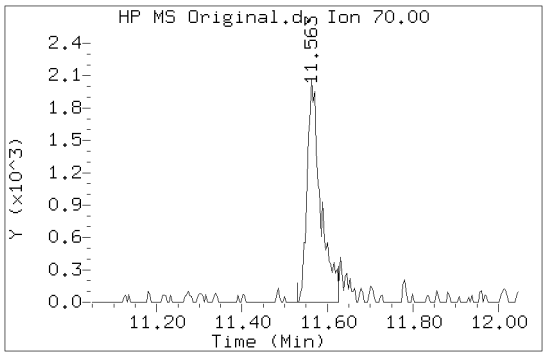
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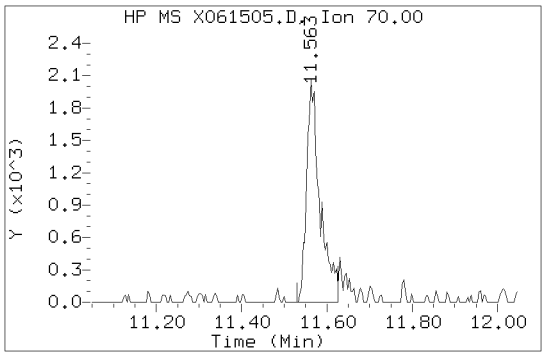
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061506.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 15-JUN-2023 13:00
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:00 Cal File: X061506.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.177	4.177	(1.000)	488017	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	21019	5.00000	5.29
3	Chloromethane	50	1.081	1.081	(0.259)	25651	5.00000	5.89
4	Propionitrile	54	3.668	3.668	(0.878)	29713	50.0000	50.34(a)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	23889	5.00000	4.66
6	Bromomethane	94	1.343	1.343	(0.322)	14528	5.00000	4.93(M)
7	Chloroethane	64	1.407	1.407	(0.337)	15374	5.00000	4.90
8	Trichlorofluoromethane	101	1.565	1.565	(0.375)	28710	5.00000	4.71
9	Acrolein	56	1.445	1.445	(0.346)	2991	10.0000	9.87(a)
10	Acetone	43	1.977	1.977	(0.473)	16276	10.0000	12.55
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	18352	5.00000	4.80
12	Isobutyl Alcohol	43	4.684	4.684	(1.121)	68348	100.000	107.41(a)
13	Acetonitrile	39	2.206	2.206	(0.528)	24760	50.0000	52.30(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	54361	5.00000	5.07(a)
15	Iodomethane	142	2.029	2.029	(0.486)	43988	10.0000	9.17
16	Acrylonitrile	53	2.554	2.554	(0.611)	15118	10.0000	9.75(M)
17	Methylene Chloride	84	2.307	2.307	(0.552)	29661	5.00000	5.49
18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	67305	5.00000	5.04
19	Carbon Disulfide	76	2.071	2.071	(0.496)	128049	10.0000	9.41
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.607)	21908	5.00000	4.79
21	Vinyl Acetate	43	3.008	3.008	(0.720)	127281	10.0000	10.43

22 1,1-Dichloroethane	63	2.925	2.925 (0.700)	39888	5.00000	4.84
23 Chloroprene	53	1.778	1.778 (0.426)	7954	5.00000	4.90(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	3.608	3.608	(0.864)	13344	10.0000	8.30(M)
	25 Methacrylonitrile	41	3.840	3.840	(0.919)	20054	5.00000	4.98(aH)
	26 2,2-Dichloropropane	77	3.514	3.514	(0.841)	33630	5.00000	5.17
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	25475	5.00000	4.83
	28 Chloroform	83	3.908	3.908	(0.935)	43843	5.00000	4.94
	29 Bromochloromethane	128	3.799	3.799	(0.909)	14035	5.00000	4.99
$	30 Dibromofluoromethane	113	4.106	4.106	(0.983)	25267	5.00000	5.49
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	33298	5.00000	4.64
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	31057	5.00000	4.91
	33 1,2-Dichloroethane	62	4.560	4.560	(0.918)	31372	5.00000	4.95
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	28746	5.00000	4.73
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	26822	5.00000	4.94
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	753771	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	91696	5.00000	4.72
	38 Trichloroethene	130	5.212	5.212	(1.050)	26143	5.00000	4.89(a)
	39 Bromodichloromethane	83	5.729	5.729	(1.154)	32837	5.00000	4.78(a)
	40 Methyl Methacrylate	41	5.617	5.617	(1.345)	18034	5.00000	4.77(a)
	41 2-Chloroethylvinyl ether	63	6.059	6.059	(1.220)	18326	10.0000	9.87(a)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	25417	5.00000	4.99(a)
	43 2-Nitropropane	43	5.973	5.973	(1.430)	6797	5.00000	5.16(MH)
	44 Dibromomethane	93	5.553	5.553	(1.119)	15838	5.00000	4.95(a)
	45 4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	47063	10.0000	10.43
	46 cis-1,3-Dichloropropene	75	6.160	6.160	(1.241)	41389	5.00000	4.89(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	697950	50.0000	
$	48 Toluene-d8	98	6.389	6.389	(0.833)	86700	5.00000	4.91(a)
	49 Ethyl Methacrylate	69	6.790	6.790	(1.368)	34147	5.00000	4.95(aH)
	50 Toluene	91	6.449	6.449	(0.841)	96484	5.00000	4.70(a)
	51 trans-1,3-Dichloropropene	75	6.689	6.689	(1.347)	33242	5.00000	4.69(a)
	52 2-Hexanone	43	7.094	7.094	(0.925)	31781	10.0000	10.55
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	20225	5.00000	5.06
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	40289	5.00000	4.99(a)
	55 Dibromochloromethane	129	7.176	7.176	(0.936)	26465	5.00000	4.67(a)
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	20894	5.00000	4.95(a)
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	25353	5.00000	4.96(a)
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	22997	5.00000	5.01
	59 Chlorobenzene	112	7.694	7.694	(1.003)	68862	5.00000	4.91(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	25167	5.00000	4.81(a)
	61 Ethylbenzene	106	7.799	7.799	(1.017)	34698	5.00000	4.80(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	89258	10.0000	10.02
	63 o-Xylene	106	8.241	8.241	(1.075)	43406	5.00000	4.88(a)
	64 Styrene	104	8.263	8.263	(1.078)	70501	5.00000	4.81(a)
	66 Bromoform	173	8.413	8.413	(1.097)	18603	5.00000	4.71(a)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	105918	5.00000	4.82(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	34471	5.00000	5.14
$	69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	37968	5.00000	5.09
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	381050	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	24647	5.00000	5.12
	72 trans-1,4-Dichloro-2-butene	53	8.893	8.893	(1.160)	8239	5.00000	4.84(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	122140	5.00000	4.87(a)
	74 Bromobenzene	156	8.807	8.807	(0.912)	30648	5.00000	4.93(a)
	75 1,3,5-Trimethylbenzene	105	9.069	9.069	(0.939)	88359	5.00000	4.80(a)
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	80274	5.00000	5.04

77	4-Chlorotoluene	91	9.073	9.073 (0.939)	88105	5.00000	4.96(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	74954	5.00000	4.88(a)

	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	9.381	9.381	(0.971)	89491	5.00000	4.82(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	104715	5.00000	4.84(a)
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	91749	5.00000	4.84(a)
83	1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	53191	5.00000	4.81(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	56357	5.00000	4.76(a)
86	Benzyl Chloride	91	9.812	9.812	(1.280)	46695	5.00000	4.05(a)
87	n-Butylbenzene	91	9.999	9.999	(1.035)	79292	5.00000	4.91(a)
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	53221	5.00000	4.85(a)
89	1,2-Dibromo-3-Chloropropane	155	10.663	10.663	(1.104)	5689	5.00000	5.43
90	1,2,4-Trichlorobenzene	180	11.345	11.345	(1.174)	35696	5.00000	4.67(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	16766	5.00000	4.89(a)
92	Naphthalene	128	11.547	11.547	(1.195)	82000	5.00000	4.77(a)
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	33399	5.00000	4.75(a)
146	Methyl acetate	43	2.243	2.243	(0.537)	13585	5.00000	4.70(a)
138	Freon TF	101	1.917	1.917	(0.459)	18080	5.00000	5.43
141	Cyclohexane	56	4.121	4.121	(0.987)	29352	5.00000	4.71(aH)
142	Tetrahydrofuran	42	3.855	3.855	(0.923)	6773	10.0000	9.52
147	Methylcyclohexane	55	5.396	5.396	(1.087)	52494	5.00000	4.98(aM)
135	1,4-Dioxane	88	5.606	5.606	(1.342)	5975	100.000	101.02
132	n-Butanol	56	5.287	5.287	(1.266)	8163	100.000	124.96(aM)
131	Methyl Acrylate	55	3.716	3.716	(0.890)	16619	5.00000	4.20(a)
133	Ethyl Acrylate	55	5.396	5.396	(1.292)	39998	5.00000	5.82(M)
136	n-Hexane	57	2.775	2.775	(0.664)	23971	5.00000	5.42
139	Diethyl ether	59	1.760	1.760	(0.421)	15277	5.00000	4.99(a)
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	50993	100.000	101.75
149	Isopropyl alcohol	45	2.101	2.101	(0.503)	26563	100.000	96.02
156	Diisopropyl ether	45	3.004	3.004	(0.719)	71238	5.00000	4.94(Ta)
160	2-Methylnaphthalene	142	12.642	12.642	(1.308)	35100	5.00000	4.66
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	90660	5.00000	5.00
167	Ethanol	45	1.711	1.711	(0.410)	5165	100.000	110.73
172	tert-Butyl formate	59	4.620	4.620	(1.106)	41840	10.0000	10.41
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	59619	100.000	104.43
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	78074	5.00000	4.98(a)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	71669	5.00000	4.81(a)
176	tert-Amyl alcohol	59	4.620	4.620	(1.106)	41840	100.000	102.06
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	125924	100.000	105.05(M)
180	1-Methylnaphthalene	142	12.642	12.642	(1.308)	35100	5.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	18461	5.00000	4.56(a)
152	Amyl alcohol	42	6.918	6.918	(0.902)	10877	100.000	83.64(M)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	33935	5.00000	4.83
159	Propylene oxide	43	1.805	1.805	(0.432)	4141	10.0000	9.57
161	3-Methyl-1-butanol	55	6.921	6.921	(0.903)	10033	100.000	107.44
162	Butyl acrylate	55	8.260	8.260	(1.077)	48821	5.00000	5.22
163	Butyl methacrylate	41	9.174	9.174	(0.950)	33077	5.00000	5.16
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	112719	5.00000	5.28
182	Epichlorohydrin	57	6.104	6.104	(1.230)	8423	20.0000	18.68
M 94	1,2-Dichloroethylene (total)	96				47383	10.0000	9.62(a)
M 95	Xylenes (total)	106				132664	15.0000	14.90(a)
130	Ethyl Acetate	43	3.668	3.668	(0.878)	25843	5.00000	5.19
134	Cyclohexanone	55	8.646	8.646	(0.895)	24566	100.000	102.53(a)
185	Isoprene	39	1.771	1.771	(0.424)	5765	5.00000	4.34(a)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	68348	5.00000	5.25

187 n-Amyl acetate	43	8.462	8.462 (1.104)	46339	5.00000	4.95(a)
189 n-Butyl acetate	43	7.221	7.221 (0.942)	38984	5.00000	5.21(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.775	2.775	(0.664)	23971	100.000	107.32
194 Acetaldehyde	44	1.216	1.216	(0.291)	6656	20.0000	22.91(M)
195 Methyl Amyl Ketone	43	8.387	8.387	(1.094)	52850	5.00000	5.14
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	50470	5.00000	4.87(a)
202 Isobutylene	41	1.242	1.242	(0.297)	2239	5.00000	4.79(aM)
205 2-Ethylhexyl Acrylate	55	11.551	11.551	(1.196)	25308	5.00000	4.76(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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061507.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061507.D
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Inj Date : 15-JUN-2023 13:21
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:21 Cal File: X061507.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.178	4.178	(1.000)	489657	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	86585	20.0000	20.72
3	Chloromethane	50	1.081	1.081	(0.259)	97329	20.0000	19.44
4	Propionitrile	54	3.653	3.653	(0.874)	124537	200.000	210.30(a)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	99862	20.0000	19.41
6	Bromomethane	94	1.344	1.344	(0.322)	54855	20.0000	18.58
7	Chloroethane	64	1.407	1.407	(0.337)	62269	20.0000	19.80
8	Trichlorofluoromethane	101	1.565	1.565	(0.375)	117479	20.0000	19.22
9	Acrolein	56	1.445	1.445	(0.346)	11716	40.0000	38.55
10	Acetone	43	1.977	1.977	(0.473)	54363	40.0000	42.42
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	72051	20.0000	18.79
12	Isobutyl Alcohol	43	4.676	4.676	(1.119)	270352	400.000	423.44(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	94507	200.000	198.98(a)
14	Allyl Chloride	41	2.202	2.202	(0.527)	212180	20.0000	19.75(a)
15	Iodomethane	142	2.030	2.030	(0.486)	223261	40.0000	36.88
16	Acrylonitrile	53	2.539	2.539	(0.608)	63444	40.0000	40.81
17	Methylene Chloride	84	2.303	2.303	(0.551)	103912	20.0000	19.18
18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	262034	20.0000	19.58
19	Carbon Disulfide	76	2.071	2.071	(0.496)	517323	40.0000	37.89
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	87737	20.0000	19.12
21	Vinyl Acetate	43	3.000	3.000	(0.718)	534964	40.0000	43.69

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	161028	20.0000	19.48
23 Chloroprene	53	1.775	1.775 (0.425)	30284	20.0000	18.60(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.585	3.585	(0.858)	61551	40.0000	38.19
25	Methacrylonitrile	41	3.829	3.829	(0.917)	80752	20.0000	19.98(aH)
26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	134641	20.0000	20.64
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	101910	20.0000	19.26
28	Chloroform	83	3.908	3.908	(0.935)	168304	20.0000	18.92
29	Bromochloromethane	128	3.795	3.795	(0.908)	53335	20.0000	18.92
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.981)	90715	20.0000	20.54
31	1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	137926	20.0000	19.18
32	1,1-Dichloropropene	75	4.282	4.282	(0.863)	120835	20.0000	19.11
33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	124099	20.0000	19.58
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	114389	20.0000	18.81
$ 35	1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	99379	20.0000	20.55
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	754600	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	373170	20.0000	19.22
38	Trichloroethene	130	5.208	5.208	(1.049)	103081	20.0000	19.26
39	Bromodichloromethane	83	5.726	5.726	(1.153)	130164	20.0000	18.95
40	Methyl Methacrylate	41	5.606	5.606	(1.342)	77299	20.0000	20.39(a)
41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	79598	40.0000	42.84
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	100950	20.0000	19.81
43	2-Nitropropane	43	5.969	5.969	(1.429)	26346	20.0000	19.96(H)
44	Dibromomethane	93	5.550	5.550	(1.118)	63997	20.0000	20.00
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	193266	40.0000	42.28
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	164762	20.0000	19.46
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	707583	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	349010	20.0000	19.50
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	132083	20.0000	19.16(aH)
50	Toluene	91	6.445	6.445	(0.841)	400928	20.0000	19.30
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	140752	20.0000	19.87
52	2-Hexanone	43	7.086	7.086	(0.924)	134211	40.0000	43.95
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	78488	20.0000	19.39
54	1,3-Dichloropropane	76	6.981	6.981	(0.911)	163359	20.0000	19.96
55	Dibromochloromethane	129	7.173	7.173	(0.935)	111592	20.0000	19.45
56	Tetrachloroethene	164	6.925	6.925	(0.903)	80991	20.0000	18.95
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	100177	20.0000	19.36
58	1-Chlorohexane	55	7.694	7.694	(1.550)	89942	20.0000	19.59
59	Chlorobenzene	112	7.694	7.694	(1.003)	272588	20.0000	19.17
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	101037	20.0000	19.06
61	Ethylbenzene	106	7.799	7.799	(1.017)	138944	20.0000	18.97
62	m,p-Xylenes	106	7.904	7.904	(1.031)	349440	40.0000	38.69
63	o-Xylene	106	8.241	8.241	(1.075)	172627	20.0000	19.15
64	Styrene	104	8.260	8.260	(1.077)	290351	20.0000	19.56
66	Bromoform	173	8.410	8.410	(1.097)	77639	20.0000	19.41
67	Isopropylbenzene	105	8.560	8.560	(1.116)	418865	20.0000	18.80
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	134456	20.0000	19.65
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	139706	20.0000	19.90
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	389124	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	108010	20.0000	22.01
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	35313	20.0000	20.50(a)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	504305	20.0000	19.69
74	Bromobenzene	156	8.803	8.803	(0.911)	122207	20.0000	19.26
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	365012	20.0000	19.42
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	315569	20.0000	19.40

77	4-Chlorotoluene	91	9.069	9.069 (0.939)	357516	20.0000	19.71
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	303752	20.0000	19.40

	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	9.377	9.377	(0.971)	371444	20.0000	19.59
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	419674	20.0000	19.00
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	375150	20.0000	19.40
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	218959	20.0000	19.38
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	232551	20.0000	19.23
86	Benzyl Chloride	91	9.808	9.808	(1.279)	224211	20.0000	19.18
87	n-Butylbenzene	91	9.995	9.995	(1.035)	329929	20.0000	20.04
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	219152	20.0000	19.55
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	22086	20.0000	19.93
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	155839	20.0000	19.99
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	63742	20.0000	18.21
92	Naphthalene	128	11.544	11.544	(1.195)	366963	20.0000	20.91
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	143690	20.0000	20.03
146	Methyl acetate	43	2.236	2.236	(0.535)	60459	20.0000	20.86
138	Freon TF	101	1.917	1.917	(0.459)	69934	20.0000	20.78
141	Cyclohexane	56	4.121	4.121	(0.987)	118290	20.0000	18.95
142	Tetrahydrofuran	42	3.848	3.848	(0.921)	30075	40.0000	42.14
147	Methylcyclohexane	55	5.381	5.381	(1.084)	202443	20.0000	19.19(M)
135	1,4-Dioxane	88	5.598	5.598	(1.340)	23581	400.000	397.38
132	n-Butanol	56	5.261	5.261	(1.259)	42441	400.000	375.27(a)
131	Methyl Acrylate	55	3.694	3.694	(0.884)	81771	20.0000	20.61
133	Ethyl Acrylate	55	5.381	5.381	(1.288)	144388	20.0000	14.83(M)
136	n-Hexane	57	2.772	2.772	(0.664)	95375	20.0000	21.84
139	Diethyl ether	59	1.760	1.760	(0.421)	60650	20.0000	19.77
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	196347	400.000	390.48
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	106653	400.000	384.27
156	Diisopropyl ether	45	3.000	3.000	(0.718)	281797	20.0000	19.51
160	2-Methylnaphthalene	142	12.638	12.638	(1.308)	157545	20.0000	20.51
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	360447	20.0000	19.48
167	Ethanol	45	1.707	1.707	(0.409)	18569	400.000	396.76
172	tert-Butyl formate	59	4.616	4.616	(1.105)	159552	40.0000	39.56
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	229127	400.000	395.91
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	299445	20.0000	19.06
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.809)	286959	20.0000	19.19
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	159552	400.000	387.92
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	449919	400.000	374.94
180	1-Methylnaphthalene	142	12.638	12.638	(1.308)	157545	20.0000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	79048	20.0000	19.48
152	Amyl alcohol	42	6.903	6.903	(0.900)	53030	400.000	402.24
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	130577	20.0000	18.55
159	Propylene oxide	43	1.805	1.805	(0.432)	16191	40.0000	37.29
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	52635	400.000	408.16
162	Butyl acrylate	55	8.252	8.252	(1.076)	203667	20.0000	19.81
163	Butyl methacrylate	41	9.171	9.171	(0.949)	139381	20.0000	21.29
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	418286	20.0000	19.21
182	Epichlorohydrin	57	6.097	6.097	(1.228)	35522	80.0000	78.69
M 94	1,2-Dichloroethylene (total)	96				189647	40.0000	38.39
M 95	Xylenes (total)	106				522067	60.0000	57.85
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	183918	20.0000	19.97
130	Ethyl Acetate	43	3.656	3.656	(0.875)	104842	20.0000	21.00
134	Cyclohexanone	55	8.642	8.642	(0.894)	91911	400.000	410.27(a)
185	Isoprene	39	1.771	1.771	(0.424)	22566	20.0000	16.93

188 Isopropyl acetate	43	4.676	4.676 (0.942)	270352	20.0000	20.74
187 n-Amyl acetate	43	8.451	8.451 (1.102)	194165	20.0000	20.49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.214	7.214	(0.941)	161428	20.0000	21.30(H)
150 Allyl alcohol	57	2.772	2.772	(0.664)	95375	400.000	436.24
194 Acetaldehyde	44	1.216	1.216	(0.291)	20285	80.0000	76.62(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	220297	20.0000	21.14
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	203599	20.0000	19.40
202 Isobutylene	41	1.242	1.242	(0.297)	8262	20.0000	17.64(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	120798	20.0000	17.62(M)

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\voa6.i\X230615.b\X061508.D Page 1
Report Date: 05-Jul-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061508.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 15-JUN-2023 13:42
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 05-Jul-2023 13:01 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:45 Cal File: X061511.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7051

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	4.181	4.181	(1.000)	492816	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	197396	50.0000	46.53
3	Chloromethane	50	1.081	1.081	(0.259)	241131	50.0000	46.36
4	Propionitrile	54	3.653	3.653	(0.874)	304381	500.000	510.70
5	Vinyl Chloride	62	1.145	1.145	(0.274)	240339	50.0000	46.43
6	Bromomethane	94	1.344	1.344	(0.321)	137932	50.0000	46.42
7	Chloroethane	64	1.407	1.407	(0.337)	149942	50.0000	47.39
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	272748	50.0000	44.34
9	Acrolein	56	1.449	1.449	(0.347)	27543	100.000	90.06
10	Acetone	43	1.977	1.977	(0.473)	120180	100.000	93.50
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	175031	50.0000	45.36
12	Isobutyl Alcohol	43	4.672	4.672	(1.117)	634764	1000.00	987.83
13	Acetonitrile	39	2.202	2.202	(0.527)	239543	500.000	501.13
14	Allyl Chloride	41	2.202	2.202	(0.527)	536037	50.0000	49.59
15	Iodomethane	142	2.030	2.030	(0.485)	622671	100.000	97.37
16	Acrylonitrile	53	2.536	2.536	(0.606)	151533	100.000	96.86
17	Methylene Chloride	84	2.307	2.307	(0.552)	248535	50.0000	45.60
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	648118	50.0000	48.12
19	Carbon Disulfide	76	2.071	2.071	(0.495)	1253720	100.000	91.25
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	213845	50.0000	46.31

21 Vinyl Acetate	43	2.997	2.997 (0.717)	1287138	100.000	104.45
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	390252	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	1.775	1.775	(0.425)	73527	50.0000	44.88(M)
	24 2-Butanone	43	3.574	3.574	(0.855)	166054	100.000	102.38
	25 Methacrylonitrile	41	3.821	3.821	(0.914)	202059	50.0000	49.69(aH)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	313511	50.0000	47.76
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	251495	50.0000	47.23
	28 Chloroform	83	3.904	3.904	(0.934)	411769	50.0000	45.99
	29 Bromochloromethane	128	3.795	3.795	(0.908)	132725	50.0000	46.78
$	30 Dibromofluoromethane	113	4.095	4.095	(0.979)	209535	50.0000	47.59
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	324614	50.0000	44.86
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	288880	50.0000	45.69
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	306752	50.0000	48.42
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	268670	50.0000	44.19
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	238148	50.0000	50.13
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	754448	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	918710	50.0000	47.34
	38 Trichloroethene	130	5.205	5.205	(1.048)	248720	50.0000	46.48
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	322289	50.0000	46.94
	40 Methyl Methacrylate	41	5.602	5.602	(1.340)	191236	50.0000	50.12
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	193001	100.000	103.89
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	247937	50.0000	48.67
	43 2-Nitropropane	43	5.966	5.966	(1.427)	65936	50.0000	49.64(H)
	44 Dibromomethane	93	5.553	5.553	(1.119)	153422	50.0000	47.97
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	451055	100.000	99.73
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	414700	50.0000	48.99
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	700134	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	793009	50.0000	44.80
	49 Ethyl Methacrylate	69	6.783	6.783	(1.366)	343257	50.0000	49.80(H)
	50 Toluene	91	6.446	6.446	(0.841)	985523	50.0000	47.94
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	351970	50.0000	49.70
	52 2-Hexanone	43	7.087	7.087	(0.924)	307641	100.000	101.83
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	191485	50.0000	47.81
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	394668	50.0000	48.74
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	276136	50.0000	48.65
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	188588	50.0000	44.61
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	242321	50.0000	47.34
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	204135	50.0000	44.49
	59 Chlorobenzene	112	7.690	7.690	(1.003)	670262	50.0000	47.65
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	247525	50.0000	47.19
	61 Ethylbenzene	106	7.799	7.799	(1.017)	337944	50.0000	46.63
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	865023	100.000	96.80
	63 o-Xylene	106	8.237	8.237	(1.074)	421695	50.0000	47.29
	64 Styrene	104	8.256	8.256	(1.077)	726936	50.0000	49.49
	66 Bromoform	173	8.406	8.406	(1.096)	193324	50.0000	48.86
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1020952	50.0000	46.32
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	322973	50.0000	45.91
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	332999	50.0000	48.70
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	400046	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	233477	50.0000	46.28(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	85424	50.0000	50.12
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1227225	50.0000	46.61
	74 Bromobenzene	156	8.803	8.803	(0.911)	307004	50.0000	47.08
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	897093	50.0000	46.44

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	765612	50.0000	45.79
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	883550	50.0000	47.38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	729912	50.0000	45.35	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	919002	50.0000	47.15	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1013804	50.0000	44.66	
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	914630	50.0000	46.02	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	550233	50.0000	47.39	
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	582612	50.0000	46.88	
86	Benzyl Chloride	91	9.804	9.804	(1.279)	583705	50.0000	50.47	
87	n-Butylbenzene	91	9.992	9.992	(1.034)	814070	50.0000	48.10	
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	553758	50.0000	48.07	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	57289	50.0000	49.90	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	403454	50.0000	50.34	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	160721	50.0000	44.68	
92	Naphthalene	128	11.540	11.540	(1.194)	921832	50.0000	51.10	
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	365678	50.0000	49.59	
146	Methyl acetate	43	2.232	2.232	(0.534)	148083	50.0000	50.76	
138	Freon TF	101	1.917	1.917	(0.459)	158688	50.0000	46.35	
141	Cyclohexane	56	4.118	4.118	(0.985)	274803	50.0000	43.74	
142	Tetrahydrofuran	42	3.844	3.844	(0.919)	72495	100.000	100.93	
147	Methylcyclohexane	55	5.377	5.377	(1.083)	533003	50.0000	50.54	
135	1,4-Dioxane	88	5.598	5.598	(1.339)	56523	1000.00	946.41	
132	n-Butanol	56	5.253	5.253	(1.256)	116028	1000.00	907.61	
131	Methyl Acrylate	55	3.690	3.690	(0.883)	211890	50.0000	53.08	
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	533003	50.0000	48.09	
136	n-Hexane	57	2.776	2.776	(0.664)	208750	50.0000	46.44	
139	Diethyl ether	59	1.760	1.760	(0.421)	148690	50.0000	48.15	
148	Tert-butyl alcohol	59	2.431	2.431	(0.581)	465312	1000.00	919.46	
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	254962	1000.00	912.73	
156	Diisopropyl ether	45	3.001	3.001	(0.718)	713579	50.0000	49.09	
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	394789	50.0000	50.00	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	940766	50.0000	49.47	
167	Ethanol	45	1.704	1.704	(0.407)	42212	1000.00	896.16	
172	tert-Butyl formate	59	4.616	4.616	(1.104)	374840	100.000	92.35	
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	494306	1000.00	863.21	
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	751714	50.0000	47.55	
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	719611	50.0000	47.83	
176	tert-Amyl alcohol	59	4.616	4.616	(1.104)	374840	1000.00	905.51	
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	1032494	1000.00	860.61	
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	394789	50.0000		(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	188849	50.0000	46.24	
152	Amyl alcohol	42	6.899	6.899	(0.900)	133001	1000.00	1019.57	
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	334814	50.0000	47.27	
159	Propylene oxide	43	1.805	1.805	(0.432)	36073	100.000	82.56	
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	125842	1000.00	936.08	
162	Butyl acrylate	55	8.249	8.249	(1.076)	512904	50.0000	49.57	
163	Butyl methacrylate	41	9.167	9.167	(0.949)	352536	50.0000	52.39	
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	1059682	50.0000	47.36	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	80467	200.000	178.30	
M 94	1,2-Dichloroethylene (total)	96				465340	100.000		(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	459940	50.0000	48.60	
130	Ethyl Acetate	43	3.657	3.657	(0.875)	241252	50.0000	48.02	
134	Cyclohexanone	55	8.638	8.638	(0.894)	225144	1000.00	995.53	
185	Isoprene	39	1.775	1.775	(0.425)	54933	50.0000	40.95	

188 Isopropyl acetate	43	4.672	4.672 (0.941)	638971	50.0000	49.04
187 n-Amyl acetate	43	8.451	8.451 (1.102)	446148	50.0000	47.58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	384979	50.0000	51.34(H)
150 Allyl alcohol	57	2.776	2.776	(0.664)	208750	1000.00	928.85
194 Acetaldehyde	44	1.216	1.216	(0.291)	50952	200.000	196.39(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	518535	50.0000	50.29
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	533595	50.0000	51.39
202 Isobutylene	41	1.242	1.242	(0.297)	22667	50.0000	48.10(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	360378	50.0000	48.72(M)

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\voa6.i\X230615.b\X061509.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061509.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 15-JUN-2023 14:03
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:03 Cal File: X061509.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	495501	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	431897	100.000	100.87
3	Chloromethane	50	1.081	1.081	(0.259)	524590	100.000	99.12
4	Propionitrile	54	3.649	3.649	(0.873)	599655	1000.00	1000.67
5	Vinyl Chloride	62	1.149	1.149	(0.275)	501013	100.000	96.27
6	Bromomethane	94	1.344	1.344	(0.321)	288326	100.000	96.52
7	Chloroethane	64	1.407	1.407	(0.337)	306060	100.000	96.21
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	598877	100.000	96.84
9	Acrolein	56	1.449	1.449	(0.347)	62591	200.000	203.57
10	Acetone	43	1.973	1.973	(0.472)	254517	200.000	197.25
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	364522	100.000	93.96
12	Isobutyl Alcohol	43	4.672	4.672	(1.117)	1268000	2000.00	1962.59
13	Acetonitrile	39	2.198	2.198	(0.526)	484091	1000.00	1007.25
14	Allyl Chloride	41	2.198	2.198	(0.526)	1079064	100.000	99.30
15	Iodomethane	142	2.030	2.030	(0.485)	1361652	200.000	206.18
16	Acrylonitrile	53	2.536	2.536	(0.606)	316304	200.000	201.10
17	Methylene Chloride	84	2.303	2.303	(0.551)	490960	100.000	89.59
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	1281775	100.000	94.66
19	Carbon Disulfide	76	2.071	2.071	(0.495)	2629763	200.000	190.38
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	439343	100.000	94.64
21	Vinyl Acetate	43	2.997	2.997	(0.717)	2457055	200.000	198.31

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	801750	100.000	95.87
23 Chloroprene	53	1.771	1.771 (0.424)	161195	100.000	97.87(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.574	3.574	(0.855)	351579	200.000	215.60
25	Methacrylonitrile	41	3.818	3.818	(0.913)	394582	100.000	96.51(aH)
26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	661036	100.000	100.17
27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	508020	100.000	94.90
28	Chloroform	83	3.904	3.904	(0.934)	818333	100.000	90.92
29	Bromochloromethane	128	3.792	3.792	(0.907)	265719	100.000	93.15
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.979)	449558	100.000	101.94
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	691238	100.000	95.02
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	621302	100.000	97.62
33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	619081	100.000	97.07
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	590757	100.000	96.51
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	480296	100.000	101.41
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	759537	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	1903903	100.000	97.44
38	Trichloroethene	130	5.205	5.205	(1.048)	527345	100.000	97.89
39	Bromodichloromethane	83	5.722	5.722	(1.153)	657597	100.000	95.15
40	Methyl Methacrylate	41	5.602	5.602	(1.340)	386280	100.000	100.70
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	379788	200.000	203.08
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	505068	100.000	98.48
43	2-Nitropropane	43	5.966	5.966	(1.427)	130452	100.000	97.68(H)
44	Dibromomethane	93	5.550	5.550	(1.118)	306749	100.000	95.28
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	894293	200.000	193.09
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	851192	100.000	99.89
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	716953	50.0000	
$ 48	Toluene-d8	98	6.386	6.386	(0.833)	1762374	100.000	97.22
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	676176	100.000	97.44(H)
50	Toluene	91	6.446	6.446	(0.841)	2049854	100.000	97.39
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	708794	100.000	99.41
52	2-Hexanone	43	7.083	7.083	(0.924)	616657	200.000	199.33
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	386891	100.000	94.35
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	798132	100.000	96.26
55	Dibromochloromethane	129	7.173	7.173	(0.935)	568303	100.000	97.79
56	Tetrachloroethene	164	6.925	6.925	(0.903)	417138	100.000	96.37
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	492910	100.000	94.04
58	1-Chlorohexane	55	7.694	7.694	(1.550)	447382	100.000	96.85
59	Chlorobenzene	112	7.690	7.690	(1.003)	1379283	100.000	95.77
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	518754	100.000	96.59
61	Ethylbenzene	106	7.795	7.795	(1.017)	716254	100.000	96.52
62	m,p-Xylenes	106	7.900	7.900	(1.030)	1808556	200.000	197.64
63	o-Xylene	106	8.237	8.237	(1.074)	881676	100.000	96.56
64	Styrene	104	8.256	8.256	(1.077)	1495586	100.000	99.44
66	Bromoform	173	8.406	8.406	(1.096)	398754	100.000	98.42
67	Isopropylbenzene	105	8.560	8.560	(1.116)	2193383	100.000	97.18
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	652900	100.000	89.45
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	703849	100.000	101.09
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	415088	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	479418	100.000	91.60
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	178104	100.000	102.06
73	n-Propylbenzene	91	8.908	8.908	(0.922)	2636189	100.000	96.51
74	Bromobenzene	156	8.803	8.803	(0.911)	639671	100.000	94.55
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1937766	100.000	96.68
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	1592392	100.000	91.80

77	4-Chlorotoluene	91	9.066	9.066 (0.938)	1851947	100.000	95.71
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	1602812	100.000	95.98

	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	9.377	9.377	(0.971)	1952643	100.000	96.56
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	2290981	100.000	97.28
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	2068710	100.000	100.33
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1179035	100.000	97.87
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1231486	100.000	95.50
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1261181	100.000	106.49
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1840344	100.000	104.79
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1168783	100.000	97.78
89	1,2-Dibromo-3-Chloropropane	155	10.652	10.652	(1.102)	117282	100.000	98.20
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	872938	100.000	104.98
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	384079	100.000	102.91
92	Naphthalene	128	11.536	11.536	(1.194)	1926226	100.000	102.91
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	783021	100.000	102.34
146	Methyl acetate	43	2.232	2.232	(0.534)	289526	100.000	98.71
138	Freon TF	101	1.917	1.917	(0.459)	355059	100.000	100.76
141	Cyclohexane	56	4.121	4.121	(0.986)	620885	100.000	98.29
142	Tetrahydrofuran	42	3.840	3.840	(0.918)	142469	200.000	197.28
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1125305	100.000	106.00(A)
135	1,4-Dioxane	88	5.598	5.598	(1.339)	120015	2000.00	1998.62
132	n-Butanol	56	5.250	5.250	(1.255)	246332	2000.00	1844.09
131	Methyl Acrylate	55	3.687	3.687	(0.882)	416983	100.000	103.90(M)
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	1125305	100.000	98.39
136	n-Hexane	57	2.772	2.772	(0.663)	496122	100.000	102.05
139	Diethyl ether	59	1.760	1.760	(0.421)	299105	100.000	96.35
148	Tert-butyl alcohol	59	2.427	2.427	(0.580)	915279	2000.00	1798.80
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	521733	2000.00	1857.62
156	Diisopropyl ether	45	3.001	3.001	(0.718)	1426018	100.000	97.58
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	820577	100.000	100.15
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1981777	100.000	100.44
167	Ethanol	45	1.707	1.707	(0.408)	84145	2000.00	1776.72
172	tert-Butyl formate	59	4.616	4.616	(1.104)	756526	200.000	185.39
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	1023974	2000.00	1746.23
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	1510011	100.000	95.00
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	1438799	100.000	95.12
176	tert-Amyl alcohol	59	4.616	4.616	(1.104)	756526	2000.00	1817.65
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	2081892	2000.00	1723.68
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	820577	100.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	405380	100.000	98.72
152	Amyl alcohol	42	6.899	6.899	(0.900)	278205	2000.00	2082.66
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	693033	100.000	97.31
159	Propylene oxide	43	1.808	1.808	(0.433)	69625	200.000	158.49
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	266062	2000.00	1894.99
162	Butyl acrylate	55	8.249	8.249	(1.076)	1042036	100.000	97.81
163	Butyl methacrylate	41	9.167	9.167	(0.949)	680469	100.000	97.46
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	2180940	100.000	93.94
182	Epichlorohydrin	57	6.093	6.093	(1.227)	164288	400.000	361.60
M 94	1,2-Dichloroethylene (total)	96				947363	200.000	189.55
M 95	Xylenes (total)	106				2690232	300.000	294.20
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	980440	100.000	99.84
130	Ethyl Acetate	43	3.653	3.653	(0.874)	454946	100.000	90.07
134	Cyclohexanone	55	8.642	8.642	(0.894)	470281	2000.00	2017.28
185	Isoprene	39	1.771	1.771	(0.424)	117560	100.000	87.18

188 Isopropyl acetate	43	4.672	4.672 (0.941)	1268530	100.000	96.70
187 n-Amyl acetate	43	8.451	8.451 (1.102)	916897	100.000	95.49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	766562	100.000	99.82(H)
150 Allyl alcohol	57	2.772	2.772	(0.663)	496122	2000.00	2041.64
194 Acetaldehyde	44	1.216	1.216	(0.291)	103450	400.000	400.10(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1079051	100.000	102.21
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1080422	100.000	101.61
202 Isobutylene	41	1.242	1.242	(0.297)	44663	100.000	94.27(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	790630	100.000	101.60

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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061510.D Page 1
Report Date: 05-Jul-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061510.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 15-JUN-2023 14:24
Operator : PC Inst ID: voa6.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:24 Cal File: X061510.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	496372	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	640204	150.000	149.11
3	Chloromethane	50	1.081	1.081	(0.259)	786709	150.000	147.87
4	Propionitrile	54	3.649	3.649	(0.873)	930050	1500.00	1549.29
5	Vinyl Chloride	62	1.145	1.145	(0.274)	746276	150.000	143.15
6	Bromomethane	94	1.336	1.336	(0.320)	433384	150.000	144.83
7	Chloroethane	64	1.404	1.404	(0.336)	453938	150.000	142.45
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	900602	150.000	145.38
9	Acrolein	56	1.445	1.445	(0.346)	97655	300.000	317.05
10	Acetone	43	1.973	1.973	(0.472)	376478	300.000	291.39
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	543055	150.000	139.74
12	Isobutyl Alcohol	43	4.672	4.672	(1.117)	1920074	3000.00	2966.65
13	Acetonitrile	39	2.198	2.198	(0.526)	746339	1500.00	1550.19
14	Allyl Chloride	41	2.198	2.198	(0.526)	1653414	150.000	151.89
15	Iodomethane	142	2.030	2.030	(0.485)	1987305	300.000	295.77
16	Acrylonitrile	53	2.532	2.532	(0.606)	489629	300.000	310.76
17	Methylene Chloride	84	2.303	2.303	(0.551)	728727	150.000	132.75
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	1979321	150.000	145.93
19	Carbon Disulfide	76	2.071	2.071	(0.495)	4109640	300.000	296.99
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	664057	150.000	142.80
21	Vinyl Acetate	43	2.997	2.997	(0.717)	3702324	300.000	298.30

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1188336	150.000	141.85
23 Chloroprene	53	1.771	1.771 (0.424)	235576	150.000	142.78

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.574	3.574	(0.855)	535272	300.000	327.67
25	Methacrylonitrile	41	3.818	3.818	(0.913)	606858	150.000	148.17(aH)
26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	998442	150.000	151.04
27	cis-1,2-Dichloroethene	96	3.522	3.522	(0.842)	764228	150.000	142.51
28	Chloroform	83	3.904	3.904	(0.934)	1226489	150.000	136.03
29	Bromochloromethane	128	3.791	3.791	(0.907)	402633	150.000	140.90
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.979)	670515	150.000	151.95
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	1052921	150.000	144.48
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	948327	150.000	149.27
33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	933139	150.000	146.58
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	907027	150.000	148.45
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	717187	150.000	151.59
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	758148	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	2855100	150.000	146.40
38	Trichloroethene	130	5.205	5.205	(1.048)	801968	150.000	149.14
39	Bromodichloromethane	83	5.722	5.722	(1.153)	985431	150.000	142.84
40	Methyl Methacrylate	41	5.602	5.602	(1.340)	588875	150.000	153.24
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	573937	300.000	307.45
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	749457	150.000	146.41
43	2-Nitropropane	43	5.966	5.966	(1.427)	204861	150.000	153.12(H)
44	Dibromomethane	93	5.550	5.550	(1.118)	460730	150.000	143.38
45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	1336051	300.000	286.37
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1279171	150.000	150.39
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	722233	50.0000	
$ 48	Toluene-d8	98	6.386	6.386	(0.833)	2595498	150.000	142.14
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	1055761	150.000	152.43(H)
50	Toluene	91	6.446	6.446	(0.841)	3078749	150.000	145.20
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1082340	150.000	152.08
52	2-Hexanone	43	7.083	7.083	(0.924)	932009	300.000	299.06
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	582084	150.000	140.91
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	1189873	150.000	142.46
55	Dibromochloromethane	129	7.173	7.173	(0.935)	863836	150.000	147.55
56	Tetrachloroethene	164	6.925	6.925	(0.903)	652660	150.000	149.68
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	750201	150.000	142.08
58	1-Chlorohexane	55	7.694	7.694	(1.550)	693641	150.000	150.44
59	Chlorobenzene	112	7.690	7.690	(1.003)	2097306	150.000	144.56
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	788685	150.000	145.78
61	Ethylbenzene	106	7.799	7.799	(1.017)	1108469	150.000	148.29
62	m,p-Xylenes	106	7.904	7.904	(1.031)	2779898	300.000	301.57
63	o-Xylene	106	8.237	8.237	(1.074)	1341283	150.000	145.82
64	Styrene	104	8.256	8.256	(1.077)	2293595	150.000	151.38
66	Bromoform	173	8.406	8.406	(1.096)	616100	150.000	150.96
67	Isopropylbenzene	105	8.560	8.560	(1.116)	3423955	150.000	150.60
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	999723	150.000	133.32
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1057321	150.000	151.02
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	426427	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	728412	150.000	135.47(M)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	276176	150.000	157.10
73	n-Propylbenzene	91	8.912	8.912	(0.922)	4145728	150.000	147.73
74	Bromobenzene	156	8.803	8.803	(0.911)	998637	150.000	143.68
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	3021206	150.000	146.72
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	2465333	150.000	138.34

77	4-Chlorotoluene	91	9.066	9.066 (0.938)	2873857	150.000	144.58
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	2516939	150.000	146.72

	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	9.377	9.377	(0.971)	3046806	150.000	146.66
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	3637698	150.000	150.35
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	3234520	150.000	152.70
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1838273	150.000	148.54
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1883662	150.000	142.20
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1986937	150.000	166.55
87	n-Butylbenzene	91	9.992	9.992	(1.034)	2886932	150.000	160.02
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1800734	150.000	146.65
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	182534	150.000	148.64
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1349005	150.000	157.93
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	614842	150.000	160.36
92	Naphthalene	128	11.536	11.536	(1.194)	2944619	150.000	153.13
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1213404	150.000	154.38
146	Methyl acetate	43	2.232	2.232	(0.534)	443517	150.000	150.95
138	Freon TF	101	1.917	1.917	(0.459)	548562	150.000	151.80
141	Cyclohexane	56	4.121	4.121	(0.986)	967778	150.000	152.95
142	Tetrahydrofuran	42	3.840	3.840	(0.918)	215293	300.000	297.61
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1751972	150.000	165.34(A)
135	1,4-Dioxane	88	5.598	5.598	(1.339)	184006	3000.00	3058.89
132	n-Butanol	56	5.253	5.253	(1.256)	401679	3000.00	2960.90
131	Methyl Acrylate	55	3.683	3.683	(0.881)	649317	150.000	161.51(M)
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	1751972	150.000	151.60
136	n-Hexane	57	2.772	2.772	(0.663)	791040	150.000	149.41
139	Diethyl ether	59	1.760	1.760	(0.421)	458570	150.000	147.46
148	Tert-butyl alcohol	59	2.431	2.431	(0.581)	1427844	3000.00	2801.23
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	816586	3000.00	2902.35
156	Diisopropyl ether	45	3.001	3.001	(0.718)	2160748	150.000	147.59
160	2-Methylnaphthalene	142	12.631	12.631	(1.307)	1352043	150.000	160.64
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	3057315	150.000	150.83
167	Ethanol	45	1.707	1.707	(0.408)	127474	3000.00	2686.89
172	tert-Butyl formate	59	4.620	4.620	(1.105)	1196724	300.000	292.75(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1664675	3000.00	2818.10
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	2367965	150.000	148.72
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	2214645	150.000	146.16
176	tert-Amyl alcohol	59	4.620	4.620	(1.105)	1196724	3000.00	2870.24
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	3406170	3000.00	2825.27
180	1-Methylnaphthalene	142	12.631	12.631	(1.307)	1352043	150.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	610268	150.000	148.35
152	Amyl alcohol	42	6.899	6.899	(0.900)	451743	3000.00	3357.05
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	1052332	150.000	147.51
159	Propylene oxide	43	1.805	1.805	(0.432)	101677	300.000	231.04
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	427718	3000.00	3002.99
162	Butyl acrylate	55	8.249	8.249	(1.076)	1639896	150.000	152.49
163	Butyl methacrylate	41	9.171	9.171	(0.949)	1058796	150.000	147.62
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	3392615	150.000	142.24
182	Epichlorohydrin	57	6.093	6.093	(1.227)	252651	600.000	557.11
M 94	1,2-Dichloroethylene (total)	96				1428285	300.000	285.32
M 95	Xylenes (total)	106				4121181	450.000	447.40
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1536179	150.000	152.28
130	Ethyl Acetate	43	3.653	3.653	(0.874)	677648	150.000	133.92
134	Cyclohexanone	55	8.642	8.642	(0.894)	717000	3000.00	3000.09
185	Isoprene	39	1.771	1.771	(0.424)	170486	150.000	126.20

188 Isopropyl acetate	43	4.672	4.672 (0.941)	1922342	150.000	146.82
187 n-Amyl acetate	43	8.451	8.451 (1.102)	1418221	150.000	146.63

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	1191202	150.000	153.99(H)
150 Allyl alcohol	57	2.772	2.772	(0.663)	791040	3000.00	2988.03
194 Acetaldehyde	44	1.212	1.212	(0.290)	152553	600.000	590.61(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1678861	150.000	157.86
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1681271	150.000	156.96
202 Isobutylene	41	1.242	1.242	(0.297)	75658	150.000	159.41(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	1215186	150.000	151.37

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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061511.D Page 1
Report Date: 05-Jul-2023 12:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061511.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 15-JUN-2023 14:45
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 20-Jun-2023 18:24 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 14:45 Cal File: X061511.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.181	(1.000)	500734	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	870731	200.000	200.92(A)
3	Chloromethane	50	1.081	1.081	(0.259)	1090387	200.000	202.79(A)
4	Propionitrile	54	3.653	3.653	(0.874)	1249104	2000.00	2062.65(A)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	1008184	200.000	191.71
6	Bromomethane	94	1.336	1.336	(0.320)	562025	200.000	186.18
7	Chloroethane	64	1.404	1.404	(0.336)	596342	200.000	185.51
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	1219530	200.000	195.14
9	Acrolein	56	1.445	1.445	(0.346)	130253	400.000	419.20(A)
10	Acetone	43	1.973	1.973	(0.472)	532376	400.000	408.57(A)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	735339	200.000	187.57
12	Isobutyl Alcohol	43	4.676	4.676	(1.118)	2609313	4000.00	3996.46
13	Acetonitrile	39	2.198	2.198	(0.526)	973976	2000.00	2005.38(A)
14	Allyl Chloride	41	2.198	2.198	(0.526)	2178817	200.000	198.41
15	Iodomethane	142	2.030	2.030	(0.485)	2762966	400.000	400.85(A)
16	Acrylonitrile	53	2.532	2.532	(0.606)	656730	400.000	413.18(A)
17	Methylene Chloride	84	2.303	2.303	(0.551)	965975	200.000	174.44
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	2607425	200.000	190.56
19	Carbon Disulfide	76	2.071	2.071	(0.495)	5590697	400.000	400.51(A)
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	884359	200.000	188.52
21	Vinyl Acetate	43	2.997	2.997	(0.717)	4777086	400.000	381.54

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1592034	200.000	188.39
23 Chloroprene	53	1.771	1.771 (0.424)	322483	200.000	193.76

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	3.574	3.574	(0.855)	739267	400.000	448.61(A)
	25	Methacrylonitrile	41	3.818	3.818	(0.913)	813003	200.000	196.77(aH)
	26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	1330788	200.000	199.57
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	1026334	200.000	189.72
	28	Chloroform	83	3.904	3.904	(0.934)	1629503	200.000	179.15
	29	Bromochloromethane	128	3.791	3.791	(0.907)	536706	200.000	186.18
$	30	Dibromofluoromethane	113	4.095	4.095	(0.979)	880893	200.000	198.00
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	1429867	200.000	194.50
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	1285848	200.000	197.36
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	1210936	200.000	185.49
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	1238094	200.000	197.60
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	943547	200.000	197.96
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	777502	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	3860956	200.000	193.05
	38	Trichloroethene	130	5.205	5.205	(1.048)	1100510	200.000	199.57
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	1329286	200.000	187.89
	40	Methyl Methacrylate	41	5.602	5.602	(1.340)	793003	200.000	204.57(A)
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	772540	400.000	403.55(A)
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	1005868	200.000	191.61
	43	2-Nitropropane	43	5.966	5.966	(1.427)	275555	200.000	204.17(AH)
	44	Dibromomethane	93	5.550	5.550	(1.118)	616840	200.000	187.18
	45	4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	1860837	400.000	388.95
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1727929	200.000	198.09
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	740608	50.0000	
$	48	Toluene-d8	98	6.386	6.386	(0.833)	3423635	200.000	182.84
	49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	1418759	200.000	205.69(H)
	50	Toluene	91	6.446	6.446	(0.841)	4158414	200.000	191.25
	51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1476151	200.000	202.26(A)
	52	2-Hexanone	43	7.087	7.087	(0.924)	1310331	400.000	410.03(A)
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	783101	200.000	184.87
	54	1,3-Dichloropropane	76	6.982	6.982	(0.911)	1618260	200.000	188.94
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	1177842	200.000	196.20
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	893575	200.000	199.85
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	1022111	200.000	188.78
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	936346	200.000	198.03
	59	Chlorobenzene	112	7.694	7.694	(1.003)	2846238	200.000	191.31
	60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	1086600	200.000	195.87
	61	Ethylbenzene	106	7.799	7.799	(1.017)	1500758	200.000	195.79
	62	m,p-Xylenes	106	7.904	7.904	(1.031)	3779135	400.000	399.80
	63	o-Xylene	106	8.241	8.241	(1.075)	1840180	200.000	195.10
	64	Styrene	104	8.256	8.256	(1.077)	3122657	200.000	200.99(A)
	66	Bromoform	173	8.406	8.406	(1.096)	854791	200.000	204.24(A)
	67	Isopropylbenzene	105	8.560	8.560	(1.116)	4678011	200.000	200.65(A)
	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1363444	200.000	178.47
$	69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1427380	200.000	198.99
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	434451	50.0000	
	71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	991732	200.000	181.04
	72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	376547	200.000	208.89(A)
	73	n-Propylbenzene	91	8.912	8.912	(0.922)	5621706	200.000	196.63
	74	Bromobenzene	156	8.803	8.803	(0.911)	1365635	200.000	192.85
	75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	4092223	200.000	195.07
	76	2-Chlorotoluene	91	8.972	8.972	(0.929)	3338118	200.000	183.86

77	4-Chlorotoluene	91	9.070	9.070 (0.939)	3900026	200.000	192.58
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	3451610	200.000	197.49

	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	9.377	9.377	(0.971)	4101830	200.000	193.80
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	4934096	200.000	200.17(A)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	4354959	200.000	201.80(A)
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	2489876	200.000	197.48
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	2548117	200.000	188.81
86	Benzyl Chloride	91	9.804	9.804	(1.279)	2673170	200.000	218.52(A)
87	n-Butylbenzene	91	9.992	9.992	(1.034)	3887765	200.000	211.52(A)
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	2411595	200.000	192.77
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	252682	200.000	201.87(A)
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1825345	200.000	209.75(A)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	844451	200.000	216.17(A)
92	Naphthalene	128	11.540	11.540	(1.194)	3981585	200.000	203.23(A)
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1629136	200.000	203.44(A)
146	Methyl acetate	43	2.228	2.228	(0.533)	591833	200.000	199.68
138	Freon TF	101	1.917	1.917	(0.459)	742502	200.000	198.98
141	Cyclohexane	56	4.121	4.121	(0.986)	1339211	200.000	209.80(A)
142	Tetrahydrofuran	42	3.840	3.840	(0.918)	288575	400.000	395.43
147	Methylcyclohexane	55	5.377	5.377	(1.083)	2344010	200.000	215.71(A)
135	1,4-Dioxane	88	5.598	5.598	(1.339)	251392	4000.00	4142.70(A)
132	n-Butanol	56	5.253	5.253	(1.256)	566916	4000.00	4116.53(A)
131	Methyl Acrylate	55	3.683	3.683	(0.881)	844222	200.000	208.16(AM)
133	Ethyl Acrylate	55	5.377	5.377	(1.286)	2344010	200.000	200.29(A)
136	n-Hexane	57	2.772	2.772	(0.663)	1078975	200.000	185.23
139	Diethyl ether	59	1.760	1.760	(0.421)	599110	200.000	190.97
148	Tert-butyl alcohol	59	2.434	2.434	(0.582)	1985652	4000.00	3861.64
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	1121361	4000.00	3950.87
156	Diisopropyl ether	45	3.001	3.001	(0.718)	2810226	200.000	190.29
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	1856948	200.000	216.55(A)
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	4027136	200.000	195.00
167	Ethanol	45	1.711	1.711	(0.409)	164628	4000.00	3439.79
172	tert-Butyl formate	59	4.620	4.620	(1.105)	1716317	400.000	416.20(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	2284760	4000.00	3771.87
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	3031355	200.000	188.73
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.807)	2921006	200.000	191.10
176	tert-Amyl alcohol	59	4.620	4.620	(1.105)	1716317	4000.00	4080.59(A)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	4769923	4000.00	3857.96
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	1856948	200.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	817942	200.000	197.11
152	Amyl alcohol	42	6.899	6.899	(0.900)	628432	4000.00	4554.22(A)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	1380643	200.000	191.85
159	Propylene oxide	43	1.805	1.805	(0.432)	129706	400.000	292.17
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	594725	4000.00	4059.34(A)
162	Butyl acrylate	55	8.249	8.249	(1.076)	2199388	200.000	199.27
163	Butyl methacrylate	41	9.171	9.171	(0.949)	1360235	200.000	186.15
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	4448649	200.000	183.07
182	Epichlorohydrin	57	6.093	6.093	(1.227)	344824	800.000	741.43
M 94	1,2-Dichloroethylene (total)	96				1910693	400.000	378.25
M 95	Xylenes (total)	106				5619315	600.000	594.91
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	2087733	200.000	203.13(A)
130	Ethyl Acetate	43	3.653	3.653	(0.874)	911790	200.000	178.63
134	Cyclohexanone	55	8.642	8.642	(0.894)	970775	4000.00	3991.19
185	Isoprene	39	1.771	1.771	(0.424)	228794	200.000	167.89

188 Isopropyl acetate	43	4.676	4.676 (0.942)	2610700	200.000	194.43
187 n-Amyl acetate	43	8.451	8.451 (1.102)	1947829	200.000	196.39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	1653381	200.000	208.44(AH)
150 Allyl alcohol	57	2.772	2.772	(0.663)	1078975	4000.00	3702.64
194 Acetaldehyde	44	1.212	1.212	(0.290)	210164	800.000	807.82(AM)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	2319422	200.000	212.69
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	2229099	200.000	202.95(A)
202 Isobutylene	41	1.242	1.242	(0.297)	87901	200.000	183.59(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	1627894	200.000	198.64

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.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061514.D Page 1
Report Date: 05-Jul-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\X061514.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 15-JUN-2023 15:47
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230615.b\8260W.m
Meth Date : 05-Jul-2023 13:01 pcabasca Quant Type: ISTD
Cal Date : 15-JUN-2023 14:45 Cal File: X061511.D
Als bottle: 15 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

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	4.181	4.182	(1.000)	509722	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	214534	48.8826	48.88
3	Chloromethane	50	1.081	1.081	(0.259)	258398	47.9982	47.99
4	Propionitrile	54	3.649	3.653	(0.873)	307140	498.240	498.23
5	Vinyl Chloride	62	1.149	1.145	(0.275)	245673	45.8930	45.89
6	Bromomethane	94	1.344	1.336	(0.321)	144213	46.9322	46.93
7	Chloroethane	64	1.407	1.404	(0.337)	150976	46.1389	46.13
8	Trichlorofluoromethane	101	1.565	1.561	(0.374)	294811	46.3438	46.34
9	Acrolein	56	1.449	1.445	(0.347)	32873	103.933	103.93
10	Acetone	43	1.973	1.973	(0.472)	116365	87.5170	87.51
11	1,1-Dichloroethene	96	1.917	1.913	(0.459)	176439	44.2134	44.21
12	Isobutyl Alcohol	43	4.676	4.676	(1.118)	651365	980.049	980.04
13	Acetonitrile	39	2.202	2.198	(0.527)	244238	494.012	494.01
14	Allyl Chloride	41	2.202	2.198	(0.527)	549138	49.1255	49.12
15	Iodomethane	142	2.030	2.030	(0.485)	608491	92.1912	92.19
16	Acrylonitrile	53	2.536	2.532	(0.606)	152210	94.0753	94.07
17	Methylene Chloride	84	2.307	2.303	(0.552)	246468	43.7245	43.72
18	Methyl tert-butyl ether	73	2.536	2.536	(0.606)	659861	47.3759	47.37
19	Carbon Disulfide	76	2.071	2.071	(0.495)	1287120	90.5820	90.58
20	trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	215985	45.2311	45.23
21	Vinyl Acetate	43	2.997	2.997	(0.717)	1325257	103.982	103.98

22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	397167	46.1701	46.17
23 Chloroprene	53	1.775	1.771 (0.424)	75864	44.7792	44.77(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
24	2-Butanone	43	3.578	3.574	(0.856)	171772	102.399	102.39
25	Methacrylonitrile	41	3.821	3.818	(0.914)	205167	48.7822	48.78(a)
26	2,2-Dichloropropane	77	3.507	3.510	(0.839)	334289	49.2448	49.24
27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	255198	46.3440	46.34
28	Chloroform	83	3.904	3.904	(0.934)	410273	44.3120	44.31
29	Bromochloromethane	128	3.791	3.791	(0.907)	131825	44.9251	44.92
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.979)	231563	50.8743	50.87
31	1,1,1-Trichloroethane	97	4.084	4.080	(0.977)	336318	44.9425	44.94
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	300244	46.8218	46.82
33	1,2-Dichloroethane	62	4.556	4.552	(0.918)	315493	49.1002	49.10
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	284726	46.1687	46.16
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	245968	50.0578	50.05
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	765274	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	926258	47.0543	47.05
38	Trichloroethene	130	5.205	5.205	(1.048)	253674	46.7386	46.73
39	Bromodichloromethane	83	5.726	5.722	(1.153)	323221	46.4181	46.41
40	Methyl Methacrylate	41	5.606	5.602	(1.341)	195129	49.4504	49.45
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	193194	102.531	102.53
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	250346	48.4517	48.45
43	2-Nitropropane	43	5.966	5.966	(1.427)	66738	48.5782	48.57
44	Dibromomethane	93	5.550	5.550	(1.118)	156421	48.2255	48.22
45	4-Methyl-2-Pentanone	43	6.322	6.326	(0.824)	454515	97.9815	97.98
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	423471	49.3235	49.32
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	718105	50.0000	
$ 48	Toluene-d8	98	6.385	6.386	(0.833)	882596	48.6137	48.61
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	346158	49.5136	49.51(H)
50	Toluene	91	6.445	6.446	(0.841)	998880	47.3815	47.38
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	356578	49.6394	49.63
52	2-Hexanone	43	7.083	7.087	(0.924)	305522	98.6011	98.60
53	1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	193376	47.0835	47.08
54	1,3-Dichloropropane	76	6.978	6.982	(0.910)	402435	48.4613	48.46
55	Dibromochloromethane	129	7.173	7.173	(0.935)	279460	48.0113	48.01
56	Tetrachloroethene	164	6.925	6.925	(0.903)	197937	45.6581	45.65
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	249128	47.4564	47.45
58	1-Chlorohexane	55	7.694	7.694	(1.550)	211982	45.5501	45.55
59	Chlorobenzene	112	7.690	7.694	(1.003)	674130	46.7334	46.73
60	1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	252112	46.8710	46.87
61	Ethylbenzene	106	7.799	7.799	(1.017)	340331	45.7927	45.79
62	m,p-Xylenes	106	7.900	7.904	(1.030)	872232	95.1686	95.16
63	o-Xylene	106	8.241	8.241	(1.075)	422526	46.2011	46.20
64	Styrene	104	8.256	8.256	(1.077)	731241	48.5426	48.54
66	Bromoform	173	8.406	8.406	(1.096)	195942	48.2868	48.28
67	Isopropylbenzene	105	8.560	8.560	(1.116)	1032573	45.6790	45.67
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	329570	46.2456	46.24
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	354160	50.5205	50.52
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.662	(1.000)	405289	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.918)	240888	47.1386	47.13
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	89627	51.2789	51.27
73	n-Propylbenzene	91	8.908	8.912	(0.922)	1239999	46.4940	46.49
74	Bromobenzene	156	8.803	8.803	(0.912)	315772	47.8031	47.80
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	902621	46.1233	46.12
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	765561	45.2024	45.20

77	4-Chlorotoluene	91	9.070	9.070 (0.939)	883443	46.7644	46.76
78	tert-Butylbenzene	119	9.332	9.336 (0.966)	736998	45.2039	45.20

	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	9.377	9.377	(0.971)	912898	46.2361	46.23	
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	1040841	45.2652	45.26	
82	p-Isopropyltoluene	119	9.647	9.651	(0.999)	938869	46.6363	46.63	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	556559	47.3190	47.31	
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	583574	46.3543	46.35	
86	Benzyl Chloride	91	9.804	9.804	(1.279)	626201	52.7942	52.79	
87	n-Butylbenzene	91	9.992	9.992	(1.035)	835815	48.7460	48.74	
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	552785	47.3667	47.36	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	58604	50.3869	50.38	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	410761	50.5971	50.59	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	181092	49.6950	49.69	
92	Naphthalene	128	11.540	11.540	(1.195)	958210	52.4312	52.43	
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	379747	50.8353	50.83	
146	Methyl acetate	43	2.232	2.228	(0.534)	146905	48.6925	48.69	
138	Freon TF	101	1.917	1.917	(0.459)	176578	49.7965	49.79	
141	Cyclohexane	56	4.121	4.121	(0.986)	304147	46.8095	46.80	
142	Tetrahydrofuran	42	3.844	3.840	(0.919)	72193	97.1828	97.18	
147	Methylcyclohexane	55	5.381	5.377	(1.084)	572402	53.5176	53.51	
135	1,4-Dioxane	88	5.598	5.598	(1.339)	60399	977.769	977.76	
132	n-Butanol	56	5.253	5.253	(1.256)	115761	877.798	877.79	
131	Methyl Acrylate	55	3.690	3.683	(0.883)	218984	53.0445	53.04	
133	Ethyl Acrylate	55	5.381	5.377	(1.287)	572402	49.8469	49.84	
136	n-Hexane	57	2.772	2.772	(0.663)	235619	50.4611	50.46	
139	Diethyl ether	59	1.760	1.760	(0.421)	149426	46.7925	46.79	
148	Tert-butyl alcohol	59	2.427	2.434	(0.580)	475653	908.726	908.72	
149	Isopropyl alcohol	45	2.093	2.101	(0.501)	262728	909.344	909.34	
156	Diisopropyl ether	45	3.000	3.001	(0.718)	720807	47.9480	47.94	
160	2-Methylnaphthalene	142	12.634	12.635	(1.308)	412966	51.6255	51.62	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	962880	49.9814	49.98	
167	Ethanol	45	1.707	1.711	(0.408)	42882	880.193	880.19	
172	tert-Butyl formate	59	4.612	4.620	(1.103)	377999	90.0470	90.04	
173	3,3-Dimethyl-1-butanol	57	7.285	7.289	(0.950)	491431	836.719	836.71	
174	tert-Amyl methyl ether	73	4.665	4.665	(1.116)	767180	46.9237	46.92	
175	tert-Butyl ethyl ether	59	3.379	3.375	(0.808)	732420	47.0732	47.07	
176	tert-Amyl alcohol	59	4.612	4.620	(1.103)	377999	882.856	882.85	
151	4-Methyl-2-pentanol	45	6.708	6.715	(1.351)	1019666	837.894	837.89	
180	1-Methylnaphthalene	142	12.634	12.635	(1.308)	412966			(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	197461	46.7466	46.74	
152	Amyl alcohol	42	6.899	6.899	(0.900)	134777	1007.33	1007.33	
158	Dichlorofluoromethane	67	1.535	1.531	(0.367)	346552	47.3072	47.30	
159	Propylene oxide	43	1.805	1.805	(0.432)	34962	77.3664	77.36	
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	128525	932.271	932.27	
162	Butyl acrylate	55	8.249	8.249	(1.076)	517977	48.8182	48.81	
163	Butyl methacrylate	41	9.167	9.171	(0.949)	356803	52.3425	52.34	
164	Dicyclopentadiene	66	9.681	9.684	(1.002)	1084753	47.8537	47.85	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	86073	188.030	188.03	
M 94	1,2-Dichloroethylene (total)	96				471183	91.5752	91.57	
M 95	Xylenes (total)	106				1294758	141.370	141.36	
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	464373	48.4344	48.43	
130	Ethyl Acetate	43	3.653	3.653	(0.874)	232567	44.7604	44.76	
134	Cyclohexanone	55	8.642	8.642	(0.895)	220343	961.261	961.26	
185	Isoprene	39	1.775	1.771	(0.424)	56227	40.5342	40.53	

188 Isopropyl acetate	43	4.676	4.676 (0.942)	654077	49.4906	49.49
187 n-Amyl acetate	43	8.451	8.451 (1.102)	451123	46.9115	46.91

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	389990	50.7070	50.70
150 Allyl alcohol	57	2.772	2.772	(0.663)	235619	1009.19	1009.18
194 Acetaldehyde	44	1.216	1.212	(0.291)	49504	184.279	184.27(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	514505	48.6589	48.65
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	538113	50.5285	50.52
202 Isobutylene	41	1.242	1.242	(0.297)	21692	44.5092	44.50(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.547	(1.195)	388849	51.8072	51.80

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.

01200588

right solutions.
right partner.

Raw Data VOA6 439909

Volatiles by EPA 8260

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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\voa6.i\X230626.b\X062601.D Page 1
Report Date: 26-Jun-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 26-JUN-2023 12:33
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
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: NAHSTW7051

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)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.691	8.889	(0.000)	95	65344			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	10803			15.00- 40.00	16.53
8.691	8.889	(0.000)	75	29936			30.00- 60.00	45.81
8.691	8.889	(0.000)	96	4349			5.00- 9.00	6.66
8.691	8.889	(0.000)	173	692			0.00- 2.00	1.17
8.691	8.889	(0.000)	174	59104			50.00- 0.00	90.45
8.691	8.889	(0.000)	175	3562			5.00- 9.00	6.03
8.691	8.889	(0.000)	176	58504			95.00- 101.00	98.98
8.691	8.889	(0.000)	177	3870			5.00- 9.00	6.61

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.53
75	30.00 - 60.00% of mass 95	45.81
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	1.06 (1.17)
174	Greater than 50.00% of mass 95	90.45
175	5.00 - 9.00% of mass 174	5.45 (6.03)
176	95.00 - 101.00% of mass 174	89.53 (98.98)
177	5.00 - 9.00% of mass 176	5.92 (6.61)

Data File: X062601.D
Spectrum: Scan 2161 (8.69)
Location of Maximum: 95.00
Number of points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	530	62.00	2463	87.90	2479	129.90	286
37.00	2752	63.00	2257	90.80	384	130.80	122
38.00	2228	63.90	153	92.00	1781	133.90	78
39.00	1730	65.10	77	93.00	2290	135.00	83
40.00	1606	65.90	115	94.00	7288	138.80	99
41.00	1090	66.90	137	95.00	65344	140.90	579
42.10	1094	68.00	5790	96.00	4349	142.00	55
43.10	1241	69.00	6848	96.90	165	142.80	620
44.00	1493	70.10	928	98.10	998	145.70	95
44.90	543	71.10	556	99.00	153	147.90	101
46.90	601	72.00	553	103.90	397	148.90	84
47.80	285	73.00	2582	105.00	132	149.80	157
49.10	2301	74.00	9464	105.80	400	154.80	339
50.10	10803	75.00	29936	106.80	206	157.00	132
51.10	3847	76.00	2195	108.90	123	158.70	172
52.00	358	76.90	525	111.20	93	160.70	60
52.90	334	78.10	527	112.90	153	172.70	692
54.10	196	78.90	1696	115.00	65	173.90	59104
55.00	2367	79.80	413	115.80	196	174.90	3562
56.00	1679	81.00	1974	116.80	519	175.90	58504
57.10	3101	81.90	404	117.80	311	176.90	3870
58.10	562	82.90	265	118.90	166	177.80	90
58.90	66	83.90	58	125.70	63	186.10	130
60.10	546	85.10	347	127.90	375	206.80	50
61.00	2939	86.90	2609	128.90	138		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062601.D Page 1

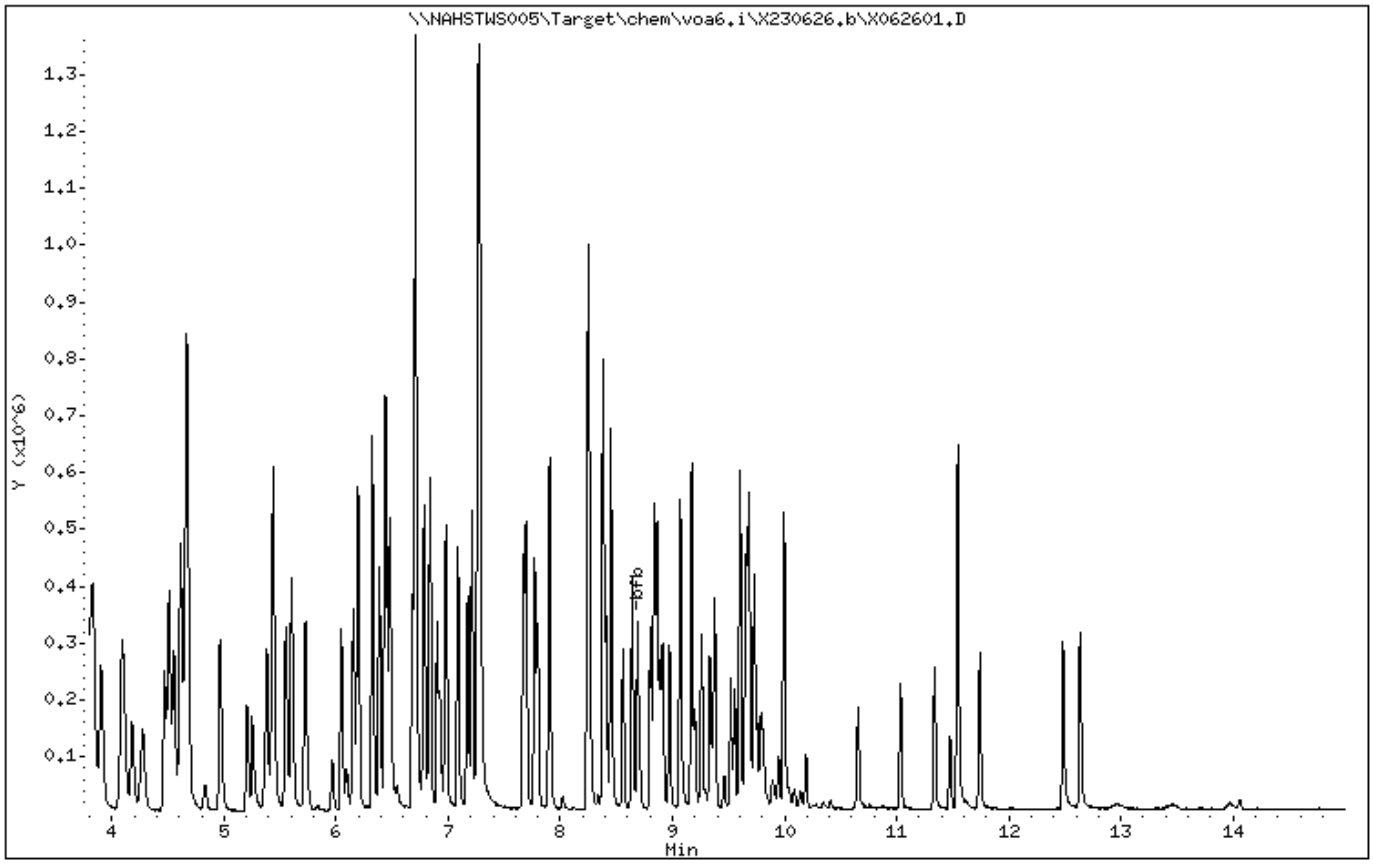
Date : 26-JUN-2023 12:33

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062601.D Page 2

Date : 26-JUN-2023 12:33

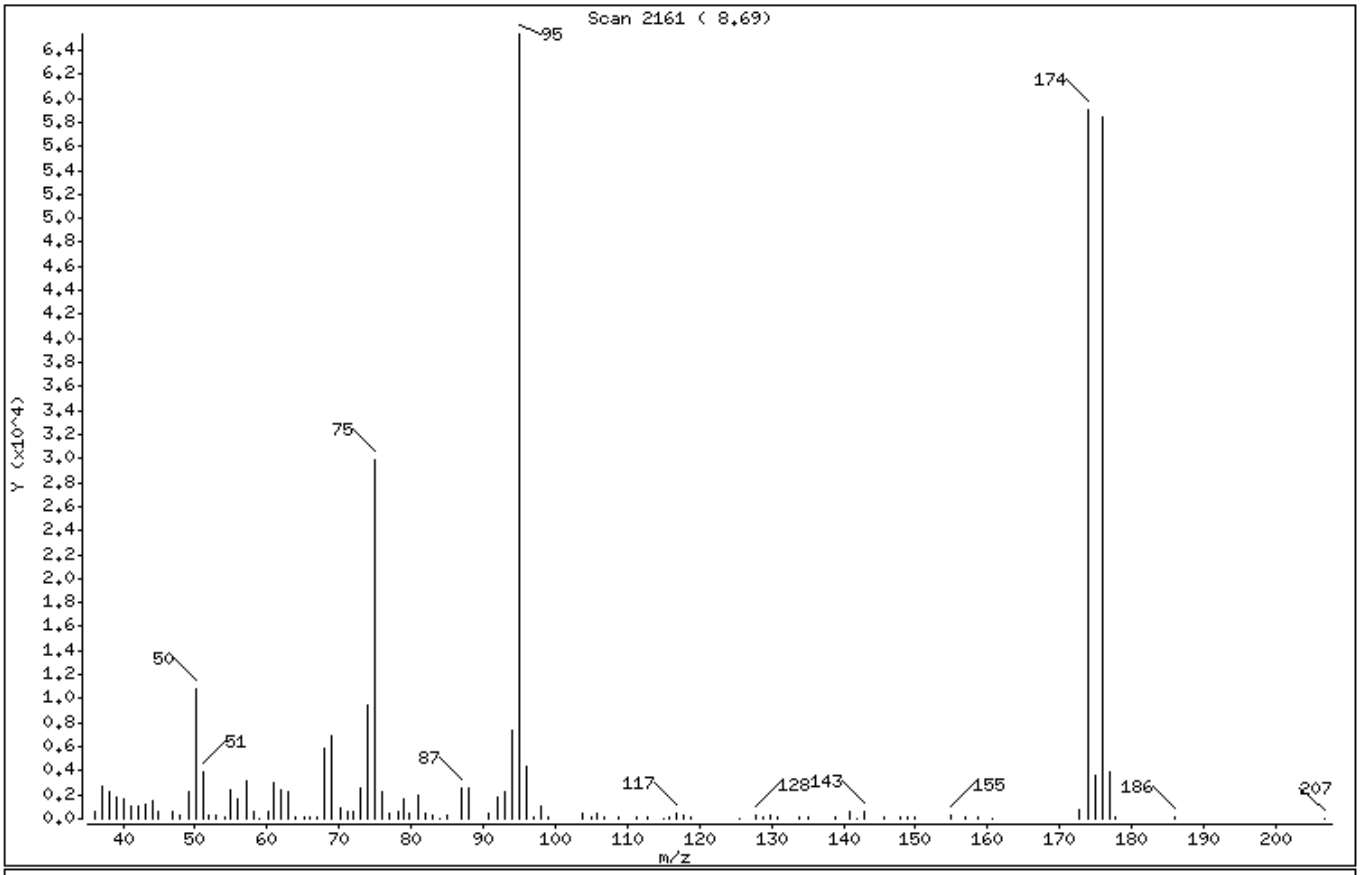
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.53
75	30.00 - 60.00% of mass 95	45.81
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	1.06 (1.17)
174	Greater than 50.00% of mass 95	90.45
175	5.00 - 9.00% of mass 174	5.45 (6.03)
176	95.00 - 101.00% of mass 174	89.53 (98.98)
177	5.00 - 9.00% of mass 176	5.92 (6.61)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062601.D

Date : 26-JUN-2023 12:33

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X062601.D
Spectrum: Scan 2161 (8.69)
Location of Maximum: 95.00
Number of points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	530	62.00	2463	87.90	2479	129.90	286
37.00	2752	63.00	2257	90.80	384	130.80	122
38.00	2228	63.90	153	92.00	1781	133.90	78
39.00	1730	65.10	77	93.00	2290	135.00	83
40.00	1606	65.90	115	94.00	7288	138.80	99
41.00	1090	66.90	137	95.00	65344	140.90	579
42.10	1094	68.00	5790	96.00	4349	142.00	55
43.10	1241	69.00	6848	96.90	165	142.80	620
44.00	1493	70.10	928	98.10	998	145.70	95
44.90	543	71.10	556	99.00	153	147.90	101
46.90	601	72.00	553	103.90	397	148.90	84
47.80	285	73.00	2582	105.00	132	149.80	157
49.10	2301	74.00	9464	105.80	400	154.80	339
50.10	10803	75.00	29936	106.80	206	157.00	132
51.10	3847	76.00	2195	108.90	123	158.70	172
52.00	358	76.90	525	111.20	93	160.70	60
52.90	334	78.10	527	112.90	153	172.70	692
54.10	196	78.90	1696	115.00	65	173.90	59104
55.00	2367	79.80	413	115.80	196	174.90	3562
56.00	1679	81.00	1974	116.80	519	175.90	58504
57.10	3101	81.90	404	117.80	311	176.90	3870
58.10	562	82.90	265	118.90	166	177.80	90
58.90	66	83.90	58	125.70	63	186.10	130
60.10	546	85.10	347	127.90	375	206.80	50
61.00	2939	86.90	2609	128.90	138		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062603.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062603.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 26-JUN-2023 13:15
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.177	4.177	(1.000)	448462	50.0000	
135 1,4-Dioxane	88	5.594	5.594	(1.339)	54102	1000.00	995.46
140 1,3-Butadiene	54	1.167	1.167	(0.280)	159511	50.0000	42.92
25 Methacrylonitrile	41	3.818	3.818	(0.914)	181184	50.0000	48.96
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	576706	1000.00	986.24
13 Acetonitrile	39	2.202	2.202	(0.527)	207879	500.000	477.90
14 Allyl Chloride	41	2.202	2.202	(0.527)	458591	50.0000	46.62
4 Propionitrile	54	3.653	3.653	(0.874)	276584	500.000	509.96
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	75495	50.0000	48.22
130 Ethyl Acetate	43	3.656	3.656	(0.875)	206472	50.0000	45.16
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	174890	50.0000	50.37
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	223841	50.0000	46.21
131 Methyl Acrylate	55	3.690	3.690	(0.883)	190291	50.0000	52.39
139 Diethyl ether	59	1.760	1.760	(0.421)	141798	50.0000	50.46
156 Diisopropyl ether	45	3.000	3.000	(0.718)	634820	50.0000	47.99
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	155035	50.0000	40.21
3 Chloromethane	50	1.085	1.085	(0.260)	209428	50.0000	44.29
5 Vinyl Chloride	62	1.149	1.149	(0.275)	201305	50.0000	42.74
6 Bromomethane	94	1.343	1.343	(0.322)	125799	50.0000	46.53
7 Chloroethane	64	1.407	1.407	(0.337)	133846	50.0000	46.49

8	Trichlorofluoromethane	101	1.565	1.565 (0.375)	257322	50.0000	45.97
9	Acrolein	56	1.448	1.448 (0.347)	26874	100.000	96.57

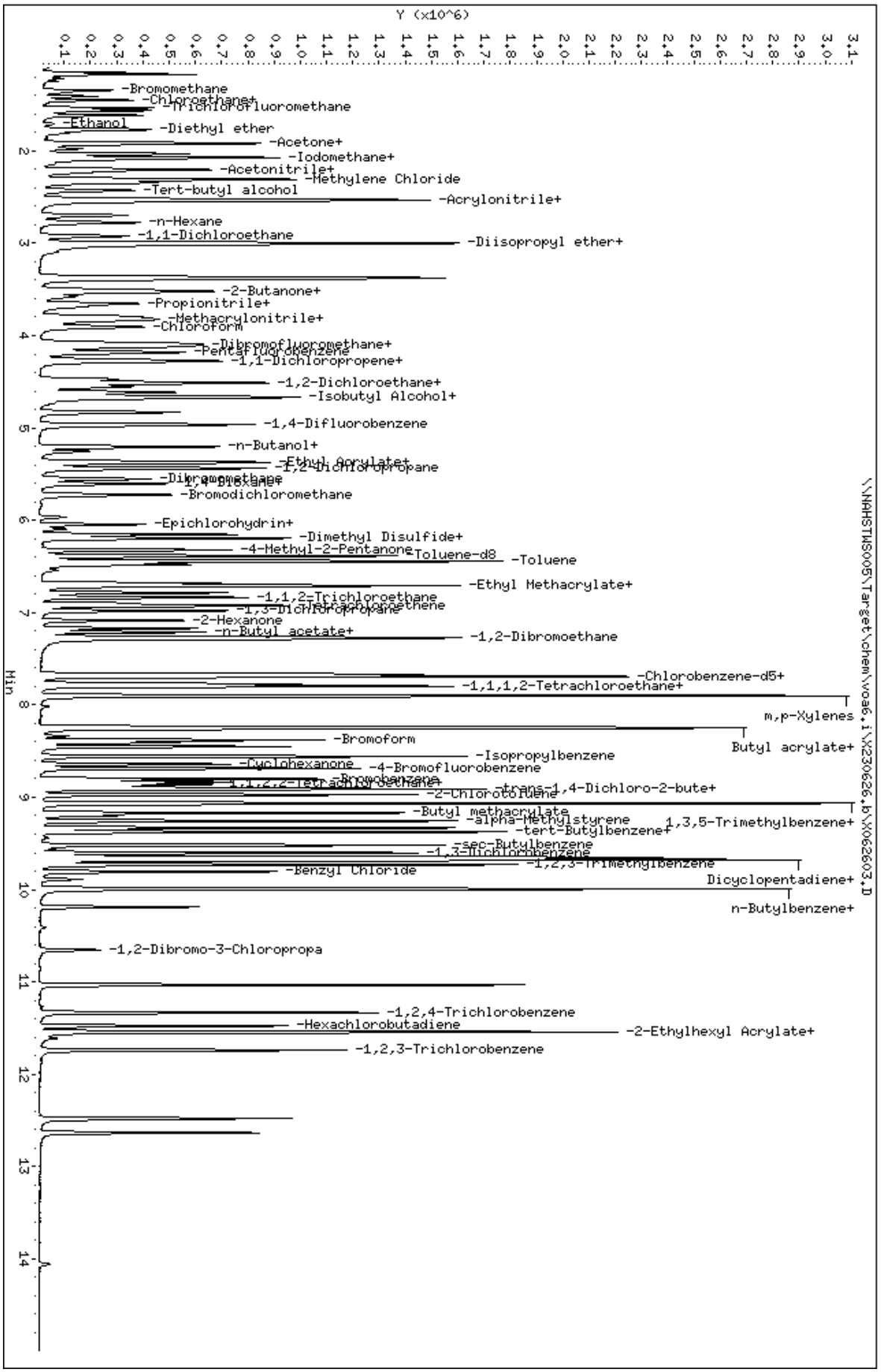
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	10 Acetone	43	1.973	1.973	(0.472)	118191	100.000	101.07
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	157019	50.0000	44.72
	15 Iodomethane	142	2.029	2.029	(0.486)	588199	100.000	100.95
	16 Acrylonitrile	53	2.536	2.536	(0.607)	135080	100.000	94.89
	17 Methylene Chloride	84	2.307	2.307	(0.552)	216253	50.0000	43.60
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	598723	50.0000	48.85
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	1065710	100.000	85.24
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	189940	50.0000	45.21
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	1143723	100.000	101.99
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	341526	50.0000	45.12
	24 2-Butanone	43	3.578	3.578	(0.856)	148805	100.000	100.82
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	290267	50.0000	48.60
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	224823	50.0000	46.40
	28 Chloroform	83	3.908	3.908	(0.935)	362277	50.0000	44.47
	29 Bromochloromethane	128	3.791	3.791	(0.908)	122039	50.0000	47.27
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	203844	50.0000	50.90
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	299139	50.0000	45.43
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	256409	50.0000	45.28
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	279762	50.0000	49.30
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	250850	50.0000	46.06
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	215789	50.0000	49.91
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	675768	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	817894	50.0000	47.05
	38 Trichloroethene	130	5.205	5.205	(1.048)	228141	50.0000	47.60
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	290935	50.0000	47.31
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	161207	100.000	96.88
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	216414	50.0000	47.43
	44 Dibromomethane	93	5.553	5.553	(1.119)	142956	50.0000	49.91
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	398291	100.000	95.85
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	374266	50.0000	49.36
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	643218	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	782392	50.0000	48.11
	50 Toluene	91	6.445	6.445	(0.841)	877804	50.0000	46.48
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	320064	50.0000	50.45
	52 2-Hexanone	43	7.086	7.086	(0.924)	283244	100.000	102.05
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	177893	50.0000	48.35
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	358969	50.0000	48.25
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	258691	50.0000	49.61
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	177867	50.0000	45.80
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	229432	50.0000	48.79
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	179360	50.0000	43.64
	59 Chlorobenzene	112	7.690	7.690	(1.003)	610517	50.0000	47.25
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	229712	50.0000	47.67
	61 Ethylbenzene	106	7.799	7.799	(1.017)	301304	50.0000	45.26
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	768880	100.000	93.65
	63 o-Xylene	106	8.237	8.237	(1.074)	378560	50.0000	46.21
	64 Styrene	104	8.256	8.256	(1.077)	655071	50.0000	48.54
	66 Bromoform	173	8.406	8.406	(1.096)	183814	50.0000	50.57
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	896514	50.0000	44.27
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	296145	50.0000	46.61
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	317658	50.0000	50.58
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	361290	50.0000	

71 1,2,3-Trichloropropane	75	8.859	8.859 (0.917)	216209	50.0000	47.46
73 n-Propylbenzene	91	8.908	8.908 (0.922)	1068918	50.0000	44.96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	74 Bromobenzene	156	8.803	8.803	(0.911)	282607	50.0000	47.99	
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	784838	50.0000	44.98	
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	670155	50.0000	44.38	
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	771792	50.0000	45.82	
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	639350	50.0000	43.99	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	802517	50.0000	45.59	
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	898618	50.0000	43.83	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	814993	50.0000	45.41	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	486229	50.0000	46.37	
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	516509	50.0000	46.02	
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	718279	50.0000	46.99	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	497371	50.0000	47.80	
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	53975	50.0000	52.04	
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	357106	50.0000	49.34	
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	156344	50.0000	48.12	
	92 Naphthalene	128	11.540	11.540	(1.194)	843439	50.0000	51.77	
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	338333	50.0000	50.80	
M	94 1,2-Dichloroethylene (total)	96				414763	100.000	(a)	
	141 Cyclohexane	56	4.121	4.121	(0.987)	245896	50.0000	43.01	
	138 Freon TF	101	1.917	1.917	(0.459)	153969	50.0000	49.36	
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	497375	50.0000	52.66	
	146 Methyl Acetate	43	2.232	2.232	(0.534)	126882	50.0000	47.80	
	148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	412926	1000.00	896.64	
	149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	231739	1000.00	911.65	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230626.b\X062603.D
Date : 26-JUN-2023 13:15
Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062603.D
Inj Date : 26-JUN-2023 13:15
InstruID : voa6.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062604.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062604.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 26-JUN-2023 13:36
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	484136	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.095	(0.981)	205084	47.4146	47.41
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	215467	46.1011	46.10
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	685345	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	620836	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	811991	51.7320	51.73
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	289206	47.6887	47.68
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	332353	50.0000	

01200603

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062604.D

Page 1

Date : 26-JUN-2023 13:36

Client ID: CCB

Instrument: voa6.i

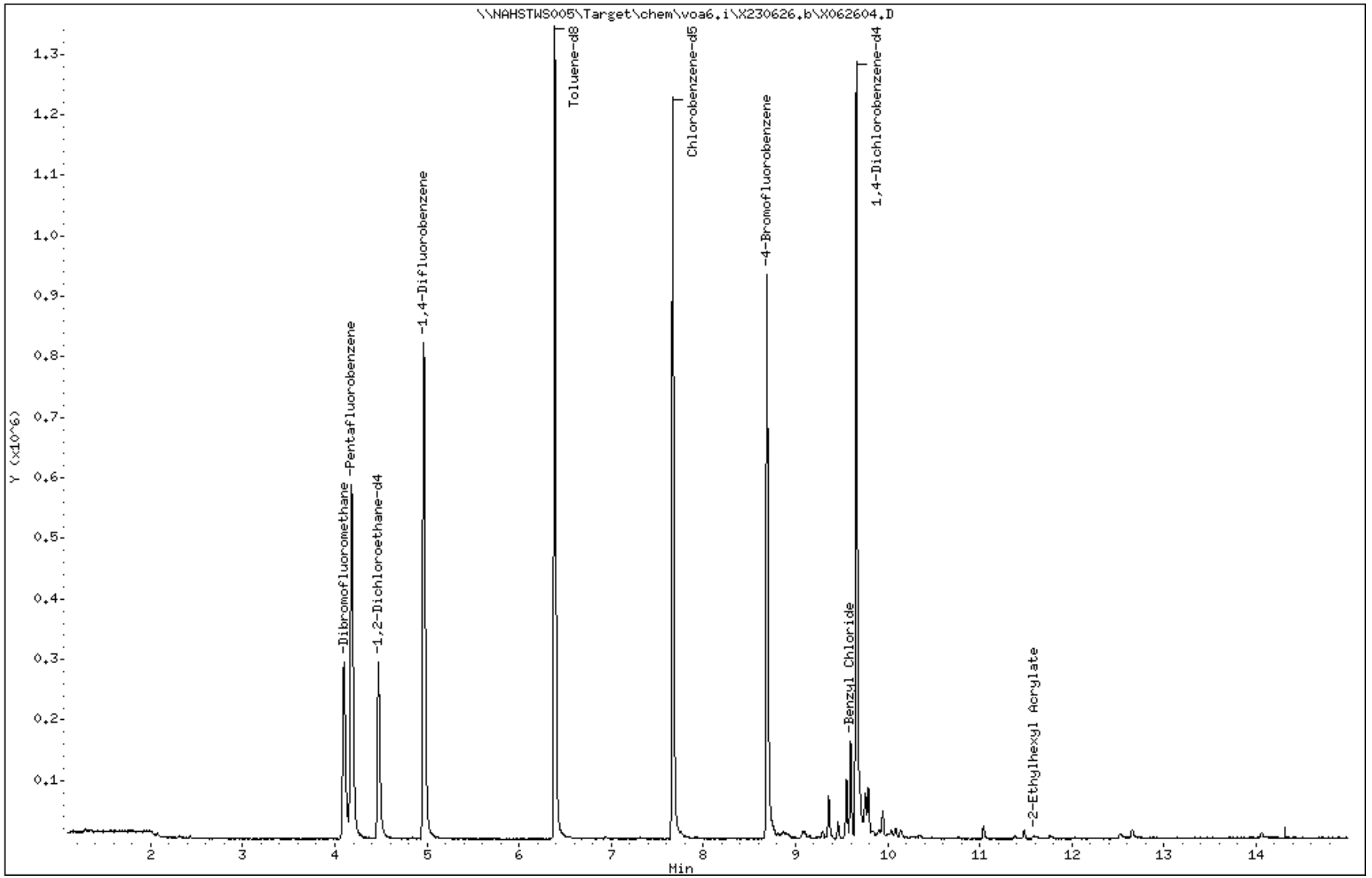
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062605.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062605.D
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Inj Date : 26-JUN-2023 13:57
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230626;VLCSW-230626;3;;LCS
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	460514	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.339)	19790	354.603	354.60(a)
140 1,3-Butadiene	54	1.171	1.167	(0.280)	71755	18.8023	18.80
25 Methacrylonitrile	41	3.829	3.818	(0.916)	69778	18.3638	18.36
12 Isobutyl Alcohol	43	4.676	4.672	(1.118)	226555	377.301	377.30
13 Acetonitrile	39	2.202	2.202	(0.527)	82699	185.146	185.14
14 Allyl Chloride	41	2.202	2.202	(0.527)	180458	17.8687	17.86
4 Propionitrile	54	3.653	3.653	(0.874)	108254	194.373	194.37(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	29978	19.0835	19.08
130 Ethyl Acetate	43	3.660	3.656	(0.875)	84893	18.0846	18.08
40 Methyl Methacrylate	41	5.609	5.602	(1.342)	66045	18.5258	18.52
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	81733	16.5803	16.58
131 Methyl Acrylate	55	3.694	3.690	(0.883)	73651	19.7468	19.74
139 Diethyl ether	59	1.763	1.760	(0.422)	58017	20.1092	20.10
156 Diisopropyl ether	45	3.000	3.000	(0.718)	259092	19.0764	19.07
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	71044	18.1275	18.12
3 Chloromethane	50	1.085	1.085	(0.260)	97059	20.5556	20.55
5 Vinyl Chloride	62	1.149	1.149	(0.275)	90466	18.7053	18.70
6 Bromomethane	94	1.347	1.343	(0.322)	58099	20.9279	20.92
7 Chloroethane	64	1.407	1.407	(0.337)	59465	20.1146	20.11

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	117524	20.4487	20.44
9	Acrolein	56	1.452	1.448 (0.347)	10482	36.6817	36.68

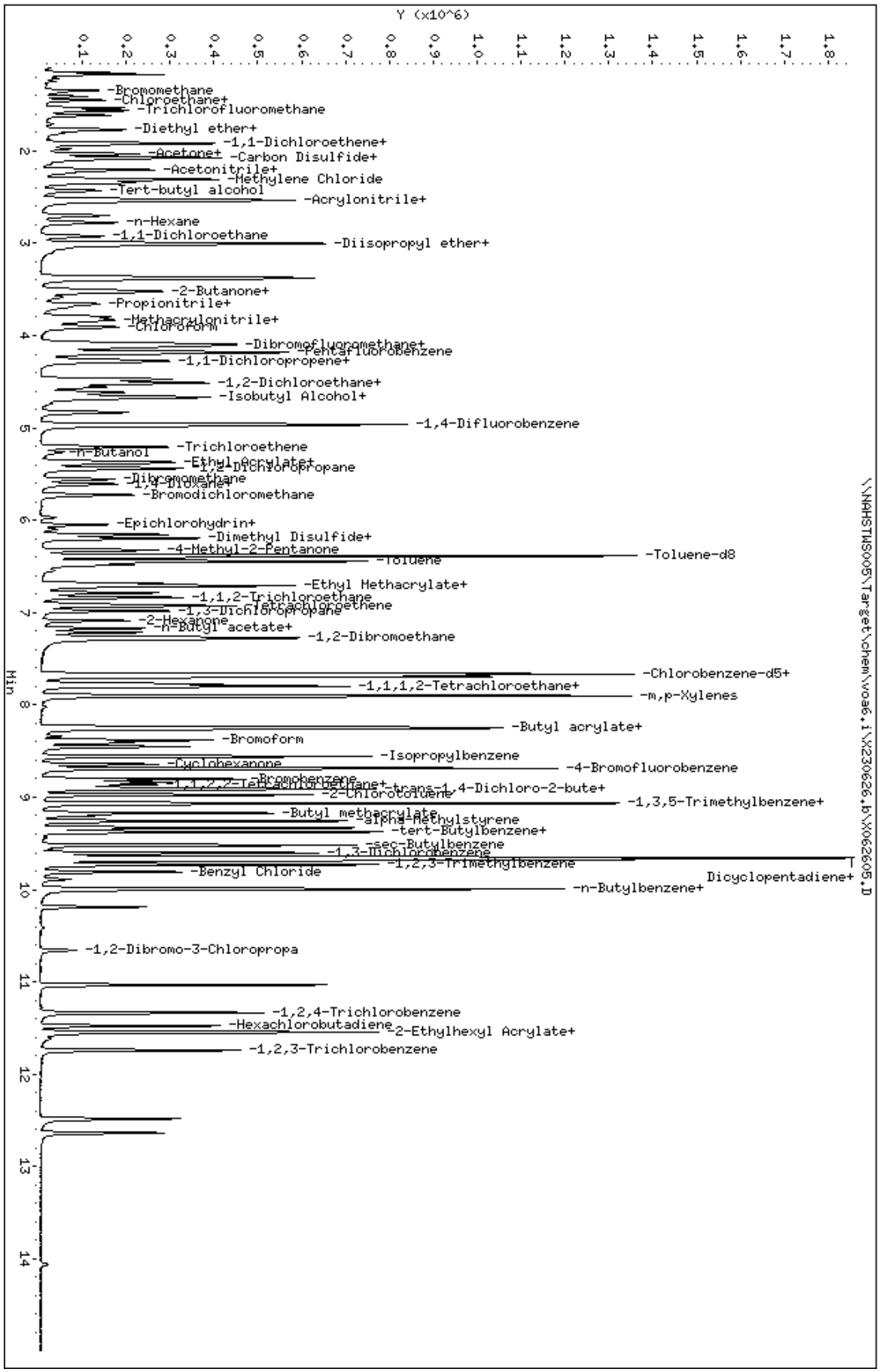
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	49077	40.7093	40.70
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	70419	19.5317	19.53
	15 Iodomethane	142	2.033	2.029	(0.486)	225021	39.3503	39.35
	16 Acrylonitrile	53	2.539	2.536	(0.607)	49317	33.7380	33.73
	17 Methylene Chloride	84	2.311	2.307	(0.553)	92301	18.1243	18.12
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	242771	19.2927	19.29
	19 Carbon Disulfide	76	2.074	2.071	(0.496)	476365	37.1068	37.10
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	83039	19.2480	19.24
	21 Vinyl Acetate	43	3.000	2.997	(0.718)	449389	39.0276	39.02
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	148082	19.0537	19.05
	24 2-Butanone	43	3.581	3.578	(0.857)	54658	36.0653	36.06
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	127668	20.8138	20.81
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	96030	19.3025	19.30
	28 Chloroform	83	3.908	3.908	(0.935)	157819	18.8668	18.86
	29 Bromochloromethane	128	3.799	3.791	(0.909)	51149	19.2938	19.29
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	207425	50.4377	50.43
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	131136	19.3963	19.39
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	115919	20.1147	20.11
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	118142	20.4590	20.45
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	113006	20.3895	20.38
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	223904	50.4431	50.44
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	687751	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	351441	19.8658	19.86
	38 Trichloroethene	130	5.208	5.205	(1.049)	100360	20.5753	20.57
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	122642	19.5981	19.59
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	62654	36.9995	36.99
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	93430	20.1206	20.12
	44 Dibromomethane	93	5.557	5.553	(1.119)	59383	20.3718	20.37
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	158011	37.9000	37.89
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	154320	20.0004	20.00
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	645405	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	802427	49.1766	49.17
	50 Toluene	91	6.445	6.445	(0.841)	386110	20.3780	20.37
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	130861	20.2707	20.27
	52 2-Hexanone	43	7.086	7.086	(0.924)	109118	39.1824	39.18
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	73087	19.7998	19.79
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	147514	19.7646	19.76
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	105613	20.1882	20.18
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	81253	20.8538	20.85
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	95268	20.1918	20.19
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	85755	20.5039	20.50
	59 Chlorobenzene	112	7.694	7.690	(1.003)	264361	20.3909	20.39
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	96340	19.9284	19.92
	61 Ethylbenzene	106	7.799	7.799	(1.017)	135197	20.2403	20.24
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	347421	42.1768	42.17
	63 o-Xylene	106	8.241	8.237	(1.075)	168922	20.5514	20.55
	64 Styrene	104	8.260	8.256	(1.077)	281221	20.7714	20.77
	66 Bromoform	173	8.410	8.406	(1.097)	73792	20.2333	20.23
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	410625	20.2114	20.21
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	117379	18.2097	18.20
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	317589	50.4056	50.40
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	366585	50.0000	

71 1,2,3-Trichloropropane	75	8.863	8.859 (0.917)	87582	18.9481	18.94
73 n-Propylbenzene	91	8.912	8.908 (0.922)	486160	20.1533	20.15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	74 Bromobenzene	156	8.803	8.803	(0.911)	122502	20.5029	20.50
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	355371	20.0765	20.07
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	299648	19.5606	19.56
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	351672	20.5809	20.58
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	297758	20.1913	20.19
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	362470	20.2965	20.29
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	413245	19.8691	19.86
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	369774	20.3070	20.30
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	214103	20.1251	20.12
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	224069	19.6773	19.67
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	319027	20.5706	20.57
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	215030	20.3707	20.37
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	20689	19.8257	19.82
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	152177	20.7241	20.72
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	68061	20.6491	20.64
	92 Naphthalene	128	11.544	11.540	(1.195)	328350	19.8635	19.86
	93 1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	138281	20.4656	20.46
M	94 1,2-Dichloroethylene (total)	96				179069	38.5506	38.55
M	95 Xylenes (total)	106				516343	62.7282	62.72
	141 Cyclohexane	56	4.125	4.121	(0.987)	117897	20.0837	20.08
	138 Freon TF	101	1.921	1.917	(0.459)	72999	23.0416	23.04
	147 Methylcyclohexane	55	5.385	5.377	(1.085)	192127	19.9880	19.98
	146 Methyl Acetate	43	2.239	2.232	(0.536)	47417	17.3960	17.39
	148 Tert-Butyl alcohol	59	2.431	2.427	(0.581)	156127	330.150	330.15
	149 Isopropyl Alcohol	45	2.097	2.093	(0.502)	84497	323.708	323.70

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062605.D
Date : 26-JUN-2023 13:57
Client ID: VLCSW-230626
Sample Info: VLCSW-230626;VLCSW-230626;3;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062605.D
Inj Date : 26-JUN-2023 13:57
InstruID : voa6.i
LabSampID : VLCSW-230626

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062607.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062607.D
Lab Smp Id: VBLKW-230626 Client Smp ID: VBLKW-230626
Inj Date : 26-JUN-2023 14:39
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230626;VBLKW-230626;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	478836	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.095	(0.981)	202195	47.2630	47.26
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	213543	46.1969	46.19
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	682036	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	618357	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	807514	51.6530	51.65
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	294163	48.7119	48.71
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	329847	50.0000	

01200613

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062607.D

Date : 26-JUN-2023 14:39

Client ID: VBLKW-230626

Instrument: voa6.i

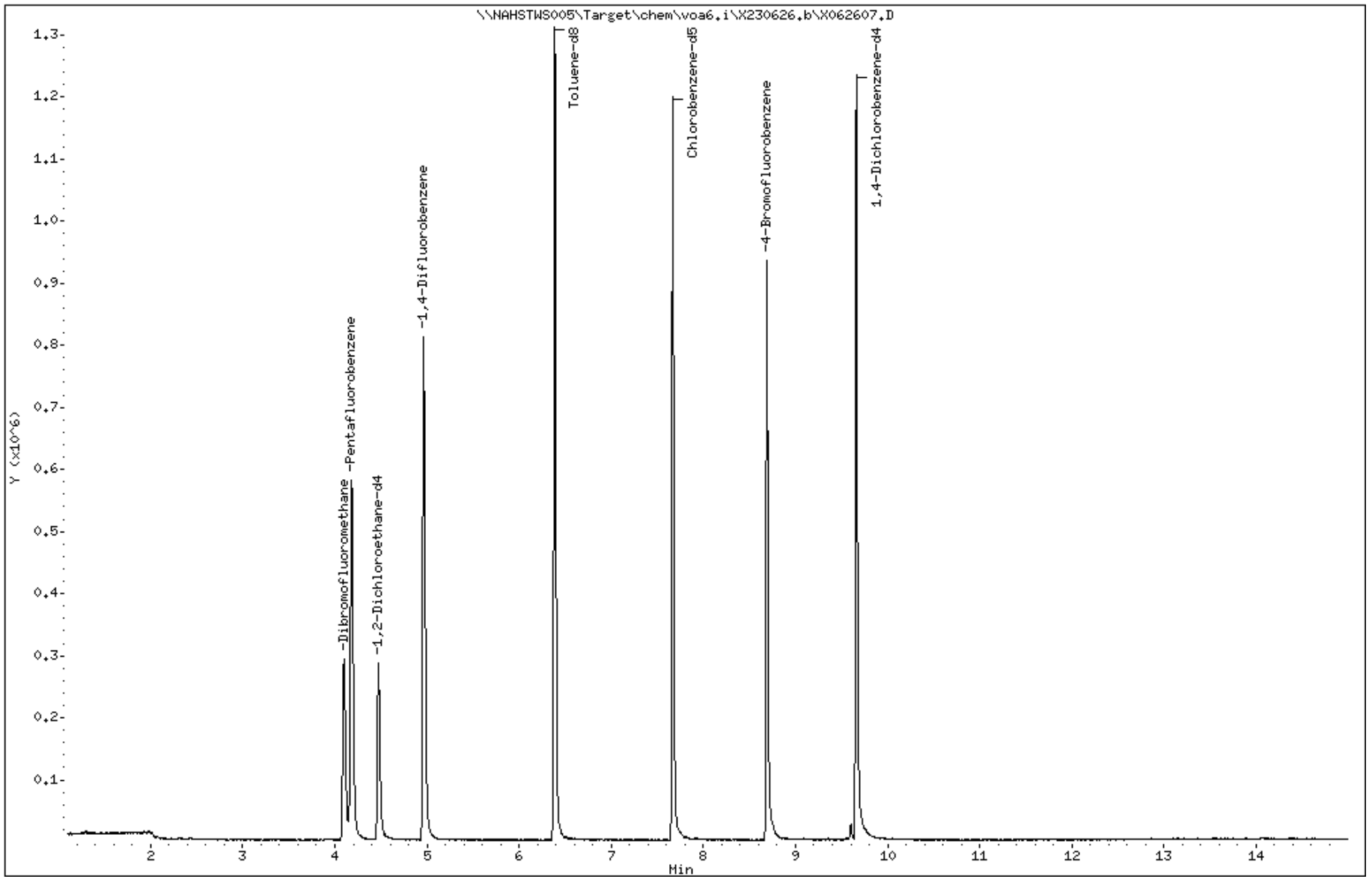
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062607.D
Inj Date : 26-JUN-2023 14:39
InstruID : voa6.i
LabSampID : VBLKW-230626

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062608.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062608.D
Lab Smp Id: HS23061707-01 Client Smp ID: HS230611707-01
Inj Date : 26-JUN-2023 15:00
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-01;HS230611707-01;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	470724	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.980)	201082	47.8169	47.81
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	209357	46.0695	46.06
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	670901	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	596357	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	785666	52.1095	52.10
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	280468	48.1513	48.15
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	310331	50.0000	

01200616

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062608.D

Date : 26-JUN-2023 15:00

Client ID: HS230611707-01

Instrument: voa6.i

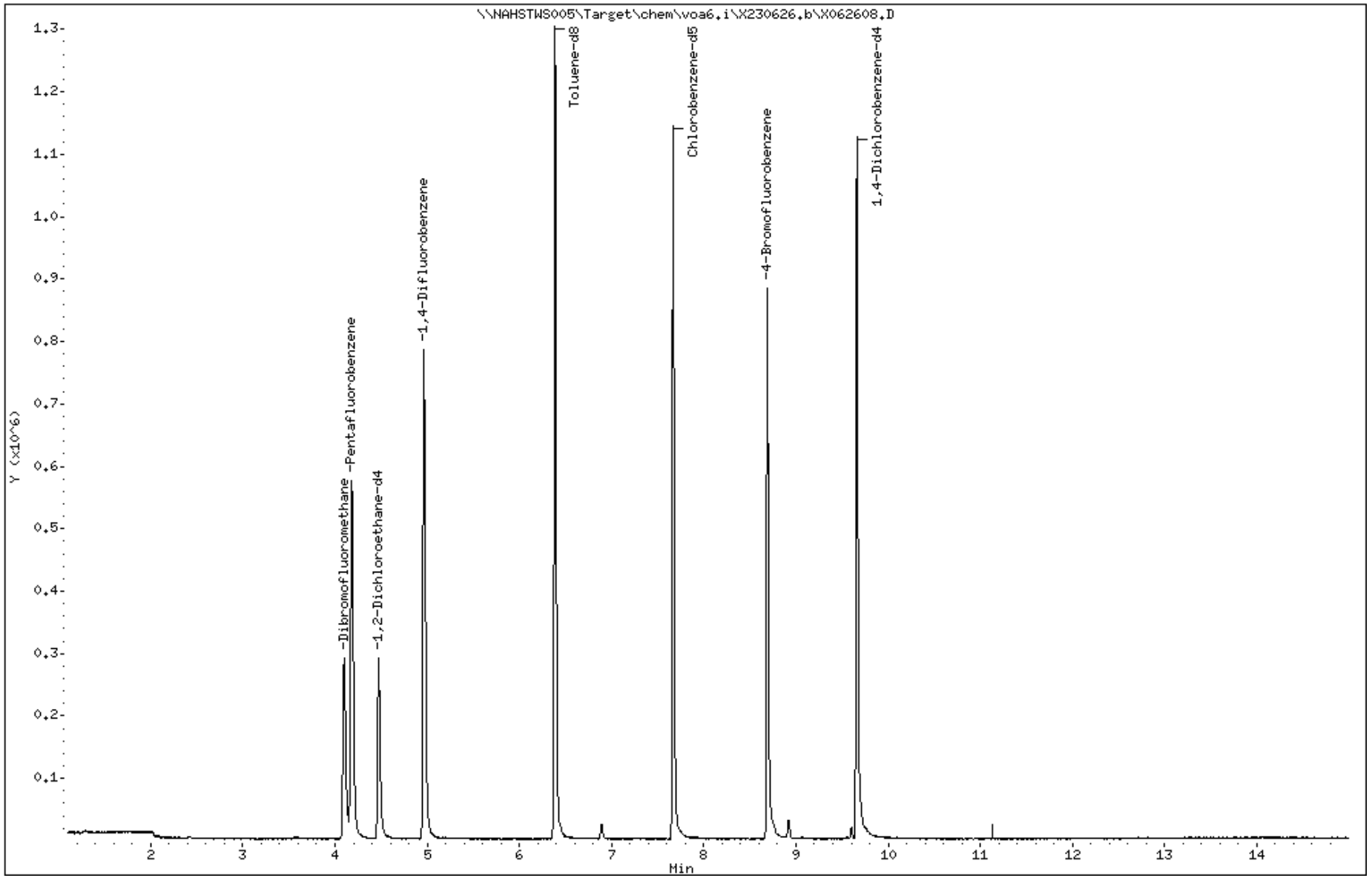
Sample Info: HS23061707-01;HS230611707-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062608.D
Inj Date : 26-JUN-2023 15:00
InstruID : voa6.i
LabSampID : HS23061707-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062611.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062611.D
Lab Smp Id: HS23061707-01MS Client Smp ID: HS230611707-01MS
Inj Date : 26-JUN-2023 16:04
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-01MS;HS230611707-01MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 10 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	478875	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.339)	21415	369.008	369.00(a)
140 1,3-Butadiene	54	1.171	1.167	(0.280)	77476	19.5230	19.52
25 Methacrylonitrile	41	3.829	3.818	(0.916)	73828	18.6847	18.68
12 Isobutyl Alcohol	43	4.676	4.672	(1.118)	229783	368.004	368.00
13 Acetonitrile	39	2.202	2.202	(0.527)	97586	210.098	210.09
14 Allyl Chloride	41	2.202	2.202	(0.527)	203741	19.4006	19.40
4 Propionitrile	54	3.656	3.653	(0.875)	109394	188.889	188.88(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	27934	18.4547	18.45
130 Ethyl Acetate	43	3.660	3.656	(0.875)	82938	16.9907	16.99
40 Methyl Methacrylate	41	5.609	5.602	(1.342)	72298	19.5023	19.50
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	80925	16.5993	16.59
131 Methyl Acrylate	55	3.698	3.690	(0.884)	74522	19.2143	19.21
139 Diethyl ether	59	1.760	1.760	(0.421)	58591	19.5295	19.52
156 Diisopropyl ether	45	3.000	3.000	(0.718)	272329	19.2822	19.28
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	74182	18.2011	18.20
3 Chloromethane	50	1.085	1.085	(0.260)	95439	19.4934	19.49
5 Vinyl Chloride	62	1.149	1.149	(0.275)	100416	19.9665	19.96
6 Bromomethane	94	1.347	1.343	(0.322)	60106	20.8207	20.82
7 Chloroethane	64	1.407	1.407	(0.337)	68087	22.1480	22.14

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	135308	22.6403	22.64
9	Acrolein	56	1.452	1.448 (0.347)	13097	44.0756	44.07

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062611.D Page 2
Report Date: 06-Jul-2023 12:04

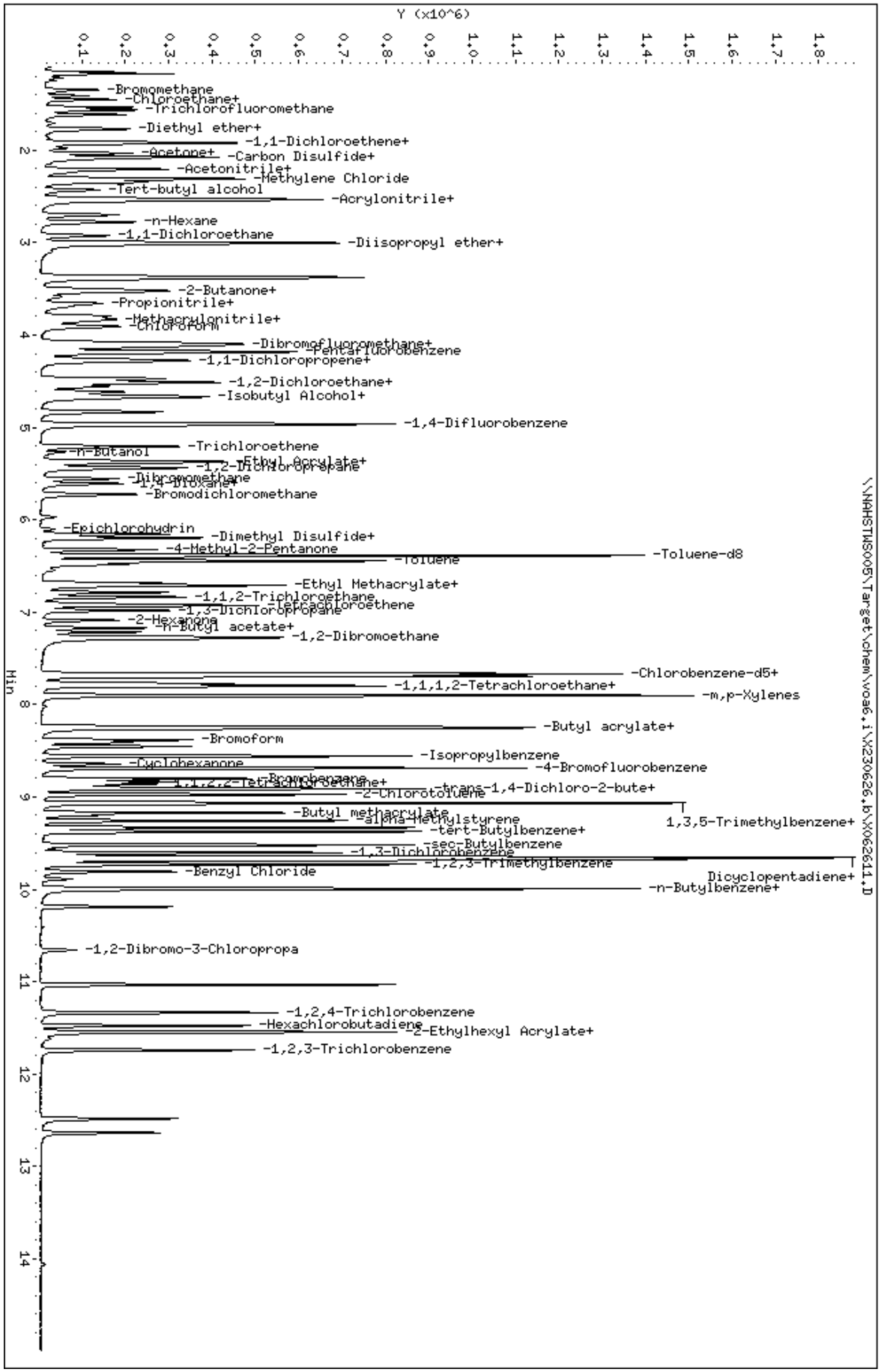
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	37872	30.1401	30.14
	11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	80581	21.4933	21.49
	15 Iodomethane	142	2.033	2.029	(0.486)	212342	35.9383	35.93
	16 Acrylonitrile	53	2.543	2.536	(0.608)	55041	36.2101	36.21
	17 Methylene Chloride	84	2.307	2.307	(0.552)	97107	18.3369	18.33
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	252108	19.2665	19.26
	19 Carbon Disulfide	76	2.075	2.071	(0.496)	485810	36.3915	36.39
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	92282	20.5704	20.57
	21 Vinyl Acetate	43	3.000	2.997	(0.718)	452176	37.7640	37.76
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	158087	19.5612	19.56
	24 2-Butanone	43	3.585	3.578	(0.857)	45082	28.6062	28.60
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	142783	22.3859	22.38
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	102353	19.7847	19.78
	28 Chloroform	83	3.908	3.908	(0.935)	164766	18.9421	18.94
	29 Bromochloromethane	128	3.795	3.791	(0.908)	52087	18.8943	18.89
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	201935	47.1979	47.19
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	146297	20.8091	20.80
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	131917	23.1458	23.14
	33 1,2-Dichloroethane	62	4.560	4.552	(0.918)	118522	20.7534	20.75
	34 Carbon Tetrachloride	117	4.267	4.264	(0.860)	130319	23.7753	23.77
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	206464	44.6333	44.63
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	680173	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	380572	21.7521	21.75
	38 Trichloroethene	130	5.208	5.205	(1.049)	108992	22.5940	22.59
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	128787	20.8093	20.80
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	95749	20.8497	20.84
	44 Dibromomethane	93	5.549	5.553	(1.118)	60537	20.9991	20.99
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	152389	37.9335	37.93
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	160132	20.9848	20.98
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	621892	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	807980	51.3891	51.38
	50 Toluene	91	6.445	6.445	(0.841)	424641	23.2590	23.25
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	132869	20.8110	20.81
	52 2-Hexanone	43	7.086	7.086	(0.924)	99691	37.1508	37.15
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	75039	21.0972	21.09
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	152862	21.2555	21.25
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	108204	21.4655	21.46
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	95296	25.3827	25.38
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	93338	20.5307	20.53
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	96327	23.2882	23.28
	59 Chlorobenzene	112	7.694	7.690	(1.003)	284402	22.7661	22.76
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	102767	22.0616	22.06
	61 Ethylbenzene	106	7.799	7.799	(1.017)	151811	23.5869	23.58
	62 m,p-Xylenes	106	7.900	7.904	(1.030)	388085	48.8947	48.89
	63 o-Xylene	106	8.241	8.237	(1.075)	183228	23.1347	23.13
	64 Styrene	104	8.260	8.256	(1.077)	302672	23.2010	23.20
	66 Bromoform	173	8.410	8.406	(1.097)	74295	21.1414	21.14
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	475462	24.2876	24.28
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	122703	19.6587	19.65
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	297384	48.9682	48.96
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	354966	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.859	(0.917)	89673	20.0356	20.03(M)

73 n-Propylbenzene	91	8.912	8.908 (0.922)	566830	24.2665	24.26
74 Bromobenzene	156	8.803	8.803 (0.911)	129851	22.4443	22.44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	403726	23.5548	23.55
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	337631	22.7616	22.76
77	4-Chlorotoluene	91	9.069	9.069	(0.939)	383837	23.1986	23.19
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	349602	24.4828	24.48
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	399521	23.1034	23.10
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	498892	24.7722	24.77
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	442206	25.0797	25.07
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	235818	22.8918	22.89
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	247735	22.4677	22.46
87	n-Butylbenzene	91	9.992	9.992	(1.034)	381201	25.3840	25.38
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	230423	22.5435	22.54
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	21415	21.1751	21.17
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	166424	23.4062	23.40
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	81519	25.5417	25.54
92	Naphthalene	128	11.544	11.540	(1.195)	333227	20.8184	20.81
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	146259	22.3548	22.35
M 94	1,2-Dichloroethylene (total)	96				194635	40.3550	40.35
M 95	Xylenes (total)	106				571313	72.0294	72.02
141	Cyclohexane	56	4.121	4.121	(0.986)	145877	23.8973	23.89
138	Freon TF	101	1.917	1.917	(0.459)	86399	26.1909	26.19
147	Methylcyclohexane	55	5.381	5.377	(1.084)	233622	24.5758	24.57
146	Methyl Acetate	43	2.239	2.232	(0.536)	49252	17.3764	17.37
148	Tert-Butyl alcohol	59	2.431	2.427	(0.581)	155393	315.999	315.99
149	Isopropyl Alcohol	45	2.097	2.093	(0.502)	84722	312.126	312.12

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\voa6.i\X230626.b\X062611.D
Date : 26-JUN-2023 16:04
Client ID: HS230611707-01MS
Sample Info: HS230611707-01MS;HS230611707-01MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

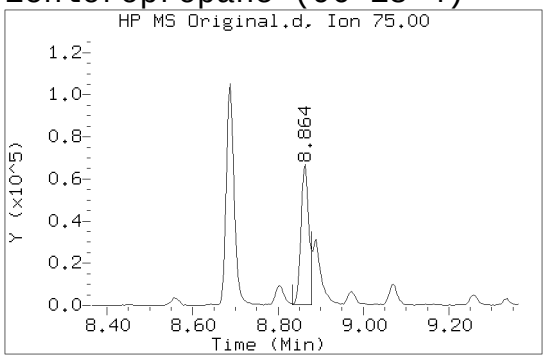
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Inj Date : 26-JUN-2023 16:04
InstruID : voa6.i
LabSampID : HS23061707-01MS

1,2,3-Trichloropropane (96-18-4)

Reason Code:

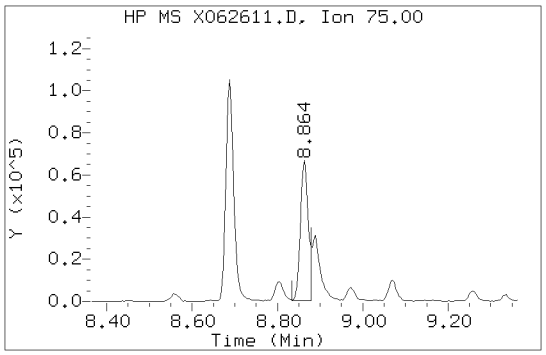
BEFORE

MASS
75
AREA
89673
HEIGHT
66779
06-Jul-2023
12:04
linh
pham



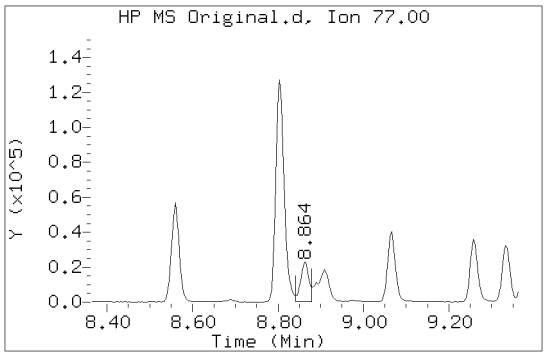
AFTER

MASS
75
AREA
89673
HEIGHT
66779
06-Jul-2023
12:04
linh
pham



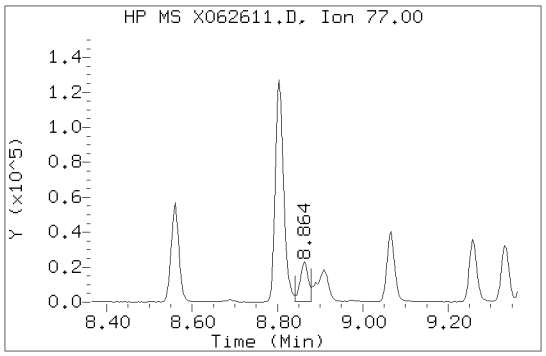
BEFORE

MASS
77
AREA
32014
HEIGHT
22777
06-Jul-2023
12:04
linh
pham



AFTER

MASS
77
AREA
32014
HEIGHT
22777
06-Jul-2023
12:04
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062612.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062612.D
Lab Smp Id: HS23061707-01MSD Client Smp ID: HS230611707-01MSD
Inj Date : 26-JUN-2023 16:25
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-01MSD;HS230611707-01MSD;3;;MSD
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	486549	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.339)	21841	370.413	370.41(a)
140 1,3-Butadiene	54	1.171	1.167	(0.280)	73819	18.3081	18.30
25 Methacrylonitrile	41	3.825	3.818	(0.915)	74367	18.5242	18.52
12 Isobutyl Alcohol	43	4.676	4.672	(1.118)	234158	369.096	369.09
13 Acetonitrile	39	2.202	2.202	(0.527)	93760	198.677	198.67
14 Allyl Chloride	41	2.202	2.202	(0.527)	200613	18.8015	18.80
4 Propionitrile	54	3.657	3.653	(0.875)	109142	185.481	185.48(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	27956	18.4852	18.48
130 Ethyl Acetate	43	3.660	3.656	(0.875)	84500	17.0376	17.03
40 Methyl Methacrylate	41	5.610	5.602	(1.342)	74853	19.8730	19.87
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	84171	17.0367	17.03
131 Methyl Acrylate	55	3.698	3.690	(0.884)	81025	20.5615	20.56
139 Diethyl ether	59	1.760	1.760	(0.421)	58630	19.2343	19.23
156 Diisopropyl ether	45	3.004	3.000	(0.719)	273196	19.0385	19.03
2 Dichlorodifluoromethane	85	0.980	0.976	(0.234)	67872	16.4232	16.42
3 Chloromethane	50	1.085	1.085	(0.260)	92256	18.5960	18.59
5 Vinyl Chloride	62	1.149	1.149	(0.275)	95066	18.6046	18.60
6 Bromomethane	94	1.347	1.343	(0.322)	59148	20.1657	20.16
7 Chloroethane	64	1.407	1.407	(0.337)	60849	19.4814	19.48

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	127353	20.9732	20.97
9	Acrolein	56	1.452	1.448 (0.347)	11406	37.7794	37.77

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	36575	28.6353	28.63
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	75812	19.9023	19.90
	15 Iodomethane	142	2.030	2.029	(0.485)	224486	37.2944	37.29
	16 Acrylonitrile	53	2.539	2.536	(0.607)	58493	37.8742	37.87
	17 Methylene Chloride	84	2.307	2.307	(0.552)	96004	17.8427	17.84
	18 Methyl tert-butyl ether	73	2.539	2.536	(0.607)	249142	18.7395	18.73
	19 Carbon Disulfide	76	2.075	2.071	(0.496)	458533	33.8065	33.80
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	86712	19.0239	19.02
	21 Vinyl Acetate	43	3.001	2.997	(0.718)	446670	36.7158	36.71
	22 1,1-Dichloroethane	63	2.926	2.922	(0.700)	152167	18.5317	18.53
	24 2-Butanone	43	3.585	3.578	(0.857)	44415	27.7384	27.73
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	135240	20.8685	20.86
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	101091	19.2325	19.23
	28 Chloroform	83	3.908	3.908	(0.935)	162691	18.4085	18.40
	29 Bromochloromethane	128	3.795	3.791	(0.908)	52569	18.7684	18.76
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	203441	46.7970	46.79
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	141046	19.7458	19.74
	32 1,1-Dichloropropene	75	4.283	4.282	(0.863)	125741	21.7704	21.77
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	120663	20.8489	20.84
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	123105	22.1621	22.16
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	212285	45.1782	45.17
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	689290	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	363790	20.5179	20.51
	38 Trichloroethene	130	5.205	5.205	(1.048)	105390	21.5583	21.55
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	124474	19.8464	19.84
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	95081	20.4304	20.43
	44 Dibromomethane	93	5.550	5.553	(1.118)	59914	20.5081	20.50
	45 4-Methyl-2-Pentanone	43	6.326	6.322	(0.825)	156543	39.0012	39.00
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	157545	20.3727	20.37
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	621354	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	811427	51.6530	51.65
	50 Toluene	91	6.446	6.445	(0.841)	411066	22.5349	22.53
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	129433	20.0047	20.00
	52 2-Hexanone	43	7.087	7.086	(0.924)	104100	38.8275	38.82
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	74612	20.9954	20.99
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	152356	21.2035	21.20
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	106684	21.1822	21.18
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	90556	24.1411	24.14
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	94304	20.7611	20.76
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	92795	22.1376	22.13
	59 Chlorobenzene	112	7.694	7.690	(1.003)	276670	22.1664	22.16
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	98885	21.2466	21.24
	61 Ethylbenzene	106	7.799	7.799	(1.017)	146867	22.8385	22.83
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	371933	46.9003	46.90
	63 o-Xylene	106	8.241	8.237	(1.075)	176797	22.3420	22.34
	64 Styrene	104	8.260	8.256	(1.077)	294653	22.6059	22.60
	66 Bromoform	173	8.410	8.406	(1.097)	73550	20.9475	20.94
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	459779	23.5068	23.50
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	123395	20.4440	20.44
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	298006	49.1147	49.11
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	343257	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.859	(0.917)	88423	20.4302	20.43

73 n-Propylbenzene	91	8.908	8.908 (0.922)	545008	24.1282	24.12
74 Bromobenzene	156	8.803	8.803 (0.911)	125849	22.4946	22.49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	392178	23.6616	23.66
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	325653	22.7029	22.70
77	4-Chlorotoluene	91	9.070	9.069	(0.939)	374968	23.4356	23.43
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	336488	24.3683	24.36
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	387954	23.1998	23.19
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	482901	24.7961	24.79
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	426838	25.0339	25.03
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	230110	23.0997	23.09
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	239768	22.4870	22.48
87	n-Butylbenzene	91	9.992	9.992	(1.034)	374622	25.7969	25.79
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	224233	22.6862	22.68
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	20405	20.8685	20.86
90	1,2,4-Trichlorobenzene	180	11.338	11.334	(1.173)	163737	23.8138	23.81
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	80100	25.9532	25.95
92	Naphthalene	128	11.544	11.540	(1.195)	341518	22.0642	22.06
93	1,2,3-Trichlorobenzene	180	11.742	11.738	(1.215)	148984	23.5481	23.54
M 94	1,2-Dichloroethylene (total)	96				187803	38.2564	38.25
M 95	Xylenes (total)	106				548730	69.2423	69.24
141	Cyclohexane	56	4.121	4.121	(0.986)	138682	22.3603	22.36
138	Freon TF	101	1.917	1.917	(0.459)	83144	24.8209	24.82
147	Methylcyclohexane	55	5.381	5.377	(1.084)	234633	24.3556	24.35
146	Methyl Acetate	43	2.236	2.232	(0.535)	48870	16.9697	16.96
148	Tert-Butyl alcohol	59	2.431	2.427	(0.581)	159454	319.143	319.14
149	Isopropyl Alcohol	45	2.097	2.093	(0.502)	87498	317.269	317.26

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01200630

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062612.D

Page 1

Date : 26-JUN-2023 16:25

Client ID: HS230611707-01MSD

Instrument: voa6.i

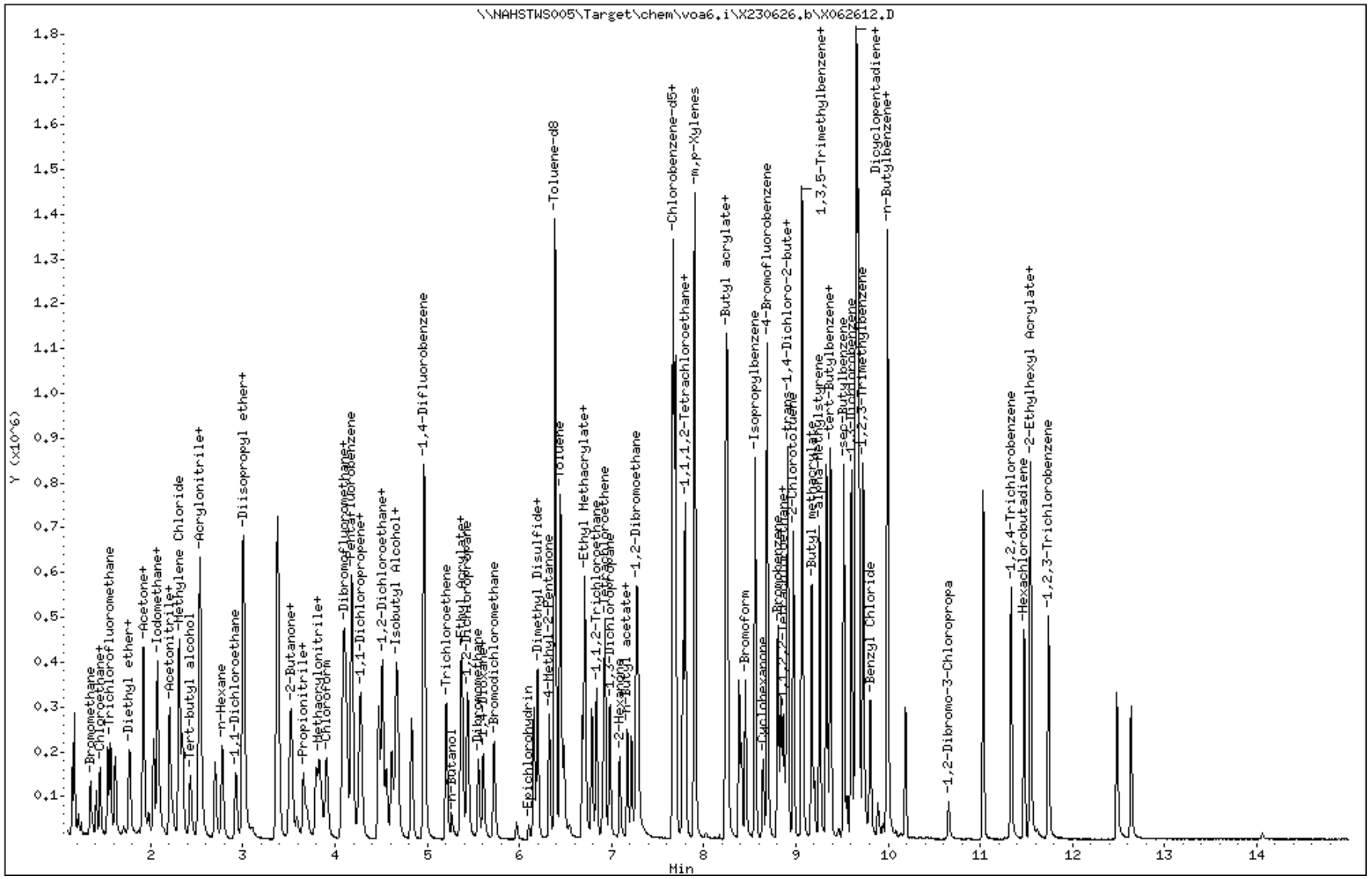
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 26-JUN-2023 16:25
InstruID : voa6.i
LabSampID : HS23061707-01MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062614.D Page 1
Report Date: 06-Jul-2023 12:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062614.D
Lab Smp Id: HS23061707-11 Client Smp ID: HS230611707-11
Inj Date : 26-JUN-2023 17:07
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-11;HS230611707-11;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	471161	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.095	(0.981)	203004	48.2321	48.23
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	211854	46.5852	46.58
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	672061	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	605148	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	795843	52.0177	52.01
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	279712	47.3147	47.31
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	315944	50.0000	

01200633

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062614.D

Page 1

Date : 26-JUN-2023 17:07

Client ID: HS230611707-11

Instrument: voa6.i

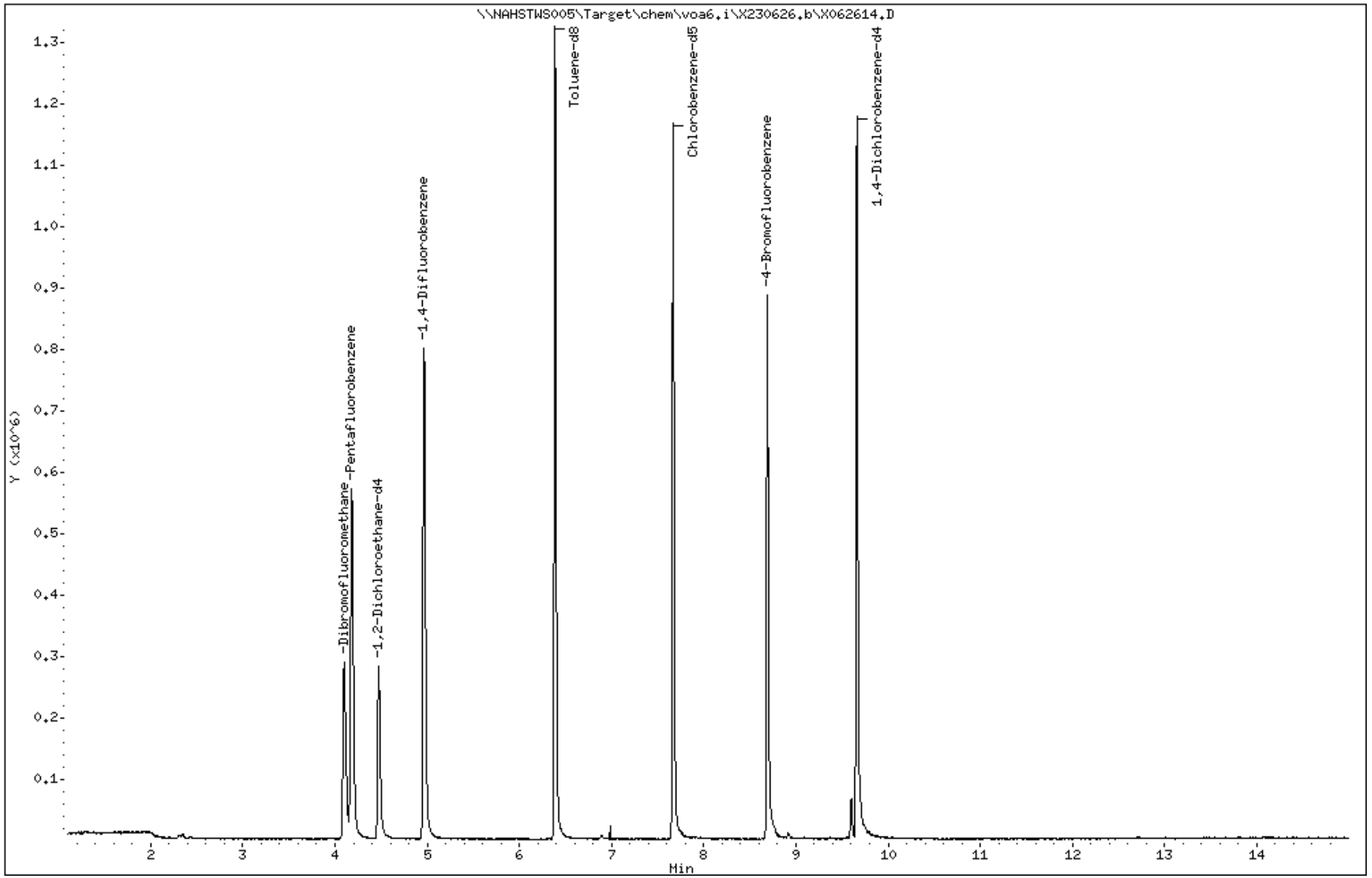
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 26-JUN-2023 17:07
InstruID : voa6.i
LabSampID : HS23061707-11

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062616.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062616.D
Lab Smp Id: HS23061707-02 Client Smp ID: HS230611707-02
Inj Date : 26-JUN-2023 17:49
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-02;HS230611707-02;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	482638	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.980)	201652	46.7611	46.76
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	210862	45.2401	45.24
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	673006	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	599830	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	790749	52.1429	52.14
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	275166	46.9543	46.95
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	313303	50.0000	

01200636

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062616.D

Date : 26-JUN-2023 17:49

Client ID: HS230611707-02

Instrument: voa6.i

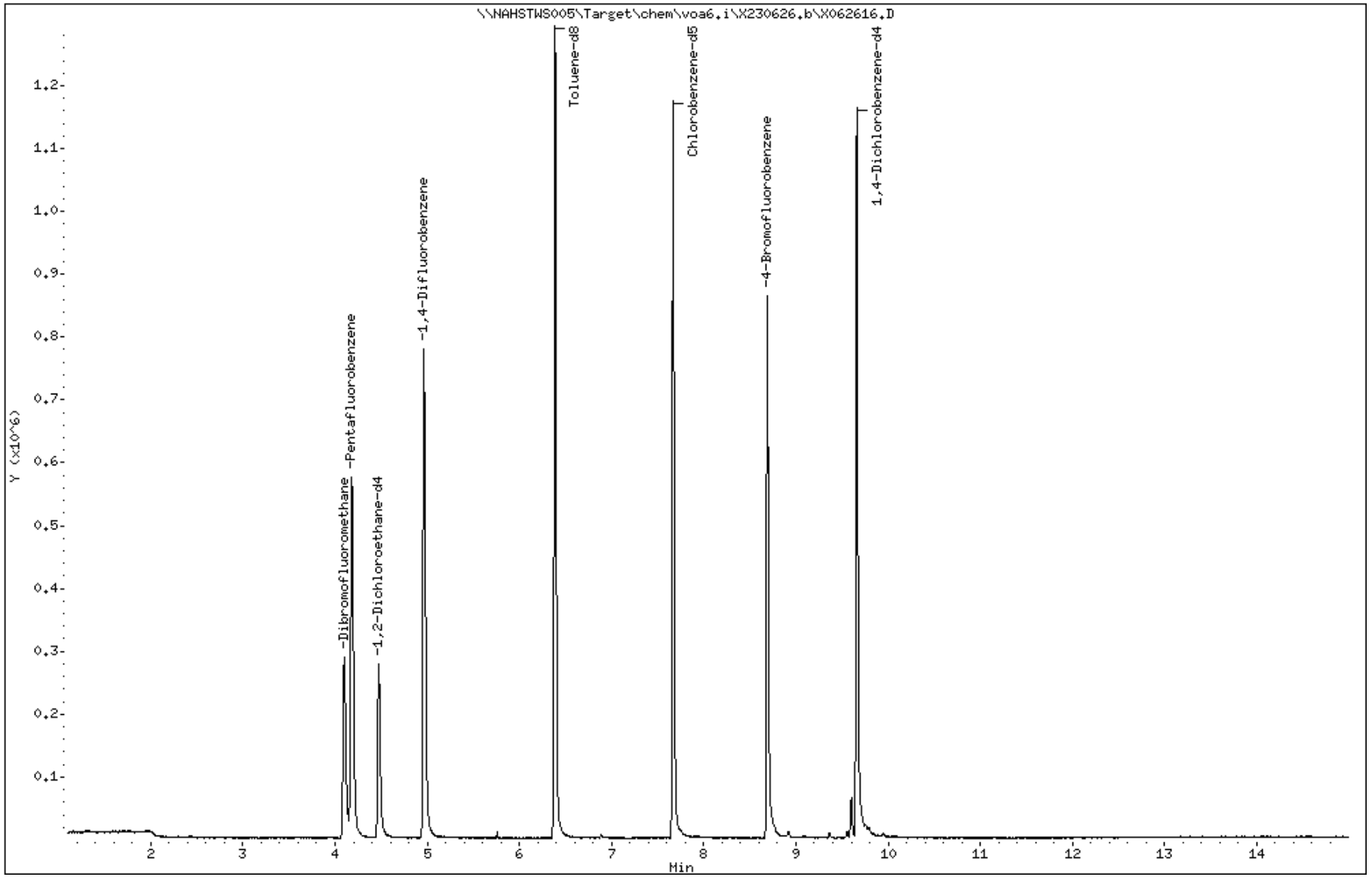
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062616.D
Inj Date : 26-JUN-2023 17:49
InstruID : voa6.i
LabSampID : HS23061707-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062617.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062617.D
Lab Smp Id: HS23061707-03 Client Smp ID: HS230611707-03
Inj Date : 26-JUN-2023 18:10
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-03;HS230611707-03;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	473971	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.980)	199903	47.2064	47.20
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	211377	46.1977	46.19
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	667824	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	594199	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	781658	52.0319	52.03
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	273243	47.0694	47.06
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	303854	50.0000	

01200639

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062617.D

Page 1

Date : 26-JUN-2023 18:10

Client ID: HS230611707-03

Instrument: voa6.i

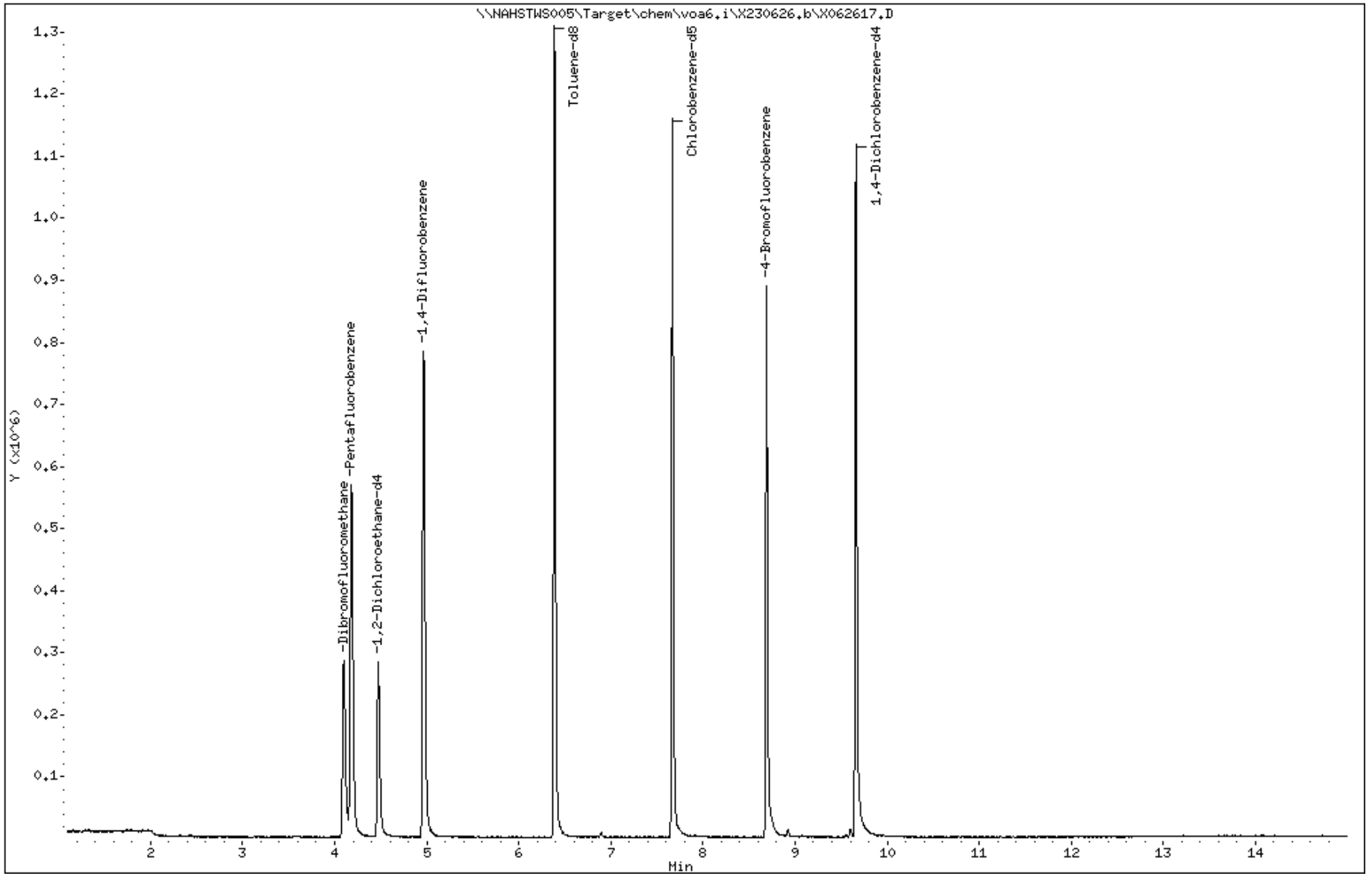
Sample Info: HS23061707-03;HS230611707-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062617.D
Inj Date : 26-JUN-2023 18:10
InstruID : voa6.i
LabSampID : HS23061707-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062618.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062618.D
Lab Smp Id: HS23061707-04 Client Smp ID: HS230611707-04
Inj Date : 26-JUN-2023 18:31
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-04;HS230611707-04;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	476359	50.0000	
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	5179	1.03522	1.03(a)
	27 cis-1,2-Dichloroethene	96	3.540	3.525	(0.847)	9700	1.88490	1.88(a)
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	203086	47.7214	47.72
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	210892	45.8544	45.85
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	671575	50.0000	
	38 Trichloroethene	130	5.212	5.205	(1.050)	29763	6.24884	6.24
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	591916	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	788807	52.7103	52.71
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	280054	48.4442	48.44
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	309101	50.0000	
M	94 1,2-Dichloroethylene (total)	96				9700	1.88490	1.88(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01200642

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062618.D

Date : 26-JUN-2023 18:31

Client ID: HS230611707-04

Instrument: voa6.i

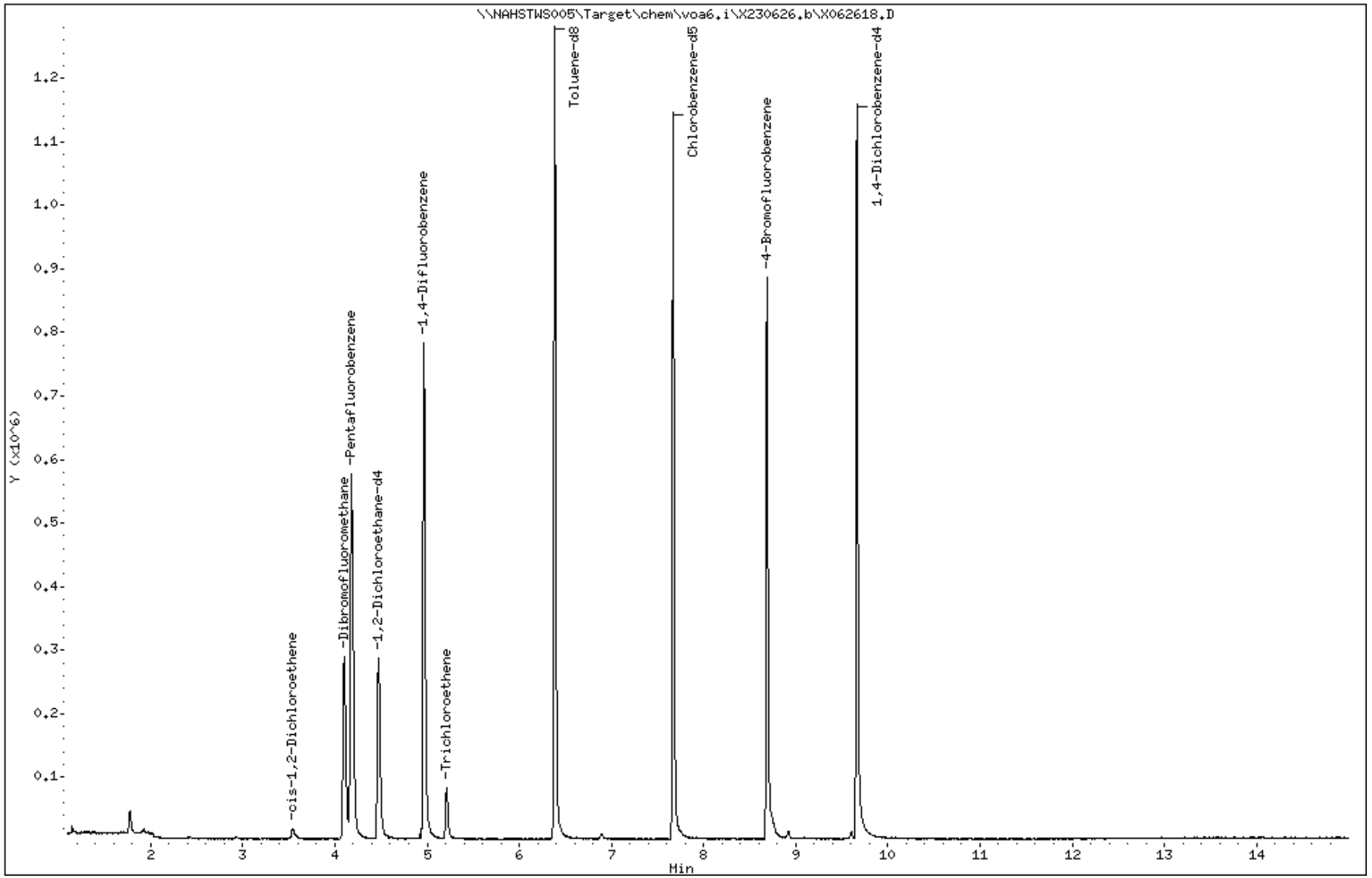
Sample Info: HS23061707-04;HS230611707-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062618.D

Date : 26-JUN-2023 18:31

Client ID: HS230611707-04

Instrument: voa6.i

Sample Info: HS23061707-04;HS230611707-04;;;

Purge Volume: 5.0

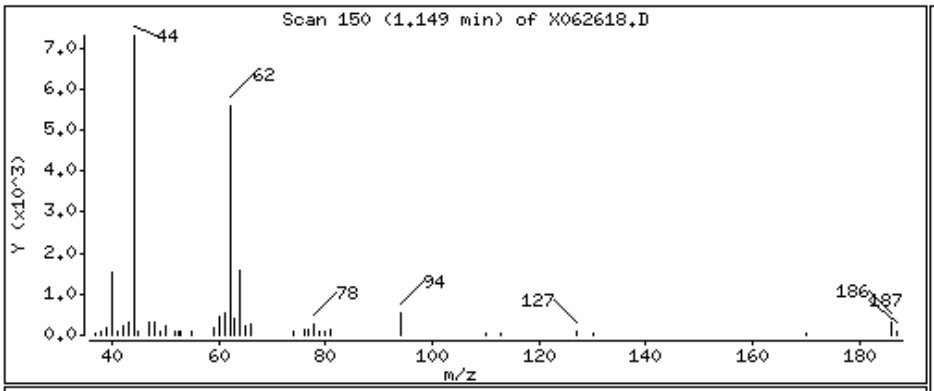
Operator: PC

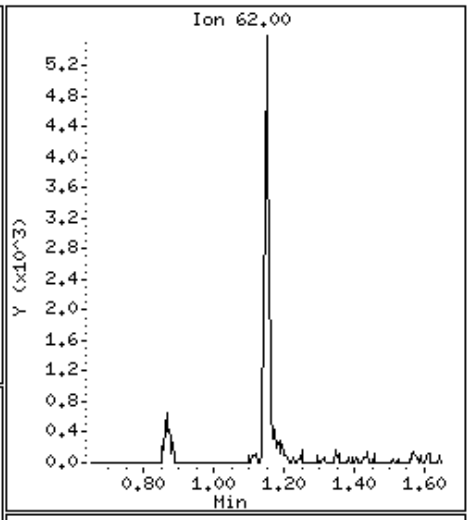
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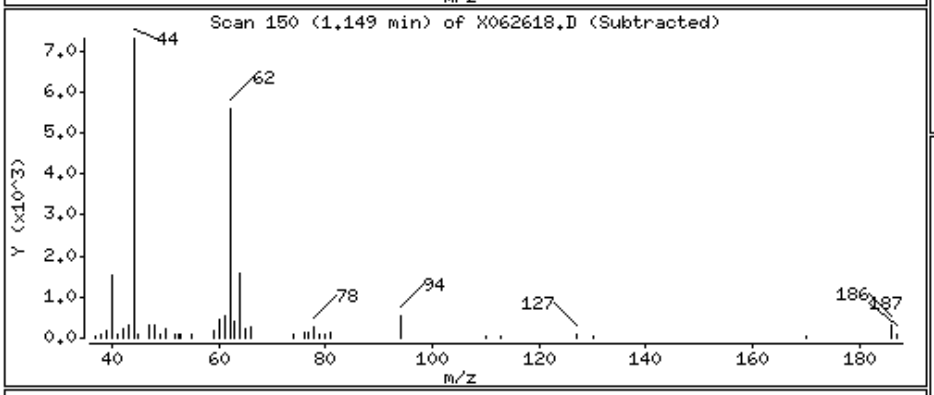
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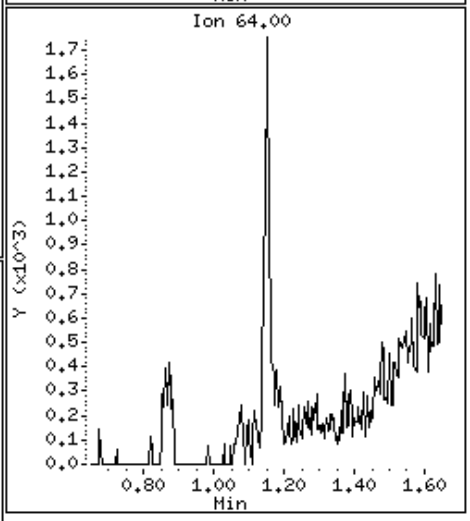
5 Vinyl Chloride

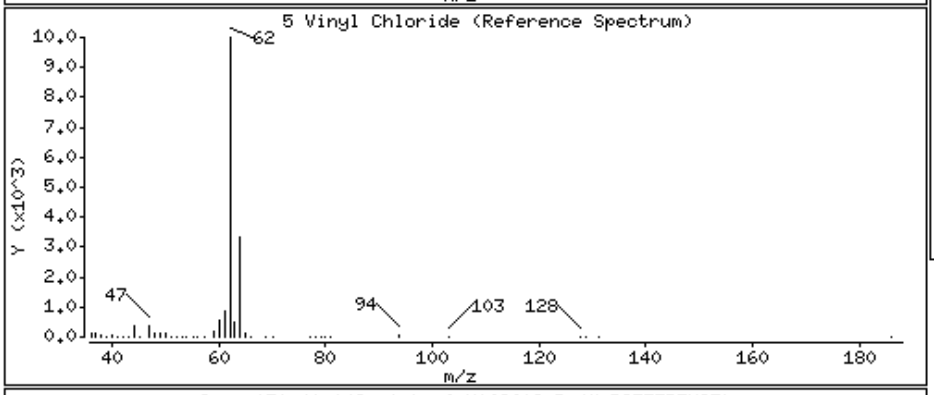
Concentration: 1.03 ug/l

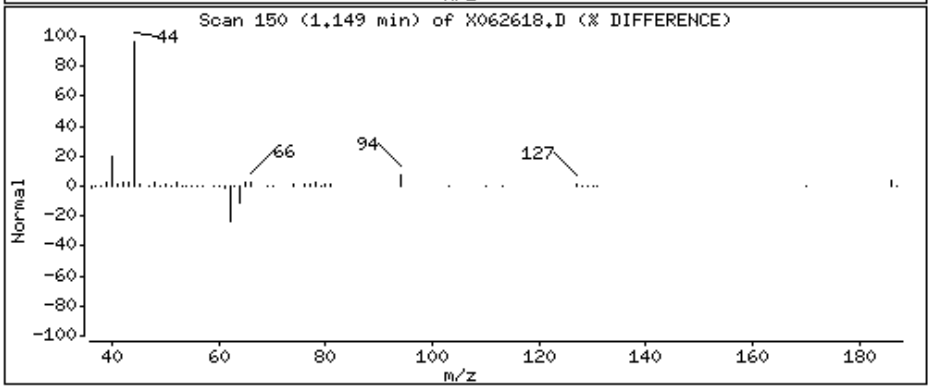












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062618.D Page 3

Date : 26-JUN-2023 18:31

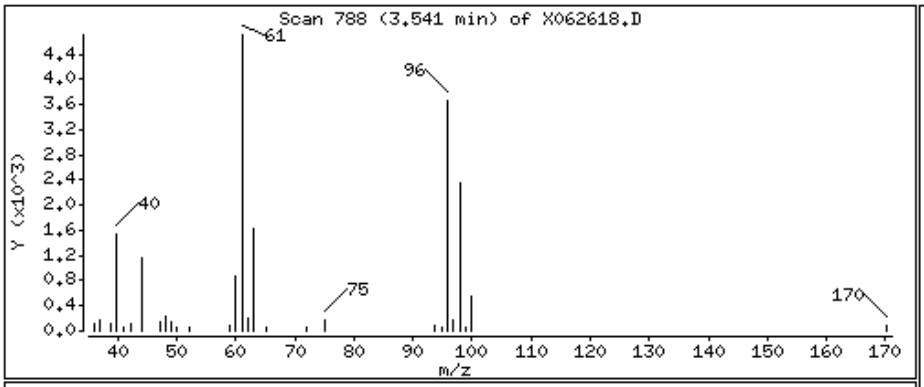
Client ID: HS230611707-04 Instrument: voa6.i

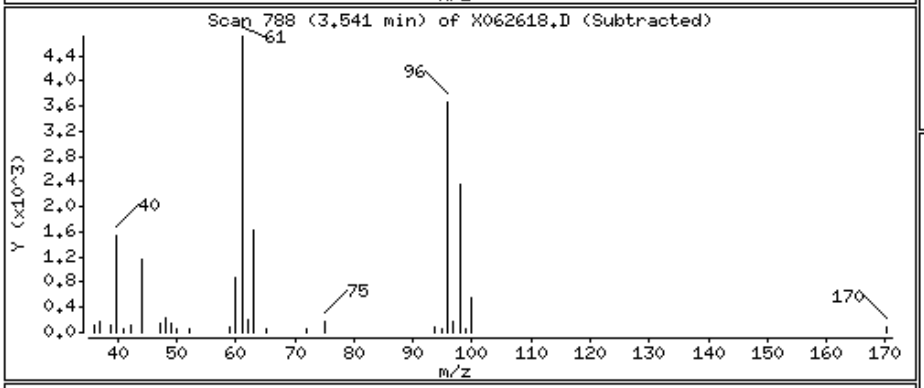
Sample Info: HS23061707-04;HS230611707-04;;;

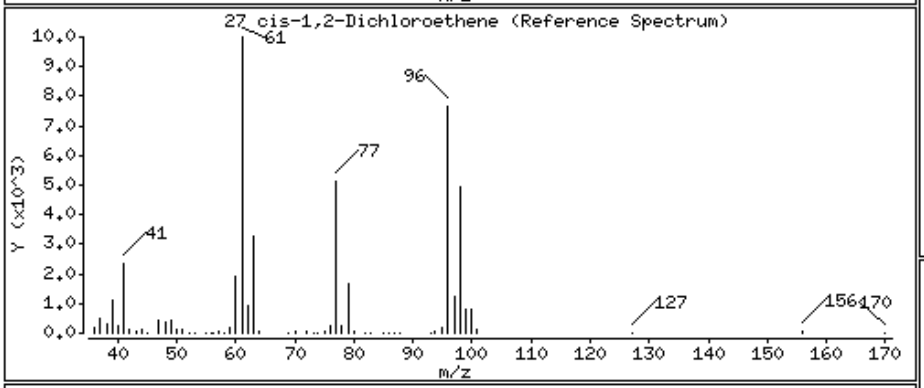
Purge Volume: 5.0 Operator: PC

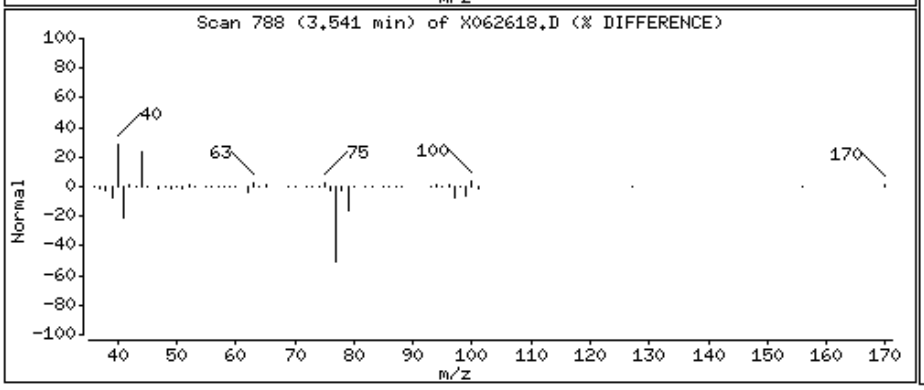
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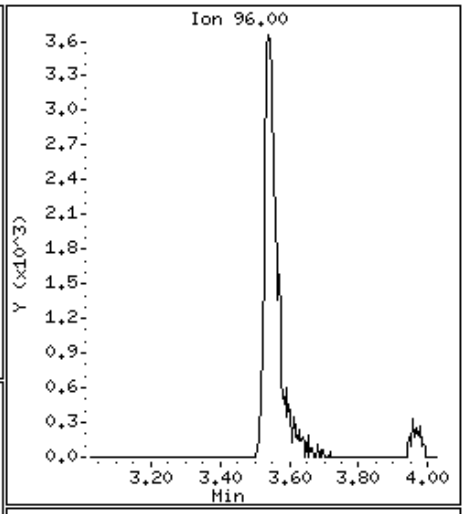
27 cis-1,2-Dichloroethene Concentration: 1.88 ug/l

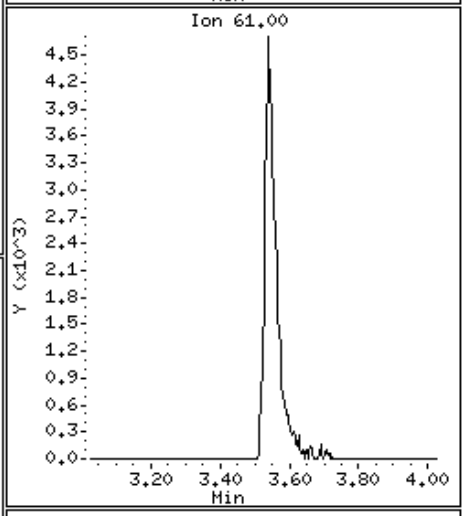


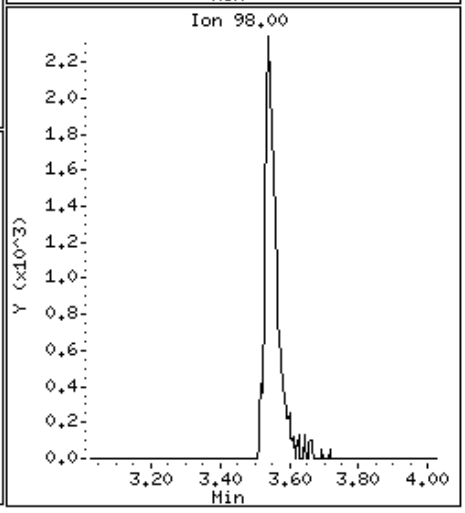












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062618.D

Date : 26-JUN-2023 18:31

Client ID: HS230611707-04

Instrument: voa6.i

Sample Info: HS23061707-04;HS230611707-04;;;

Purge Volume: 5.0

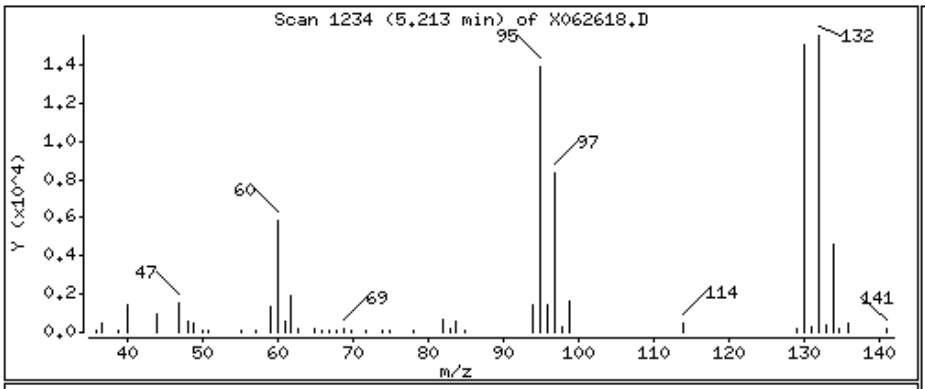
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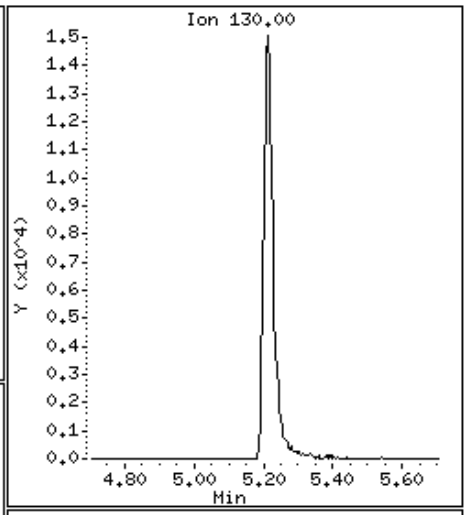
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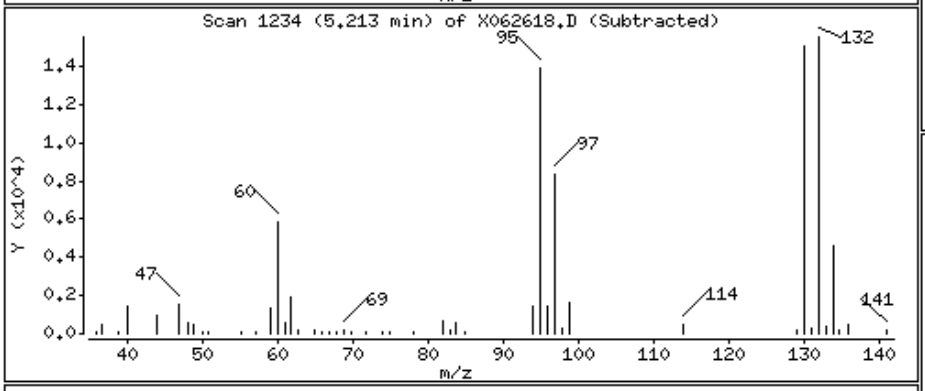
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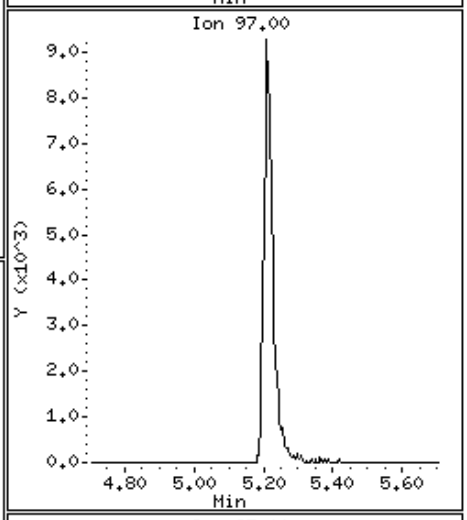
38 Trichloroethene

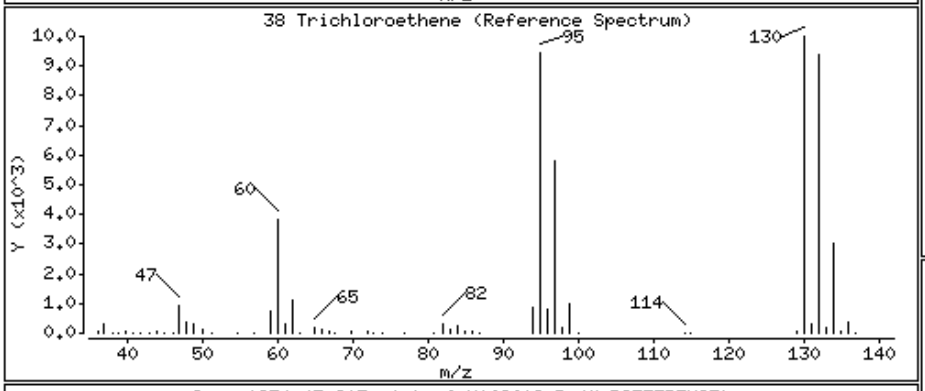
Concentration: 6.24 ug/l

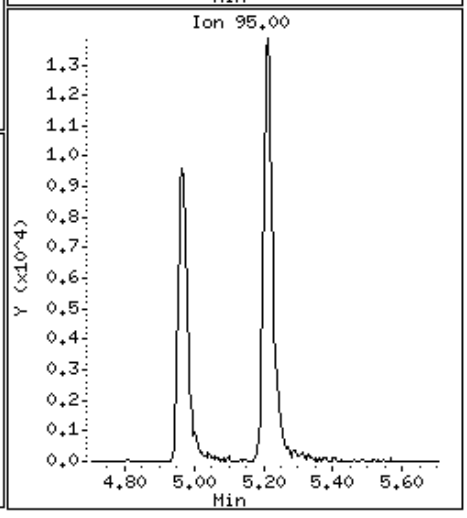


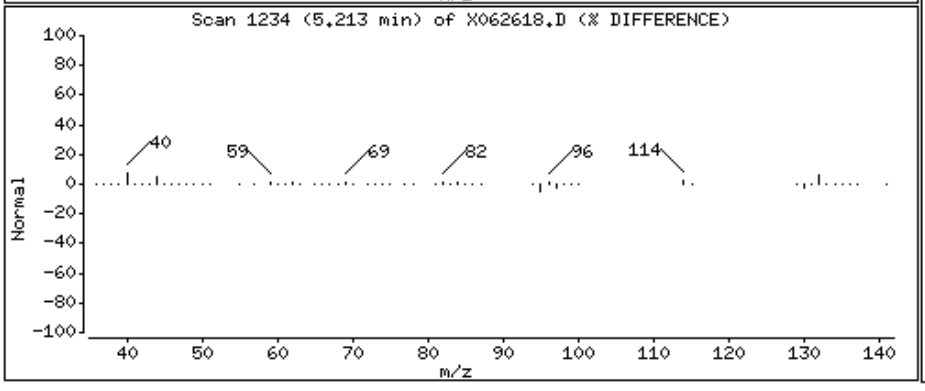












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062618.D
Inj Date : 26-JUN-2023 18:31
InstruID : voa6.i
LabSampID : HS23061707-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062619.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062619.D
Lab Smp Id: HS23061707-06 Client Smp ID: HS230611707-06
Inj Date : 26-JUN-2023 18:52
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-06;HS230611707-06;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	473620	50.0000	
	27 cis-1,2-Dichloroethene	96	3.540	3.525	(0.847)	4272	0.83493	0.83(a)
$	30 Dibromofluoromethane	113	4.103	4.095	(0.981)	200324	47.3419	47.34
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	210303	45.9933	45.99
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	671591	50.0000	
	38 Trichloroethene	130	5.212	5.205	(1.050)	34914	7.33013	7.33
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	582842	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	782405	53.0965	53.09
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	276315	48.5427	48.54
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	309081	50.0000	
M	94 1,2-Dichloroethylene (total)	96				4272	0.83493	0.83(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01200648

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062619.D

Date : 26-JUN-2023 18:52

Client ID: HS230611707-06

Instrument: voa6.i

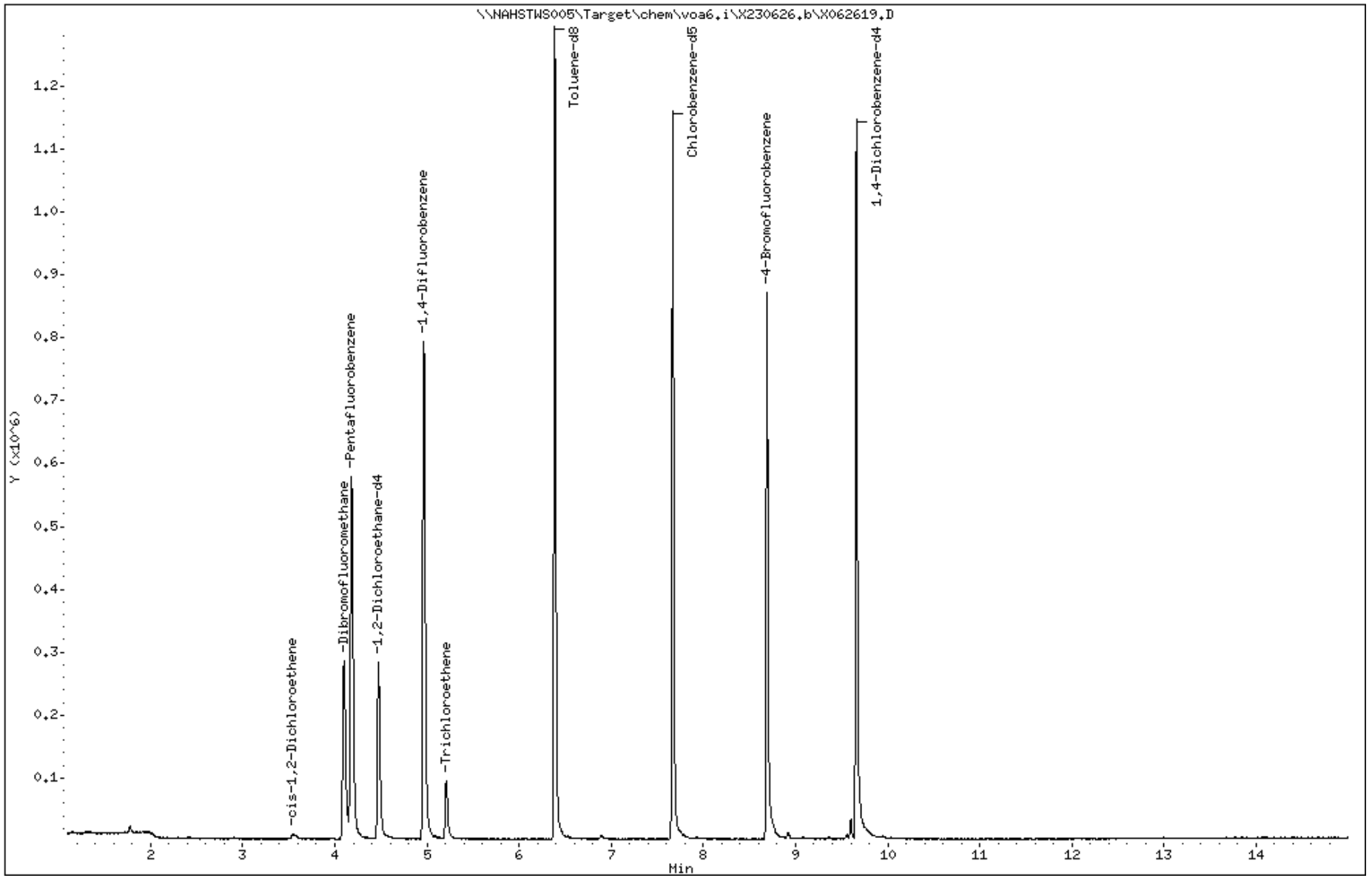
Sample Info: HS23061707-06;HS230611707-06;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062619.D

Date : 26-JUN-2023 18:52

Client ID: HS230611707-06

Instrument: voa6.i

Sample Info: HS23061707-06;HS230611707-06;;;

Purge Volume: 5.0

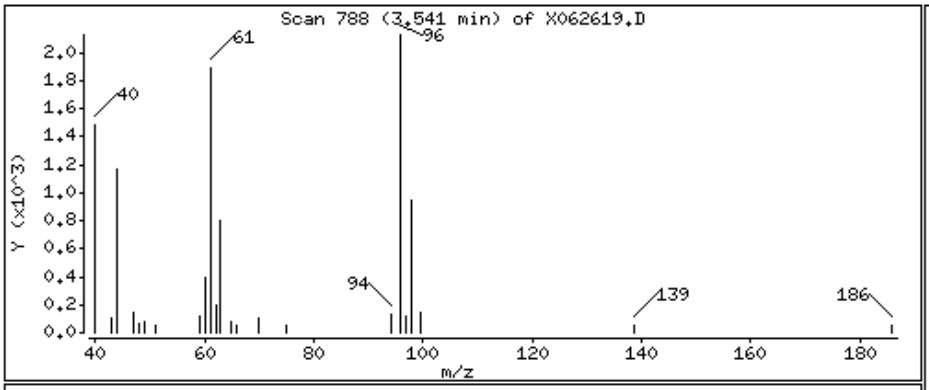
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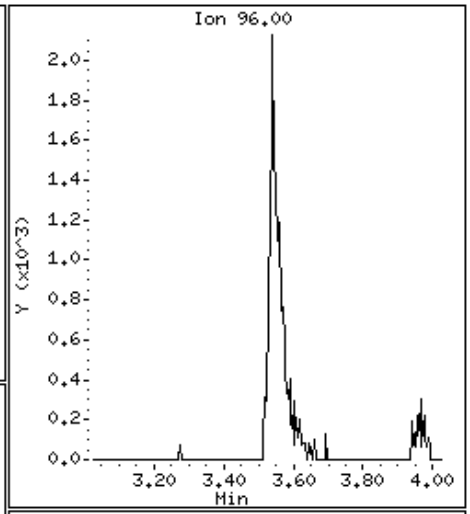
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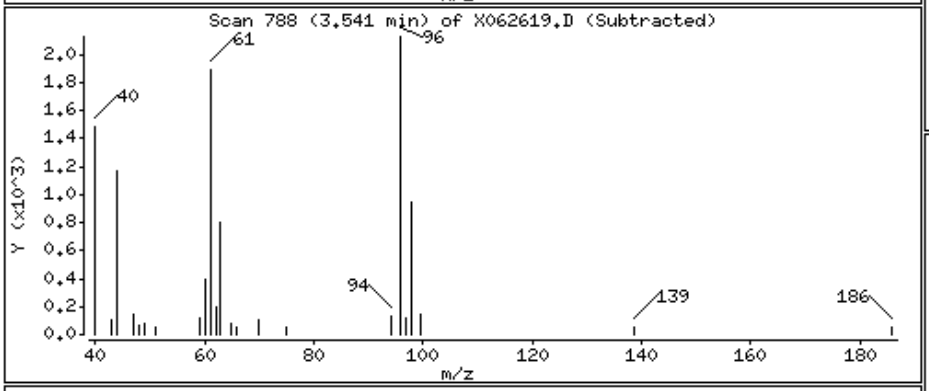
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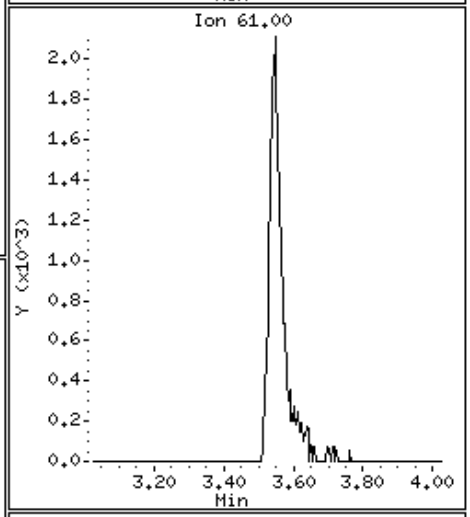
27 cis-1,2-Dichloroethene

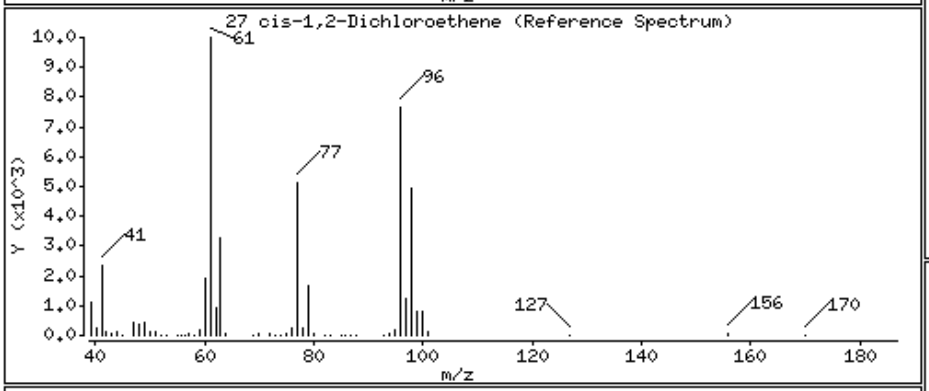
Concentration: 0.83 ug/l

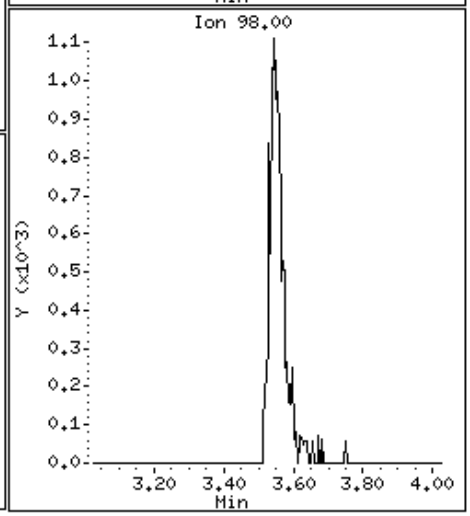


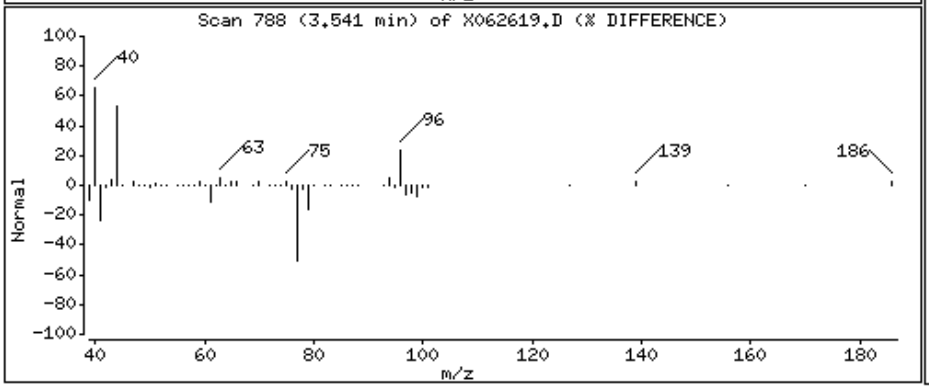












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062619.D

Date : 26-JUN-2023 18:52

Client ID: HS230611707-06

Instrument: voa6.i

Sample Info: HS23061707-06;HS230611707-06;;;

Purge Volume: 5.0

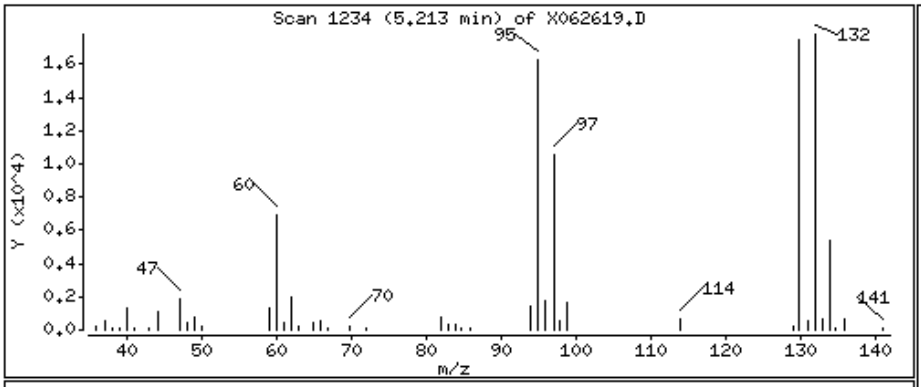
Operator: PC

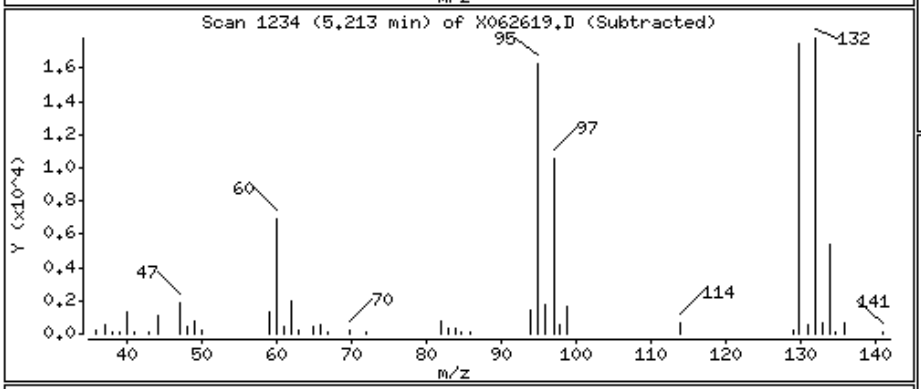
Column phase: DB624

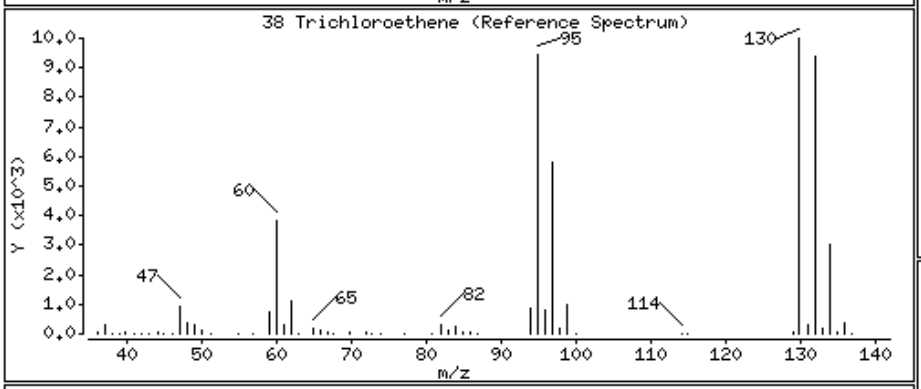
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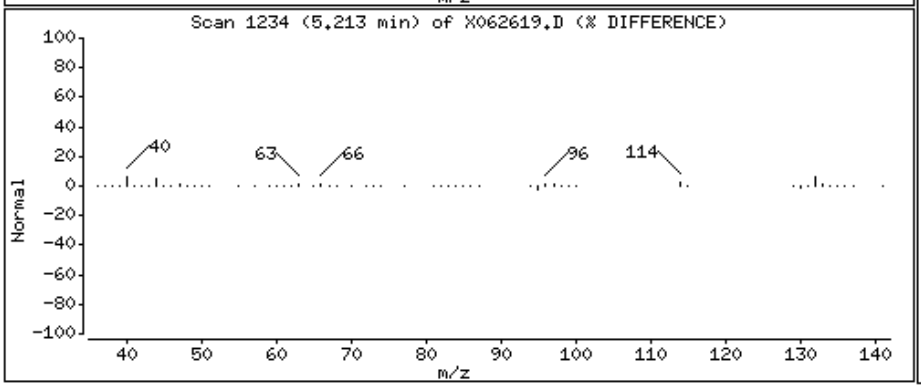
38 Trichloroethene

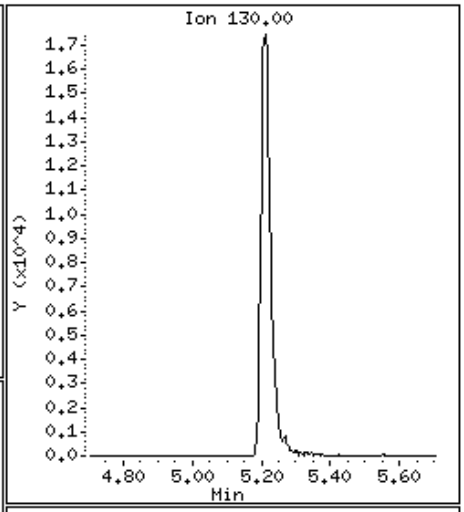
Concentration: 7.33 ug/l

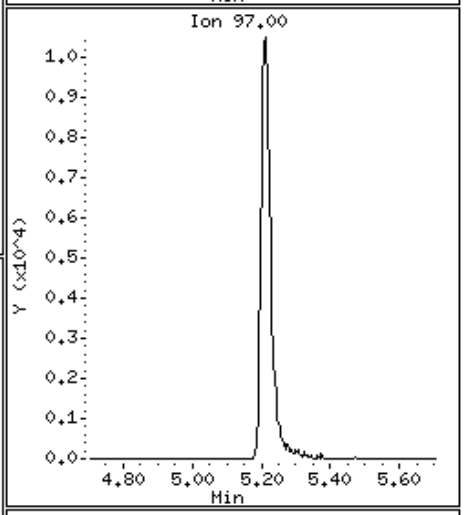


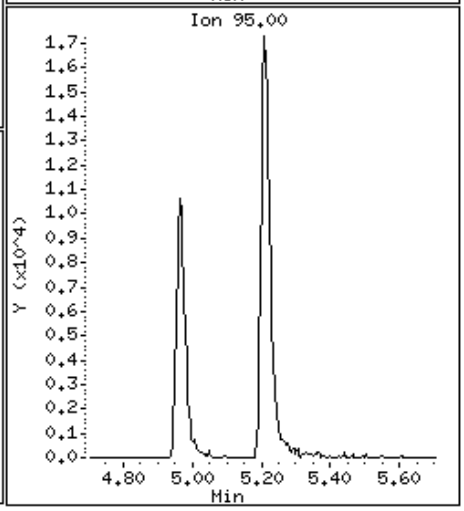












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062619.D
Inj Date : 26-JUN-2023 18:52
InstruID : voa6.i
LabSampID : HS23061707-06

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062620.D
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Inj Date : 26-JUN-2023 19:13
Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	471590	50.0000	
	27 cis-1,2-Dichloroethene	96	3.536	3.525	(0.846)	4520	0.88720	0.88(a)
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	200090	47.4912	47.49
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	208071	45.6956	45.69
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	668216	50.0000	
	38 Trichloroethene	130	5.212	5.205	(1.050)	34815	7.34627	7.34
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	606179	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	785211	51.2355	51.23
$	69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	283504	47.8809	47.88
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	328506	50.0000	
M	94 1,2-Dichloroethylene (total)	96				4520	0.88720	0.88(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01200653

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062620.D

Date : 26-JUN-2023 19:13

Client ID: HS230611707-07

Instrument: voa6.i

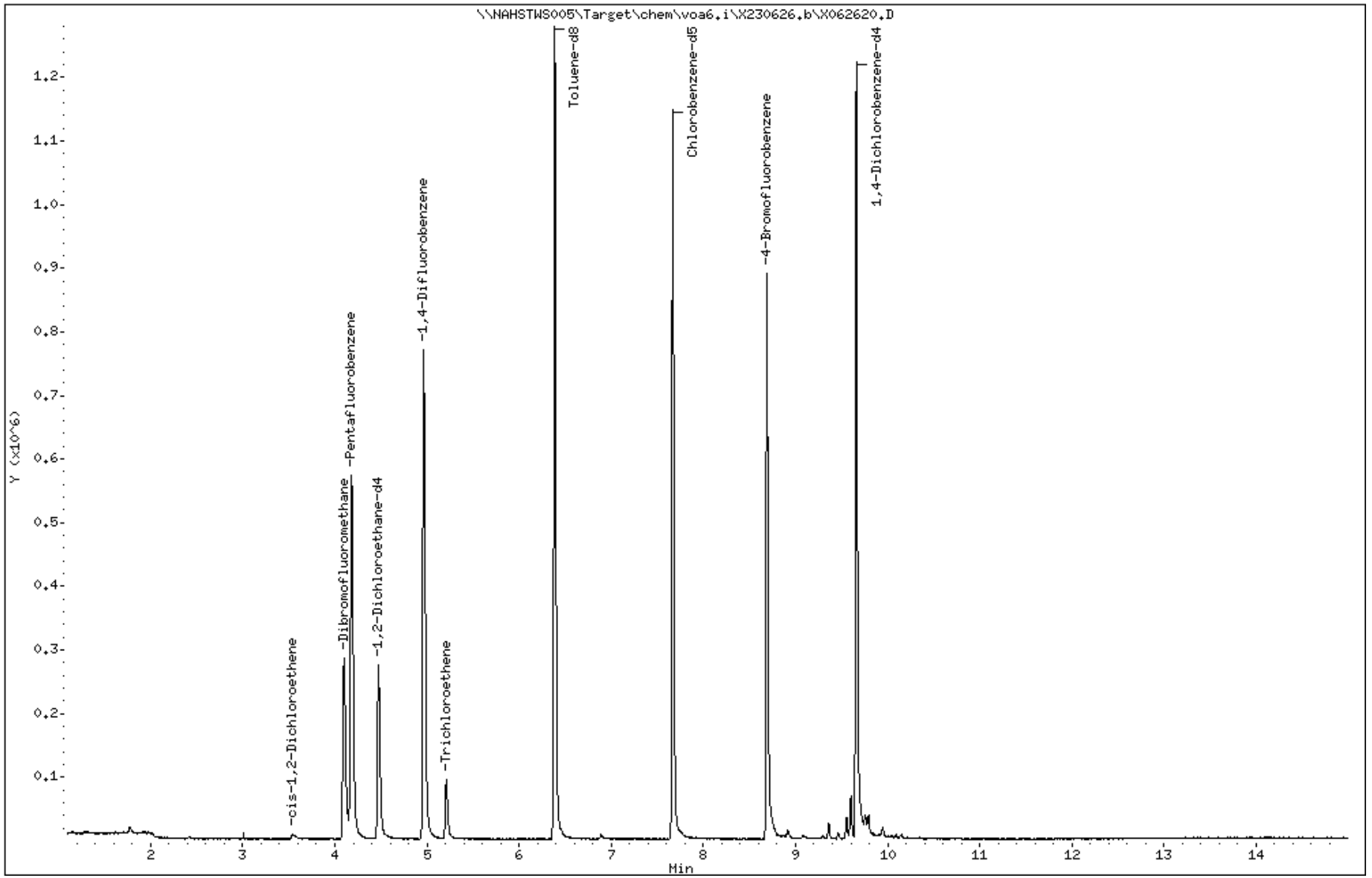
Sample Info: HS23061707-07;HS230611707-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062620.D

Date : 26-JUN-2023 19:13

Client ID: HS230611707-07

Instrument: voa6.i

Sample Info: HS23061707-07;HS230611707-07;;;

Purge Volume: 5.0

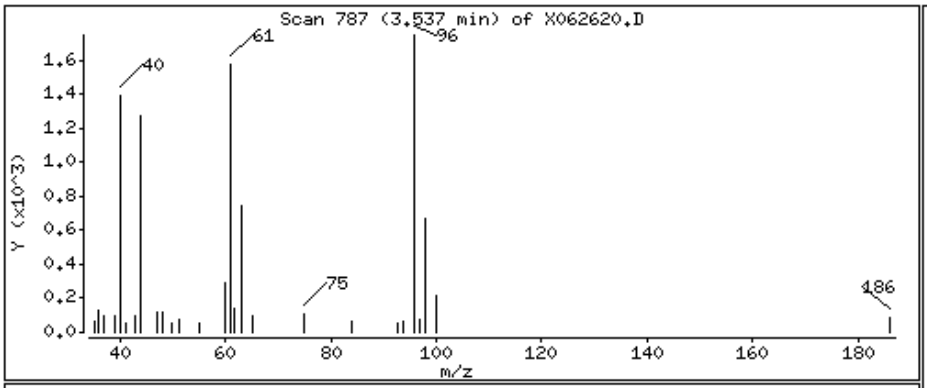
Operator: PC

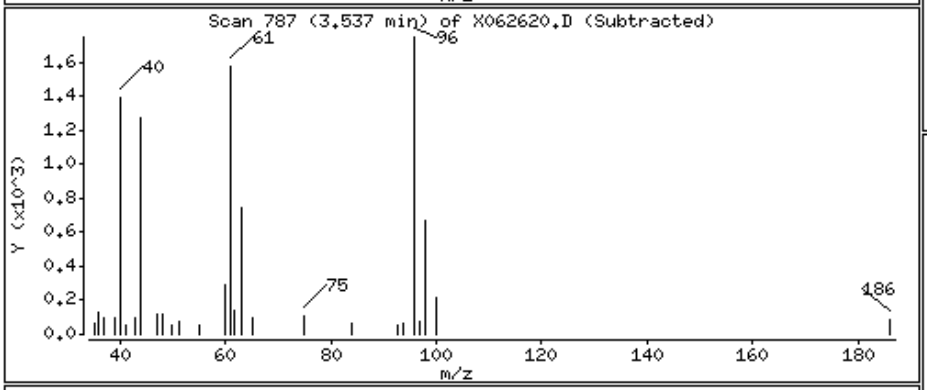
Column phase: DB624

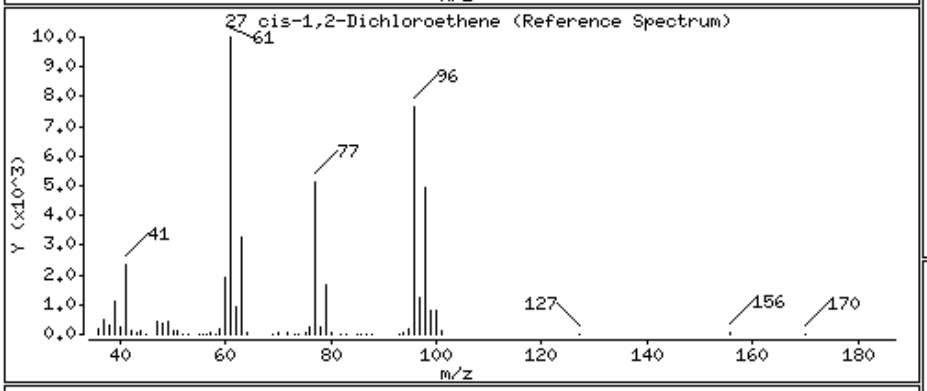
Column diameter: 0.18

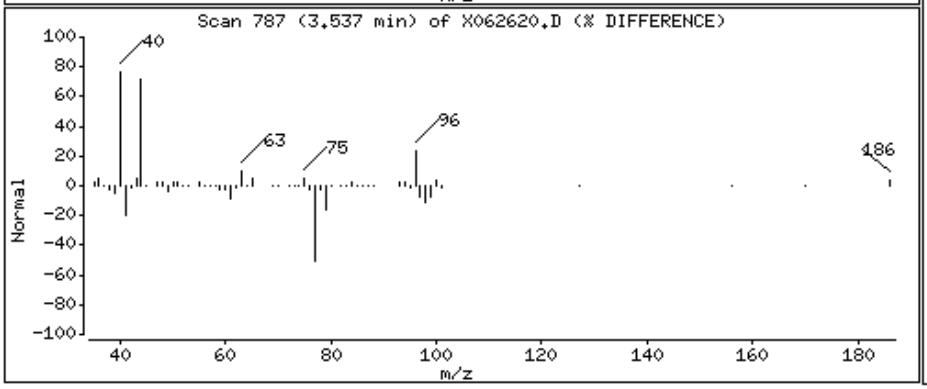
27 cis-1,2-Dichloroethene

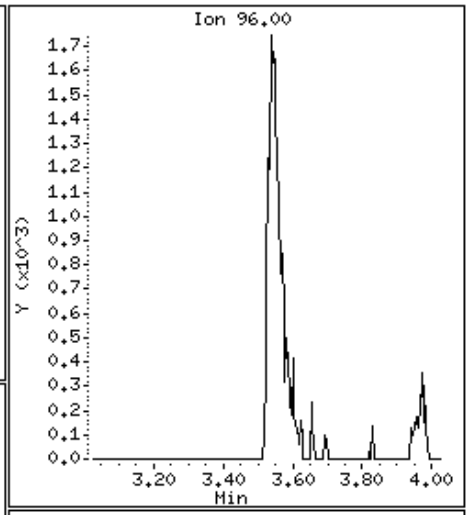
Concentration: 0.88 ug/l

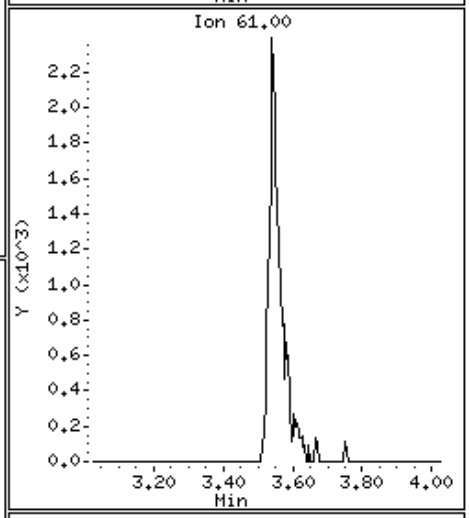


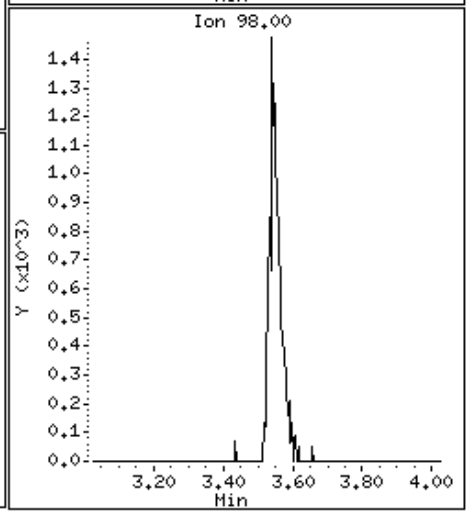












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062620.D

Date : 26-JUN-2023 19:13

Client ID: HS230611707-07

Instrument: voa6.i

Sample Info: HS23061707-07;HS230611707-07;;;

Purge Volume: 5.0

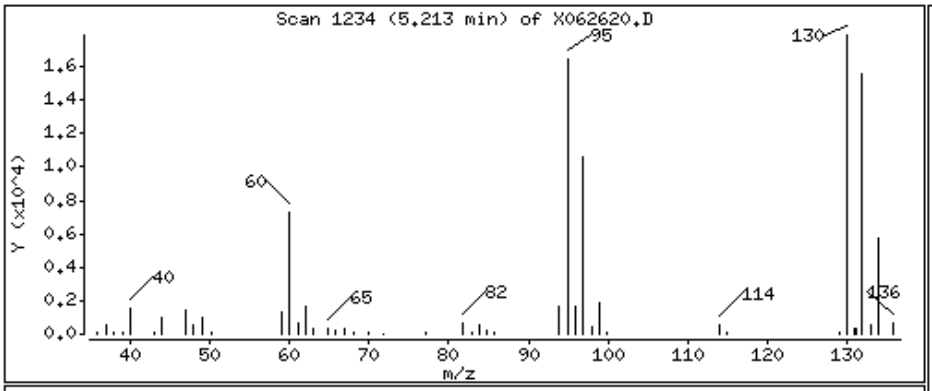
Operator: PC

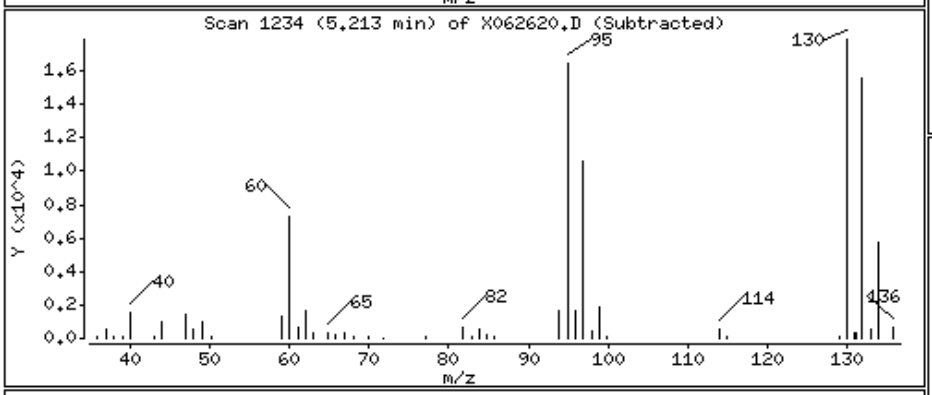
Column phase: DB624

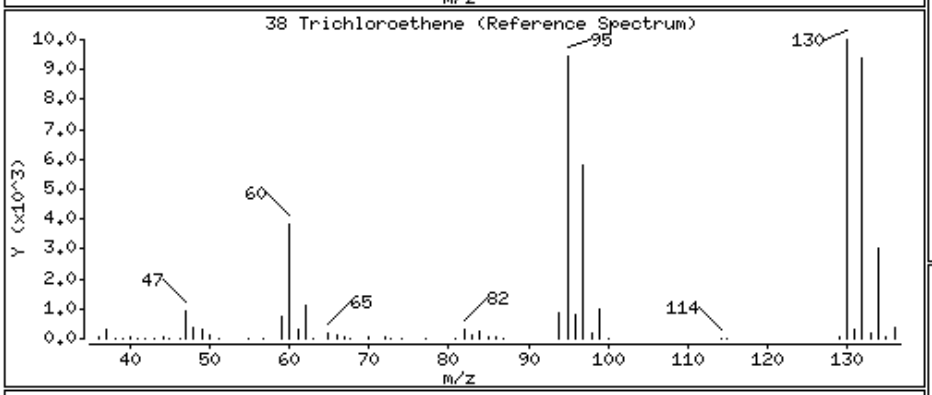
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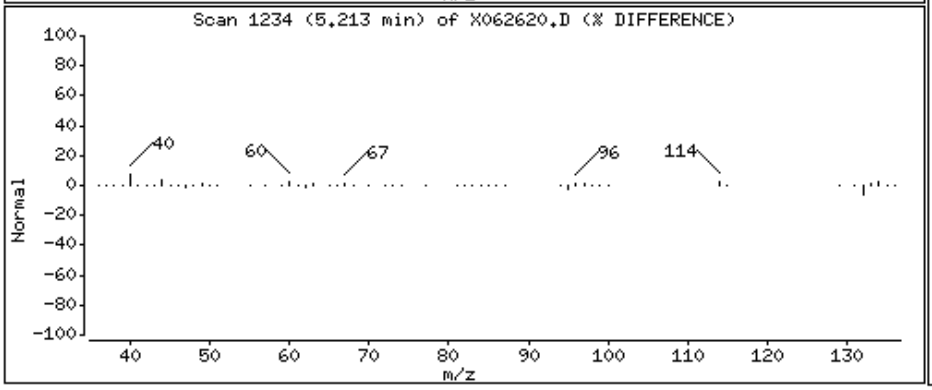
38 Trichloroethene

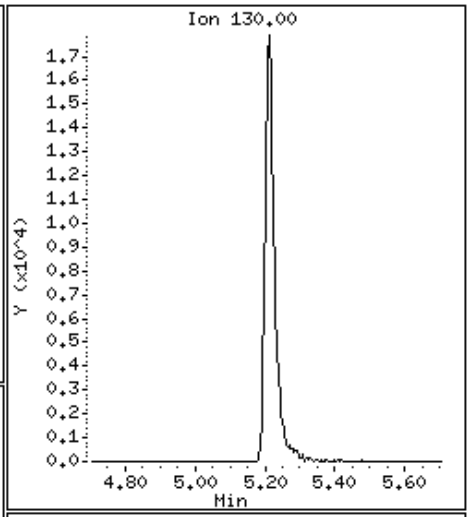
Concentration: 7.34 ug/l

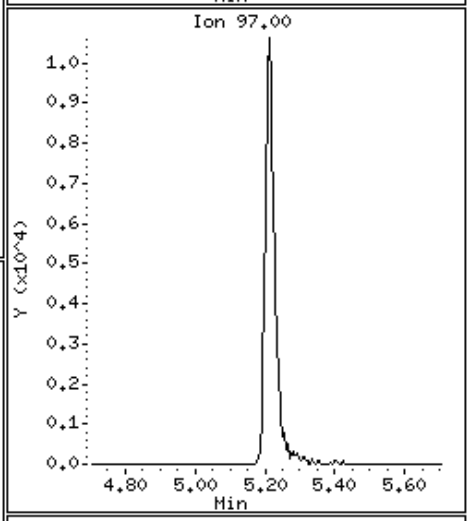


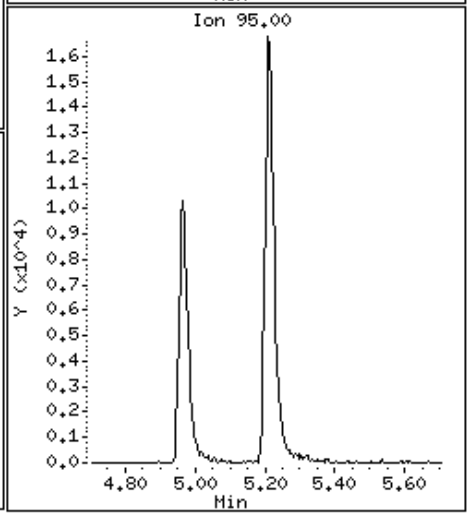












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062620.D
Inj Date : 26-JUN-2023 19:13
InstruID : voa6.i
LabSampID : HS23061707-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062621.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062621.D
Lab Smp Id: HS23061707-08 Client Smp ID: HS230611707-08
Inj Date : 26-JUN-2023 19:34
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-08;HS230611707-08;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	494252	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.980)	211674	47.9404	47.94
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	220371	46.1869	46.18
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	706333	50.0000	
38 Trichloroethene	130	5.212	5.205	(1.050)	23002	4.59170	4.59(a)
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	617818	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	824170	52.7644	52.76
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	283824	47.0224	47.02
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	307641	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01200658

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062621.D

Page 1

Date : 26-JUN-2023 19:34

Client ID: HS230611707-08

Instrument: voa6.i

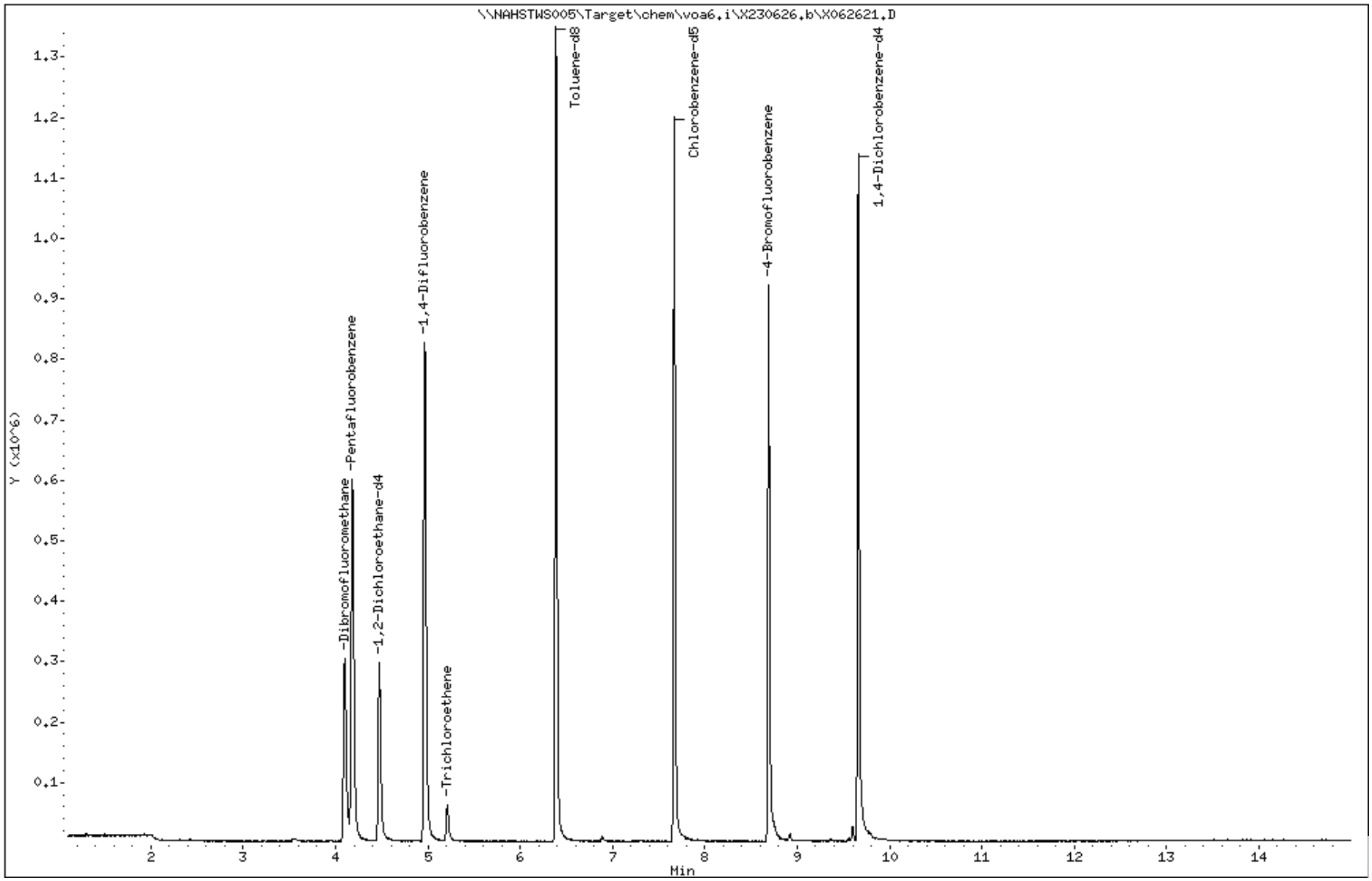
Sample Info: HS23061707-08;HS230611707-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062621.D

Date : 26-JUN-2023 19:34

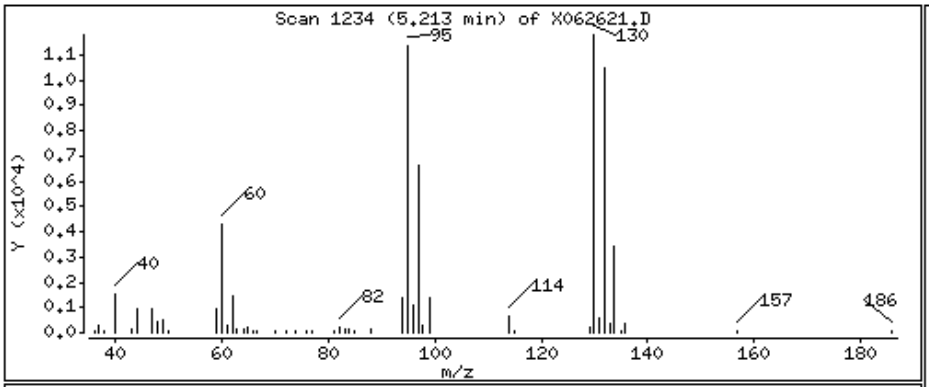
Client ID: HS230611707-08 Instrument: voa6.i

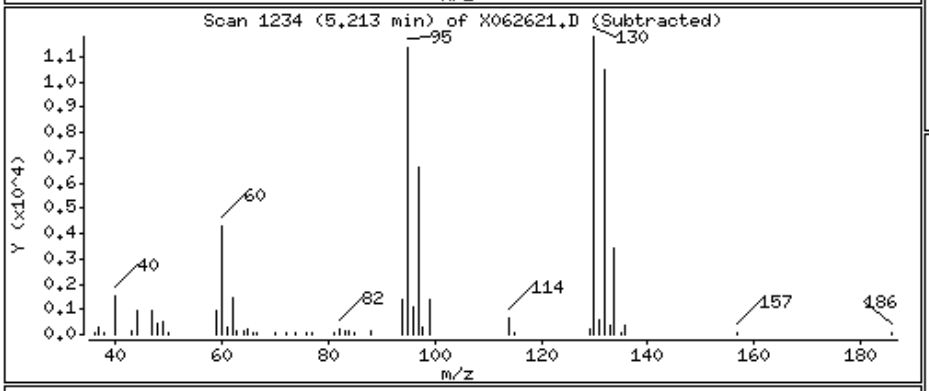
Sample Info: HS23061707-08;HS230611707-08;;;

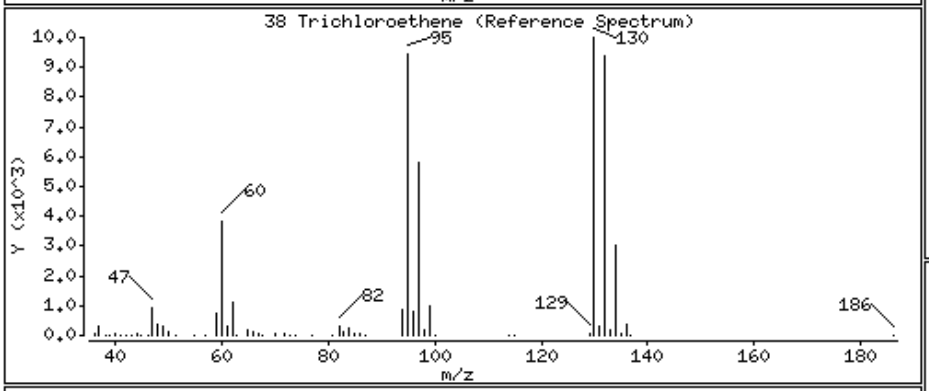
Purge Volume: 5.0 Operator: PC

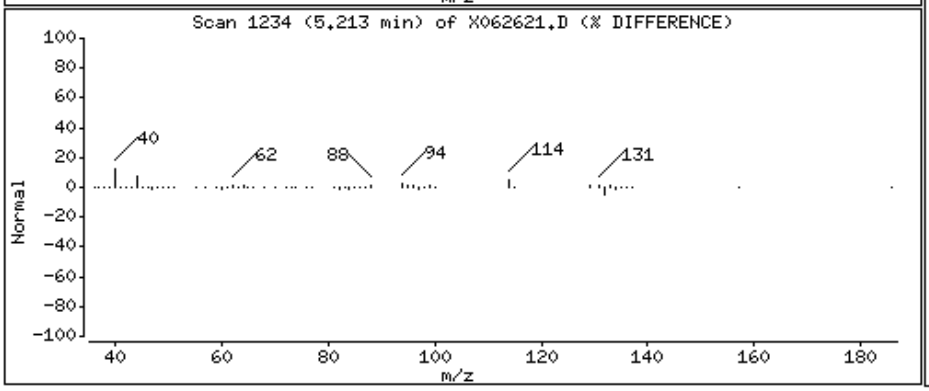
Column phase: DB624 Column diameter: 0.18

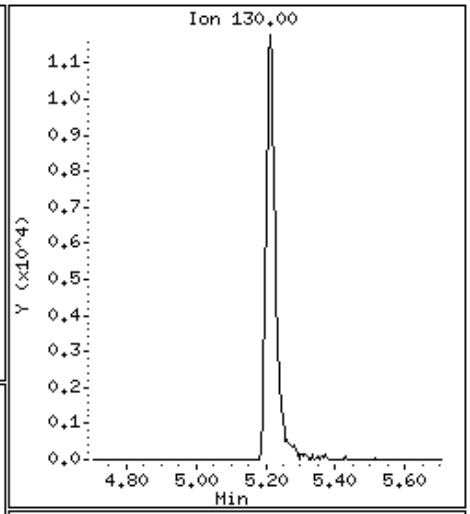
38 Trichloroethene Concentration: 4.59 ug/l

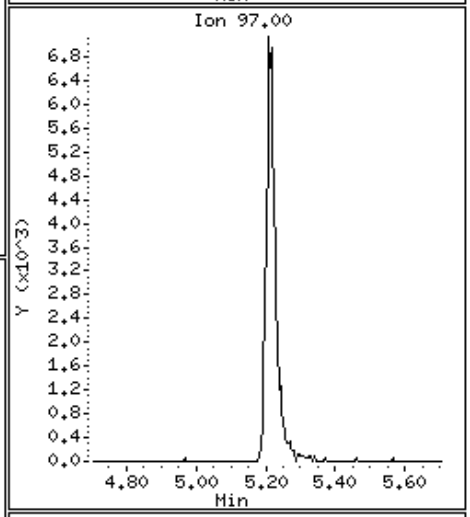


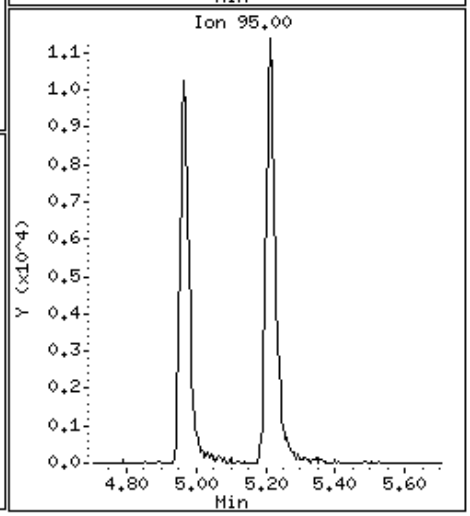












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062621.D
Inj Date : 26-JUN-2023 19:34
InstruID : voa6.i
LabSampID : HS23061707-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062622.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062622.D
Lab Smp Id: HS23061707-09 Client Smp ID: HS230611707-09
Inj Date : 26-JUN-2023 19:55
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-09;HS230611707-09;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.181	4.177	(1.000)	454874	50.0000	
	27 cis-1,2-Dichloroethene	96	3.537	3.525	(0.846)	21815	4.43930	4.43(a)
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	194378	47.8334	47.83
	33 1,2-Dichloroethane	62	4.579	4.552	(0.922)	3094	0.57084	0.57(a)
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	204488	46.5753	46.57
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	645524	50.0000	
	38 Trichloroethene	130	5.209	5.205	(1.049)	11513	2.51474	2.51(a)
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	579051	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	761585	52.0220	52.02
$	69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	269644	47.6713	47.67
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	298549	50.0000	
M	94 1,2-Dichloroethylene (total)	96				21815	4.43930	4.43(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01200662

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062622.D

Date : 26-JUN-2023 19:55

Client ID: HS230611707-09

Instrument: voa6.i

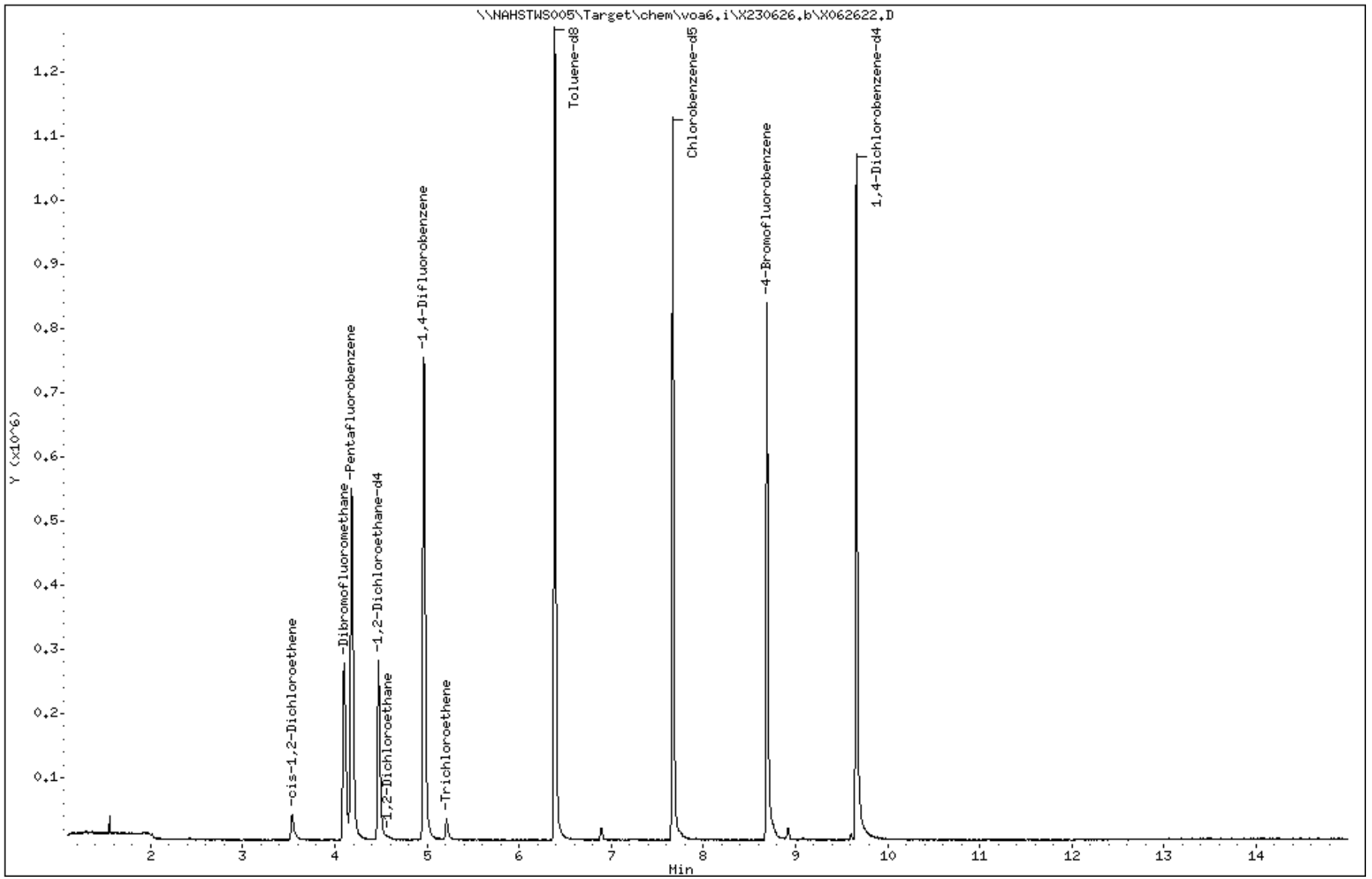
Sample Info: HS23061707-09;HS230611707-09;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062622.D

Date : 26-JUN-2023 19:55

Client ID: HS230611707-09

Instrument: voa6.i

Sample Info: HS23061707-09;HS230611707-09;;;

Purge Volume: 5.0

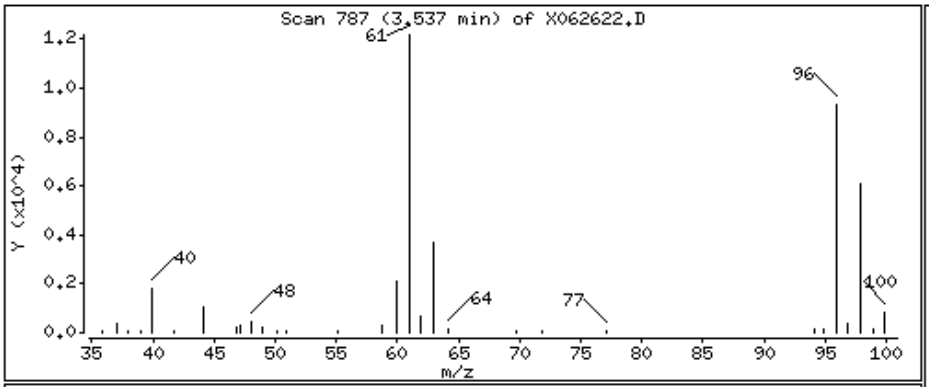
Operator: PC

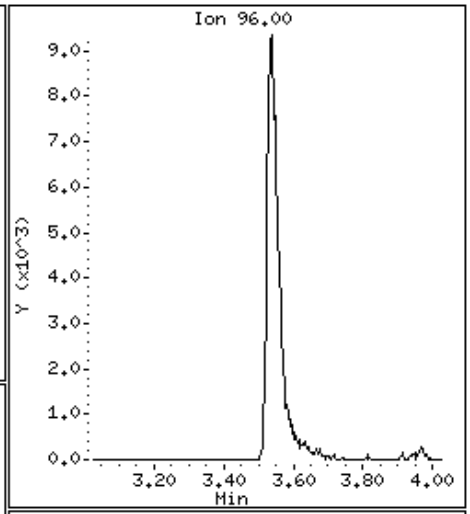
Column phase: DB624

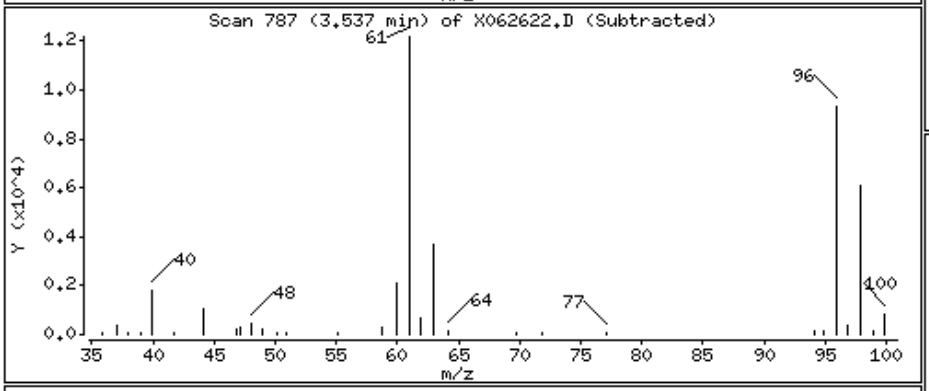
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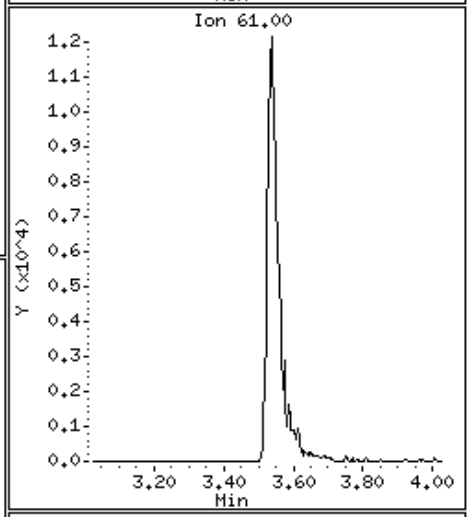
27 cis-1,2-Dichloroethene

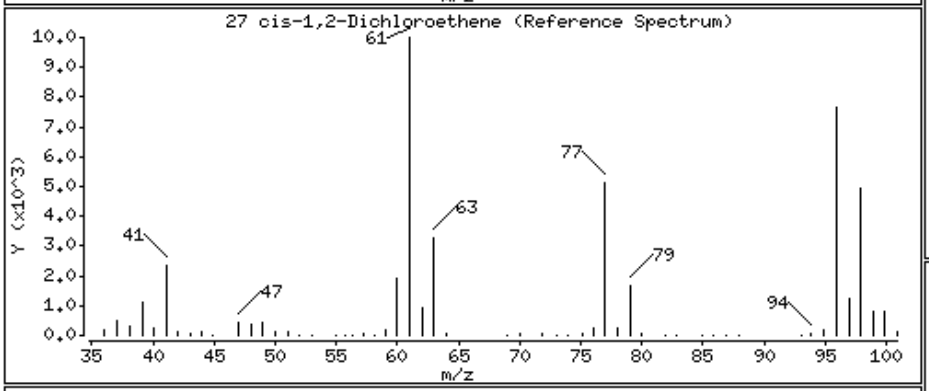
Concentration: 4.43 ug/l

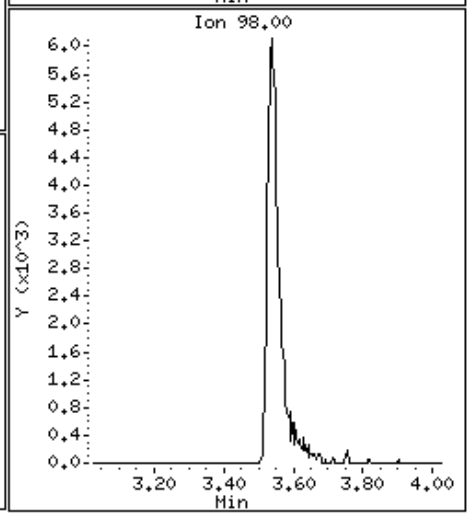


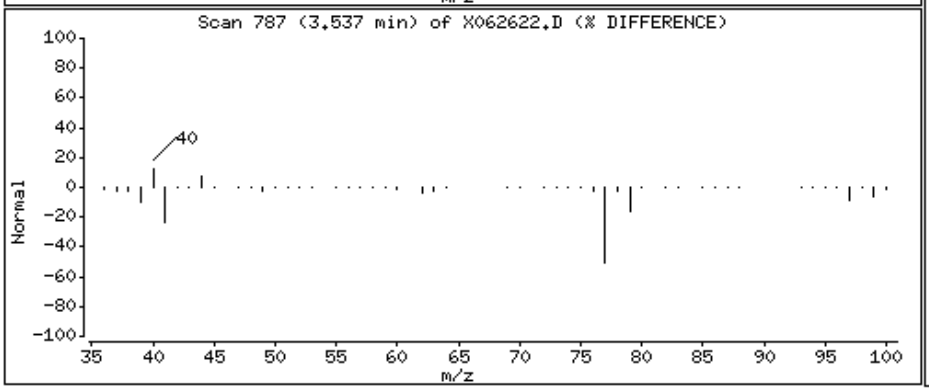












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062622.D

Date : 26-JUN-2023 19:55

Client ID: HS230611707-09

Instrument: voa6.i

Sample Info: HS23061707-09;HS230611707-09;;;

Purge Volume: 5.0

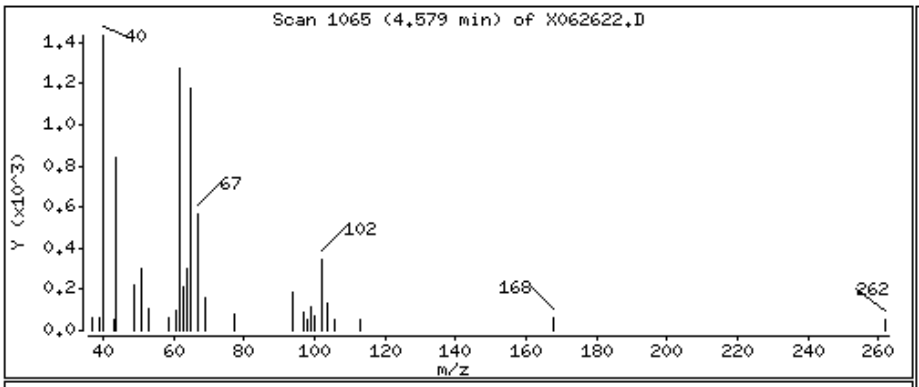
Operator: PC

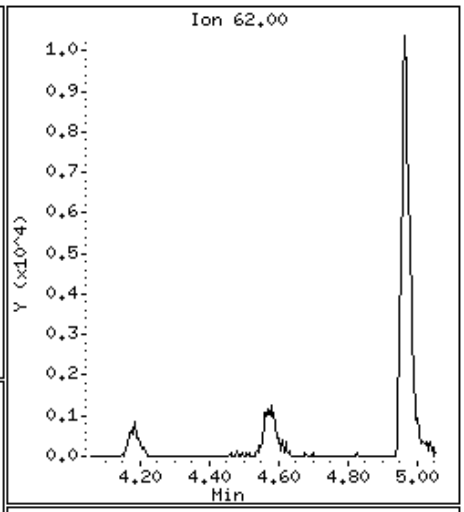
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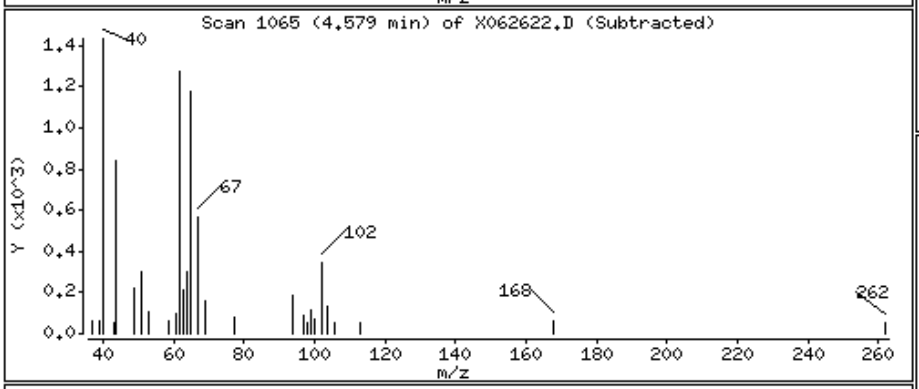
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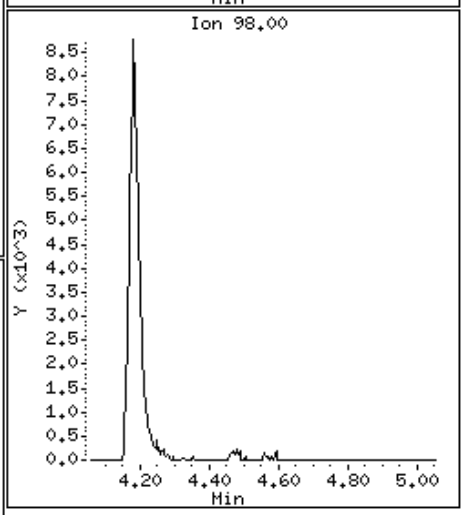
33 1,2-Dichloroethane

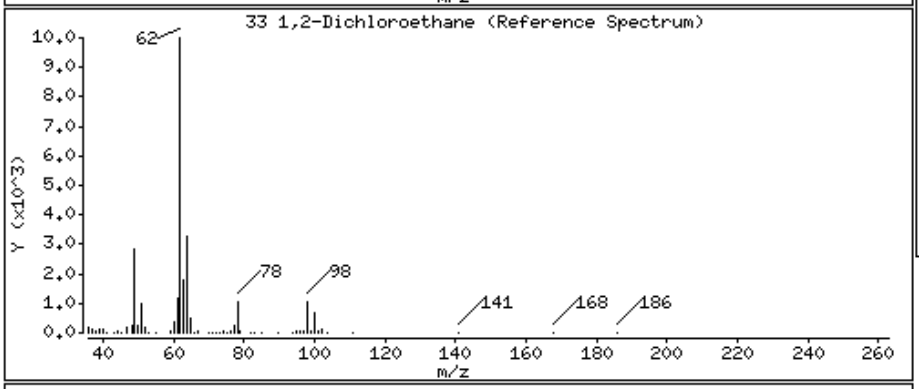
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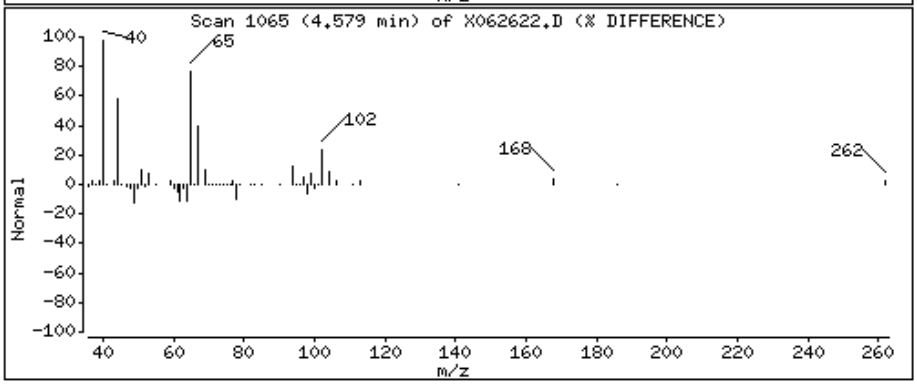












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Date : 26-JUN-2023 19:55

Client ID: HS230611707-09

Instrument: voa6.i

Sample Info: HS23061707-09;HS230611707-09;;;

Purge Volume: 5.0

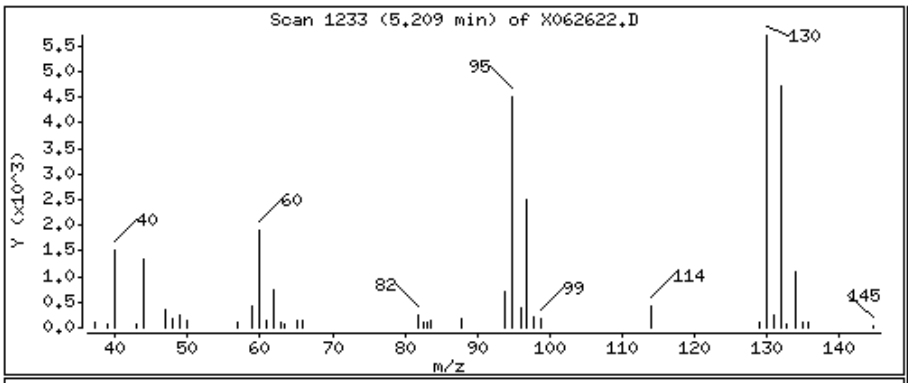
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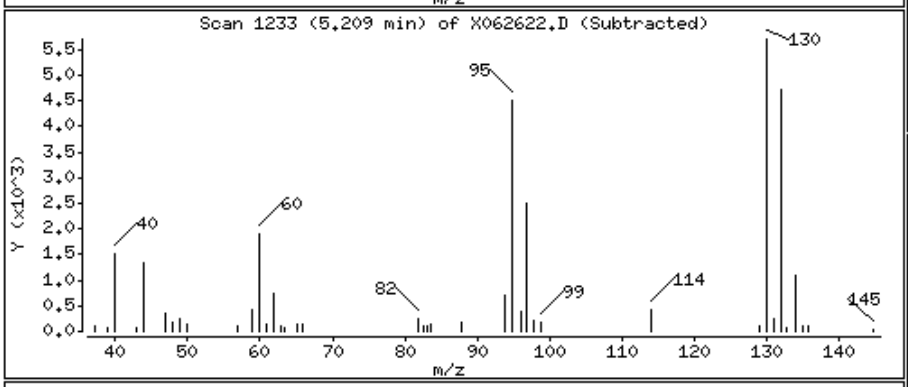
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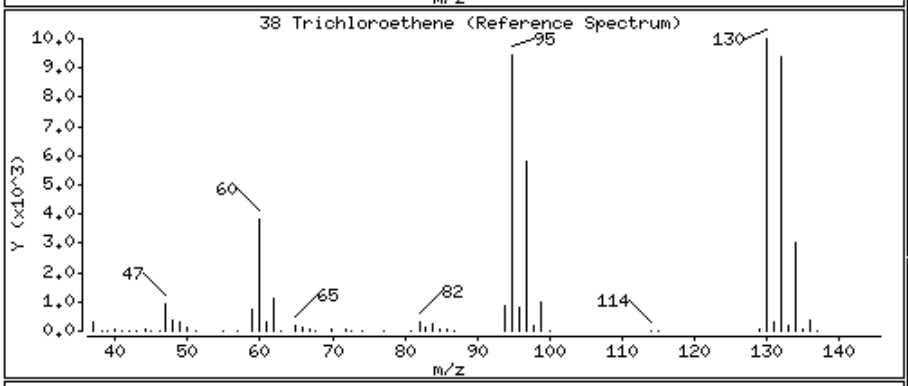
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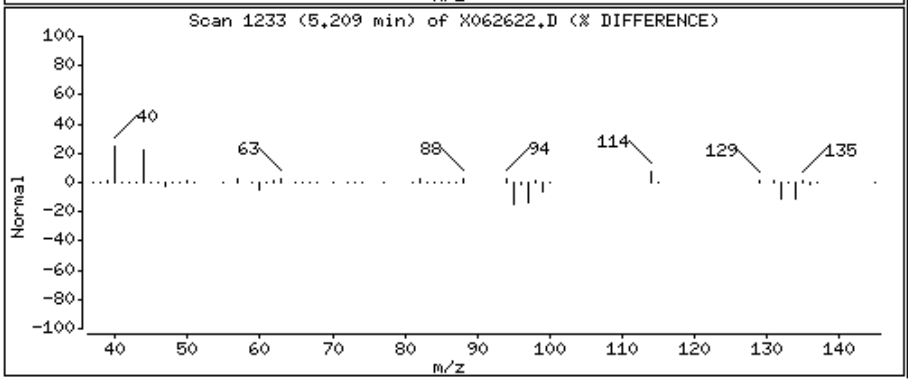
38 Trichloroethene

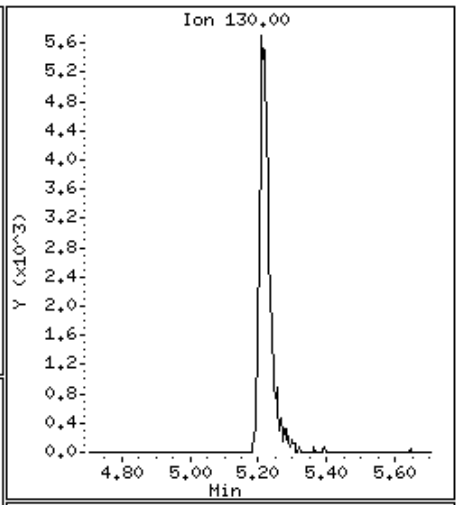
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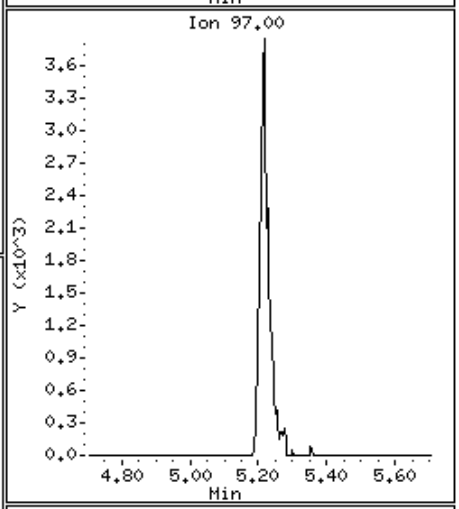


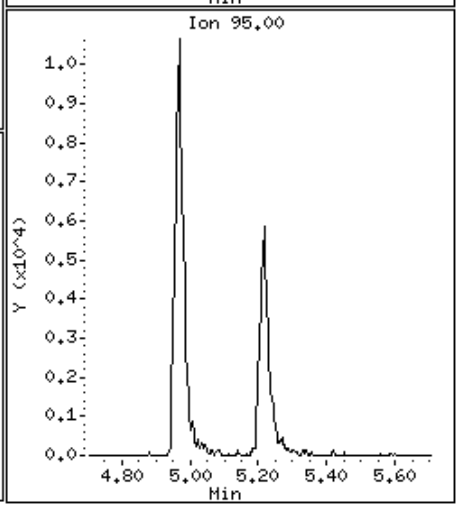












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Inj Date : 26-JUN-2023 19:55
InstruID : voa6.i
LabSampID : HS23061707-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062623.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062623.D
Lab Smp Id: HS23061707-10 Client Smp ID: HS230611707-10
Inj Date : 26-JUN-2023 20:16
Operator : PC Inst ID: voa6.i
Smp Info : HS23061707-10;HS230611707-10;;;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.185	4.177	(1.000)	457552	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.979)	196346	48.0364	48.03
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.069)	204948	46.4038	46.40
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	654684	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	581468	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	772041	52.5170	52.51
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	270882	47.6913	47.69
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	300579	50.0000	

01200668

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062623.D

Date : 26-JUN-2023 20:16

Client ID: HS230611707-10

Instrument: voa6.i

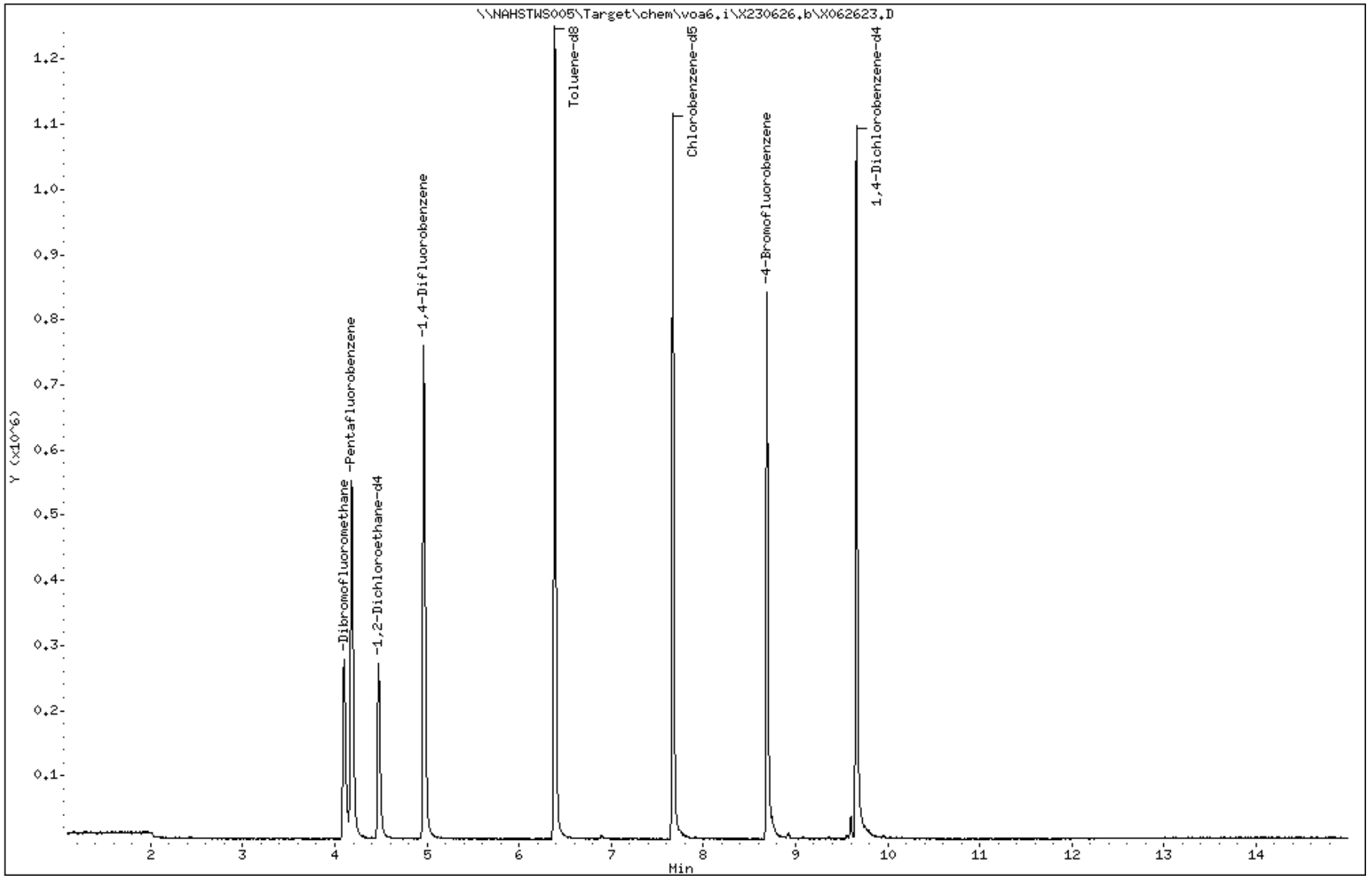
Sample Info: HS23061707-10;HS230611707-10;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062623.D
Inj Date : 26-JUN-2023 20:16
InstruID : voa6.i
LabSampID : HS23061707-10

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062630.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062630.D
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Inj Date : 26-JUN-2023 22:44
Operator : PC Inst ID: voa6.i
Smp Info : HS23061712-08MS;HS230611712-08MS;3;;MS
Misc Info : V6;WATER;0;200;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 28 QC Sample: MS
Dil Factor: 200.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	200.000	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	4.181	4.177	(1.000)	477071	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.339)	21175	366.252	73250.43(a)
140 1,3-Butadiene	54	1.171	1.167	(0.280)	74348	18.8057	3761.13
25 Methacrylonitrile	41	3.833	3.818	(0.917)	69535	17.6647	3532.94
12 Isobutyl Alcohol	43	4.676	4.672	(1.118)	217975	350.413	70082.64
13 Acetonitrile	39	2.202	2.202	(0.527)	86911	187.823	37564.62
14 Allyl Chloride	41	2.202	2.202	(0.527)	189663	18.1284	3625.67
4 Propionitrile	54	3.656	3.653	(0.874)	104354	180.868	36173.56(a)
72 trans-1,4-Dichloro-2-butene	53	8.889	8.886	(1.159)	27776	18.6958	3739.15
130 Ethyl Acetate	43	3.660	3.656	(0.875)	82884	17.0438	3408.76
40 Methyl Methacrylate	41	5.606	5.602	(1.341)	67531	18.2853	3657.05
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	80570	16.6392	3327.83
131 Methyl Acrylate	55	3.698	3.690	(0.884)	70853	18.3374	3667.47
139 Diethyl ether	59	1.763	1.760	(0.422)	52283	17.4929	3498.57
156 Diisopropyl ether	45	3.004	3.000	(0.719)	252004	17.9106	3582.11
2 Dichlorodifluoromethane	85	0.980	0.976	(0.234)	67095	16.5550	3311.00
3 Chloromethane	50	1.085	1.085	(0.260)	91315	18.7623	3752.45
5 Vinyl Chloride	62	1.149	1.149	(0.275)	95108	18.9826	3796.52
6 Bromomethane	94	1.347	1.343	(0.322)	58958	20.5003	4100.05
7 Chloroethane	64	1.411	1.407	(0.338)	60566	19.7760	3955.20

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	128391	21.5642	4312.83
9	Acrolein	56	1.452	1.448 (0.347)	11534	38.9623	7792.46

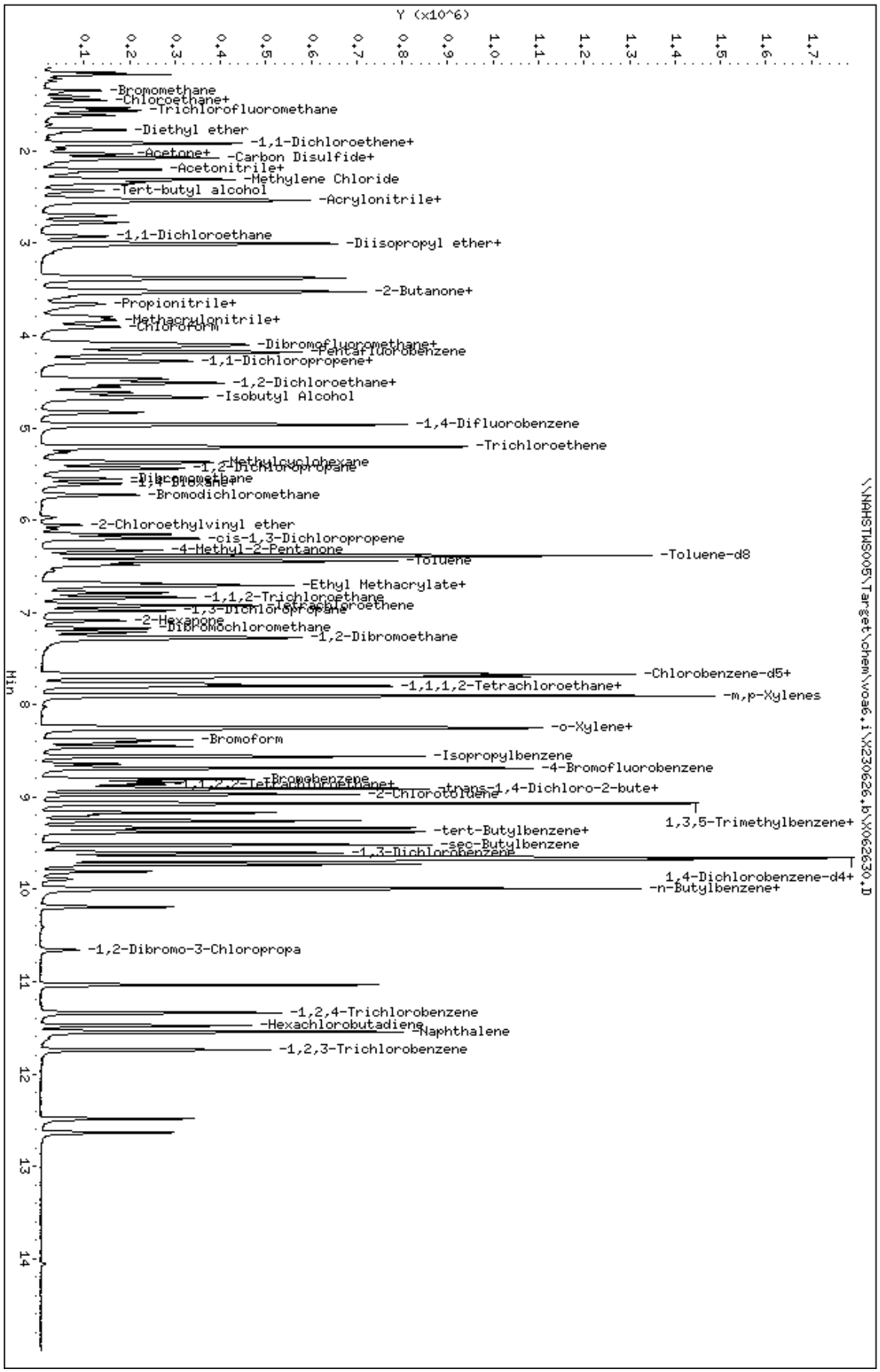
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	36974	29.5312	5906.24
	11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	76604	20.5098	4101.95
	15 Iodomethane	142	2.033	2.029	(0.486)	198210	33.8278	6765.56
	16 Acrylonitrile	53	2.543	2.536	(0.608)	51871	34.2537	6850.74
	17 Methylene Chloride	84	2.307	2.307	(0.552)	96499	18.2910	3658.19
	18 Methyl tert-butyl ether	73	2.539	2.536	(0.607)	233611	17.9204	3584.08
	19 Carbon Disulfide	76	2.074	2.071	(0.496)	463173	34.8270	6965.40
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	87645	19.6106	3922.12
	21 Vinyl Acetate	43	3.004	2.997	(0.719)	436691	36.6086	7321.72
	22 1,1-Dichloroethane	63	2.925	2.922	(0.700)	150998	18.7547	3750.93
	24 2-Butanone	43	3.589	3.578	(0.858)	48438	30.8519	6170.37
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	123483	19.4326	3886.51
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	325938	63.2415	12648.29
	28 Chloroform	83	3.908	3.908	(0.935)	159165	18.3674	3673.47
	29 Bromochloromethane	128	3.799	3.791	(0.909)	52830	19.2363	3847.26
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	198228	46.5016	46.50
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	141709	20.2328	4046.55
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	125367	22.1466	4429.31
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	132191	23.3047	4660.94
	34 Carbon Tetrachloride	117	4.267	4.264	(0.860)	124168	22.8076	4561.51
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	203304	44.1064	44.10
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	675566	50.0000	
	37 Benzene	78	4.515	4.511	(0.909)	363467	20.9161	4183.22
	38 Trichloroethene	130	5.208	5.205	(1.049)	322614	67.3337	13466.74
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	123866	20.1507	4030.13
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	37739	22.6882	4537.64
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	92797	20.3447	4068.94
	44 Dibromomethane	93	5.553	5.553	(1.119)	58454	20.4148	4082.96
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	155814	39.5163	7903.25
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	151703	20.0158	4003.16
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	610400	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	800952	51.9012	51.90
	50 Toluene	91	6.445	6.445	(0.841)	413576	23.0794	4615.87
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	125501	19.7910	3958.20
	52 2-Hexanone	43	7.086	7.086	(0.924)	102316	38.8469	7769.37
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	73742	21.1229	4224.58
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	149422	21.1683	4233.66
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	106670	21.5595	4311.90
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	90847	24.6533	4930.65
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	94106	21.0893	4217.86
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	90552	22.0413	4408.26
	59 Chlorobenzene	112	7.694	7.690	(1.003)	280013	22.8368	4567.36
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	100505	21.9822	4396.44
	61 Ethylbenzene	106	7.795	7.799	(1.017)	147889	23.4101	4682.02
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	377723	48.4851	9697.02
	63 o-Xylene	106	8.241	8.237	(1.075)	179158	23.0467	4609.34
	64 Styrene	104	8.256	8.256	(1.077)	297718	23.2510	4650.19
	66 Bromoform	173	8.410	8.406	(1.097)	73631	21.3469	4269.38
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	464521	24.1755	4835.09
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	123543	20.6709	4134.18
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	289094	48.4942	48.49
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.662	(1.000)	339896	50.0000	

71 1,2,3-Trichloropropane	75	8.863	8.859 (0.918)	91512	21.3530	4270.59
73 n-Propylbenzene	91	8.908	8.908 (0.922)	556623	24.8860	4977.20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	74 Bromobenzene	156	8.803	8.803	(0.912)	129550	23.3851	4677.01
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	394726	24.0508	4810.16
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	331823	23.3618	4672.36
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	369634	23.3307	4666.13
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	345205	25.2468	5049.35
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	397006	23.9759	4795.18
	81 sec-Butylbenzene	105	9.519	9.519	(0.986)	487731	25.2918	5058.35
	82 p-Isopropyltoluene	119	9.647	9.647	(0.999)	423345	25.0745	5014.90
	83 1,3-Dichlorobenzene	146	9.605	9.602	(0.995)	231349	23.4537	4690.73
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	241431	22.8668	4573.36
	87 n-Butylbenzene	91	9.992	9.992	(1.035)	364912	25.3767	5075.34
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.035)	227885	23.2837	4656.73
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	21091	21.7719	4354.38
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	163577	24.0258	4805.15
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	80745	26.4209	5284.17
	92 Naphthalene	128	11.543	11.540	(1.195)	343418	22.4063	4481.26
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	147885	23.6055	4721.10
M	94 1,2-Dichloroethylene (total)	96				413583	82.8521	16570.41
M	95 Xylenes (total)	106				556881	71.5318	14306.36
	141 Cyclohexane	56	4.121	4.121	(0.986)	140069	23.0326	4606.51
	138 Freon TF	101	1.921	1.917	(0.459)	88412	26.8946	5378.92
	147 Methylcyclohexane	55	5.381	5.377	(1.084)	219935	23.2937	4658.74
	146 Methyl Acetate	43	2.236	2.232	(0.535)	51063	18.0835	3616.69
	148 Tert-Butyl alcohol	59	2.431	2.427	(0.581)	160328	327.267	65453.46
	149 Isopropyl Alcohol	45	2.101	2.093	(0.502)	88501	327.281	65456.16

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



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Sample Info: HS230611712-08MS;HS230611712-08MS;3;;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062630.D
Inj Date : 26-JUN-2023 22:44
InstruID : voa6.i
LabSampID : HS23061712-08MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062631.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062631.D
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Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;200;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:04 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 28 QC Sample: MSD
Dil Factor: 200.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	200.000	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	4.181	4.177	(1.000)	481991	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.339)	19714	337.501	67500.28(a)
140 1,3-Butadiene	54	1.171	1.167	(0.280)	70136	17.5592	3511.83
25 Methacrylonitrile	41	3.821	3.818	(0.914)	66901	16.8221	3364.42
12 Isobutyl Alcohol	43	4.676	4.672	(1.118)	214628	341.511	68302.12
13 Acetonitrile	39	2.202	2.202	(0.527)	83618	178.862	35772.40
14 Allyl Chloride	41	2.206	2.202	(0.528)	181432	17.1646	3432.92
4 Propionitrile	54	3.656	3.653	(0.874)	101042	173.340	34667.95(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	26345	17.1534	3430.68
130 Ethyl Acetate	43	3.660	3.656	(0.875)	80301	16.3441	3268.82
40 Methyl Methacrylate	41	5.609	5.602	(1.342)	63530	17.0263	3405.26
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	75926	15.5201	3104.01
131 Methyl Acrylate	55	3.698	3.690	(0.884)	70191	17.9806	3596.11
139 Diethyl ether	59	1.763	1.760	(0.422)	54329	17.9919	3598.37
156 Diisopropyl ether	45	3.000	3.000	(0.718)	246917	17.3699	3473.97
2 Dichlorodifluoromethane	85	0.980	0.976	(0.234)	64939	15.8734	3174.68
3 Chloromethane	50	1.085	1.085	(0.260)	90586	18.4411	3688.22
5 Vinyl Chloride	62	1.149	1.149	(0.275)	90674	17.9129	3582.57
6 Bromomethane	94	1.347	1.343	(0.322)	53149	18.2918	3658.35
7 Chloroethane	64	1.407	1.407	(0.337)	57872	18.7035	3740.69

8	Trichlorofluoromethane	101	1.565	1.565 (0.374)	123336	20.5037	4100.74
9	Acrolein	56	1.448	1.448 (0.346)	10939	36.5752	7315.04

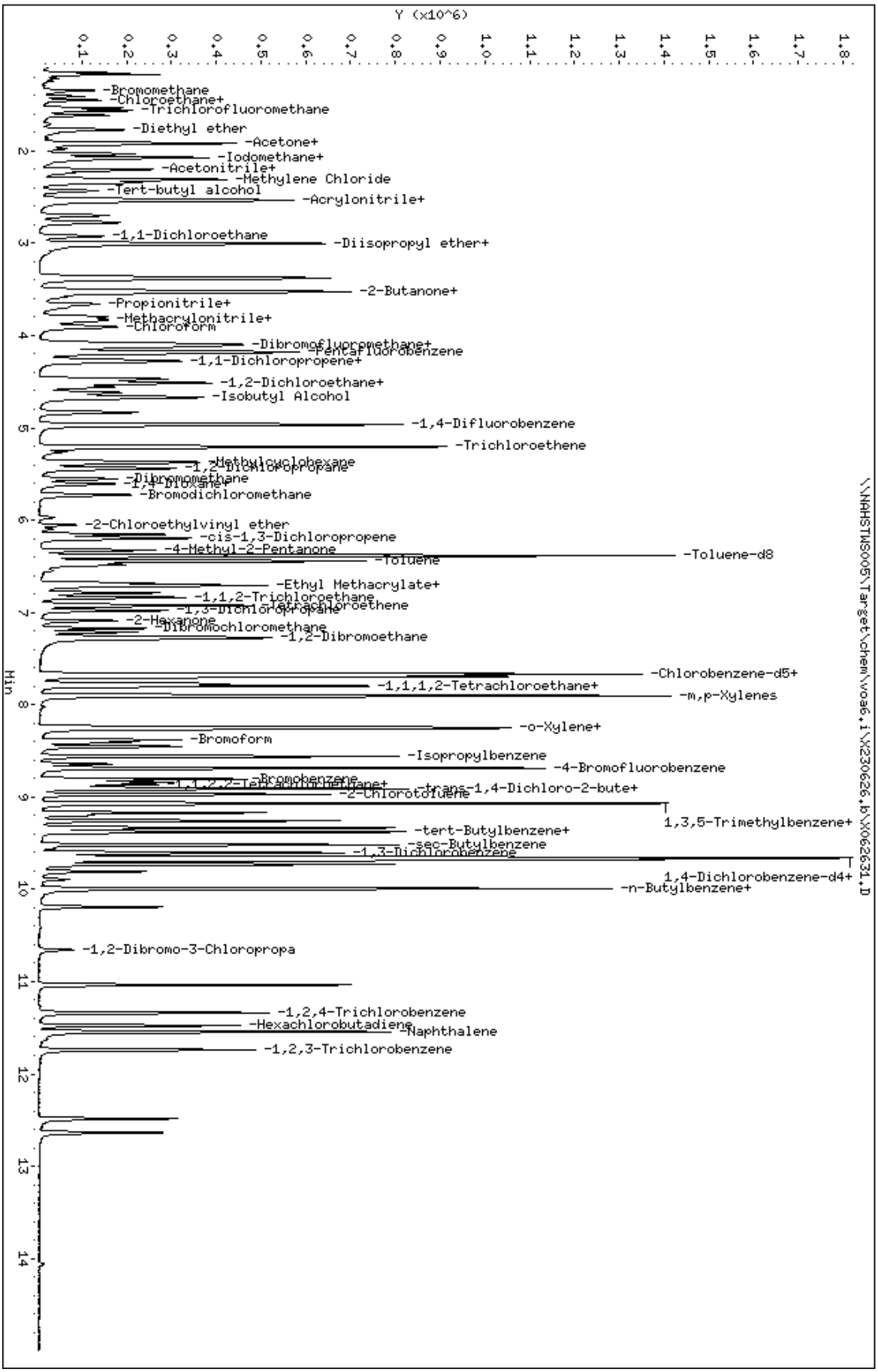
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	10 Acetone	43	1.977	1.973	(0.473)	38357	30.3304	6066.08
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	75259	19.9440	3988.79
	15 Iodomethane	142	2.033	2.029	(0.486)	221878	37.2153	7443.06
	16 Acrylonitrile	53	2.547	2.536	(0.609)	49610	32.4262	6485.24
	17 Methylene Chloride	84	2.307	2.307	(0.552)	94805	17.7865	3557.29
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	227832	17.2987	3459.74
	19 Carbon Disulfide	76	2.074	2.071	(0.496)	452717	33.6933	6738.66
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	87020	19.2720	3854.40
	21 Vinyl Acetate	43	3.000	2.997	(0.718)	430821	35.7479	7149.57
	22 1,1-Dichloroethane	63	2.925	2.922	(0.700)	147707	18.1586	3631.72
	24 2-Butanone	43	3.585	3.578	(0.857)	45149	28.4635	5692.69
	26 2,2-Dichloropropane	77	3.506	3.510	(0.839)	120580	18.7818	3756.36
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	312848	60.0820	12016.40
	28 Chloroform	83	3.908	3.908	(0.935)	158545	18.1091	3621.81
	29 Bromochloromethane	128	3.799	3.791	(0.909)	51120	18.4237	3684.73
$	30 Dibromofluoromethane	113	4.099	4.095	(0.980)	201757	46.8489	46.84
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.977)	137390	19.4159	3883.17
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	120477	21.0655	4213.10
	33 1,2-Dichloroethane	62	4.560	4.552	(0.918)	131349	22.9200	4584.00
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	121178	22.0312	4406.24
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	207709	44.6118	44.61
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	682531	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	360051	20.5081	4101.62
	38 Trichloroethene	130	5.205	5.205	(1.048)	311476	64.3457	12869.13
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	121562	19.5740	3914.80
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	34495	20.5264	4105.27
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	92366	20.0436	4008.71
	44 Dibromomethane	93	5.553	5.553	(1.119)	58951	20.3783	4075.65
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	149193	36.6014	7320.27
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	149870	19.5722	3914.43
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	631008	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	809164	50.7209	50.72
	50 Toluene	91	6.445	6.445	(0.841)	395735	21.3626	4272.51
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	122983	19.1961	3839.21
	52 2-Hexanone	43	7.086	7.086	(0.924)	97350	35.7543	7150.86
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	71730	19.8756	3975.11
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	147338	20.1914	4038.28
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	104805	20.4908	4098.15
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	87940	23.0850	4617.00
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	93244	20.2137	4042.74
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	89520	21.5678	4313.55
	59 Chlorobenzene	112	7.694	7.690	(1.003)	271602	21.4274	4285.48
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	98907	20.9262	4185.24
	61 Ethylbenzene	106	7.799	7.799	(1.017)	143447	21.9654	4393.08
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	361366	44.8706	8974.12
	63 o-Xylene	106	8.241	8.237	(1.075)	172625	21.4811	4296.21
	64 Styrene	104	8.260	8.256	(1.077)	286172	21.6193	4323.86
	66 Bromoform	173	8.410	8.406	(1.097)	72457	20.3205	4064.09
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	451895	22.7503	4550.05
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	118446	18.7293	3745.86
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	298926	48.5060	48.50
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	359655	50.0000	

71	1,2,3-Trichloropropane	75	8.863	8.859 (0.917)	85597	18.8755	3775.10
73	n-Propylbenzene	91	8.912	8.908 (0.922)	527605	22.2927	4458.54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	74 Bromobenzene	156	8.803	8.803	(0.911)	126573	21.5925	4318.49
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	383764	22.0983	4419.65
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	316155	21.0359	4207.17
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	362413	21.6182	4323.63
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	328198	22.6843	4536.85
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	380088	21.6931	4338.62
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	465227	22.7994	4559.88
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	407093	22.7872	4557.44
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	223176	21.3821	4276.42
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	233564	20.9064	4181.27
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	346549	22.7757	4555.14
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	221595	21.3971	4279.42
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	20036	19.5733	3914.66
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	158234	21.9642	4392.83
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	76505	23.6582	4731.63
	92 Naphthalene	128	11.544	11.540	(1.195)	332748	20.5174	4103.48
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	146120	22.0424	4408.48
M	94 1,2-Dichloroethylene (total)	96				399868	79.3540	15870.80
M	95 Xylenes (total)	106				533991	66.3517	13270.33
	141 Cyclohexane	56	4.125	4.121	(0.987)	128712	20.9490	4189.80
	138 Freon TF	101	1.917	1.917	(0.459)	87679	26.4048	5280.95
	147 Methylcyclohexane	55	5.381	5.377	(1.084)	206732	21.6719	4334.38
	146 Methyl Acetate	43	2.239	2.232	(0.536)	47912	16.7944	3358.87
	148 Tert-Butyl alcohol	59	2.431	2.427	(0.581)	149397	301.842	60368.34
	149 Isopropyl Alcohol	45	2.101	2.093	(0.502)	79757	291.934	58386.88

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa6.i\x230626.b\X062631.D
Date : 26-JUN-2023 23:05
Client ID: HS230611712-08HSD
Sample Info: HS230611712-08HSD;HS230611712-08HSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062631.D
Inj Date : 26-JUN-2023 23:05
InstruID : voa6.i
LabSampID : HS23061712-08MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062632.D Page 1
Report Date: 06-Jul-2023 12:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062632.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 26-JUN-2023 23:26
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\8260W.m
Meth Date : 06-Jul-2023 12:05 voa6.i Quant Type: ISTD
Cal Date : 15-JUN-2023 13:42 Cal File: X061508.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.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	4.185	4.185	(1.000)	424019	50.0000	
135 1,4-Dioxane	88	5.594	5.594	(1.337)	46696	1000.00	908.72
140 1,3-Butadiene	54	1.171	1.171	(0.280)	146376	50.0000	41.65
25 Methacrylonitrile	41	3.821	3.821	(0.913)	161783	50.0000	46.24
12 Isobutyl Alcohol	43	4.676	4.676	(1.117)	495204	1000.00	895.68
13 Acetonitrile	39	2.206	2.206	(0.527)	184421	500.000	448.41
14 Allyl Chloride	41	2.202	2.202	(0.526)	403195	50.0000	43.35
4 Propionitrile	54	3.653	3.653	(0.873)	247873	500.000	483.36
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	64735	50.0000	43.30
130 Ethyl Acetate	43	3.656	3.656	(0.874)	182065	50.0000	42.12
40 Methyl Methacrylate	41	5.606	5.606	(1.339)	155695	50.0000	47.43
49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	196289	50.0000	42.09
131 Methyl Acrylate	55	3.690	3.690	(0.882)	173522	50.0000	50.52
139 Diethyl ether	59	1.763	1.763	(0.421)	122093	50.0000	45.96
156 Diisopropyl ether	45	3.004	3.004	(0.718)	545882	50.0000	43.65
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	144249	50.0000	39.57
3 Chloromethane	50	1.085	1.085	(0.259)	194924	50.0000	43.62
5 Vinyl Chloride	62	1.152	1.152	(0.275)	185992	50.0000	41.76
6 Bromomethane	94	1.347	1.347	(0.322)	119628	50.0000	46.80
7 Chloroethane	64	1.411	1.411	(0.337)	122533	50.0000	45.01

8	Trichlorofluoromethane	101	1.568	1.568 (0.375)	240132	50.0000	45.37
9	Acrolein	56	1.448	1.448 (0.346)	21546	100.000	81.88

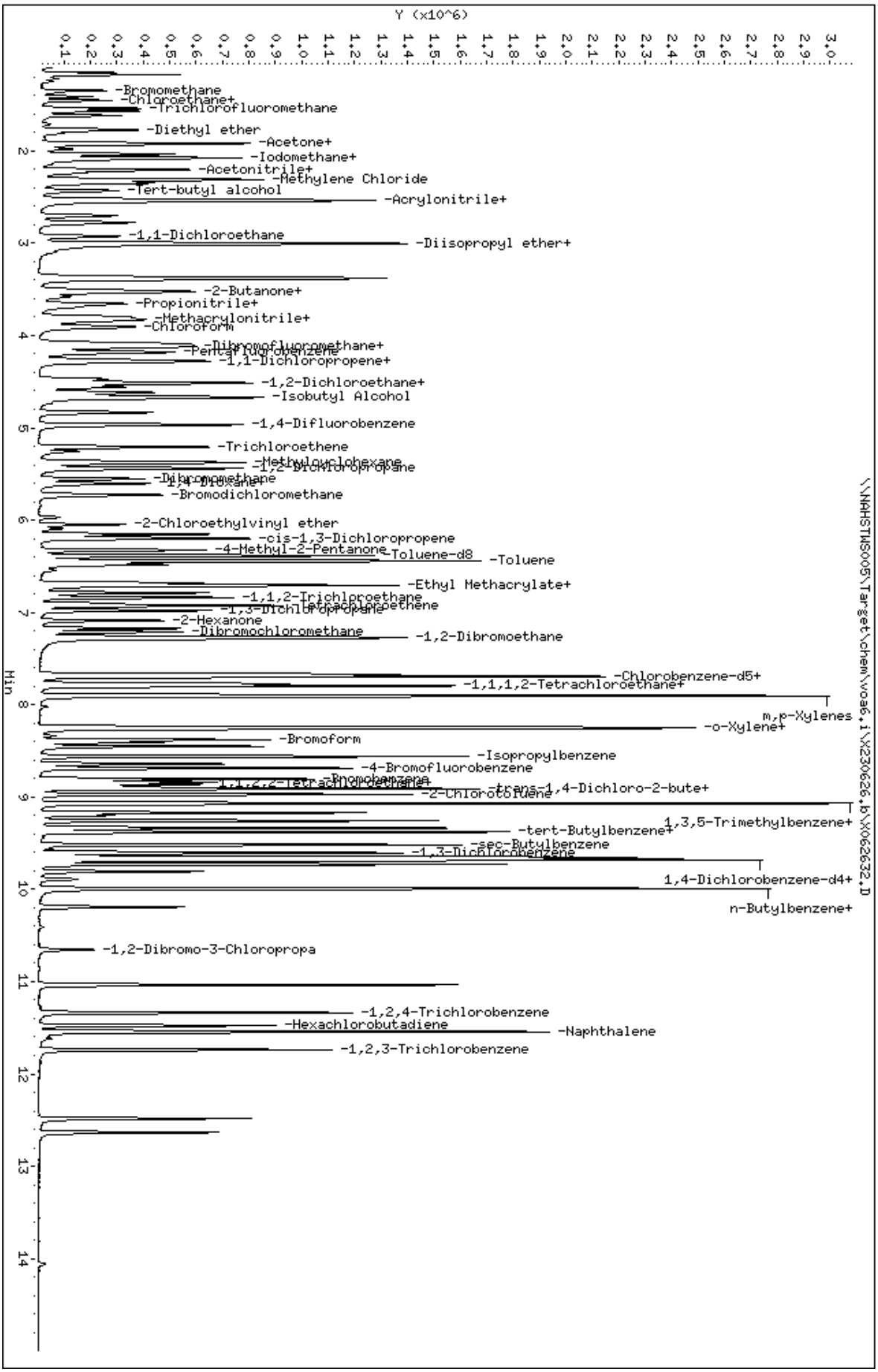
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	10 Acetone	43	1.981	1.981	(0.473)	94881	100.000	85.77
	11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	149477	50.0000	45.02
	15 Iodomethane	142	2.033	2.033	(0.486)	523957	100.000	95.31
	16 Acrylonitrile	53	2.539	2.539	(0.607)	117586	100.000	87.36
	17 Methylene Chloride	84	2.307	2.307	(0.551)	201738	50.0000	43.02
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	516525	50.0000	44.58
	19 Carbon Disulfide	76	2.074	2.074	(0.496)	894388	100.000	75.66
	20 trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	174844	50.0000	44.01
	21 Vinyl Acetate	43	3.000	3.000	(0.717)	933380	100.000	88.03
	22 1,1-Dichloroethane	63	2.925	2.925	(0.699)	316156	50.0000	44.18
	24 2-Butanone	43	3.581	3.581	(0.856)	128463	100.000	92.06
	26 2,2-Dichloropropane	77	3.510	3.510	(0.839)	246383	50.0000	43.63
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.842)	209704	50.0000	45.77
	28 Chloroform	83	3.908	3.908	(0.934)	336198	50.0000	43.65
	29 Bromochloromethane	128	3.795	3.795	(0.907)	112684	50.0000	46.16
$	30 Dibromofluoromethane	113	4.099	4.099	(0.979)	181823	50.0000	48.00
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.976)	281355	50.0000	45.19
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	246916	50.0000	45.29
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	248609	50.0000	45.50
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	239597	50.0000	45.69
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	186483	50.0000	45.54
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	650628	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	770339	50.0000	46.02
	38 Trichloroethene	130	5.208	5.208	(1.049)	223743	50.0000	48.48
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	266782	50.0000	45.06
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	128954	100.000	80.49
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	201334	50.0000	45.83
	44 Dibromomethane	93	5.553	5.553	(1.119)	130193	50.0000	47.21
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	348512	100.000	87.84
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	336407	50.0000	46.08
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	614182	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	733728	50.0000	47.25
	50 Toluene	91	6.445	6.445	(0.841)	855358	50.0000	47.43
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	280792	50.0000	45.97
	52 2-Hexanone	43	7.086	7.086	(0.924)	241371	100.000	91.07
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	162619	50.0000	46.29
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	333044	50.0000	46.89
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	238013	50.0000	47.80
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	174360	50.0000	47.02
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	214188	50.0000	47.70
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	164708	50.0000	41.62
	59 Chlorobenzene	112	7.690	7.690	(1.003)	589183	50.0000	47.75
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	218137	50.0000	47.41
	61 Ethylbenzene	106	7.799	7.799	(1.017)	299192	50.0000	47.06
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	758582	100.000	96.77
	63 o-Xylene	106	8.237	8.237	(1.074)	365283	50.0000	46.70
	64 Styrene	104	8.256	8.256	(1.077)	631643	50.0000	49.02
	66 Bromoform	173	8.410	8.410	(1.097)	169564	50.0000	48.85
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	896775	50.0000	46.38
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	267735	50.0000	42.74
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	310386	50.0000	51.78
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	356180	50.0000	

71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	209165	50.0000	46.57(M)
73 n-Propylbenzene	91	8.908	8.908 (0.922)	1056546	50.0000	45.07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
74	Bromobenzene	156	8.803	8.803	(0.911)	271842	50.0000	46.82	
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	786048	50.0000	45.70	
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	656260	50.0000	44.09	
77	4-Chlorotoluene	91	9.069	9.069	(0.939)	765462	50.0000	46.10	
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	648603	50.0000	45.26	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	794799	50.0000	45.80	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	912858	50.0000	45.17	
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	811402	50.0000	45.86	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	479578	50.0000	46.39	
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	501540	50.0000	45.33	
87	n-Butylbenzene	91	9.992	9.992	(1.034)	701877	50.0000	46.57	
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	477860	50.0000	46.59	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	47574	50.0000	46.56	
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	340787	50.0000	47.76	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	150360	50.0000	46.95	
92	Naphthalene	128	11.540	11.540	(1.194)	759744	50.0000	47.30	
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	312815	50.0000	47.64	
M 94	1,2-Dichloroethylene (total)	96				384548	100.000		(a)
141	Cyclohexane	56	4.125	4.125	(0.986)	251801	50.0000	46.58	
138	Freon TF	101	1.921	1.921	(0.459)	147443	50.0000	49.98	
147	Methylcyclohexane	55	5.381	5.381	(1.084)	436756	50.0000	48.03	
146	Methyl Acetate	43	2.236	2.236	(0.534)	111984	50.0000	44.61	
148	Tert-Butyl alcohol	59	2.431	2.431	(0.581)	341417	1000.00	784.10	
149	Isopropyl Alcohol	45	2.101	2.101	(0.502)	183663	1000.00	764.17	

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\voa6.i\X230626.b\X062632.D
Date : 26-JUN-2023 23:26
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

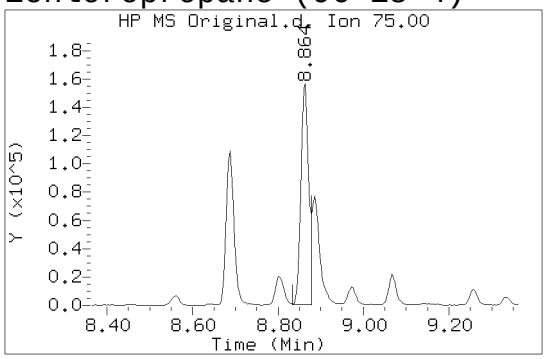
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230626.b\X062632.D
Inj Date : 26-JUN-2023 23:26
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

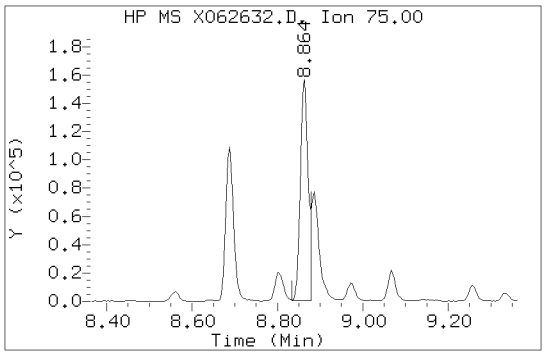
BEFORE

MASS
75
AREA
209165
HEIGHT
156336
06-Jul-2023
12:04
linh
pham



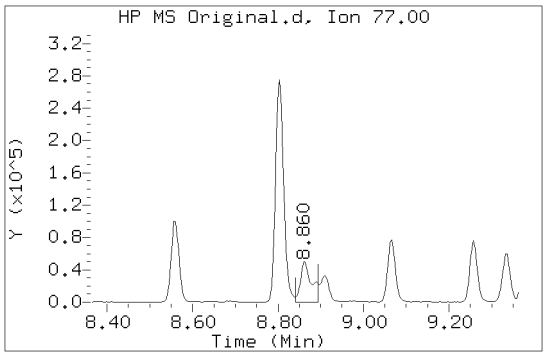
AFTER

MASS
75
AREA
209165
HEIGHT
156336
06-Jul-2023
12:04
linh
pham



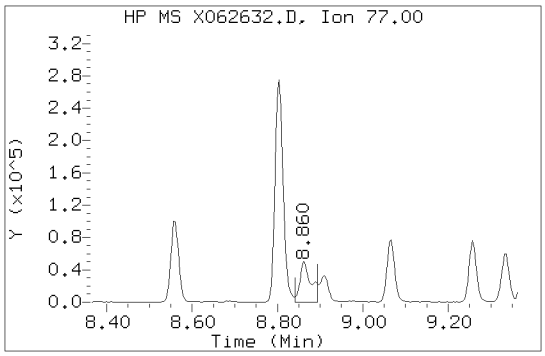
BEFORE

MASS
77
AREA
91961
HEIGHT
50072
06-Jul-2023
12:04
linh
pham



AFTER

MASS
77
AREA
91961
HEIGHT
50072
06-Jul-2023
12:04
linh
pham



HS23061707-MSSEMI-SW8270SIM

ALS WO# HS23061707

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Form 1

Organic Analysis Data Sheet

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 LHAAP Site18/24

Workorder **HS23061707**

Semi-Volatiles by EPA 8270SIM

HS23061707-03

18WW20_062323

Collected	Received	Matrix	Basis
06/23/23 07:40	06/24/23 09:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.016		0.010	0.010	0.010	1	07/05/23 13:08	SV-6_440441	09.D	196920

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Semi-Volatiles by EPA 8270SIM

HS23061707-04

18WW08_062323

Collected	Received	Matrix	Basis
06/23/23 08:30	06/24/23 09:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.017		0.010	0.010	0.010	1	07/05/23 13:26	SV-6_440441	10.D	196920

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061707**	

Semi-Volatiles by EPA 8270SIM

HS23061707-05	Collected	Received	Matrix	Basis
18WW09_062323	06/23/23 09:15	06/24/23 09:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.016		0.010	0.010	0.010	1	07/05/23 13:44	SV-6_440441	11.D	196920

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Semi-Volatiles by EPA 8270SIM

HS23061707-06

18CPTMW15_062323

Collected	Received	Matrix	Basis
06/23/23 10:00	06/24/23 09:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.025		0.010	0.010	0.010	1	07/05/23 14:02	SV-6_440441	12.D	196920

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Semi-Volatiles by EPA 8270SIM

HS23061707-07

18CPTMW15_062323_a

Collected	Received	Matrix	Basis
06/23/23 10:00	06/24/23 09:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.022		0.010	0.010	0.010	1	07/05/23 14:20	SV-6_440441	13.D	196920

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061707

Semi-Volatiles by EPA 8270SIM

HS23061707-10

18CPTMW26SW_062323

Collected	Received	Matrix	Basis
06/23/23 12:30	06/24/23 09:05	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.012		0.010	0.010	0.010	1	07/05/23 14:38	SV-6_440441	14.D	196920

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

Semi-Volatiles by EPA 8270SIM

MBLK-196920

MBLK-196920

Collected	Received	Matrix	Basis
NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.030	U	0.010	0.030	0.030	1	07/05/23 12:13	SV-6_440441	06.D	196920

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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: LHAAP Site18/24

Workorder: HS23061707

RunID: SV-6-440441

Semi-Volatiles by EPA 8270SIM

HS23061707-03	Analyzed	Conc Units	Dilution
18WW20_062323	07/05/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.082	0.08	103		40-140
4-Terphenyl-d14	0.09	0.08	113		40-140
Nitrobenzene-d5	0.076	0.08	94.6		40-140

HS23061707-04	Analyzed	Conc Units	Dilution
18WW08_062323	07/05/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.083	0.08	104		40-140
4-Terphenyl-d14	0.089	0.08	111		40-140
Nitrobenzene-d5	0.08	0.08	100.0		40-140

HS23061707-05	Analyzed	Conc Units	Dilution
18WW09_062323	07/05/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.087	0.08	108		40-140
4-Terphenyl-d14	0.083	0.08	103		40-140
Nitrobenzene-d5	0.076	0.08	95.3		40-140

HS23061707-06	Analyzed	Conc Units	Dilution
18CPTMW15_062323	07/05/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.09	0.08	112		40-140
4-Terphenyl-d14	0.08	0.08	100		40-140
Nitrobenzene-d5	0.087	0.08	108		40-140

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061707

RunID: SV-6-440441

Semi-Volatiles by EPA 8270SIM

HS23061707-07	Analyzed	Conc Units	Dilution
18CPTMW15_062323_a	07/05/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.079	0.08	98.1		40-140
4-Terphenyl-d14	0.082	0.08	102		40-140
Nitrobenzene-d5	0.082	0.08	103		40-140

HS23061707-10	Analyzed	Conc Units	Dilution
18CPTMW26SW_062323	07/05/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.086	0.08	107		40-140
4-Terphenyl-d14	0.084	0.08	105		40-140
Nitrobenzene-d5	0.082	0.08	102		40-140

LCS1-196920	Analyzed	Conc Units	Dilution
LCS1-196920	07/03/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.08991	0.08	112		40-140
4-Terphenyl-d14	0.09538	0.08	119		40-140
Nitrobenzene-d5	0.08818	0.08	110		40-140

LCS-196920	Analyzed	Conc Units	Dilution
LCS-196920	07/05/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.08221	0.08	103		40-140
4-Terphenyl-d14	0.0885	0.08	111		40-140
Nitrobenzene-d5	0.07565	0.08	94.6		40-140

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site18/24

Workorder: HS23061707

RunID: SV-6-440441

Semi-Volatiles by EPA 8270SIM

LCSD1-196920	Analyzed	Conc Units	Dilution
LCSD1-196920	07/03/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.08694	0.08	109		40-140
4-Terphenyl-d14	0.08969	0.08	112		40-140
Nitrobenzene-d5	0.08839	0.08	110		40-140

LCSD-196920	Analyzed	Conc Units	Dilution
LCSD-196920	07/05/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.08528	0.08	107		40-140
4-Terphenyl-d14	0.08995	0.08	112		40-140
Nitrobenzene-d5	0.0753	0.08	94.1		40-140

MBLK-196920	Analyzed	Conc Units	Dilution
MBLK-196920	07/03/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.08591	0.08	107		40-140
4-Terphenyl-d14	0.09001	0.08	113		40-140
Nitrobenzene-d5	0.08388	0.08	105		40-140
2-Fluorobiphenyl	0.08781	0.08	110		40-140
4-Terphenyl-d14	0.09818	0.08	123		40-140
Nitrobenzene-d5	0.08358	0.08	104		40-140

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Form 3B

Laboratory Control Sample Recovery

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 LHAAP Site18/24

Workorder
HS23061707

SAMPLENUM
LCS-196920

Semi-Volatiles by EPA 8270SIM

SV-6_440441				LCS-196920			LCSD-196920					
Spike Matrix	Aqueous		Run Date	07/05/23			07/05/23					
Result Units	ug/L		Run Time	12:31			12:49					
Prep Method	SW3510		Data File	07.D			08.D					
Prep Date	06/29/23	Prep Batch 196920	Prep Amt	1000 mL			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	0.07718	96		0.07106	89.0		20	3.32	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder HS23061707

Semi-Volatiles by EPA 8270SIM

SAMPLENUM LCSD-196920

SV-6_440441				LCSD-196920		
Spike Matrix	Aqueous		Run Date	07/05/23		
Result Units	ug/L		Run Time	12:49		
Prep Method	SW3510		Data File	08.D		
Prep Date	06/29/23	Prep Batch 196920	Prep Amt	1000 mL		

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,4-Dioxane	40-140	0.08	0.07106	89	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061707

Semi-Volatiles by EPA 8270SIM

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-196920	06.D	07/05/23 12:13	SV-6_440441
LCS-196920	LCS	LCS-196920	07.D	07/05/23 12:31	SV-6_440441
LCSD-196920	LCSD	LCSD-196920	08.D	07/05/23 12:49	SV-6_440441
18WW20_062323	SAMP	HS23061707-03	09.D	07/05/23 13:08	SV-6_440441
18WW08_062323	SAMP	HS23061707-04	10.D	07/05/23 13:26	SV-6_440441
18WW09_062323	SAMP	HS23061707-05	11.D	07/05/23 13:44	SV-6_440441
18CPTMW15_062323	SAMP	HS23061707-06	12.D	07/05/23 14:02	SV-6_440441
18CPTMW15_062323_a	SAMP	HS23061707-07	13.D	07/05/23 14:20	SV-6_440441
18CPTMW26SW_062323	SAMP	HS23061707-10	14.D	07/05/23 14:38	SV-6_440441

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Form 5

Instrument Performance Check

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

RunID SV-6-439923

Semi-Volatiles by EPA 8270SIM

Tune File 01.D 06/16/23 6/16/2023

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	40.3 (40.3)
68	Less than 2.0% of mass 69	0.5 (1.44) 1
69	Mass 69 RA	32.2 (32.2)
70	Less than 2.0% of mass 69	0.2 (0.502) 1
127	25.0 - 75.0% of mass 198	38.5 (38.5)
197	Less than 1.0% of mass 198	0.5 (0.46)
198	Base peak, 100% RA	100 (83.3)
199	5.0 - 9.0% of mass 198	6.5 (6.46)
275	10.0 - 30.0% of mass 198	25.8 (25.8)
365	Greater than 0.75% of mass 198	3.4 (3.43)
441	Present, but less than mass 443	17.7 (76.4)
442	40.0 - 110.0% of mass 198	120.1 (120)
443	15.0 - 24.0% of mass 442	23.2 (19.3) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	14DXICAL-	ICAL1	6/16/2023	04	14DXICAL-0.01
2	14DXICAL-	ICAL2	6/16/2023	05	14DXICAL-0.03
3	14DXICAL-	ICAL3	6/16/2023	06	14DXICAL-0.05
4	14DXICAL-	ICAL4	6/16/2023	07	14DXICAL-0.08
5	14DXICAL-	ICAL6	6/16/2023	09	14DXICAL-0.15
6	14DXICAL-0.1	ICAL5	6/16/2023	12	14DXICAL-0.1
7	14DXICAL-0.5	ICAL8	6/16/2023	14	14DXICAL-0.5
8	14DXICAL-0.2	ICAL7	6/16/2023	15	14DXICAL-0.2
9	14DXICV-0.08	ICV	6/16/2023	16	14DXICV-0.08

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061707**	

RunID

Semi-Volatiles by EPA 8270SIM

SV-6-439923

Tune File	01.D	06/16/23 6/16/2023	This check applies to the following analyses

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder **HS23061707**

RunID SV-6-440441

Semi-Volatiles by EPA 8270SIM

Tune File 01.D 07/05/23 7/5/2023

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	53.7 (53.69)
68	Less than 2.0% of mass 69	0.6 (1.35) 1
69	Mass 69 RA	43.5 (43.55)
70	Less than 2.0% of mass 69	0.2 (0.49) 1
127	25.0 - 75.0% of mass 198	47.1 (47.05)
197	Less than 1.0% of mass 198	0.5 (0.47)
198	Base peak, 100% RA	100 (100)
199	5.0 - 9.0% of mass 198	6.5 (6.53)
275	10.0 - 30.0% of mass 198	24.3 (24.34)
365	Greater than 0.75% of mass 198	3.2 (3.17)
441	Present, but less than mass 443	12.6 (73.54)
442	40.0 - 110.0% of mass 198	86.7 (86.73)
443	15.0 - 24.0% of mass 442	17.1 (19.73) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
4	14DX-0.08	CCV	7/5/2023	04	14DX-0.08
5	MBLK-196920	MBLK	7/5/2023	06	MBLK-196920
6	LCS-196920	LCS	7/5/2023	07	LCS-196920
7	LCSD-196920	LCSD	7/5/2023	08	LCSD-196920
8	HS23061707-	SAMP	7/5/2023	09	18WW20_062323
9	HS23061707-	SAMP	7/5/2023	10	18WW08_062323
10	HS23061707-	SAMP	7/5/2023	11	18WW09_062323
11	HS23061707-	SAMP	7/5/2023	12	18CPTMW15_062323
12	HS23061707-	SAMP	7/5/2023	13	18CPTMW15_062323_a
13	HS23061707-	SAMP	7/5/2023	14	18CPTMW26SW_062323
14	14DXCCV-	CCV	7/5/2023	21	14DXCCV-END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site18/24	**HS23061707**	

RunID

Semi-Volatiles by EPA 8270SIM

SV-6-440441

Tune File	01.D	07/05/23 7/5/2023	This check applies to the following analyses

01200714

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Form 6

Initial Calibration Data

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID SV-6_439923

Semi-Volatiles by EPA 8270SIM

ICAL Start Date 10-MAR-2022 1025
ICAL End Date 16-JUN-2023 1556

Calibration Files

Calibration file names

Level 1..target\chem\sv6.i\230616.b\04.d
Level 2..target\chem\sv6.i\230616.b\05.d
Level 3..target\chem\sv6.i\230616.b\06.d
Level 4..target\chem\sv6.i\230616.b\07.d
Level 5..target\chem\sv6.i\230616.b\12.d
Level 6..target\chem\sv6.i\230616.b\09.d
Level 7..target\chem\sv6.i\230616.b\15.d
Level 8..target\chem\sv6.i\230616.b\14.d

Compound	0.20000 Level 7 0.01000 Level 1	0.50000 Level 8 0.03000 Level 2	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	%RSD	Q
1,4-Dioxane	0.30124 0.40150	0.32659 0.31193	0.32643	0.34940	0.35892	0.33837	0.33930	9.241	
2-Fluorophenol	0.40150 NE NE	0.31193 NE NE	NE	NE	NE	NE	0.33930 NE	9.241 NE	
13 Phenol-d6	NE NE	NE NE	NE	NE	NE	NE	NE	NE	
33 Nitrobenzene-d5	0.28832 0.34832	0.28035 0.27609	0.30204	0.32108	0.30808	0.30634	0.30383	7.735	
69 2-Fluorobiphenyl	0.98985 1.25227	0.97067 0.94386	0.97876	1.06873	0.97017	1.00640	1.02259	9.764	
105 2,4,6-Tribromophenol	NE NE	NE NE	NE	NE	NE	NE	NE	NE	
158 4-Terphenyl-d14	0.60104 1.00267	0.68127 0.75942	0.64541	0.74244	0.75380	0.71602	0.73776	16.347	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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www.alsglobal.com

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID SV-6_439923

Semi-Volatiles by EPA 8270SIM

Sample Matrix LIQUID
Lab Smp Id 14DXICV-0.08
Level LOW

Fraction SV
Client Smp ID 14DXICV-0.08
Operator LG

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.08000	0.07070	88.38	40-140	
Nitrobenzene-d5	0.08000	0.07086	88.57	40-140	
2-Fluorobiphenyl	0.08000	0.08036	100.45	40-140	
4-Terphenyl-d14	0.08000	0.08379	104.74	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID SV-6_440441

Semi-Volatiles by EPA 8270SIM

Instrument ID SV6.I
Lab File ID 04.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date :31
ICAL Date(s) 10-MAR-2022 16-JUN-2023
ICAL Times :25 15:56
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.30383	0.29254	0.010	-3.71600	20.0	Averaged	
69 2-Fluorobiphenyl	1.02259	1.08205	0.010	5.81509	20.0	Averaged	
158 4-Terphenyl-d14	0.73776	0.78650	0.010	6.60592	20.0	Averaged	
1,4-Dioxane	0.33930	0.30610	0.010	-9.78546	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site18/24

Workorder HS23061707

RunID SV-6_440441

Semi-Volatiles by EPA 8270SIM

Instrument ID SV6.I
Lab File ID 21.D
Analysis Type WATER
Lab Sample ID 14DXCCV-END Quant Type

Injection Date :45
ICAL Date(s) 10-MAR-2022 16-JUN-2023
ICAL Times :25 15:56
ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.30383	0.26601	0.010	-12.44760	50.0	Averaged	
69 2-Fluorobiphenyl	1.02259	0.93368	0.010	-8.69410	50.0	Averaged	
158 4-Terphenyl-d14	0.73776	0.71073	0.010	-3.66365	50.0	Averaged	
1,4-Dioxane	0.33930	0.29096	0.010	-14.24770	50.0	Averaged	

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Form 12

Preparation Log

Semi-VolatilesEPA 3510

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 12 - Preparation Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061707

RunID
196920

Semi-VolatilesEPA 3510

Prep Batch 196920 **Prep Date** 06/29/23

	Matrix	Type	Client Sample ID	Lab Sample ID	Initial Amt (mL)	Final Amt (mL)
1	Aqueous	MBLK	MBLK-196920	MBLK-196920	1000	1
2	Aqueous	LCS	LCS1-196920	LCS1-196920	1000	1
3	Aqueous	LCS	LCS-196920	LCS-196920	1000	1
4	Aqueous	LCSD	LCSD1-196920	LCSD1-196920	1000	1
5	Aqueous	LCSD	LCSD-196920	LCSD-196920	1000	1
6	Groundwater	SAMP	18WW20_062323	HS23061707-03	1000	1
7	Groundwater	SAMP	18WW08_062323	HS23061707-04	1000	1
8	Groundwater	SAMP	18WW09_062323	HS23061707-05	1000	1
9	Groundwater	SAMP	18CPTMW15_062323	HS23061707-06	1000	1
10	Groundwater	SAMP	18CPTMW15_062323_a	HS23061707-07	1000	1
11	Groundwater	SAMP	18CPTMW26SW_062323	HS23061707-10	1000	1

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Analysis Run Log

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory

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Phone (281) 530-5656 Fax (281) 530-5887

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061707

RunID
SV-6-439923

Semi-Volatiles by EPA 8270SIM

Run ID SV-6_439923 **Start Date** 06/16/23 **EndDate** 06/16/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:28	DFTPP	TUNE	DFTPP	01.D	06/16/23	1
11:08	14DXICAL-0.01	ICAL1	14DXICAL-0.01	04.D	06/16/23	1
11:26	14DXICAL-0.03	ICAL2	14DXICAL-0.03	05.D	06/16/23	1
11:44	14DXICAL-0.05	ICAL3	14DXICAL-0.05	06.D	06/16/23	1
12:02	14DXICAL-0.08	ICAL4	14DXICAL-0.08	07.D	06/16/23	1
12:38	14DXICAL-0.15	ICAL6	14DXICAL-0.15	09.D	06/16/23	1
14:15	14DXICAL-0.1	ICAL5	14DXICAL-0.1	12.D	06/16/23	1
14:51	14DXICAL-0.5	ICAL8	14DXICAL-0.5	14.D	06/16/23	1
15:56	14DXICAL-0.2	ICAL7	14DXICAL-0.2	15.D	06/16/23	1
16:22	14DXICV-0.08	ICV	14DXICV-0.08	16.D	06/16/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site18/24

Workorder
HS23061707

RunID
SV-6-440441

Semi-Volatiles by EPA 8270SIM

Run ID SV-6_440441 **Start Date** 07/03/23 **EndDate** 07/06/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:16	DFTPP	TUNE	DFTPP	01.D	07/05/23	1
11:31	14DX-0.08	CCV	14DX-0.08	04.D	07/05/23	1
12:13	MBLK-196920	MBLK	MBLK-196920	06.D	07/05/23	1
12:31	LCS-196920	LCS	LCS-196920	07.D	07/05/23	1
12:49	LCSD-196920	LCSD	LCSD-196920	08.D	07/05/23	1
13:08	HS23061707-03	SAMP	18WW20_062323	09.D	07/05/23	1
13:26	HS23061707-04	SAMP	18WW08_062323	10.D	07/05/23	1
13:44	HS23061707-05	SAMP	18WW09_062323	11.D	07/05/23	1
14:02	HS23061707-06	SAMP	18CPTMW15_062323	12.D	07/05/23	1
14:20	HS23061707-07	SAMP	18CPTMW15_062323_	13.D	07/05/23	1
14:38	HS23061707-10	SAMP	18CPTMW26SW_0623	14.D	07/05/23	1
14:56	HS23061812-02	SAMP	ZZZZZZZZZZ	15.D	07/05/23	1
15:33	HS23061812-04	SAMP	ZZZZZZZZZZ	17.D	07/05/23	1
15:51	HS23061812-06	SAMP	ZZZZZZZZZZ	18.D	07/05/23	1
16:09	HS23061812-07	SAMP	ZZZZZZZZZZ	19.D	07/05/23	1
16:27	HS23061812-03	SAMP	ZZZZZZZZZZ	20.D	07/05/23	10
16:45	14DXCCV-END	CCV	14DXCCV-END	21.D	07/05/23	1

01200726

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Raw Data SV 6 439923

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\nahstws005\Target\chem\SV6.i\230616.b\01.D Page 1
Report Date: 16-Jun-2023 09:41

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230616.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 16-JUN-2023 09:28
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230616.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.009	6.357	-1.348	198	573312			0.00- 100.00	83.28
5.009	6.357	-1.348	51	231176			10.00- 80.00	40.32
5.009	6.357	-1.348	68	2654			0.00- 2.00	1.44
5.009	6.357	-1.348	69	184729			0.00- 0.00	32.22
5.009	6.357	-1.348	70	927			0.00- 2.00	0.50
5.009	6.357	-1.348	127	220864			10.00- 80.00	38.52
5.009	6.357	-1.348	197	2637			0.00- 2.00	0.46
5.009	6.357	-1.348	199	37040			5.00- 9.00	6.46
5.009	6.357	-1.348	275	147776			10.00- 60.00	25.78
5.009	6.357	-1.348	365	19688			1.00- 100.00	3.43
5.009	6.357	-1.348	441	101568			0.01- 99.99	76.45
5.009	6.357	-1.348	442	688448			50.00- 150.00	120.08
5.009	6.357	-1.348	443	132864			15.00- 24.00	19.30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	40.32
68	Less than 2.00% of mass 69	0.46 (1.44)
69	Mass 69 relative abundance	32.22
70	Less than 2.00% of mass 69	0.16 (0.50)
127	10.00 - 80.00% of mass 198	38.52
197	Less than 2.00% of mass 198	0.46
199	5.00 - 9.00% of mass 198	6.46
275	10.00 - 60.00% of mass 198	25.78
365	1.00 - 100.00% of mass 198	3.43
441	Present, but less than mass 443	17.72
442	50.00 - 150.00% of mass 198	120.08
443	15.00 - 24.00% of mass 442	23.17 (19.30)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 453: 5.010 min. (SUB)
Location of Maximum: 442.10
Number of points: 316

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	691	128.10	16159	209.00	1513	297.00	5492
38.00	1909	129.00	84336	210.10	2201	298.00	365
39.10	12523	130.00	6769	211.00	6102	301.00	640
40.00	181	131.00	1444	213.00	401	302.00	602
40.90	276	132.10	794	214.00	192	303.10	4693
45.00	312	133.10	248	215.00	1503	304.00	1179
49.00	1051	134.00	2156	216.00	2932	304.90	175
50.10	53200	135.00	6519	217.00	39448	308.00	557
51.10	231168	136.00	2427	218.00	4584	309.00	385
52.10	12049	137.10	3257	219.00	408	310.00	461
53.00	444	138.10	689	221.10	31488	311.10	249
55.00	841	139.00	436	221.70	5812	311.90	184
56.00	6699	140.00	864	223.00	9377	312.90	383
57.00	16176	141.00	10733	224.10	87680	314.00	1739
58.00	734	142.00	3754	225.10	21984	315.00	3954
61.00	2603	143.00	2343	226.00	2230	316.10	2781
62.00	2746	144.00	787	227.00	33024	317.00	633
63.00	8959	145.00	657	228.00	4457	319.90	232
64.00	1134	146.10	1823	229.00	7608	321.00	1268
65.10	3754	147.00	5380	230.00	950	322.00	605
66.20	170	148.00	12478	231.00	3201	323.10	14516
66.90	176	149.00	2115	232.00	487	324.00	2985
68.00	2654	150.00	633	233.00	674	325.00	302
69.00	184704	151.60	2531	234.00	1838	326.00	247
70.00	927	152.00	808	235.00	2392	327.00	2521
71.10	180	153.00	3358	236.00	1374	328.00	1205
73.00	1217	154.00	2616	237.00	2292	329.00	338
74.00	17520	155.00	6177	238.00	338	332.00	1141
75.00	28192	156.10	9411	239.00	1122	333.00	1368
76.10	9960	157.00	2001	240.00	936	334.10	8776
77.10	218880	158.00	2113	241.00	1871	335.00	2203
78.10	13466	159.00	1675	242.00	4359	336.00	187
79.00	12046	160.10	3244	243.10	4502	339.10	380
80.00	9791	161.00	5606	244.10	67632	339.90	281
81.00	14216	162.00	1730	245.10	8922	341.00	1623
82.00	3653	163.00	400	246.00	11263	342.10	476
83.00	3381	164.00	727	247.00	2407	346.00	2738
84.00	184	165.00	4330	248.10	663	347.00	596
85.00	2227	166.00	3419	249.00	2399	350.90	220
86.00	3237	167.00	24512	250.00	534	352.10	4359
87.00	1991	168.00	9507	251.00	626	353.00	3284
88.00	676	169.10	1791	252.00	592	354.10	4838
89.00	341	170.00	842	253.00	1532	355.00	896
91.00	2912	170.90	1000	254.00	2136	359.00	467
92.00	3110	172.00	2269	255.00	354304	365.00	19688

93.00	21304	173.10	2549	256.00	51136	366.00	2752
94.00	1218	174.00	5175	257.00	3611	370.10	513
95.00	484	175.00	9799	258.00	18768	371.00	1054
96.00	924	176.00	2683	259.00	3038	372.00	8081
97.10	374	177.00	3904	260.00	415	373.10	1766
98.00	16345	178.00	1303	261.00	547	374.00	321
99.00	11441	179.00	17472	263.00	216	377.00	254
100.00	1118	180.00	12918	264.00	482	383.00	2280
101.00	8931	181.00	6121	265.00	7562	384.00	529
101.90	481	182.10	939	266.00	1247	385.00	199
103.00	2466	183.00	711	267.90	202	390.10	1132
104.00	4787	184.00	1198	270.00	419	391.00	640
105.00	4856	185.10	9374	270.90	595	392.00	528
106.00	1473	186.10	74288	272.00	859	401.00	506
107.00	67952	187.10	20504	273.00	9955	402.00	3420
108.00	9807	188.00	2068	274.00	26688	403.00	5432
109.00	1838	189.00	3837	275.00	147776	404.00	1627
110.00	123544	189.90	682	276.10	18968	405.00	236
111.00	17696	191.00	2262	277.00	11809	415.00	201
112.00	1819	192.00	6230	278.00	1774	421.00	5131
112.90	638	193.10	7049	279.00	482	422.00	3941
114.00	179	194.00	1444	280.90	159	423.00	33192
114.80	238	195.00	1036	282.00	357	424.00	5796
116.00	3334	196.10	15513	283.00	1383	425.00	632
117.00	50184	197.00	2637	284.00	975	434.00	155
118.10	3139	198.00	573312	285.00	2248	436.70	155
119.00	504	199.00	37040	286.10	556	441.10	101568
120.00	697	200.00	3218	289.00	393	442.10	688448
121.00	285	201.50	2802	290.00	552	443.10	132864
122.00	4036	203.00	3916	291.00	367	444.10	12072
123.10	5628	204.00	19400	291.90	558	445.00	733
124.00	2843	205.10	32656	293.00	2916		
125.00	2735	206.10	146944	294.00	680		
126.10	975	207.10	18016	295.00	908		
127.00	220864	208.10	4201	296.00	40008		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Lab Smp Id: 14DXICAL-0.01 Client Smp ID: 14DXICAL-0.01
Inj Date : 16-JUN-2023 11:08
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	5079	0.10000	(a)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	17862	0.10000	
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	515	0.01000	0.009537(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10143	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	1004	0.01000	0.009665(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	20228	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	14841	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.909	(0.889)	892	0.01000	0.008235(M)
* 198 Perylene-d12	264	11.945	11.945	(1.000)	14498	0.10000	(M)
1 1,4-Dioxane	58	1.486	1.486	(0.475)	153	0.01000	0.008943(aQM)

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.

01200732

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D

Date : 16-JUN-2023 11:08

Client ID: 14DXICAL-0.01

Instrument: SV6.i

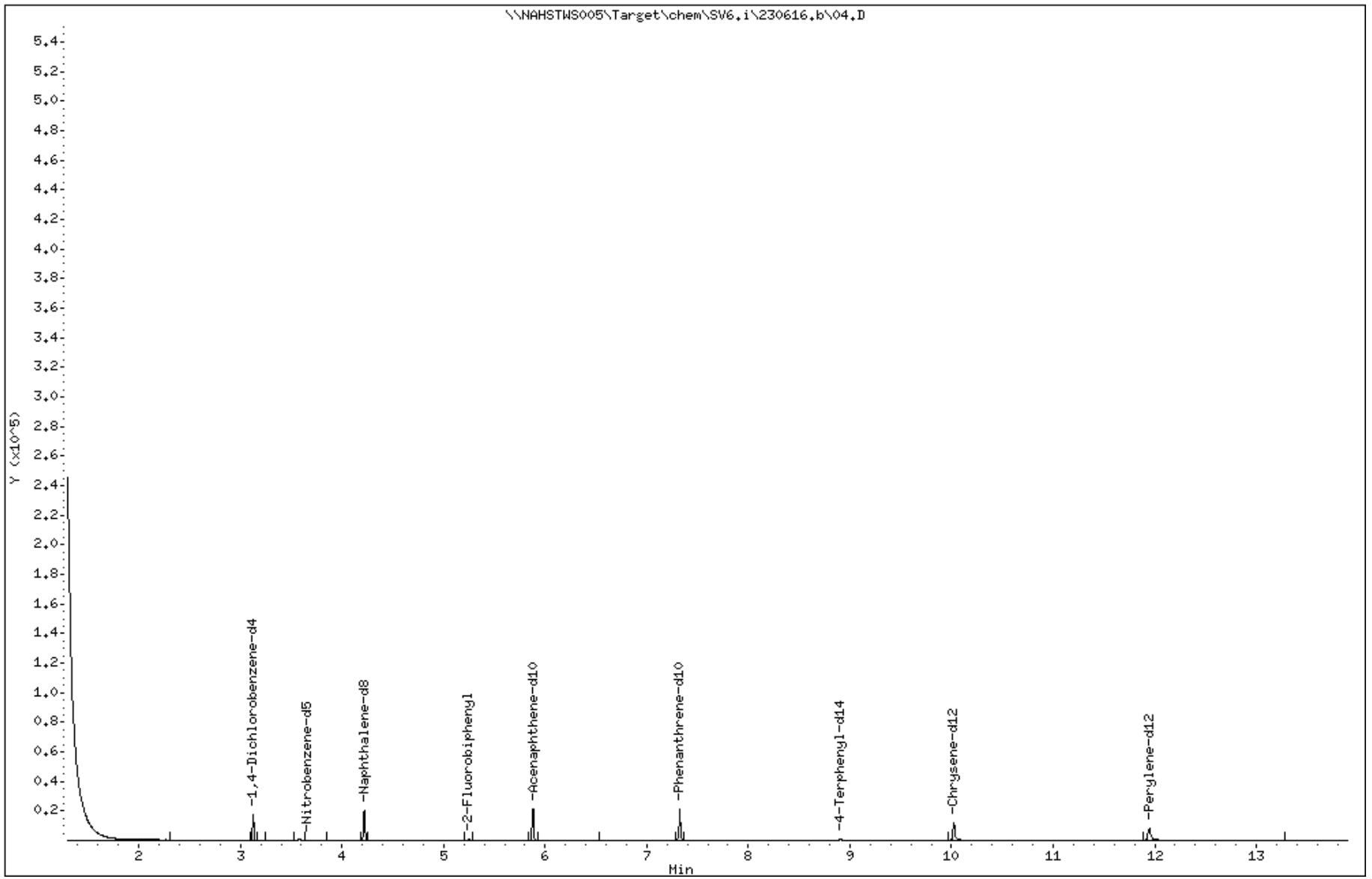
Sample Info: 14DXICAL-0.01

Purge Volume: 1000.0

Operator: LC

Column phase: RTX-5SIL MS

Column diameter: 0.28



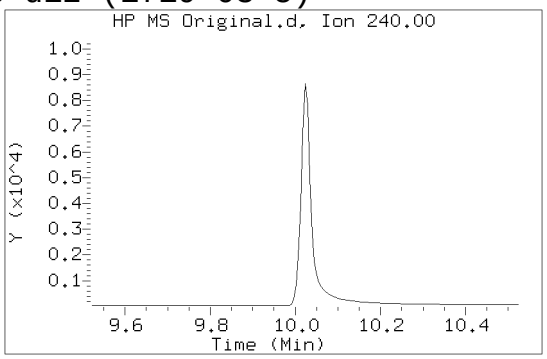
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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Chrysene-d12 (1719-03-5)

Reason Code:

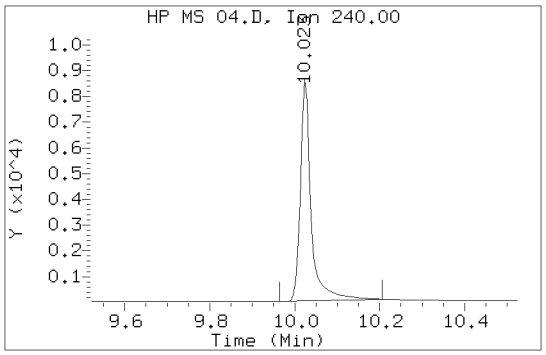
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



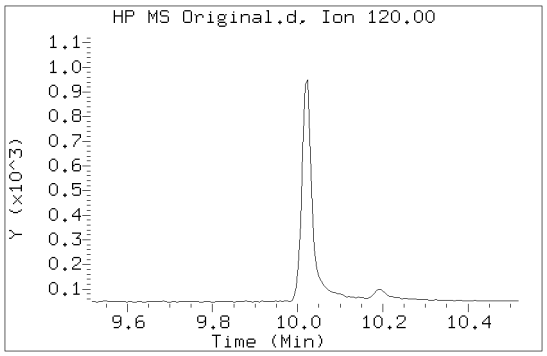
AFTER

MASS
240
AREA
14841
HEIGHT
8583
29-Jun-2023
14:26
ALSHS
Ser



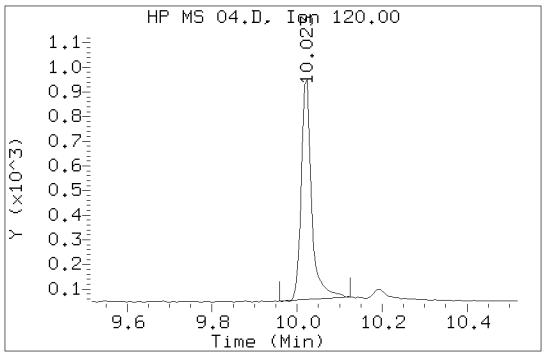
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



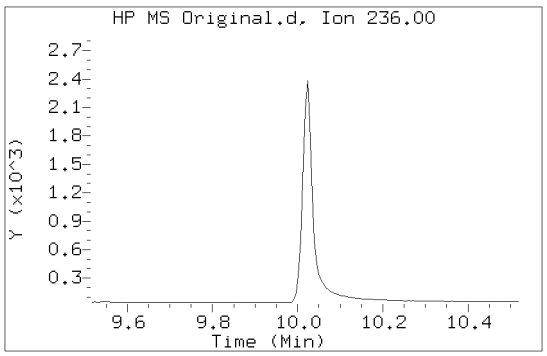
AFTER

MASS
120
AREA
1504
HEIGHT
891
29-Jun-2023
14:26
ALSHS
Ser



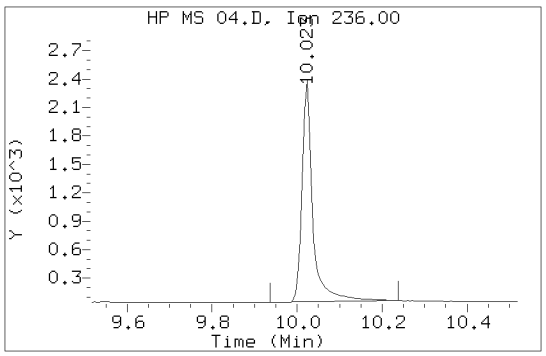
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
236
AREA
4047
HEIGHT
2330
29-Jun-2023
14:26
ALSHS
Ser

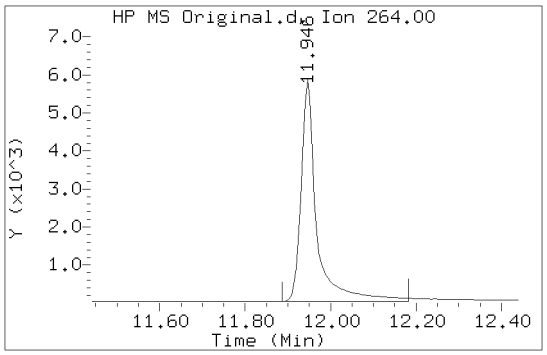


Perylene-d12 (1520-96-3)

Reason Code:

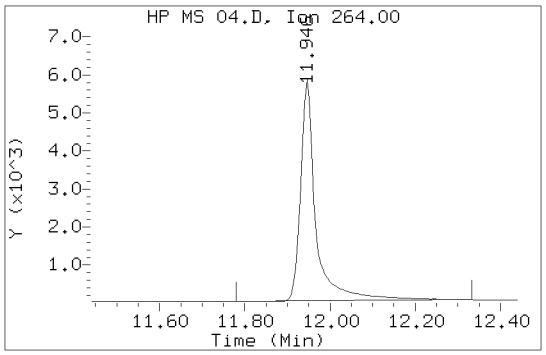
BEFORE

MASS
264
AREA
14674
HEIGHT
5826
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
264
AREA
14498
HEIGHT
5814
29-Jun-2023
14:26
ALSHS
Ser



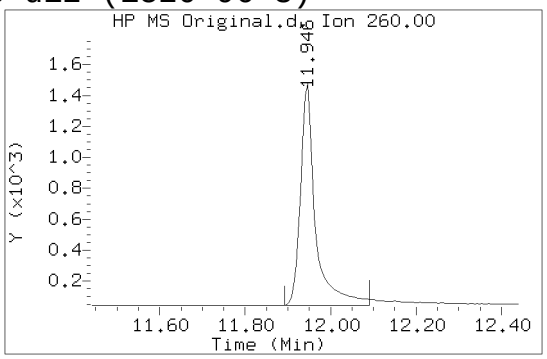
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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Perylene-d12 (1520-96-3)

Reason Code:

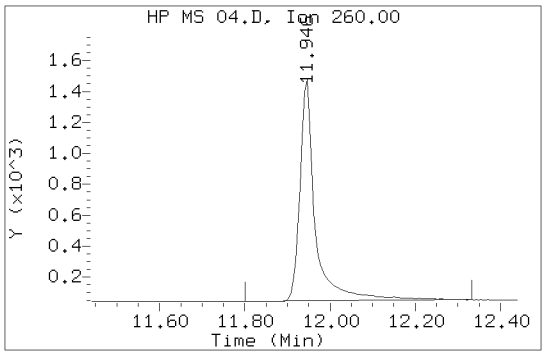
BEFORE

MASS
260
AREA
3461
HEIGHT
1431
16-Jun-2023
11:24
ALSHS
Server



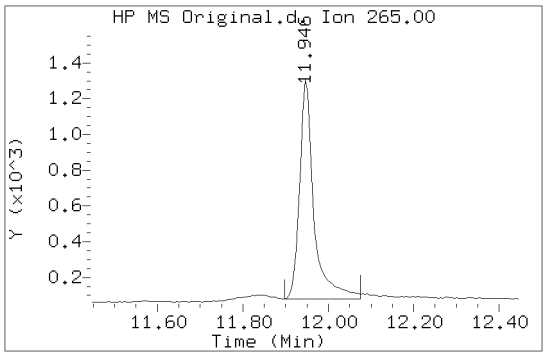
AFTER

MASS
260
AREA
3563
HEIGHT
1428
29-Jun-2023
14:26
ALSHS
Ser



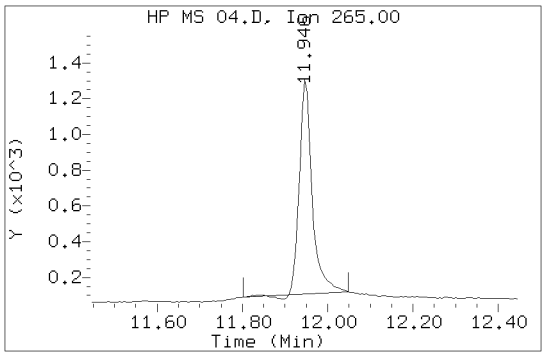
BEFORE

MASS
265
AREA
2841
HEIGHT
1225
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
265
AREA
2485
HEIGHT
1196
29-Jun-2023
14:26
ALSHS
Ser

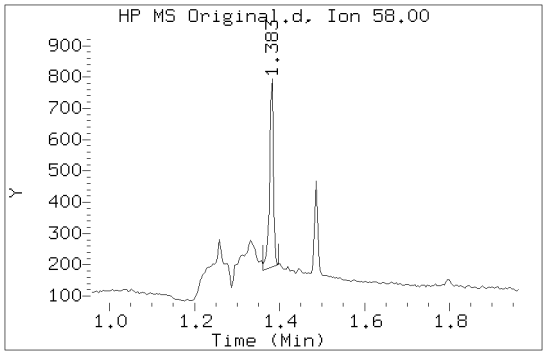


1,4-Dioxane ()

Reason Code:

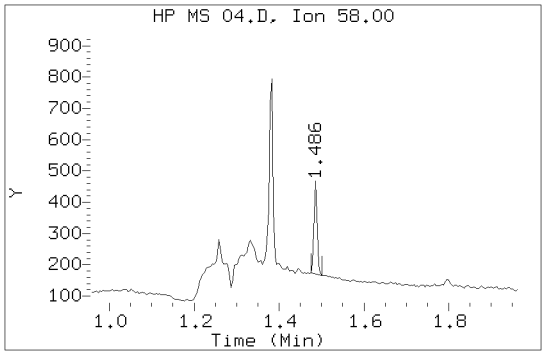
BEFORE

MASS
58
AREA
375
HEIGHT
599
16-Jun-2023
11:24
ALSHS
Server



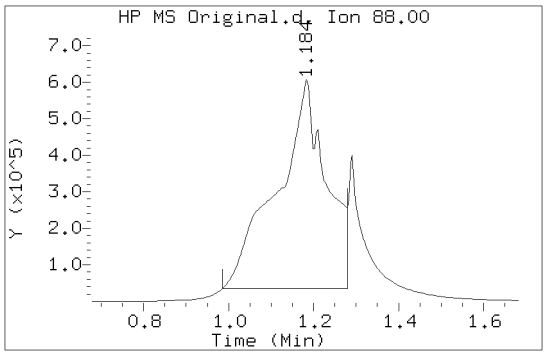
AFTER

MASS
58
AREA
153
HEIGHT
296
29-Jun-2023
14:26
ALSHS
Ser



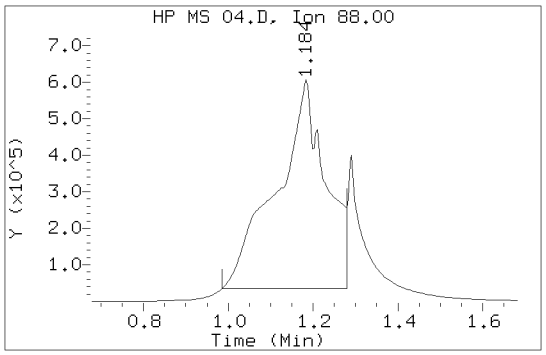
BEFORE

MASS
88
AREA
4618745
HEIGHT
572488
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
88
AREA
4618745
HEIGHT
572488
29-Jun-2023
14:26
ALSHS
Ser



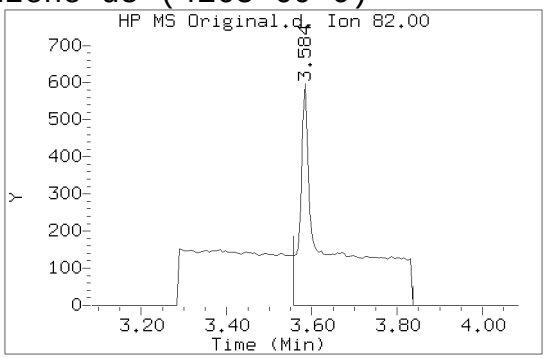
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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

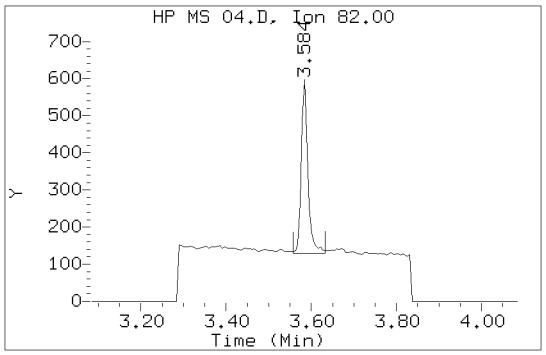
BEFORE

MASS
82
AREA
2695
HEIGHT
597
16-Jun-2023
11:24
ALSHS
Server



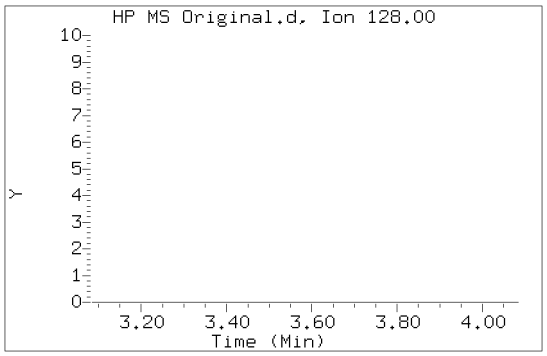
AFTER

MASS
82
AREA
515
HEIGHT
468
29-Jun-2023
14:26
ALSHS
Ser



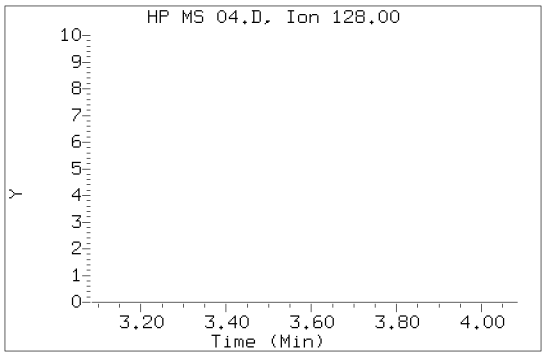
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



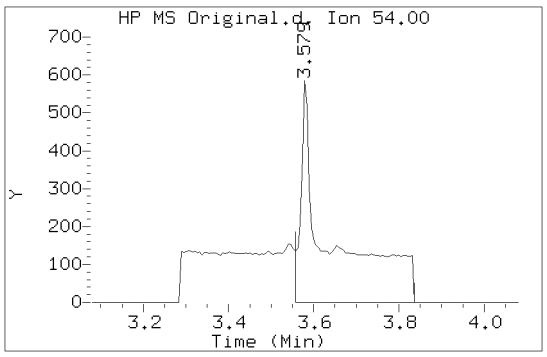
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



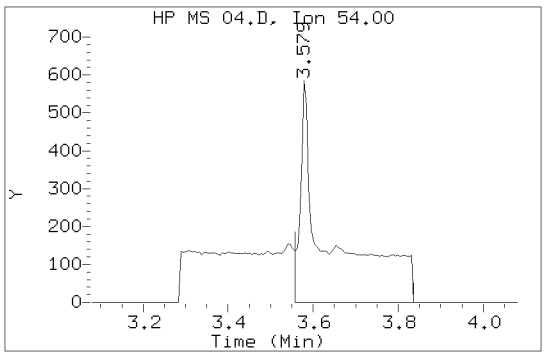
BEFORE

MASS
54
AREA
2634
HEIGHT
585
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
54
AREA
2634
HEIGHT
585
29-Jun-2023
14:26
ALSHS
Ser

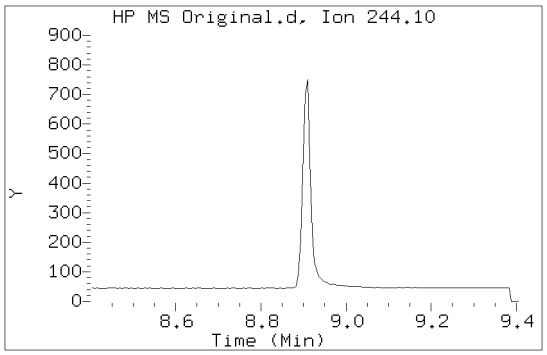


4-Terphenyl-d14 (1718-51-0)

Reason Code:

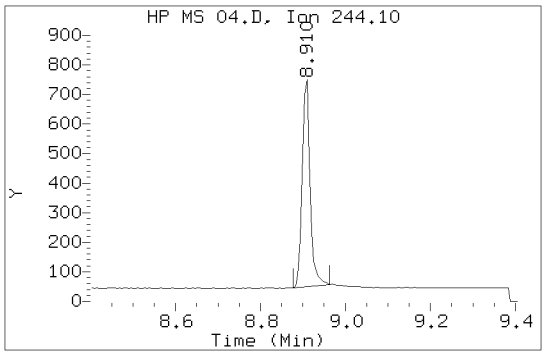
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
244.1
AREA
892
HEIGHT
699
29-Jun-2023
14:26
ALSHS
Ser



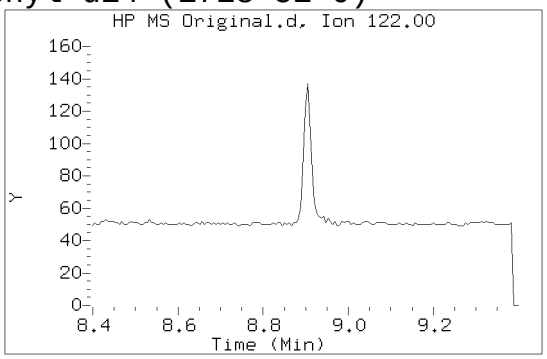
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

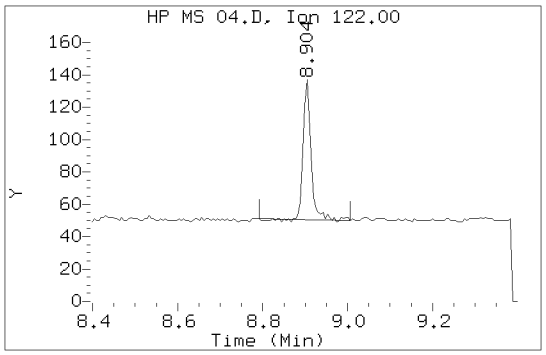
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



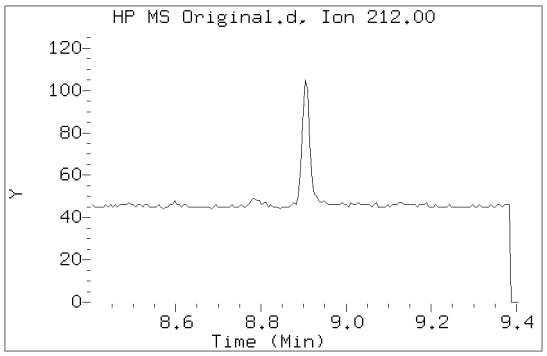
AFTER

MASS
122
AREA
109
HEIGHT
86
29-Jun-2023
14:26
ALSHS
Ser



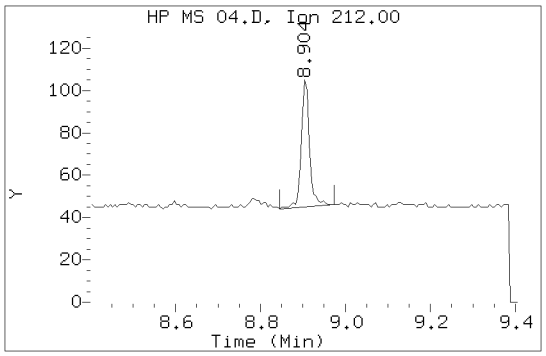
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
212
AREA
80
HEIGHT
60
29-Jun-2023
14:26
ALSHS
Ser

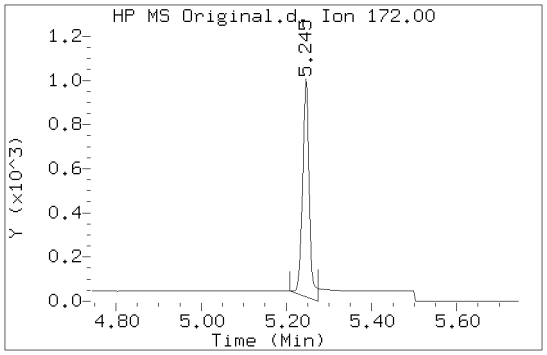


2-Fluorobiphenyl (321-60-8)

Reason Code:

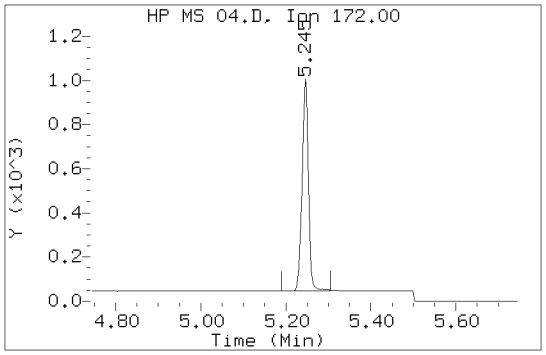
BEFORE

MASS
172
AREA
1093
HEIGHT
986
16-Jun-2023
11:24
ALSHS
Server



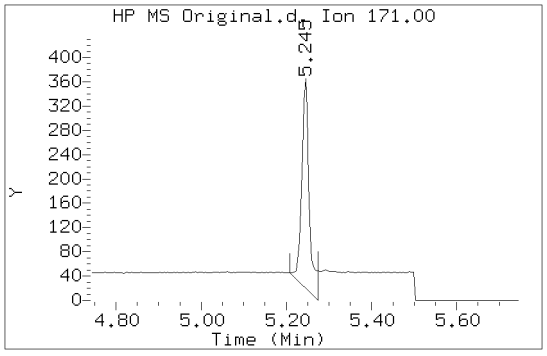
AFTER

MASS
172
AREA
1004
HEIGHT
960
29-Jun-2023
14:26
ALSHS
Ser



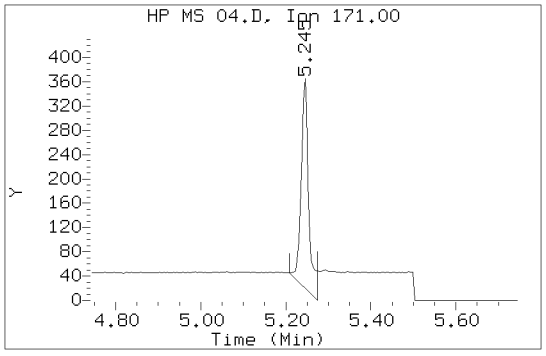
BEFORE

MASS
171
AREA
428
HEIGHT
345
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
171
AREA
428
HEIGHT
345
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Lab Smp Id: 14DXICAL-0.03 Client Smp ID: 14DXICAL-0.03
Inj Date : 16-JUN-2023 11:26
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:08 Cal File: 04.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	4348	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	14672	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	1234	0.03000	0.02782(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	8616	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	2509	0.03000	0.02843(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	16998	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	11821	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.888)	2416	0.03000	0.02800(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	10677	0.10000	(M)
1 1,4-Dioxane	58	1.467	1.467	(0.469)	426	0.03000	0.02909(QM)

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.

01200738

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D

Date : 16-JUN-2023 11:26

Client ID: 14DXICAL-0.03

Instrument: SV6.i

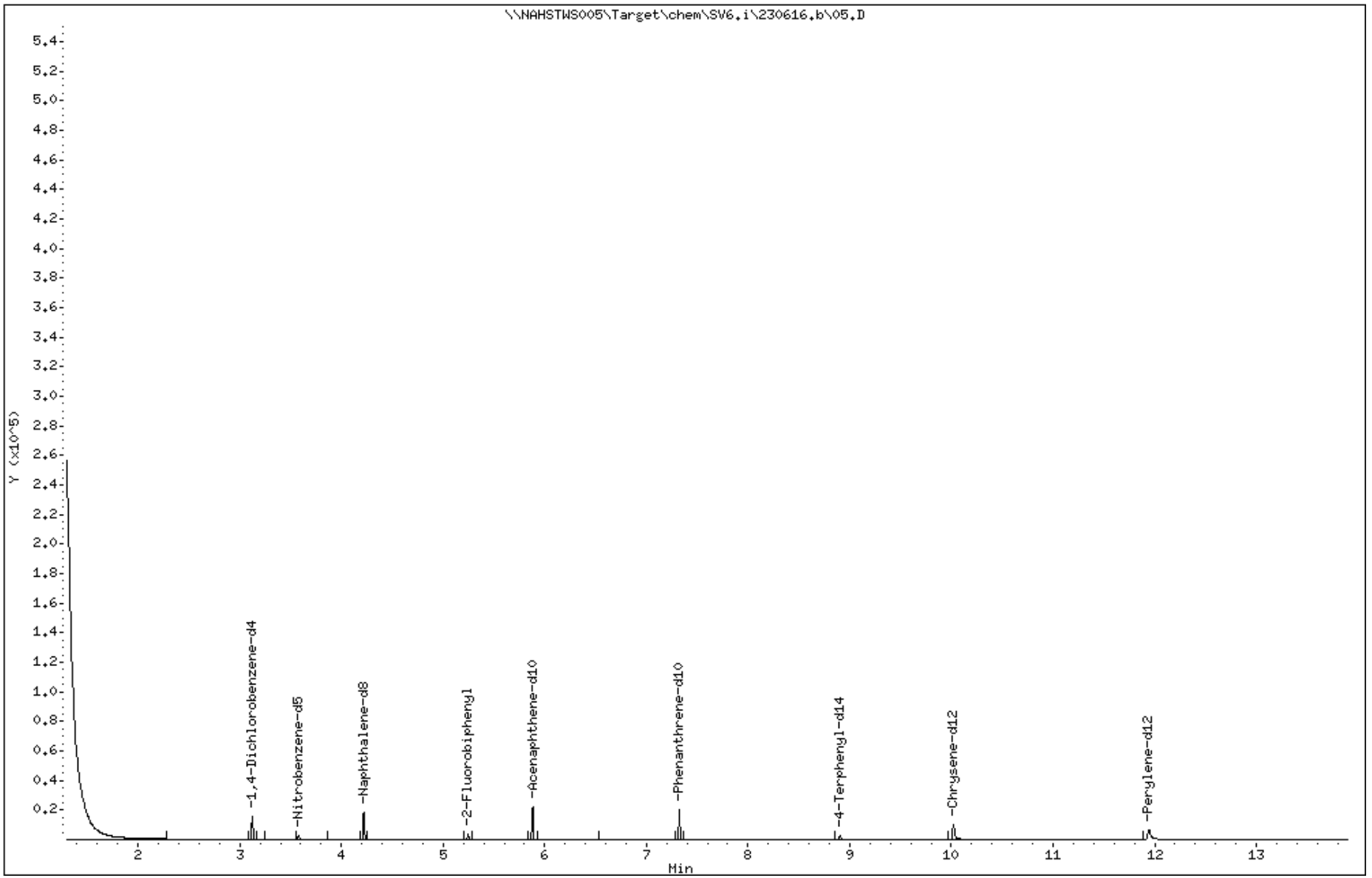
Sample Info: 14DXICAL-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



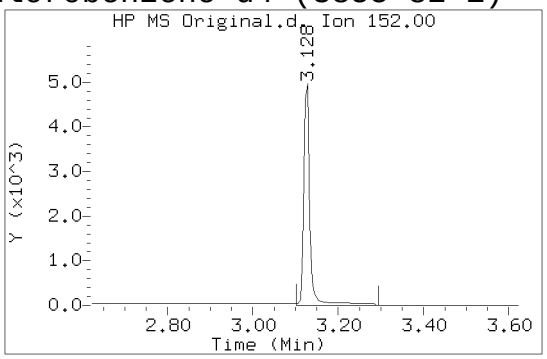
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

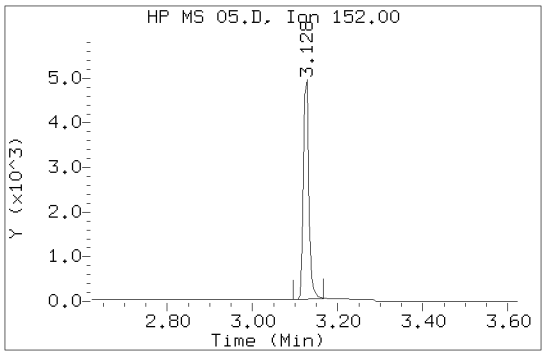
BEFORE

MASS
152
AREA
4935
HEIGHT
4966
16-Jun-2023
11:42
ALSHS
Server



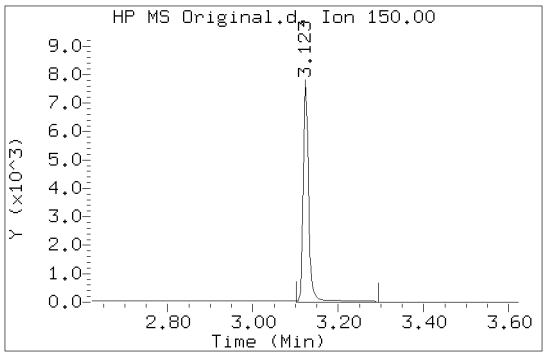
AFTER

MASS
152
AREA
4348
HEIGHT
4916
29-Jun-2023
14:26
ALSHS
Ser



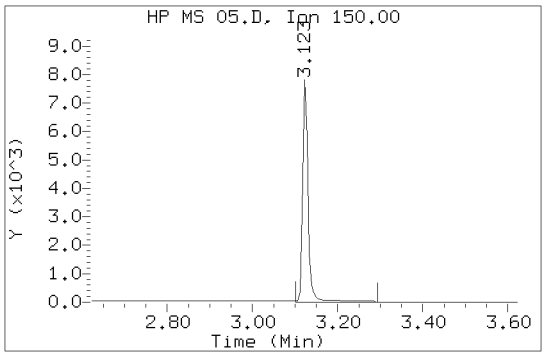
BEFORE

MASS
150
AREA
6954
HEIGHT
7812
16-Jun-2023
11:42
ALSHS
Server



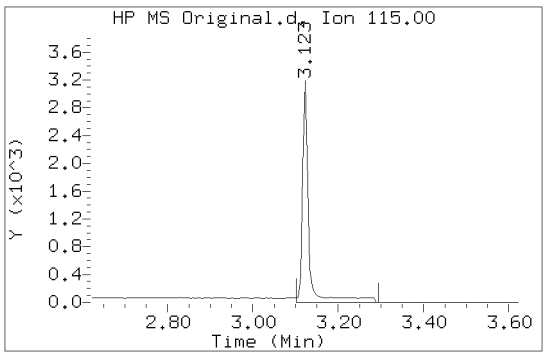
AFTER

MASS
150
AREA
6954
HEIGHT
7812
29-Jun-2023
14:26
ALSHS
Ser



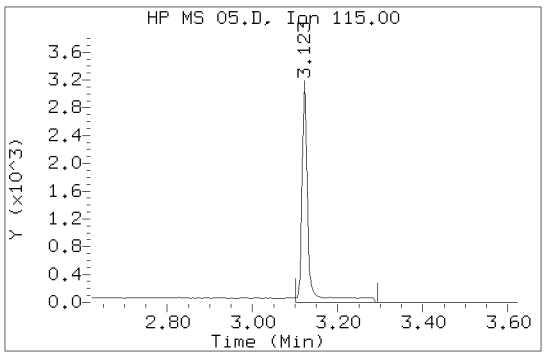
BEFORE

MASS
115
AREA
3189
HEIGHT
3190
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
115
AREA
3189
HEIGHT
3190
29-Jun-2023
14:26
ALSHS
Ser

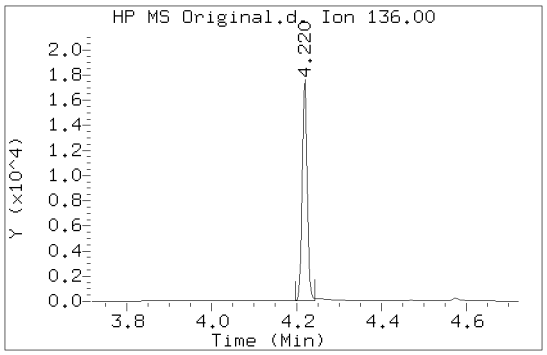


Naphthalene-d8 (1146-65-2)

Reason Code:

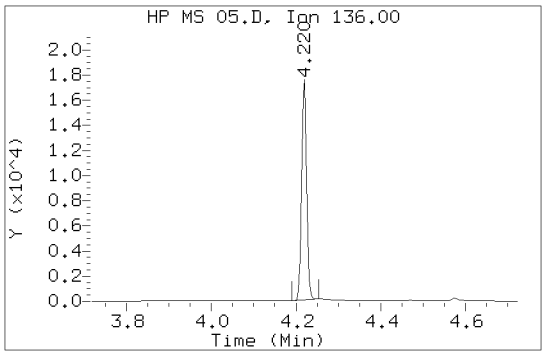
BEFORE

MASS
136
AREA
14851
HEIGHT
17567
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
136
AREA
14672
HEIGHT
17505
29-Jun-2023
14:26
ALSHS
Ser



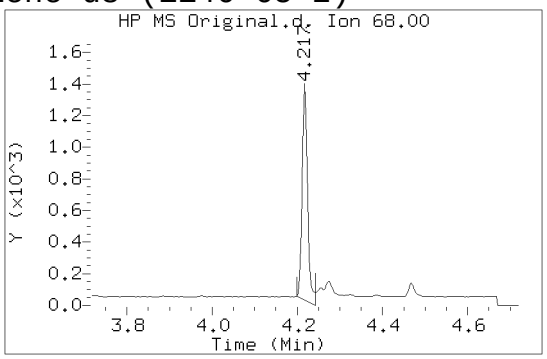
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

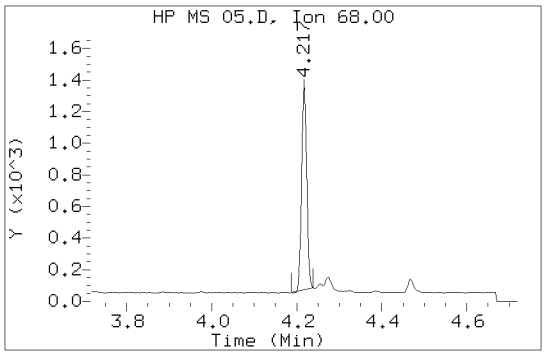
BEFORE

MASS
68
AREA
1196
HEIGHT
1368
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
68
AREA
1062
HEIGHT
1328
29-Jun-2023
14:26
ALSHS
Ser

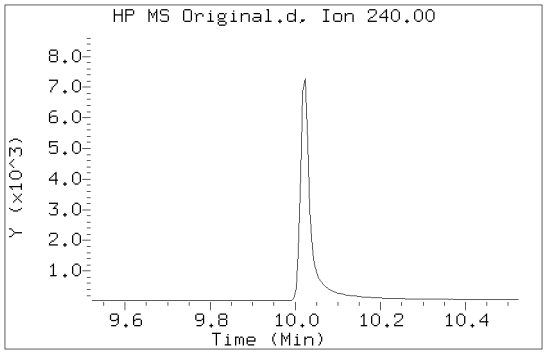


Chrysene-d12 (1719-03-5)

Reason Code:

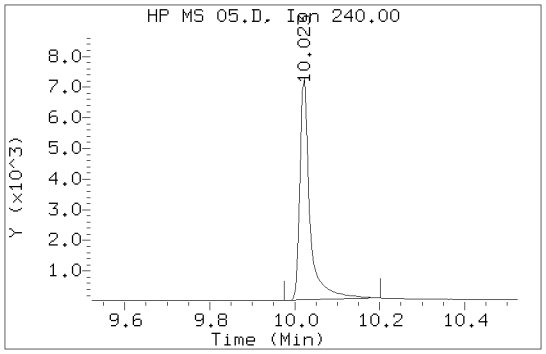
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



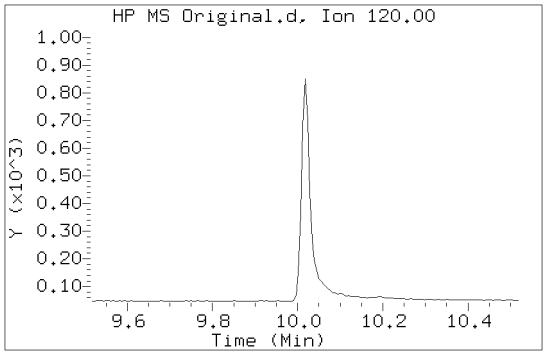
AFTER

MASS
240
AREA
11821
HEIGHT
7215
29-Jun-2023
14:26
ALSHS
Ser



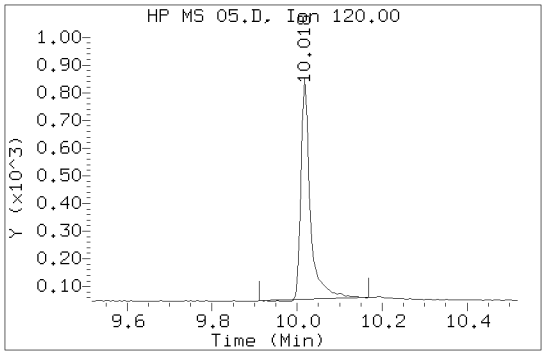
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



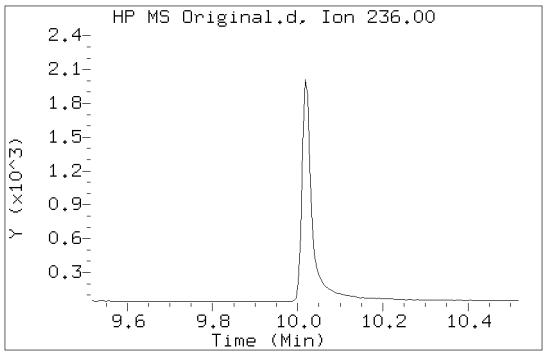
AFTER

MASS
120
AREA
1207
HEIGHT
796
29-Jun-2023
14:26
ALSHS
Ser



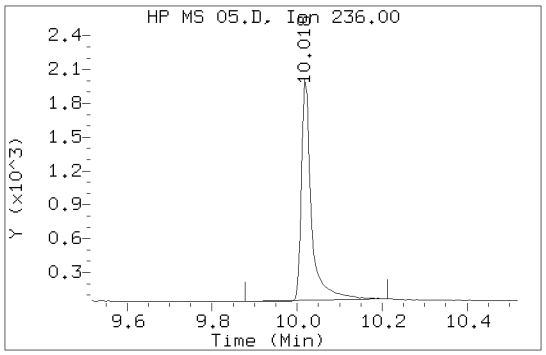
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
236
AREA
3185
HEIGHT
1956
29-Jun-2023
14:26
ALSHS
Ser



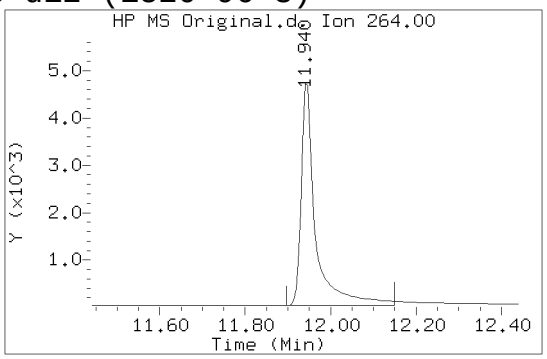
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

Perylene-d12 (1520-96-3)

Reason Code:

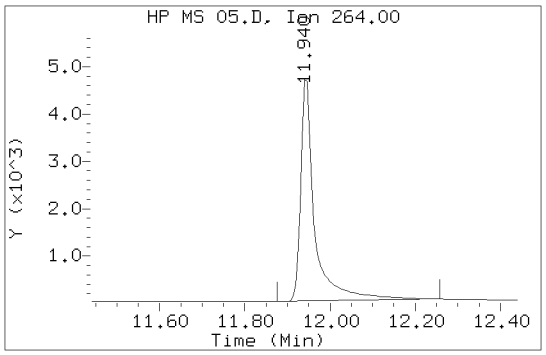
BEFORE

MASS
264
AREA
10829
HEIGHT
4681
16-Jun-2023
11:42
ALSHS
Server



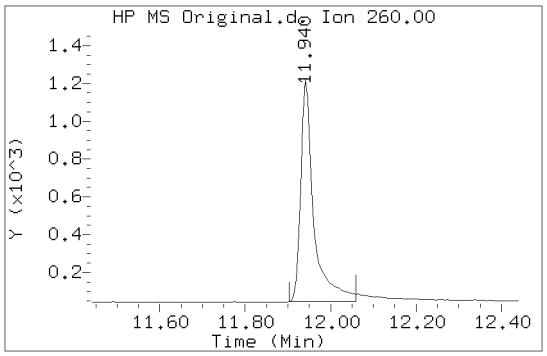
AFTER

MASS
264
AREA
10677
HEIGHT
4673
29-Jun-2023
14:26
ALSHS
Ser



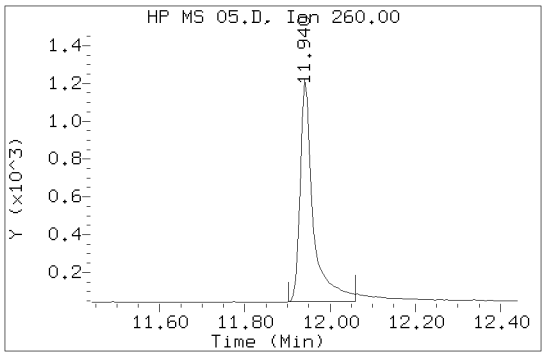
BEFORE

MASS
260
AREA
2488
HEIGHT
1174
16-Jun-2023
11:42
ALSHS
Server



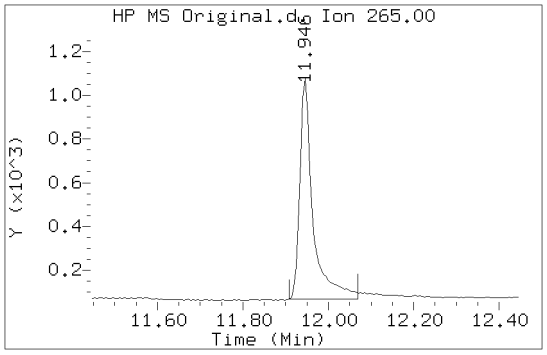
AFTER

MASS
260
AREA
2488
HEIGHT
1174
29-Jun-2023
14:26
ALSHS
Ser



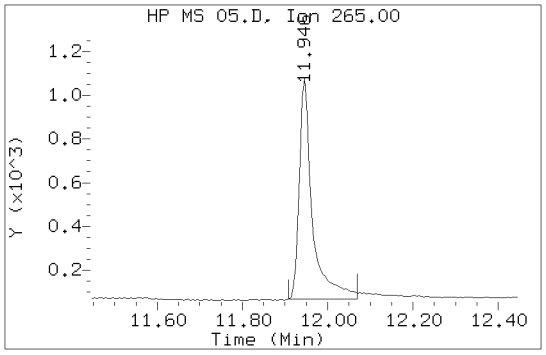
BEFORE

MASS
265
AREA
2154
HEIGHT
1009
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
265
AREA
2154
HEIGHT
1009
29-Jun-2023
14:26
ALSHS
Ser

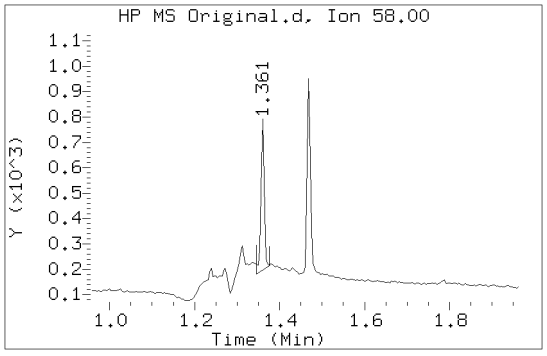


1,4-Dioxane ()

Reason Code:

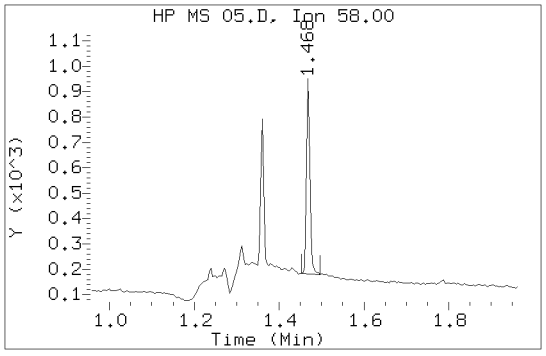
BEFORE

MASS
58
AREA
319
HEIGHT
594
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
58
AREA
426
HEIGHT
768
29-Jun-2023
14:26
ALSHS
Ser



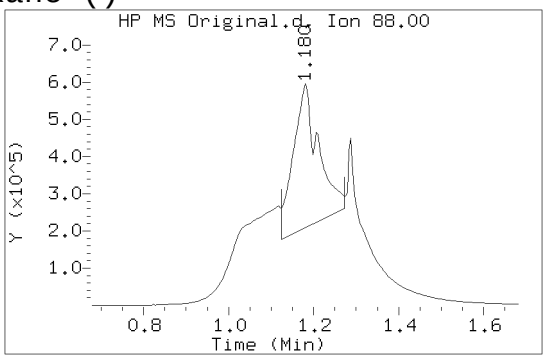
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Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

1,4-Dioxane ()

Reason Code:

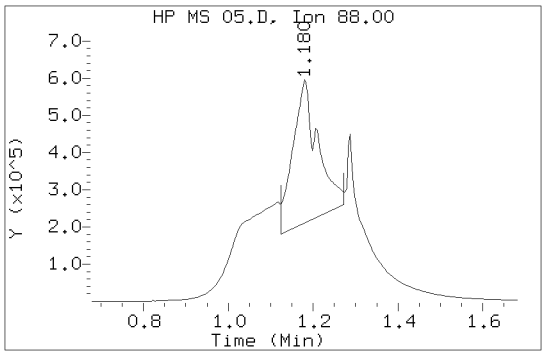
BEFORE

MASS
88
AREA
1599767
HEIGHT
386587
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
88
AREA
1591467
HEIGHT
385442
29-Jun-2023
14:26
ALSHS
Ser

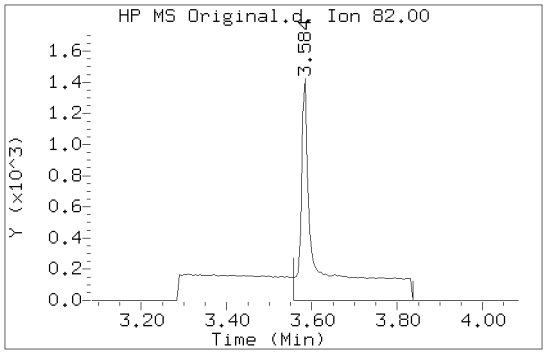


Nitrobenzene-d5 (4165-60-0)

Reason Code:

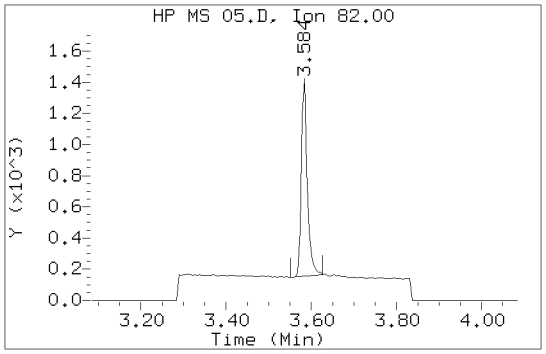
BEFORE

MASS
82
AREA
3739
HEIGHT
1423
16-Jun-2023
11:42
ALSHS
Server



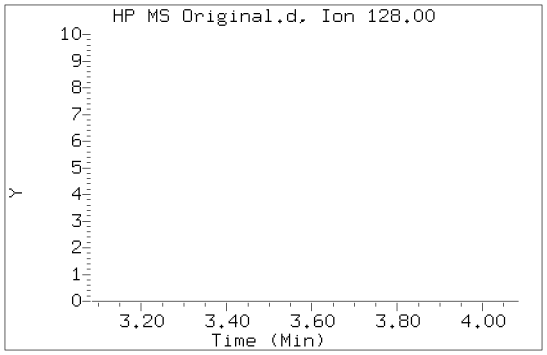
AFTER

MASS
82
AREA
1234
HEIGHT
1266
29-Jun-2023
14:26
ALSHS
Ser



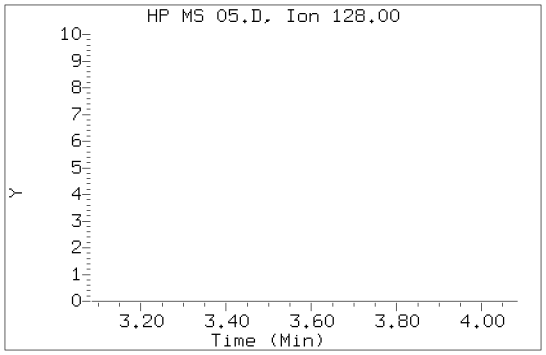
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



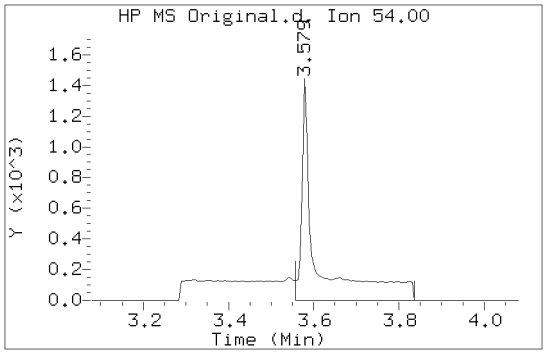
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



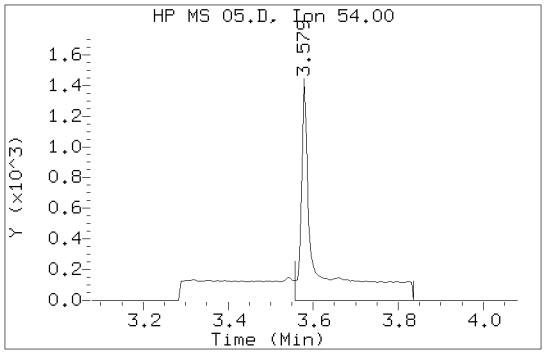
BEFORE

MASS
54
AREA
3364
HEIGHT
1444
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
54
AREA
3364
HEIGHT
1444
29-Jun-2023
14:26
ALSHS
Ser



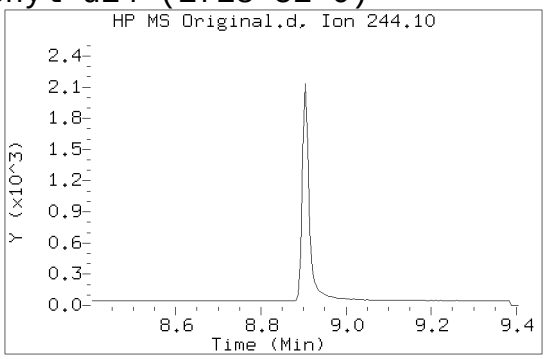
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

4-Terphenyl-d14 (1718-51-0)

Reason Code:

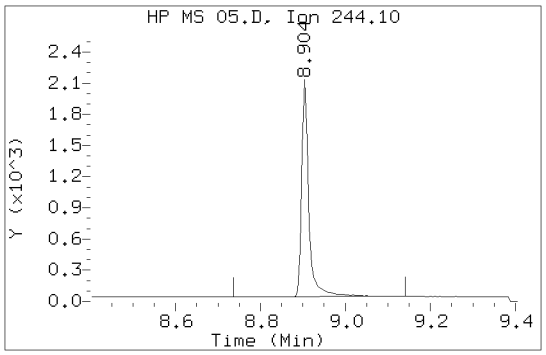
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



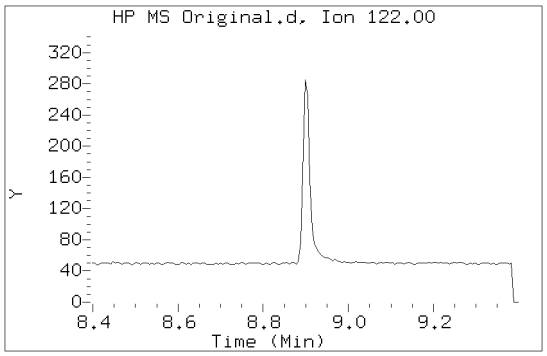
AFTER

MASS
244.1
AREA
2416
HEIGHT
2087
29-Jun-2023
14:26
ALSHS
Ser



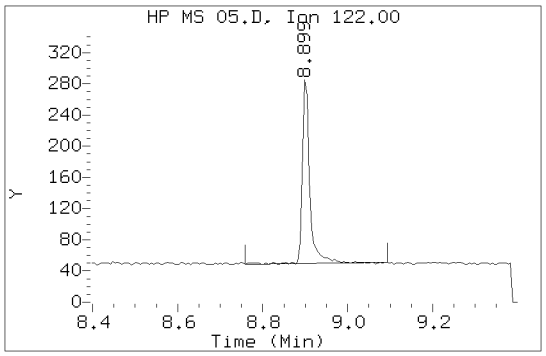
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



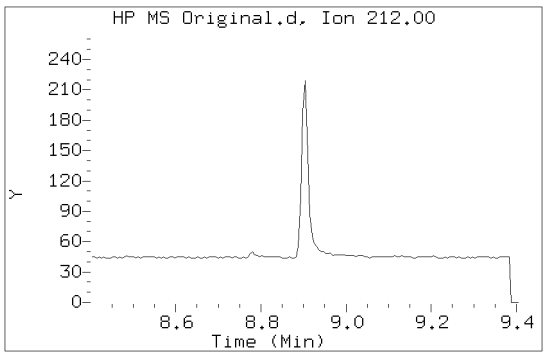
AFTER

MASS
122
AREA
278
HEIGHT
235
29-Jun-2023
14:26
ALSHS
Ser



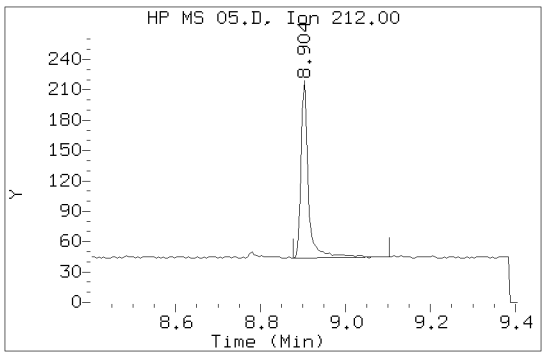
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
212
AREA
205
HEIGHT
174
29-Jun-2023
14:26
ALSHS
Ser

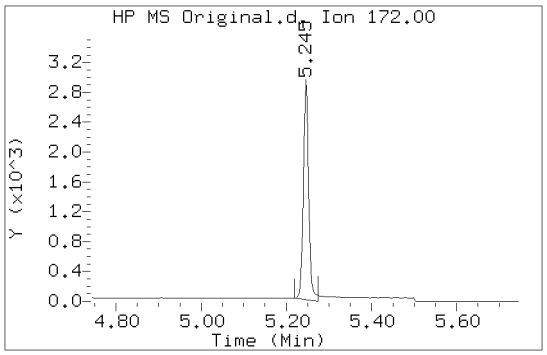


2-Fluorobiphenyl (321-60-8)

Reason Code:

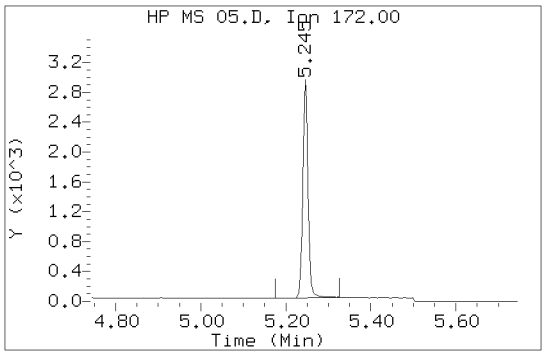
BEFORE

MASS
172
AREA
2588
HEIGHT
2943
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
172
AREA
2509
HEIGHT
2918
29-Jun-2023
14:26
ALSHS
Ser



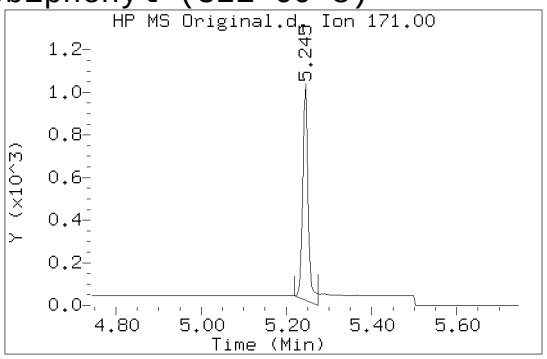
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Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

2-Fluorobiphenyl (321-60-8)

Reason Code:

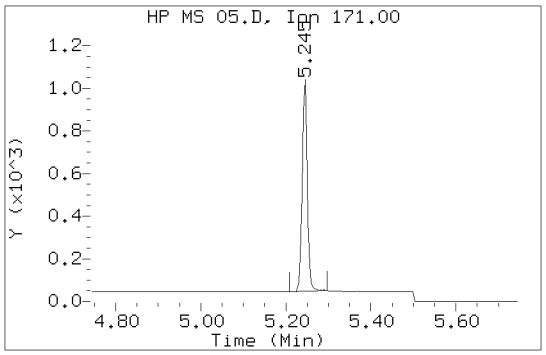
BEFORE

MASS
171
AREA
921
HEIGHT
1017
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
171
AREA
834
HEIGHT
993
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Lab Smp Id: 14DXICAL-0.05 Client Smp ID: 14DXICAL-0.05
Inj Date : 16-JUN-2023 11:44
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:26 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	5073	0.10000	(a)
* 45 Naphthalene-d8	136	4.216	4.216	(1.000)	17044	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.850)	2574	0.05000	0.04995(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10027	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	4907	0.05000	0.04778(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	19800	0.10000	
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	14524	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	4687	0.05000	0.04422(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	12549	0.10000	(M)
1 1,4-Dioxane	58	1.486	1.486	(0.475)	828	0.05000	0.04846(QM)

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.

01200746

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D

Date : 16-JUN-2023 11:44

Client ID: 14DXICAL-0.05

Instrument: SV6.i

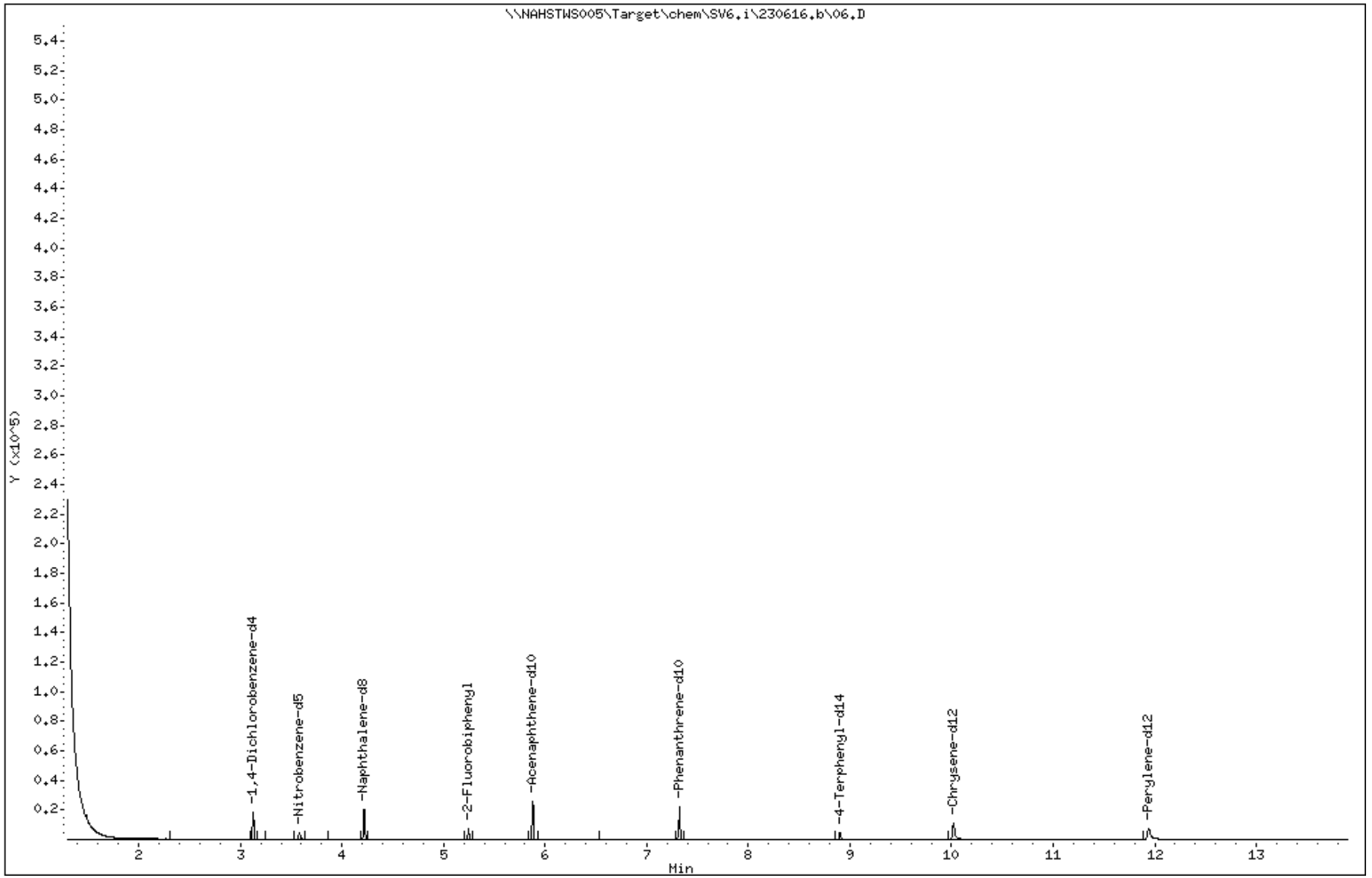
Sample Info: 14DXICAL-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



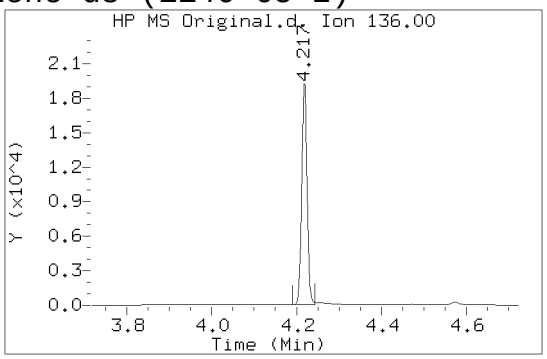
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Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

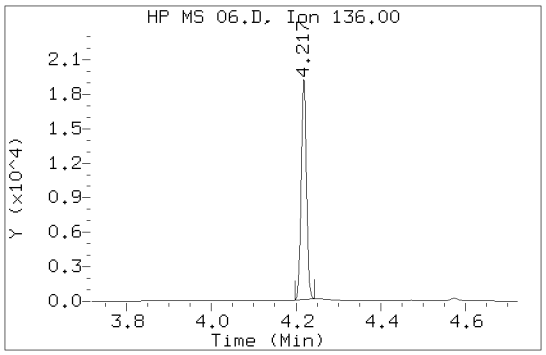
BEFORE

MASS
136
AREA
17378
HEIGHT
19211
16-Jun-2023
11:59
ALSHS
Server



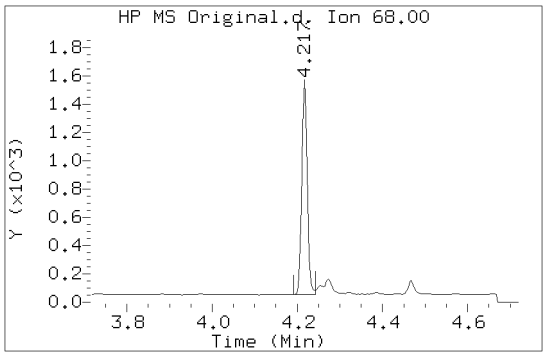
AFTER

MASS
136
AREA
17044
HEIGHT
19106
29-Jun-2023
14:26
ALSHS
Ser



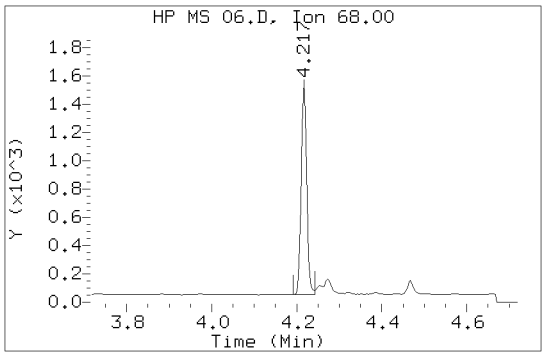
BEFORE

MASS
68
AREA
1330
HEIGHT
1515
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
68
AREA
1330
HEIGHT
1515
29-Jun-2023
14:26
ALSHS
Ser

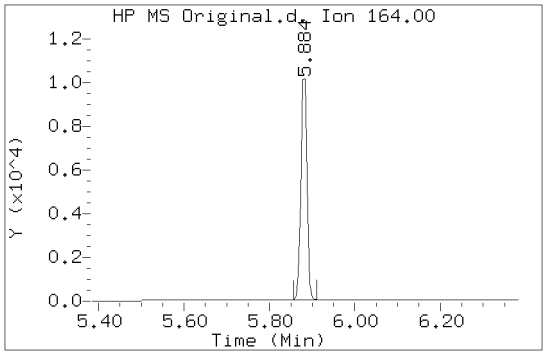


Acenaphthene-d10 (15067-26-2)

Reason Code:

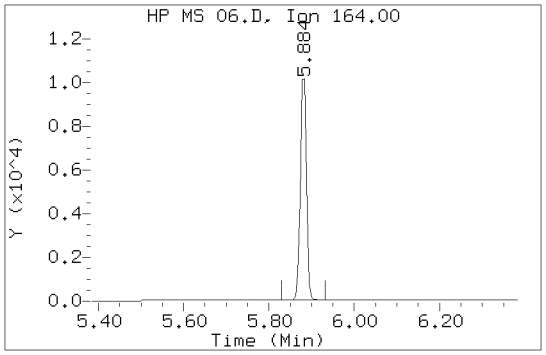
BEFORE

MASS
164
AREA
9969
HEIGHT
10109
16-Jun-2023
11:59
ALSHS
Server



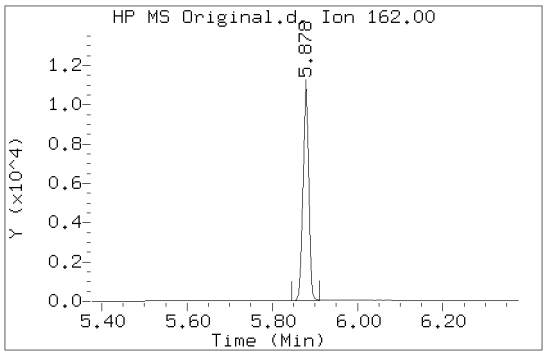
AFTER

MASS
164
AREA
10027
HEIGHT
10124
29-Jun-2023
14:26
ALSHS
Ser



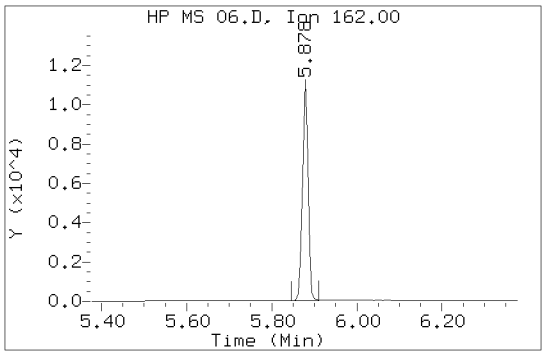
BEFORE

MASS
162
AREA
10122
HEIGHT
11230
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
162
AREA
10122
HEIGHT
11230
29-Jun-2023
14:26
ALSHS
Ser



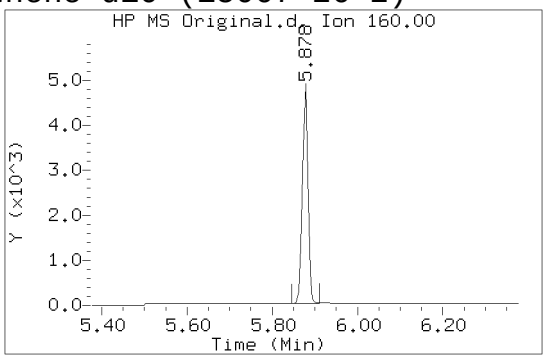
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Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Acenaphthene-d10 (15067-26-2)

Reason Code:

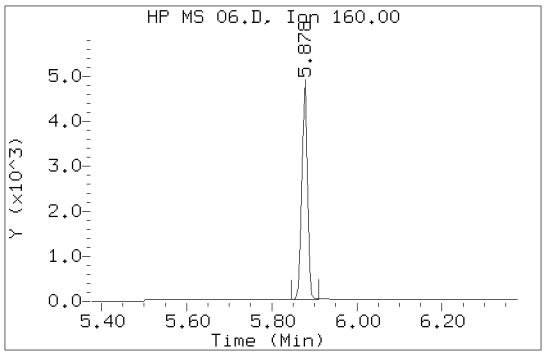
BEFORE

MASS
160
AREA
4359
HEIGHT
4881
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
160
AREA
4359
HEIGHT
4881
29-Jun-2023
14:26
ALSHS
Ser

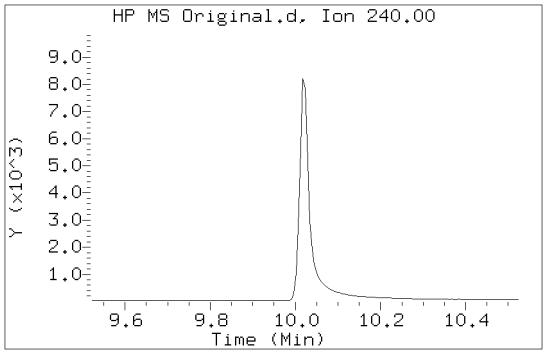


Chrysene-d12 (1719-03-5)

Reason Code:

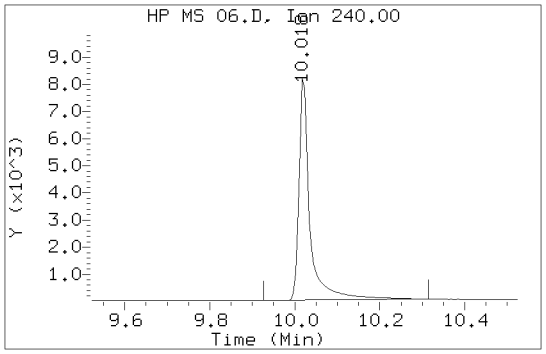
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



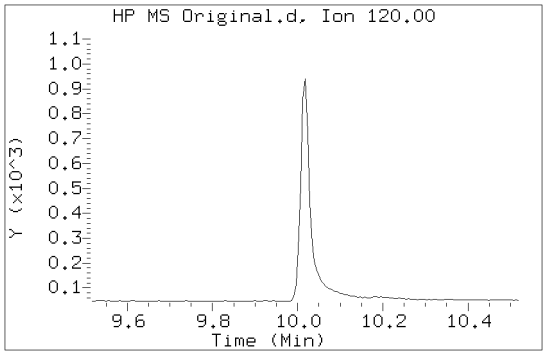
AFTER

MASS
240
AREA
14524
HEIGHT
8152
29-Jun-2023
14:26
ALSHS
Ser



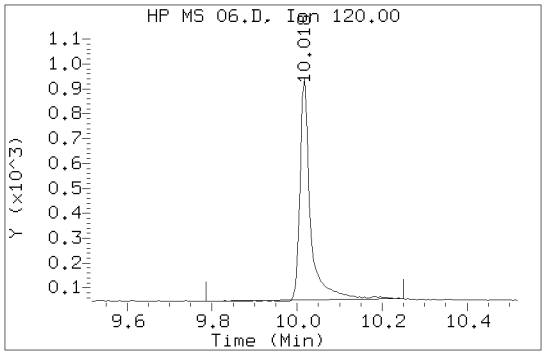
BEFORE

MASS
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AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



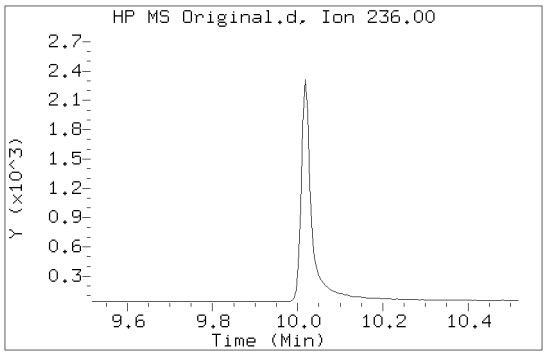
AFTER

MASS
120
AREA
1511
HEIGHT
888
29-Jun-2023
14:26
ALSHS
Ser



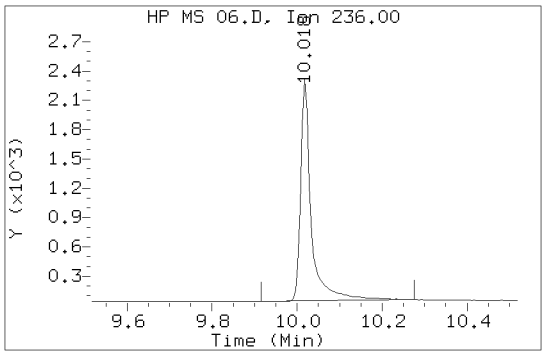
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
236
AREA
3903
HEIGHT
2262
29-Jun-2023
14:26
ALSHS
Ser



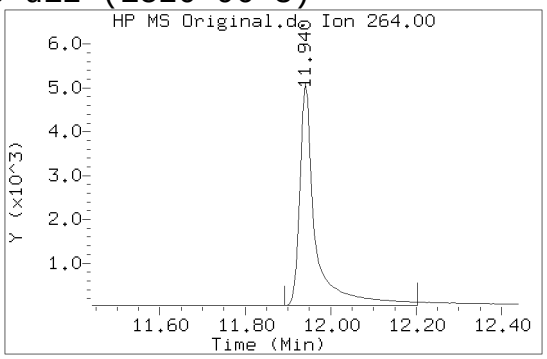
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Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Perylene-d12 (1520-96-3)

Reason Code:

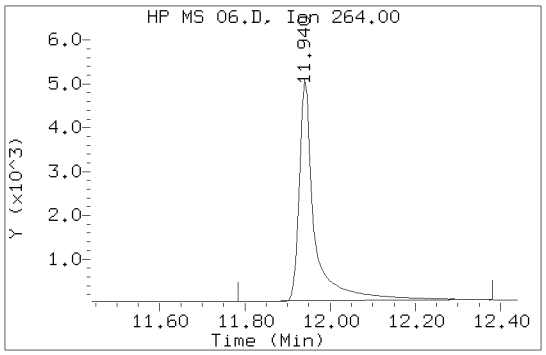
BEFORE

MASS
264
AREA
12686
HEIGHT
5050
16-Jun-2023
11:59
ALSHS
Server



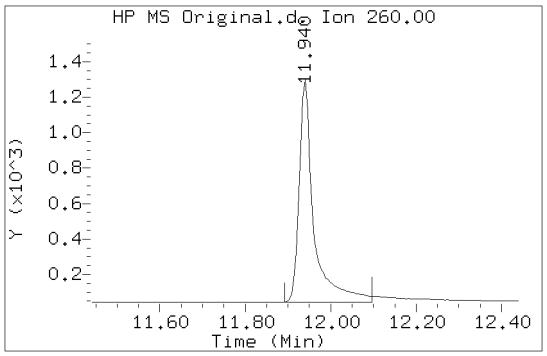
AFTER

MASS
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AREA
12549
HEIGHT
5041
29-Jun-2023
14:26
ALSHS
Ser



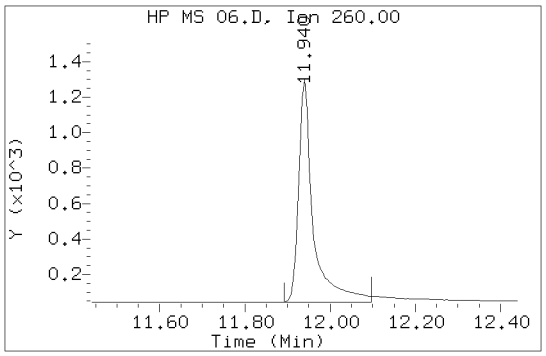
BEFORE

MASS
260
AREA
2978
HEIGHT
1253
16-Jun-2023
11:59
ALSHS
Server



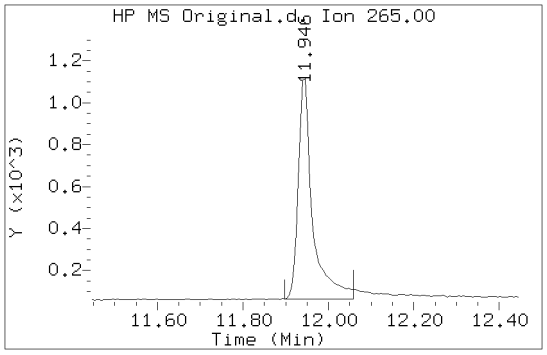
AFTER

MASS
260
AREA
2978
HEIGHT
1253
29-Jun-2023
14:26
ALSHS
Ser



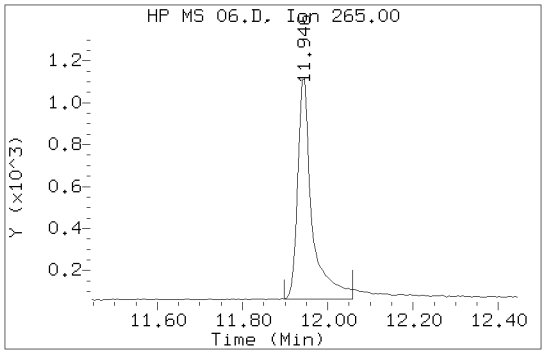
BEFORE

MASS
265
AREA
2473
HEIGHT
1053
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
265
AREA
2473
HEIGHT
1053
29-Jun-2023
14:26
ALSHS
Ser

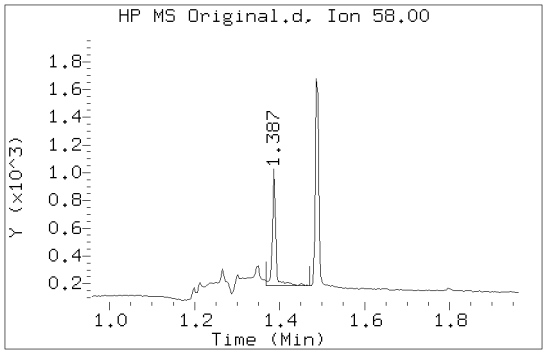


1,4-Dioxane ()

Reason Code:

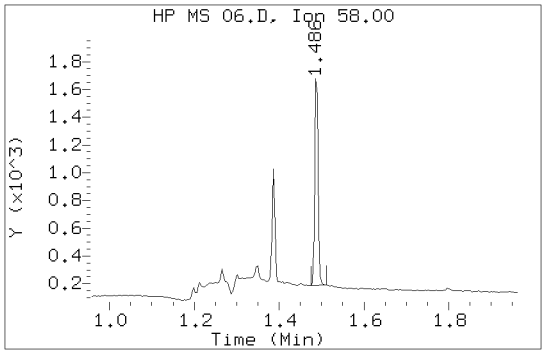
BEFORE

MASS
58
AREA
474
HEIGHT
839
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
58
AREA
828
HEIGHT
1488
29-Jun-2023
14:26
ALSHS
Ser



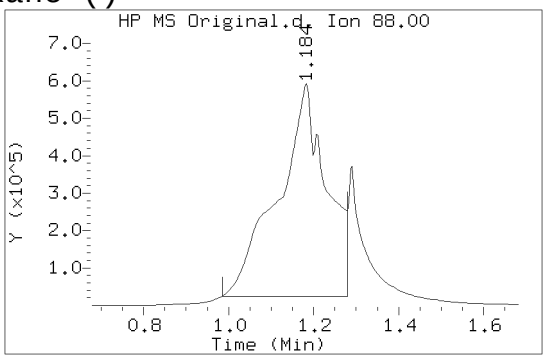
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

1,4-Dioxane ()

Reason Code:

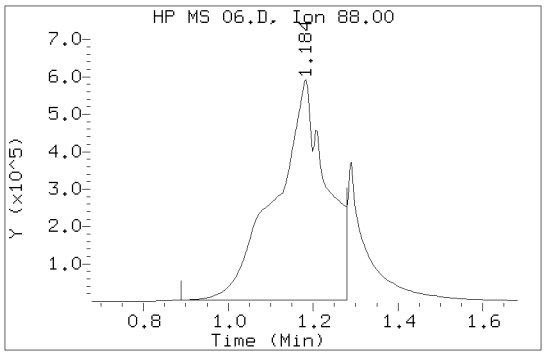
BEFORE

MASS
88
AREA
4490753
HEIGHT
567696
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
88
AREA
4905096
HEIGHT
589066
29-Jun-2023
14:26
ALSHS
Ser

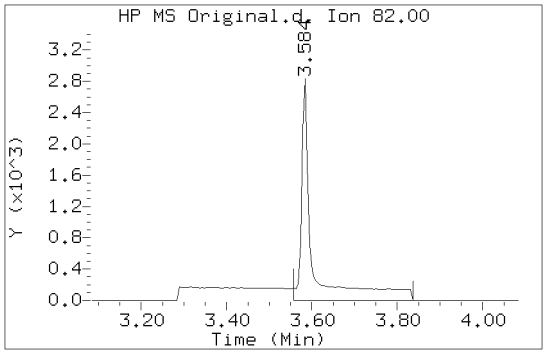


Nitrobenzene-d5 (4165-60-0)

Reason Code:

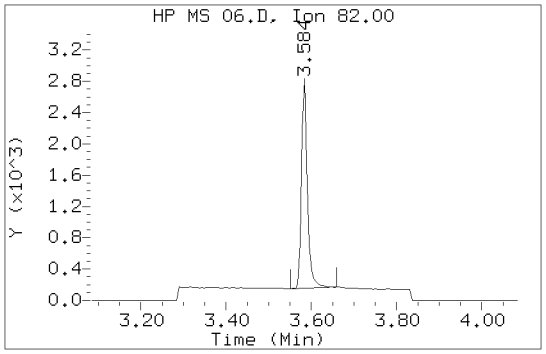
BEFORE

MASS
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AREA
5121
HEIGHT
2833
16-Jun-2023
11:59
ALSHS
Server



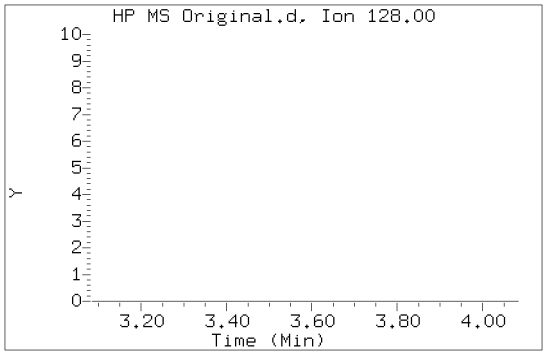
AFTER

MASS
82
AREA
2574
HEIGHT
2676
29-Jun-2023
14:26
ALSHS
Ser



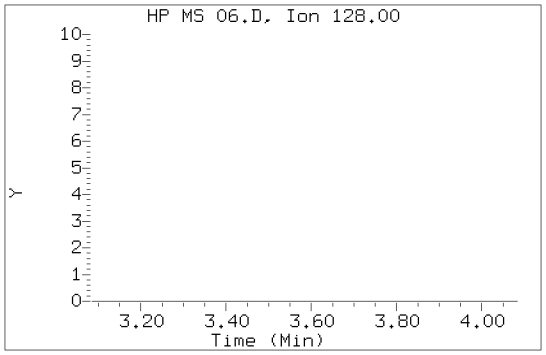
BEFORE

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AREA
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HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



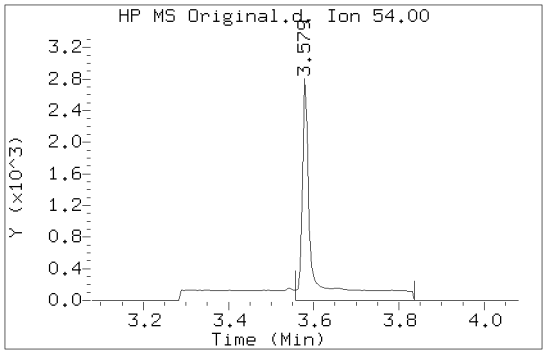
AFTER

MASS
128
AREA
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HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



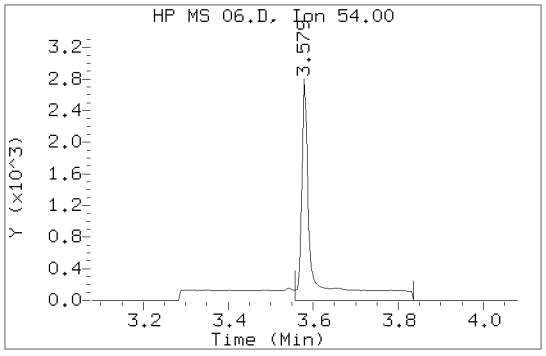
BEFORE

MASS
54
AREA
4709
HEIGHT
2805
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
54
AREA
4709
HEIGHT
2805
29-Jun-2023
14:26
ALSHS
Ser



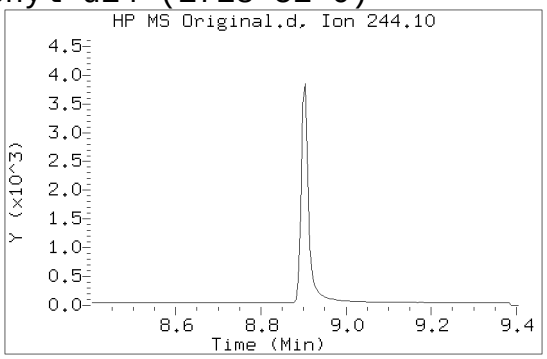
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

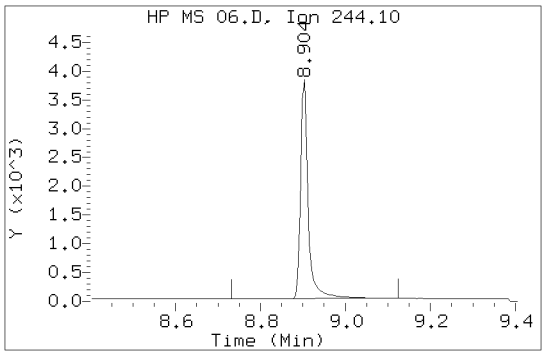
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



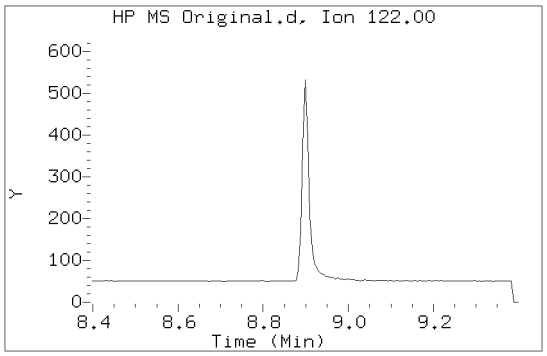
AFTER

MASS
244.1
AREA
4687
HEIGHT
3802
29-Jun-2023
14:26
ALSHS
Ser



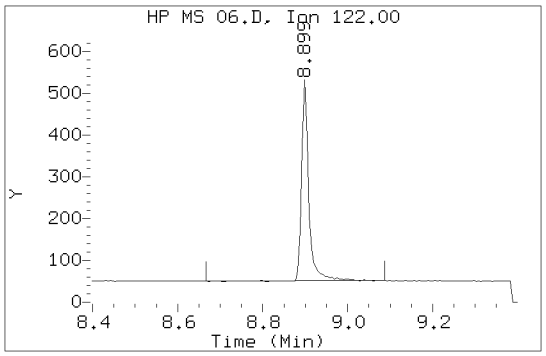
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



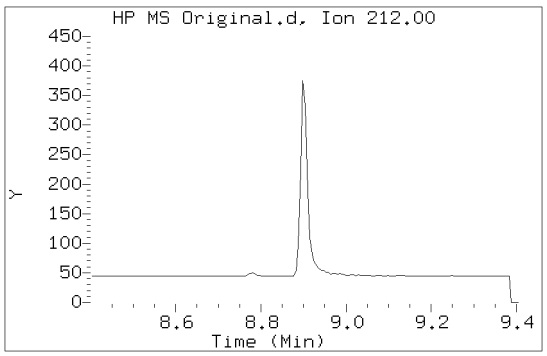
AFTER

MASS
122
AREA
540
HEIGHT
480
29-Jun-2023
14:26
ALSHS
Ser



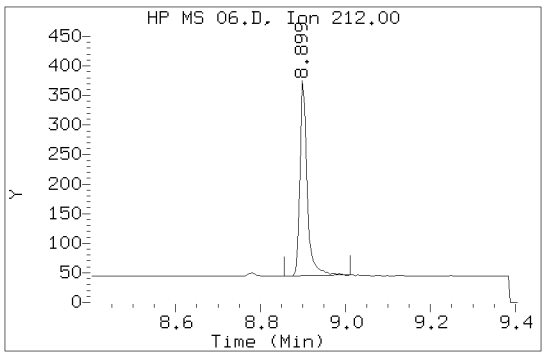
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
212
AREA
383
HEIGHT
330
29-Jun-2023
14:26
ALSHS
Ser

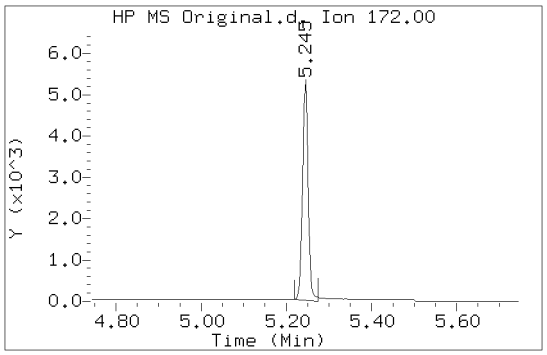


2-Fluorobiphenyl (321-60-8)

Reason Code:

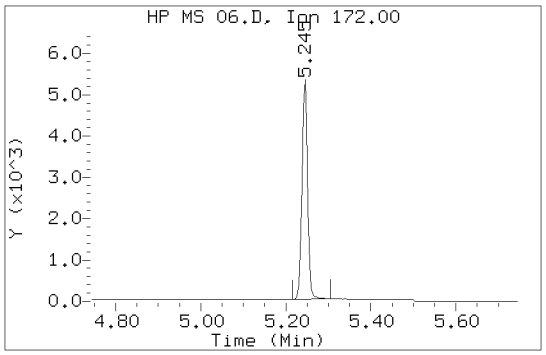
BEFORE

MASS
172
AREA
4989
HEIGHT
5338
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
172
AREA
4907
HEIGHT
5312
29-Jun-2023
14:26
ALSHS
Ser



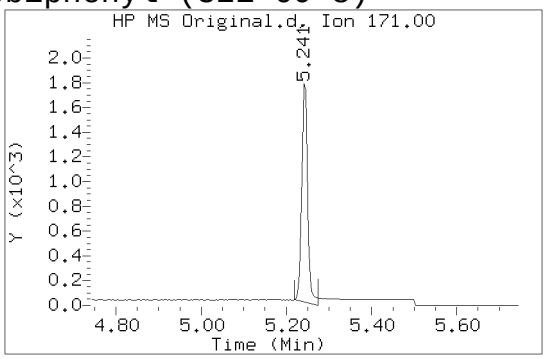
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

2-Fluorobiphenyl (321-60-8)

Reason Code:

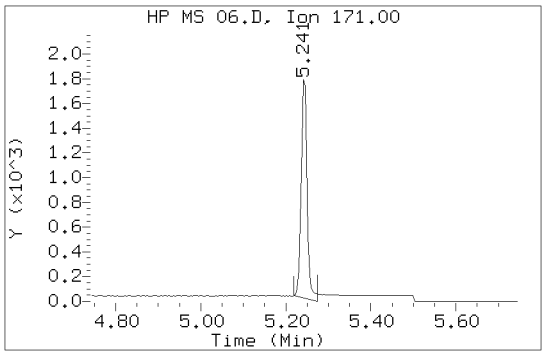
BEFORE

MASS
171
AREA
1727
HEIGHT
1764
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
171
AREA
1727
HEIGHT
1764
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Lab Smp Id: 14DXICAL-0.08 Client Smp ID: 14DXICAL-0.08
Inj Date : 16-JUN-2023 12:02
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:44 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	4590	0.10000	(a)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	15619	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	4012	0.08000	0.08496(M)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	9075	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	7759	0.08000	0.08348
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	18261	0.10000	
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	12097	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	7185	0.08000	0.08138(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	10759	0.10000	(M)
1 1,4-Dioxane	58	1.482	1.482	(0.474)	1283	0.08000	0.08298(QH)

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.

01200754

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D

Date : 16-JUN-2023 12:02

Client ID: 14DXICAL-0.08

Instrument: SV6.i

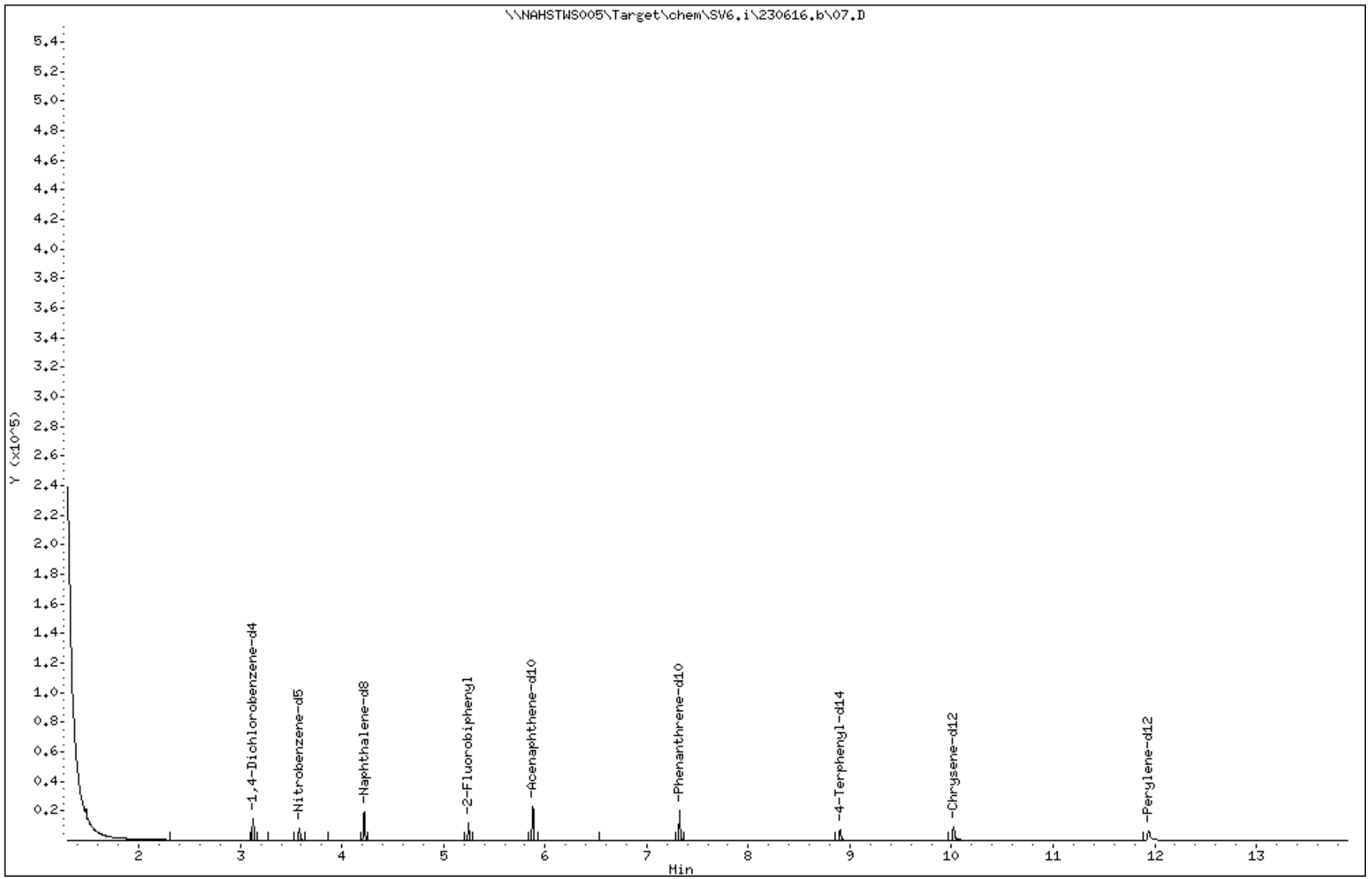
Sample Info: 14DXICAL-0.08

Purge Volume: 1000.0

Operator: LC

Column phase: RTX-5SIL MS

Column diameter: 0.28



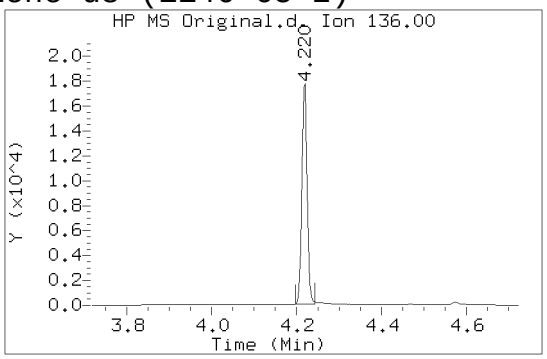
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

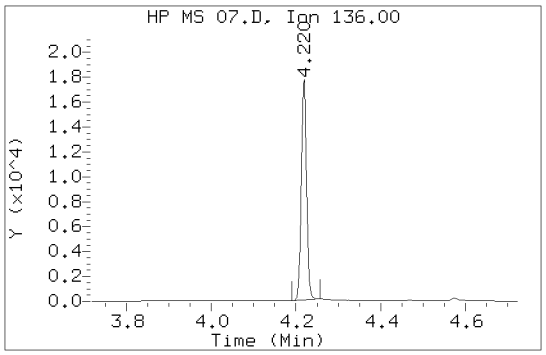
BEFORE

MASS
136
AREA
15744
HEIGHT
17718
16-Jun-2023
12:18
ALSHS
Server



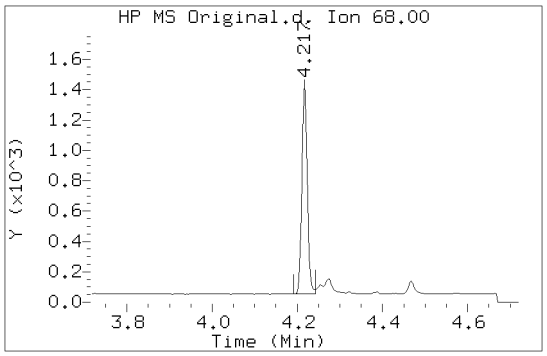
AFTER

MASS
136
AREA
15619
HEIGHT
17670
29-Jun-2023
14:26
ALSHS
Ser



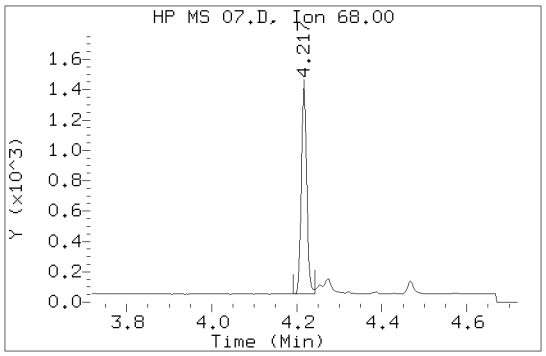
BEFORE

MASS
68
AREA
1209
HEIGHT
1411
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
68
AREA
1209
HEIGHT
1411
29-Jun-2023
14:26
ALSHS
Ser

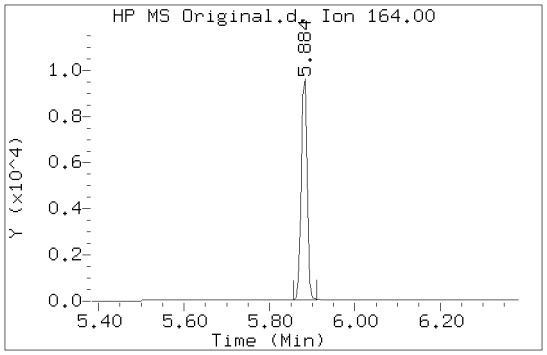


Acenaphthene-d10 (15067-26-2)

Reason Code:

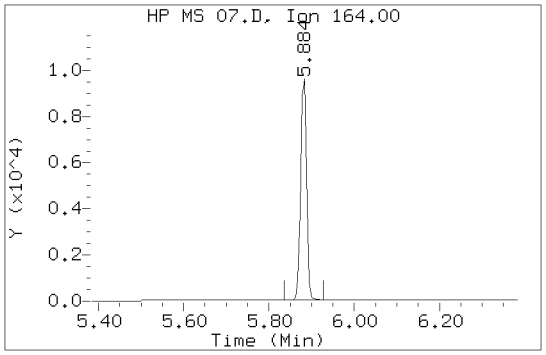
BEFORE

MASS
164
AREA
9060
HEIGHT
9568
16-Jun-2023
12:18
ALSHS
Server



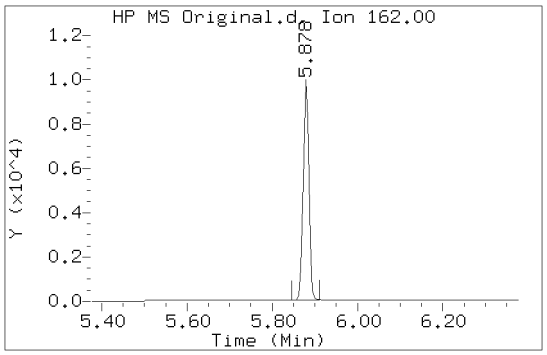
AFTER

MASS
164
AREA
9075
HEIGHT
9571
29-Jun-2023
14:26
ALSHS
Ser



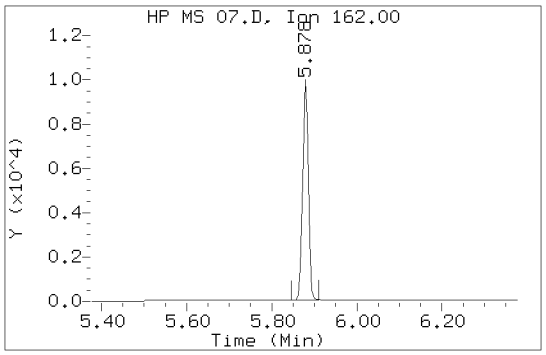
BEFORE

MASS
162
AREA
9173
HEIGHT
9961
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
162
AREA
9173
HEIGHT
9961
29-Jun-2023
14:26
ALSHS
Ser



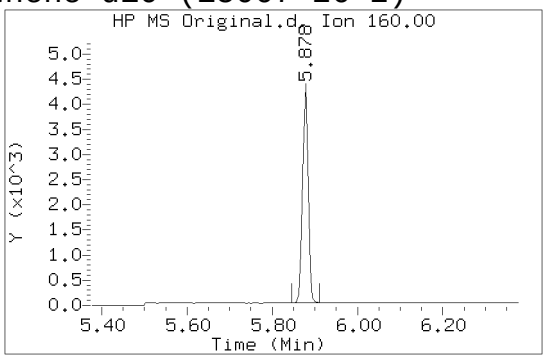
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

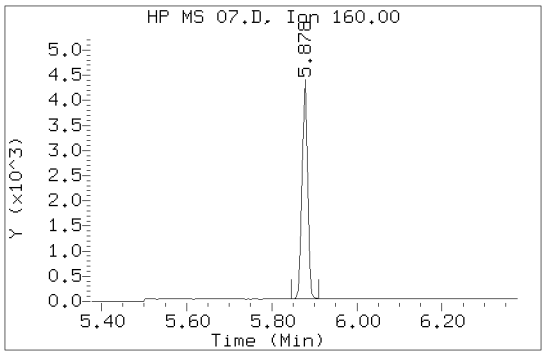
BEFORE

MASS
160
AREA
3928
HEIGHT
4365
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
160
AREA
3928
HEIGHT
4365
29-Jun-2023
14:26
ALSHS
Ser

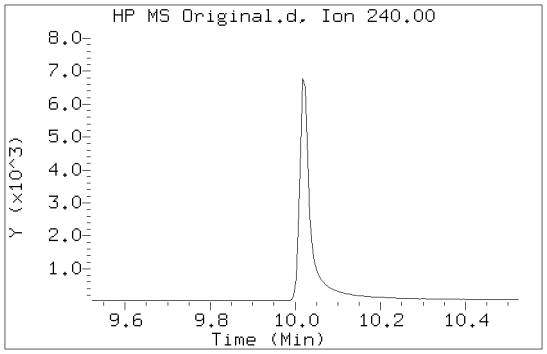


Chrysene-d12 (1719-03-5)

Reason Code:

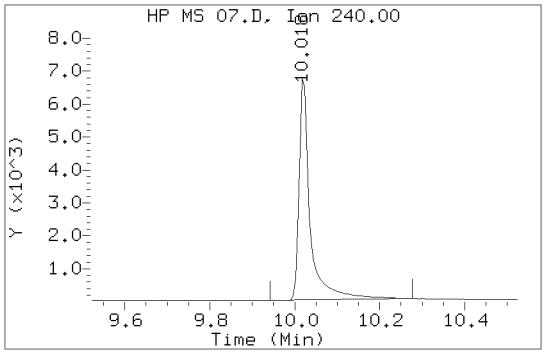
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



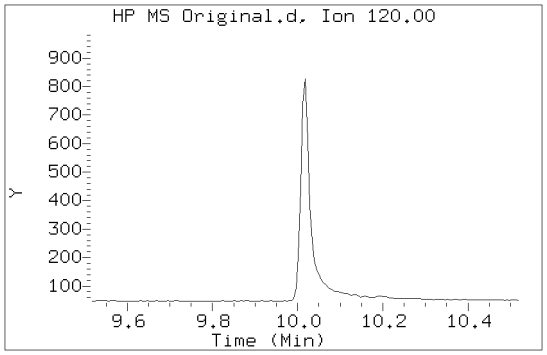
AFTER

MASS
240
AREA
12097
HEIGHT
6713
29-Jun-2023
14:26
ALSHS
Ser



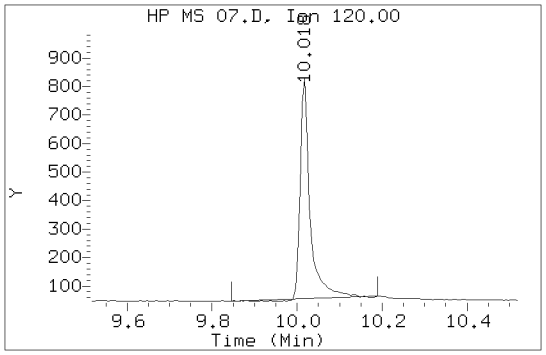
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



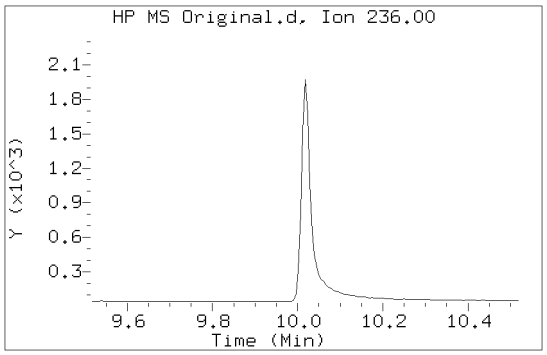
AFTER

MASS
120
AREA
1207
HEIGHT
771
29-Jun-2023
14:26
ALSHS
Ser



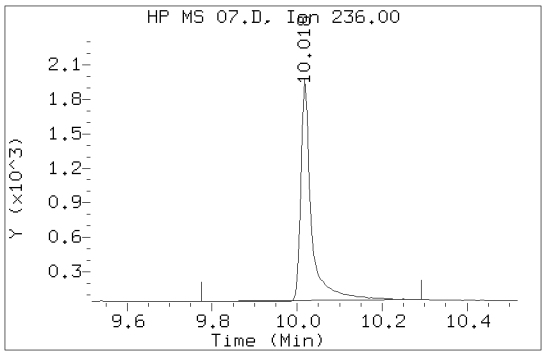
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
236
AREA
3279
HEIGHT
1919
29-Jun-2023
14:26
ALSHS
Ser



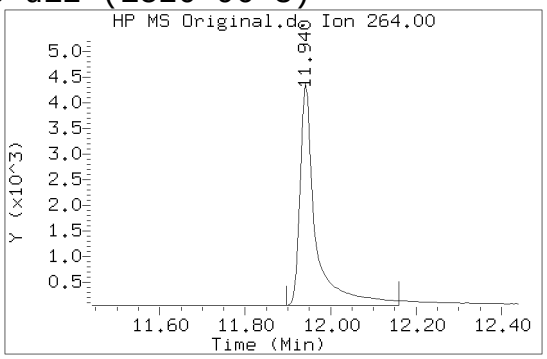
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Perylene-d12 (1520-96-3)

Reason Code:

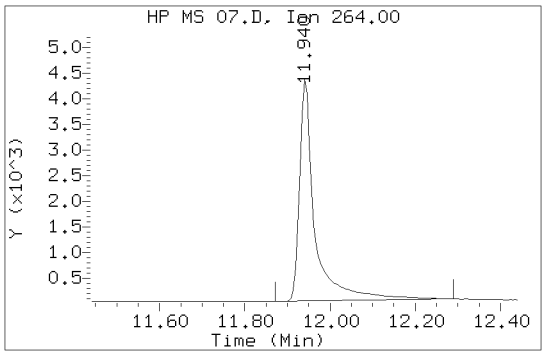
BEFORE

MASS
264
AREA
10879
HEIGHT
4324
16-Jun-2023
12:18
ALSHS
Server



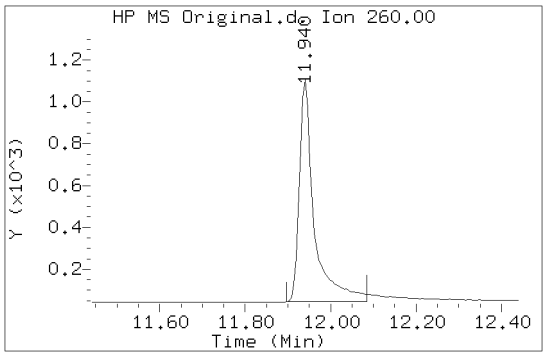
AFTER

MASS
264
AREA
10759
HEIGHT
4317
29-Jun-2023
14:26
ALSHS
Ser



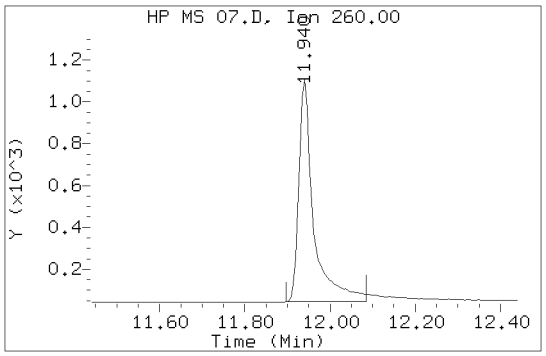
BEFORE

MASS
260
AREA
2559
HEIGHT
1060
16-Jun-2023
12:18
ALSHS
Server



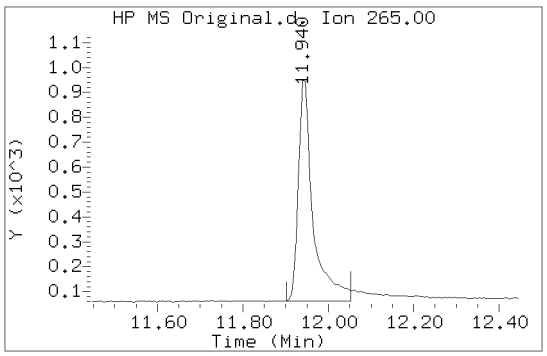
AFTER

MASS
260
AREA
2559
HEIGHT
1060
29-Jun-2023
14:26
ALSHS
Ser



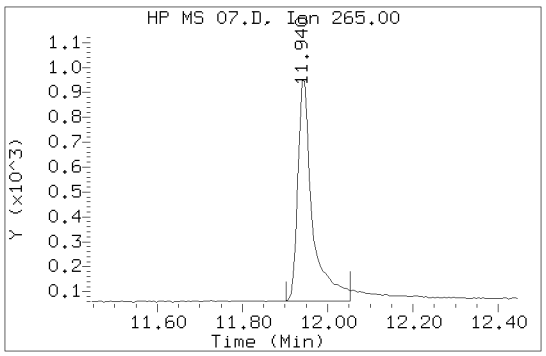
BEFORE

MASS
265
AREA
2115
HEIGHT
884
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
265
AREA
2115
HEIGHT
884
29-Jun-2023
14:26
ALSHS
Ser

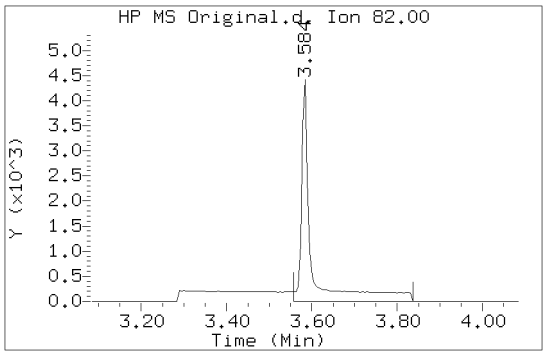


Nitrobenzene-d5 (4165-60-0)

Reason Code:

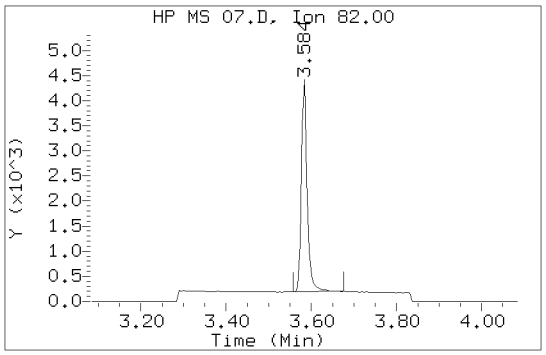
BEFORE

MASS
82
AREA
7140
HEIGHT
4418
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
82
AREA
4012
HEIGHT
4226
29-Jun-2023
14:26
ALSHS
Ser



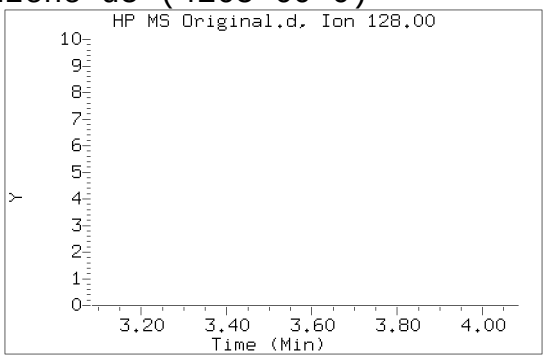
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

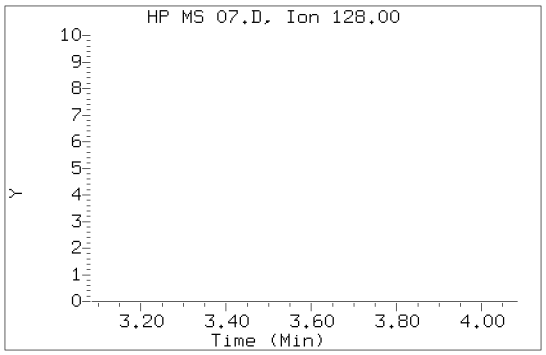
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



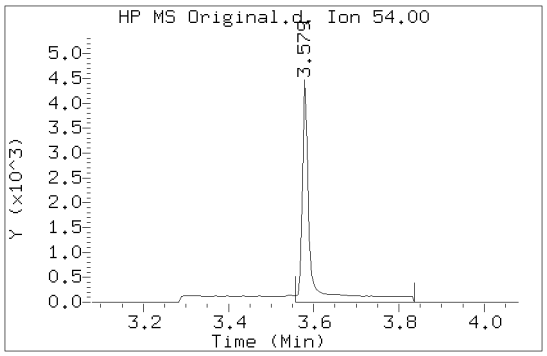
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



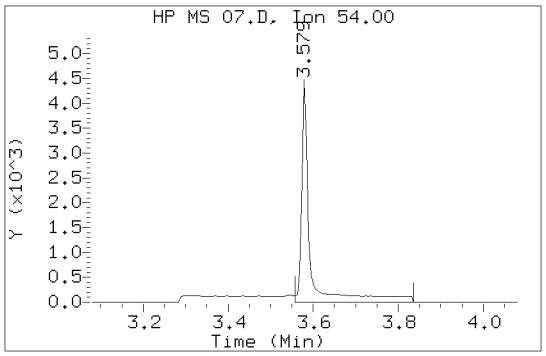
BEFORE

MASS
54
AREA
6137
HEIGHT
4470
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
54
AREA
6137
HEIGHT
4470
29-Jun-2023
14:26
ALSHS
Ser

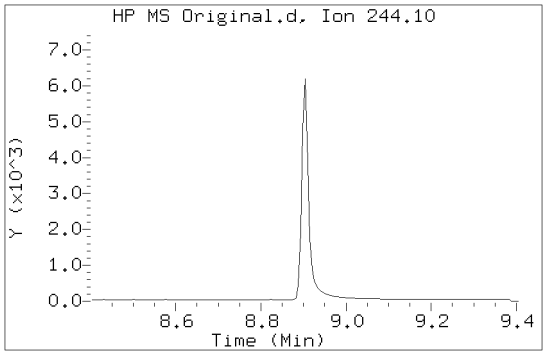


4-Terphenyl-d14 (1718-51-0)

Reason Code:

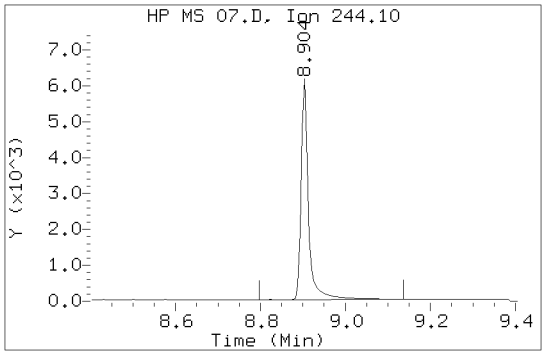
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



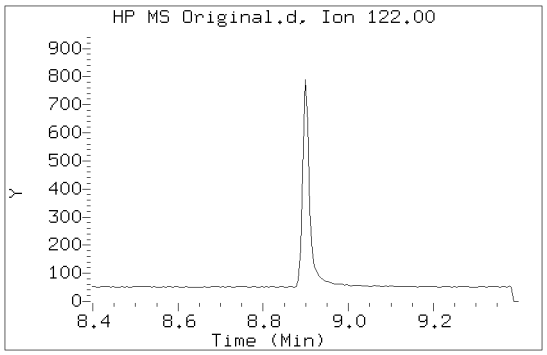
AFTER

MASS
244.1
AREA
7185
HEIGHT
6143
29-Jun-2023
14:26
ALSHS
Ser



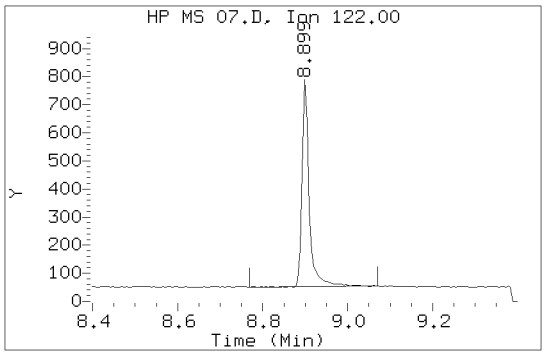
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
122
AREA
850
HEIGHT
736
29-Jun-2023
14:26
ALSHS
Ser



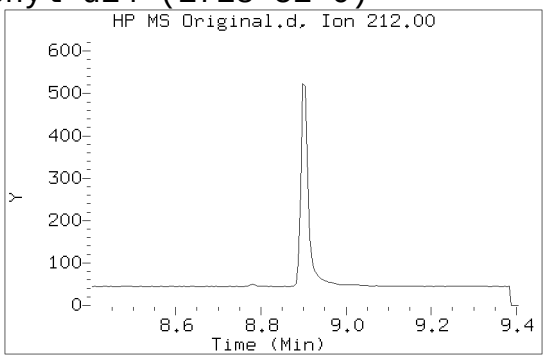
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Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

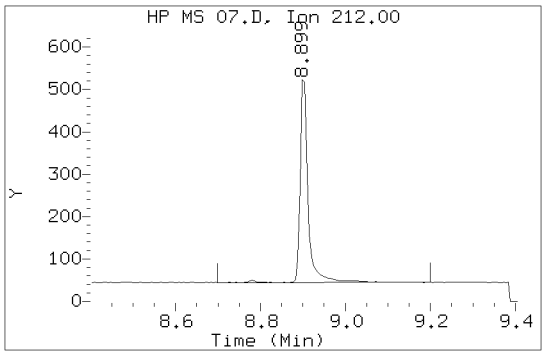
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
212
AREA
622
HEIGHT
478
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Lab Smp Id: 14DXICAL-0.15 Client Smp ID: 14DXICAL-0.15
Inj Date : 16-JUN-2023 12:38
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	3901	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13349	0.10000	
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	6134	0.15000	0.1520(AQM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7708	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	11636	0.15000	0.1474
* 126 Phenanthrene-d10	188	7.323	7.323	(1.000)	15157	0.10000	
* 182 Chrysene-d12	240	10.018	10.018	(1.000)	10131	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	10881	0.15000	0.1472(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	7987	0.10000	(M)
1 1,4-Dioxane	58	1.464	1.464	(0.468)	1980	0.15000	0.1507(QH)

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.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

01200762

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D

Date : 16-JUN-2023 12:38

Client ID: 14DXICAL-0.15

Instrument: SV6.i

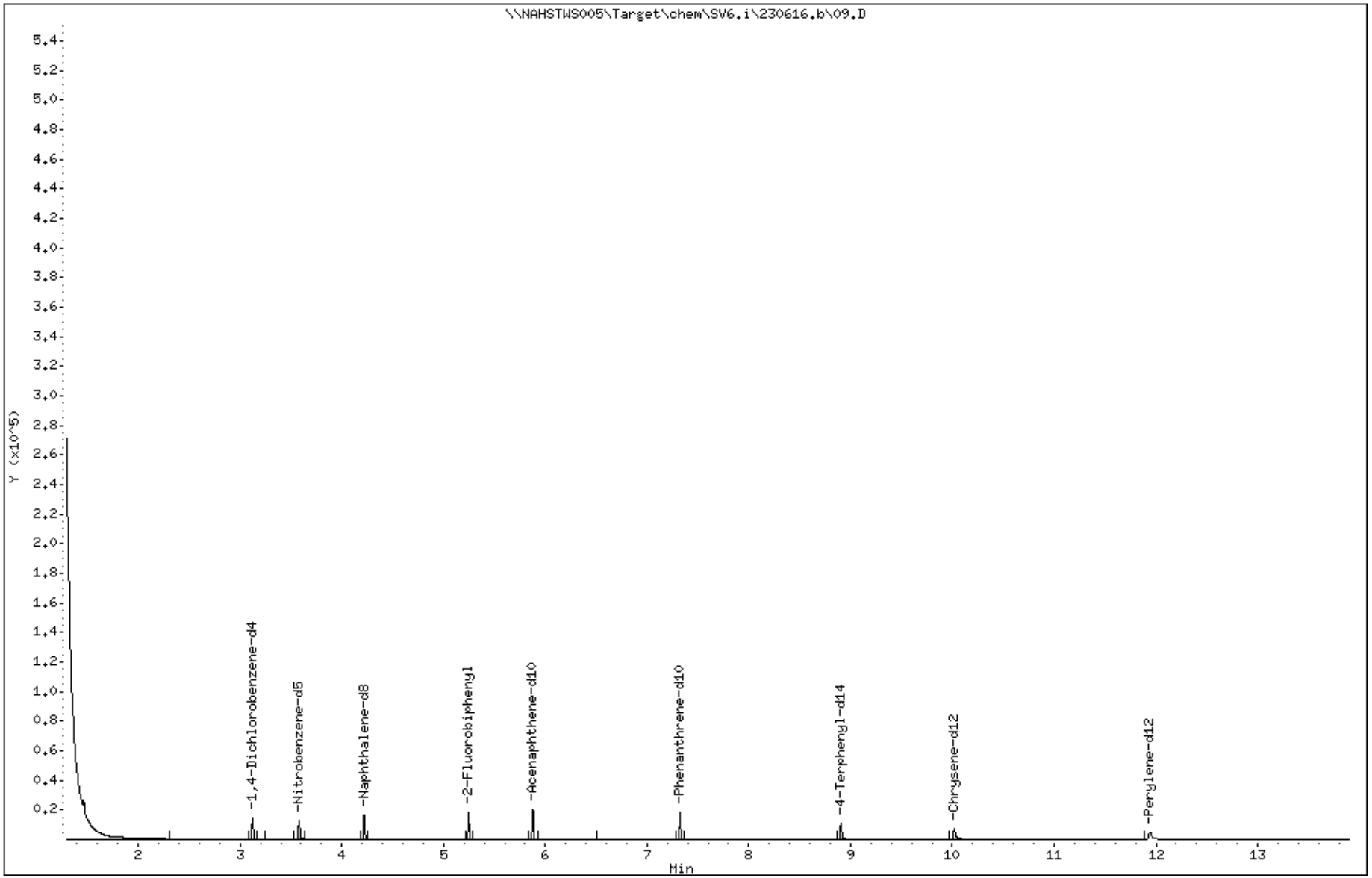
Sample Info: 14DXICAL-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



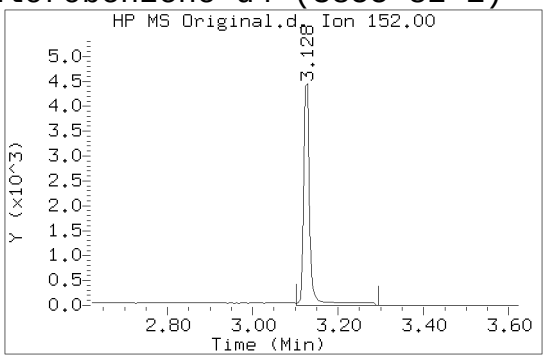
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

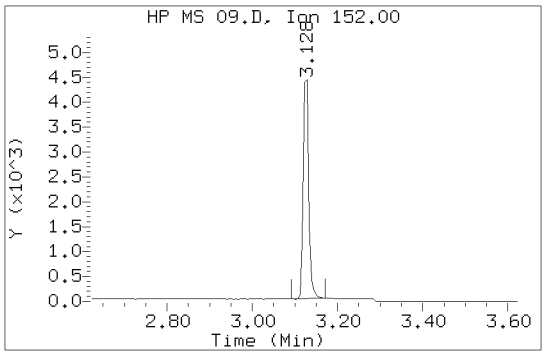
BEFORE

MASS
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AREA
4505
HEIGHT
4453
16-Jun-2023
12:57
ALSHS
Server



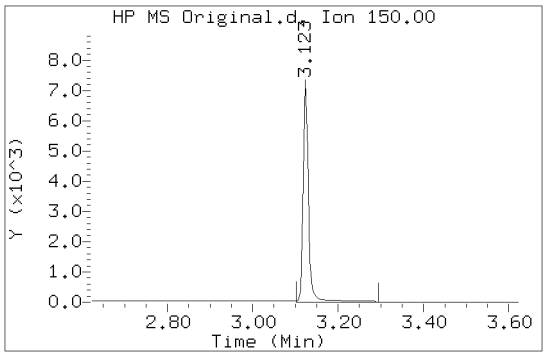
AFTER

MASS
152
AREA
3901
HEIGHT
4398
29-Jun-2023
14:27
ALSHS
Ser



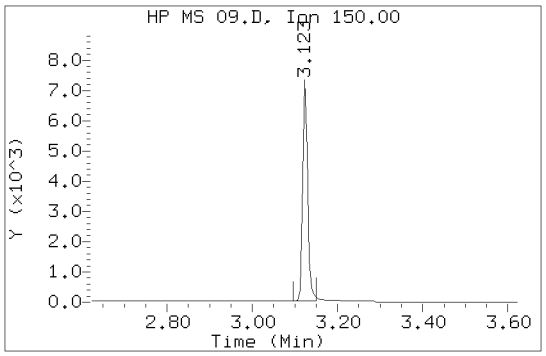
BEFORE

MASS
150
AREA
6326
HEIGHT
7351
16-Jun-2023
12:57
ALSHS
Server



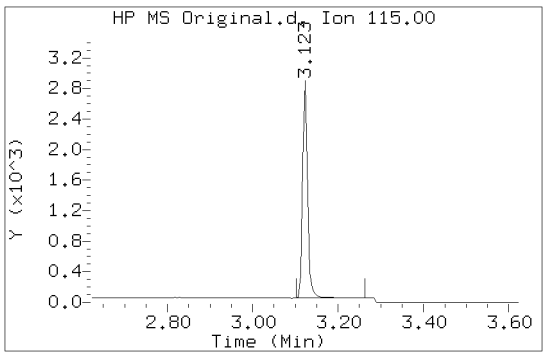
AFTER

MASS
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AREA
5706
HEIGHT
7305
29-Jun-2023
14:27
ALSHS
Ser



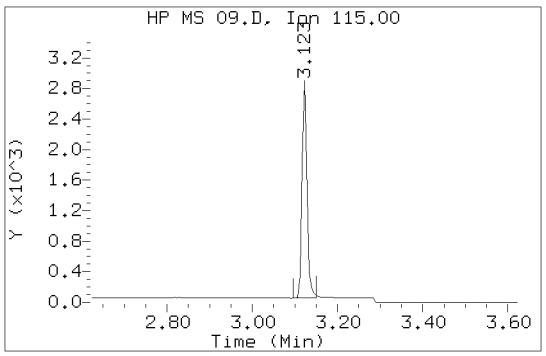
BEFORE

MASS
115
AREA
2255
HEIGHT
2847
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
115
AREA
2210
HEIGHT
2846
29-Jun-2023
14:27
ALSHS
Ser

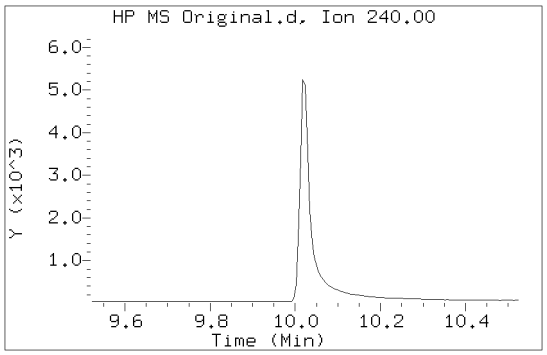


Chrysene-d12 (1719-03-5)

Reason Code:

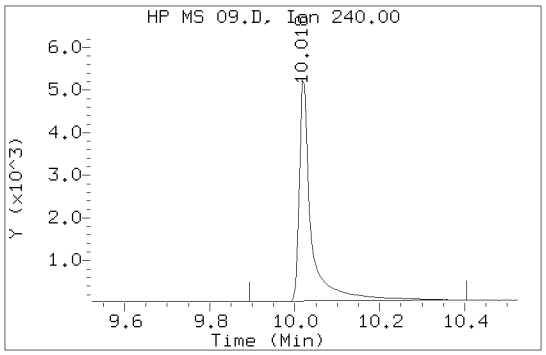
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
240
AREA
10131
HEIGHT
5190
29-Jun-2023
14:27
ALSHS
Ser



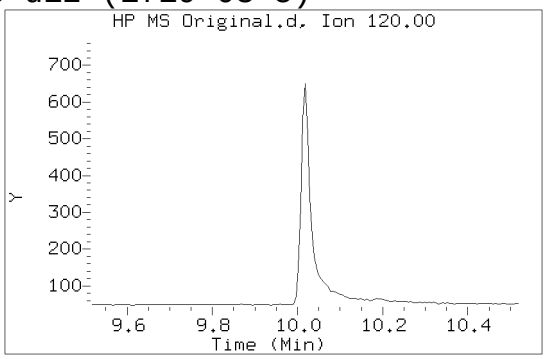
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Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

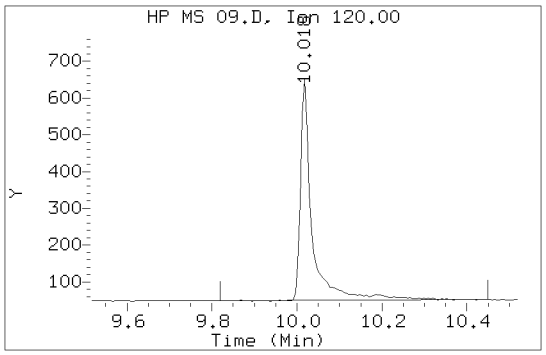
BEFORE

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AREA
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HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



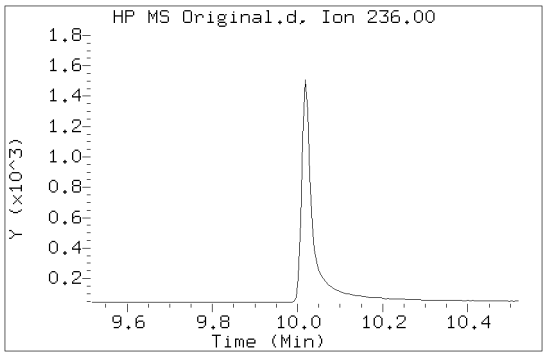
AFTER

MASS
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AREA
1131
HEIGHT
600
29-Jun-2023
14:27
ALSHS
Ser



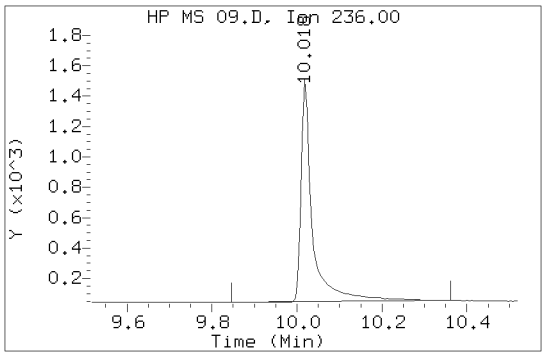
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
236
AREA
2695
HEIGHT
1458
29-Jun-2023
14:27
ALSHS
Ser

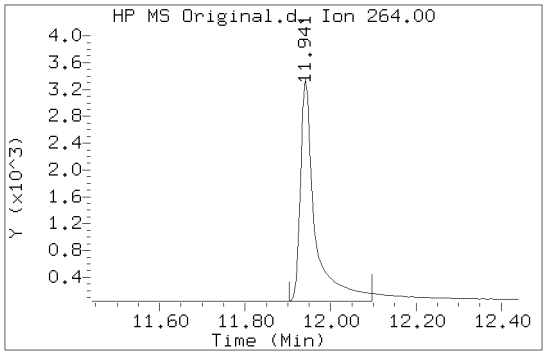


Perylene-d12 (1520-96-3)

Reason Code:

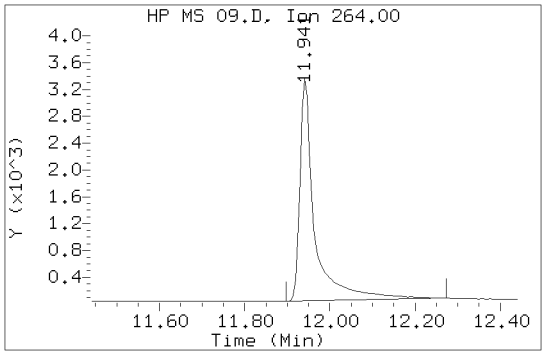
BEFORE

MASS
264
AREA
7735
HEIGHT
3310
16-Jun-2023
12:57
ALSHS
Server



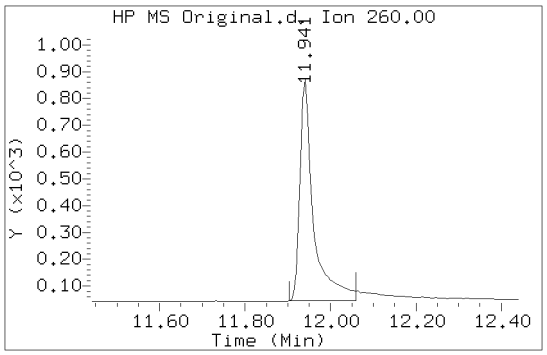
AFTER

MASS
264
AREA
7987
HEIGHT
3307
29-Jun-2023
14:27
ALSHS
Ser



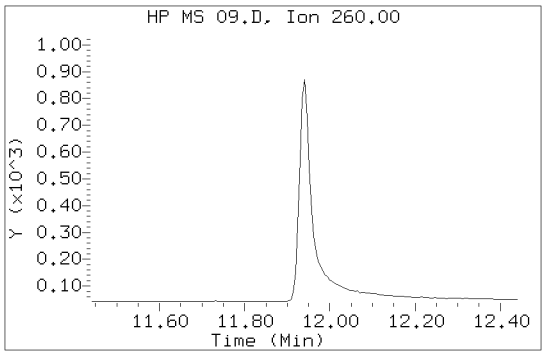
BEFORE

MASS
260
AREA
1816
HEIGHT
824
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
260
AREA
2012
HEIGHT
823
29-Jun-2023
14:27
ALSHS
Ser



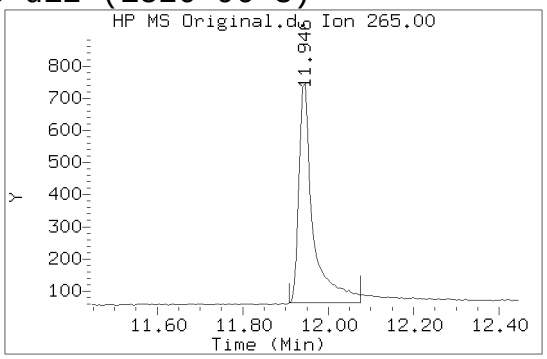
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Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

Perylene-d12 (1520-96-3)

Reason Code:

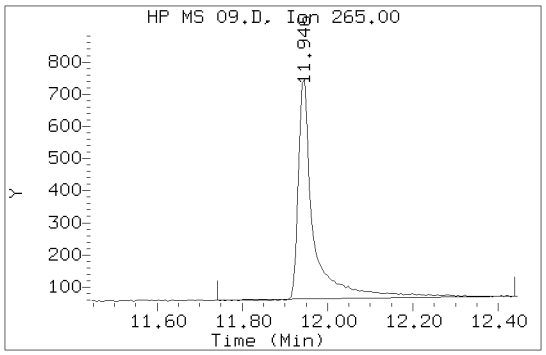
BEFORE

MASS
265
AREA
1571
HEIGHT
682
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
265
AREA
1706
HEIGHT
682
29-Jun-2023
14:27
ALSHS
Ser

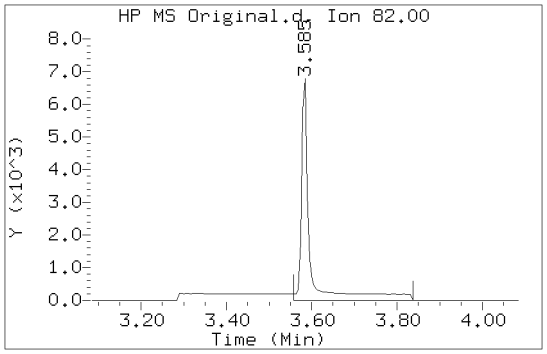


Nitrobenzene-d5 (4165-60-0)

Reason Code:

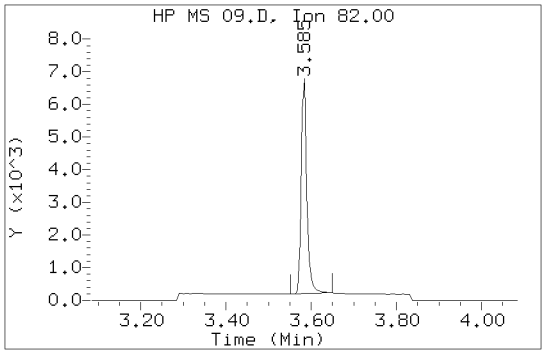
BEFORE

MASS
82
AREA
9487
HEIGHT
6787
16-Jun-2023
12:57
ALSHS
Server



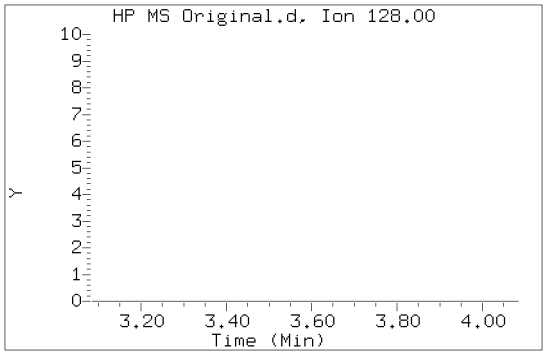
AFTER

MASS
82
AREA
6134
HEIGHT
6582
29-Jun-2023
14:27
ALSHS
Ser



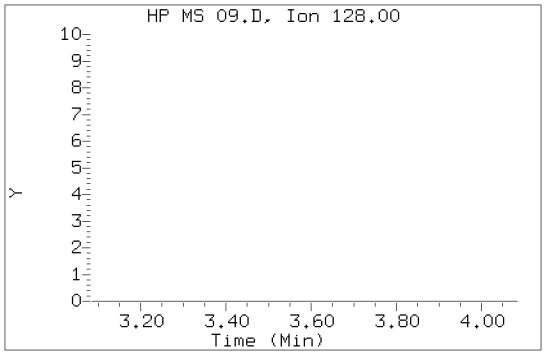
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



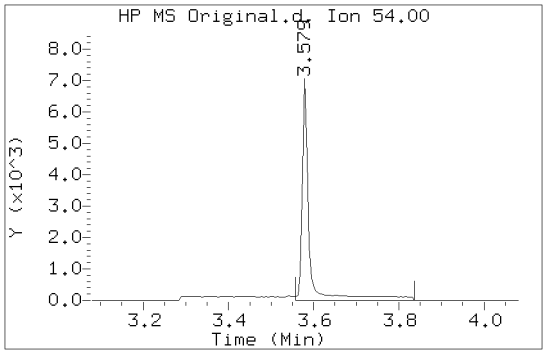
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



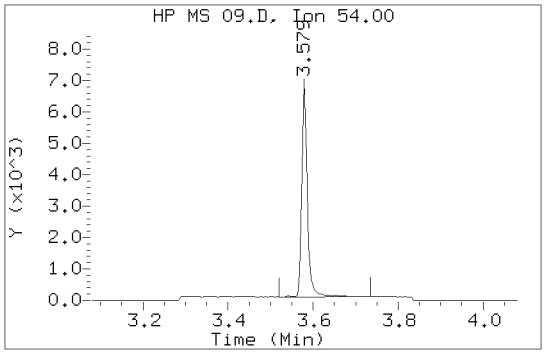
BEFORE

MASS
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AREA
8200
HEIGHT
7059
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
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AREA
6294
HEIGHT
6945
29-Jun-2023
14:27
ALSHS
Ser

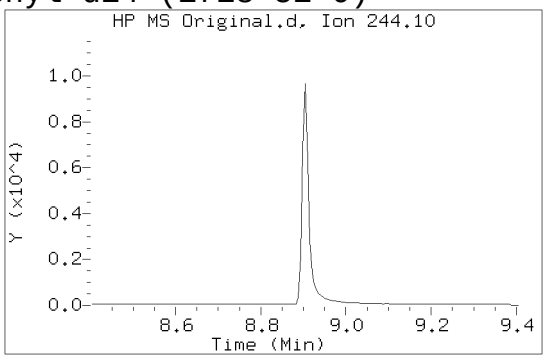


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

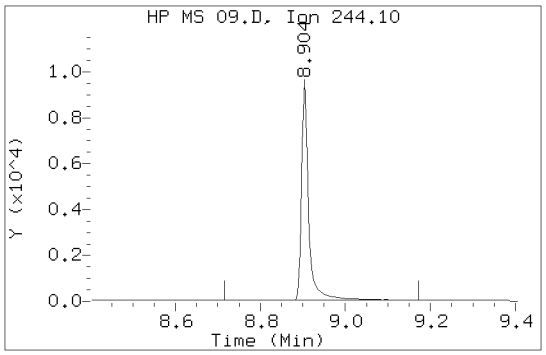
4-Terphenyl-d14 (1718-51-0)

Reason Code:

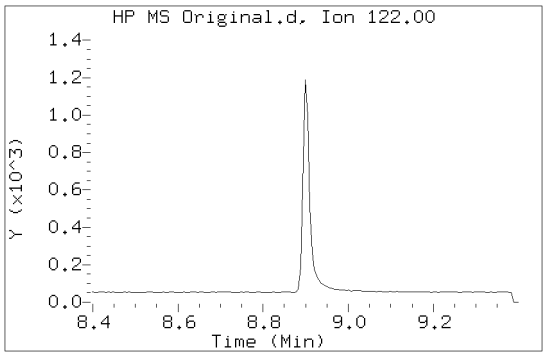
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



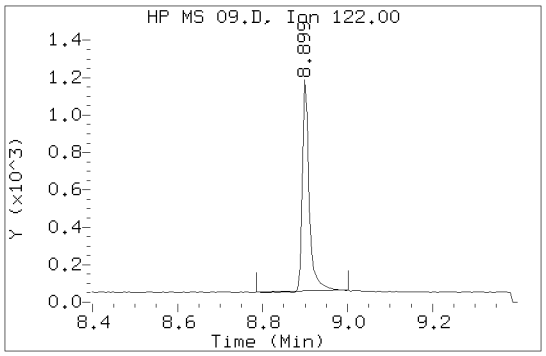
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MASS
244.1
AREA
10881
HEIGHT
9614
29-Jun-2023
14:27
ALSHS
Ser



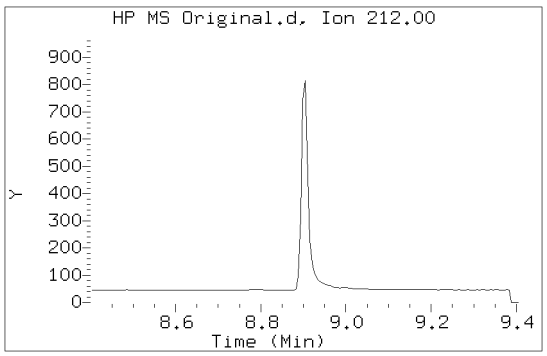
BEFORE
MASS
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AREA
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HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



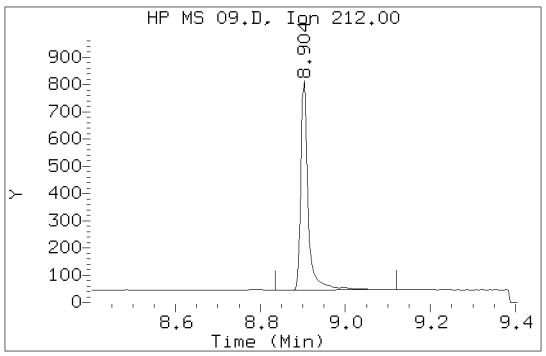
AFTER
MASS
122
AREA
1222
HEIGHT
1128
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER
MASS
212
AREA
918
HEIGHT
769
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Lab Smp Id: 14DXICAL-0.1 Client Smp ID: 14DXICAL-0.1
Inj Date : 16-JUN-2023 14:15
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.1
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 15:48 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.128	(1.000)	4026	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13383	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	4123	0.10000	0.1019(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7945	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.248	5.248	(0.892)	7708	0.10000	0.09473(M)
* 126 Phenanthrene-d10	188	7.328	7.328	(1.000)	15519	0.10000	(M)
* 182 Chrysene-d12	240	10.028	10.028	(1.000)	9988	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.909	(0.888)	7529	0.10000	0.1033(M)
* 198 Perylene-d12	264	11.946	11.946	(1.000)	8963	0.10000	(M)
1 1,4-Dioxane	58	1.471	1.471	(0.470)	1445	0.10000	0.1066(Q)

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.

01200768

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D

Date : 16-JUN-2023 14:15

Client ID: 14DXICAL-0.1

Instrument: SV6.i

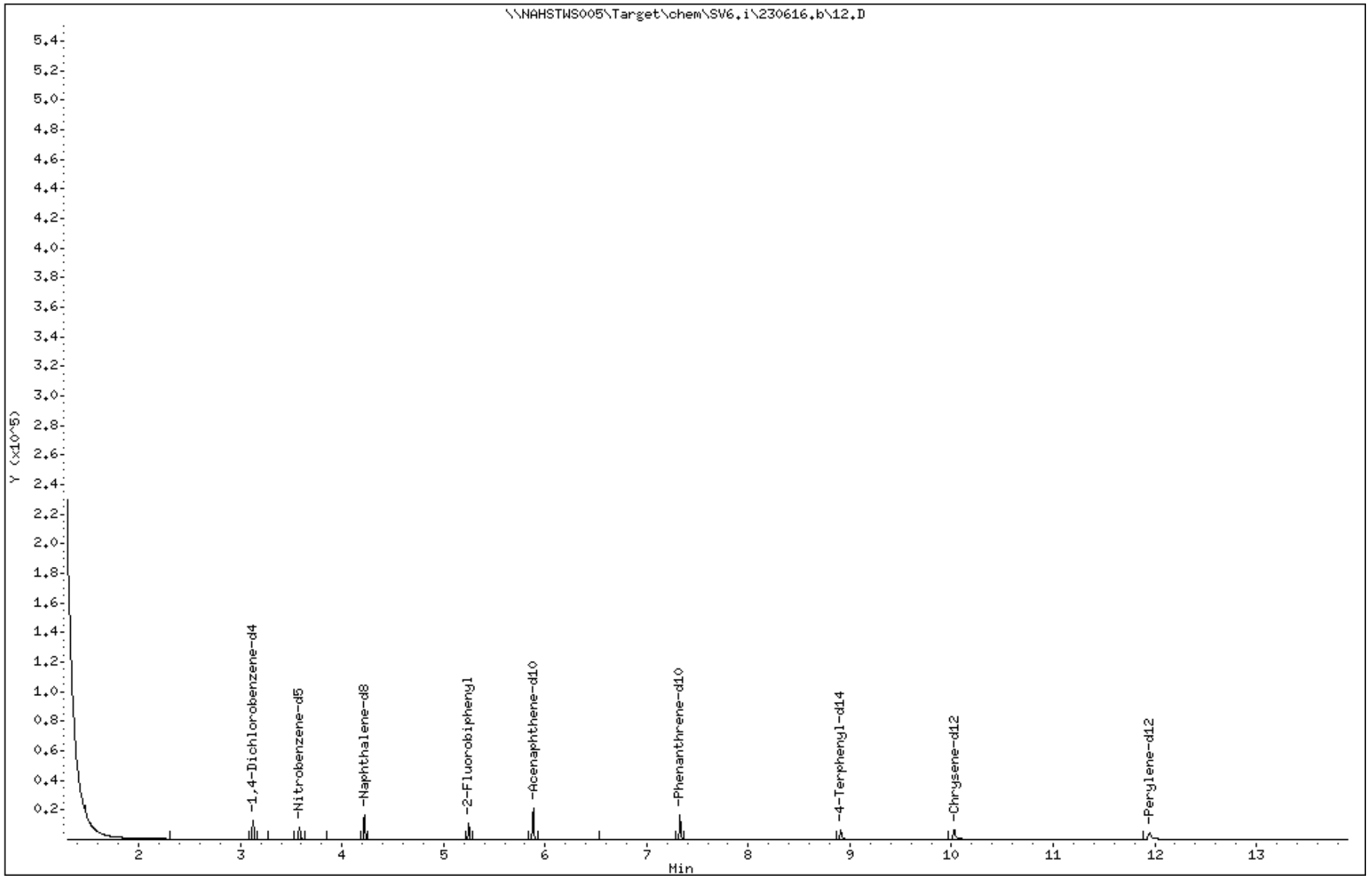
Sample Info: 14DXICAL-0.1

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

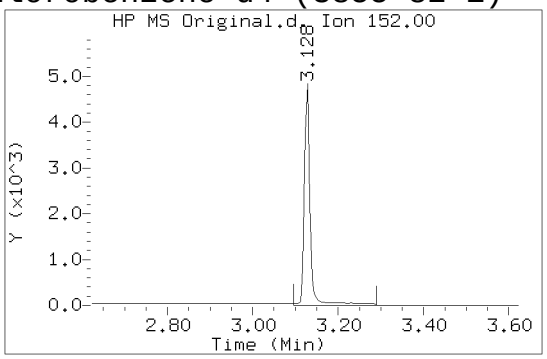


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

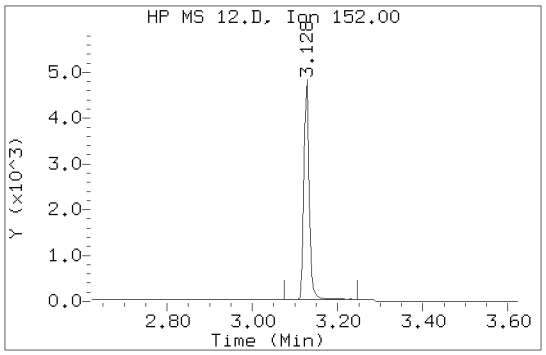
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

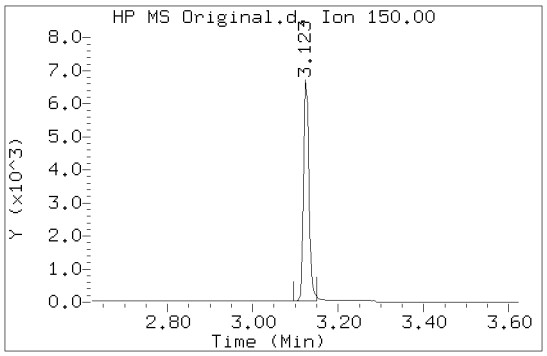
BEFORE
MASS
152
AREA
4570
HEIGHT
4842
16-Jun-2023
14:59
jiayi
lu



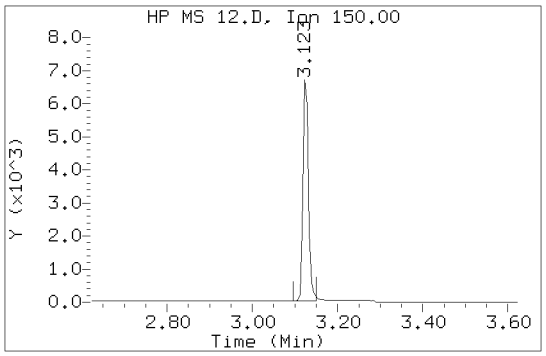
AFTER
MASS
152
AREA
4026
HEIGHT
4796
29-Jun-2023
15:48



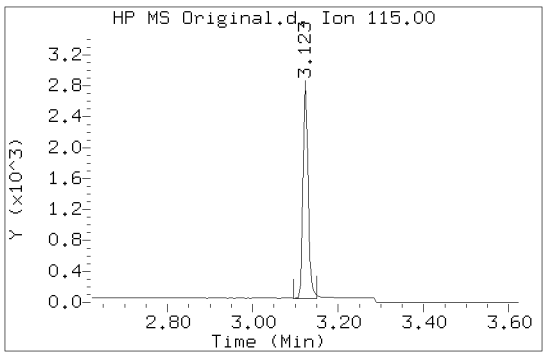
BEFORE
MASS
150
AREA
5752
HEIGHT
6676
16-Jun-2023
14:59
jiayi
lu



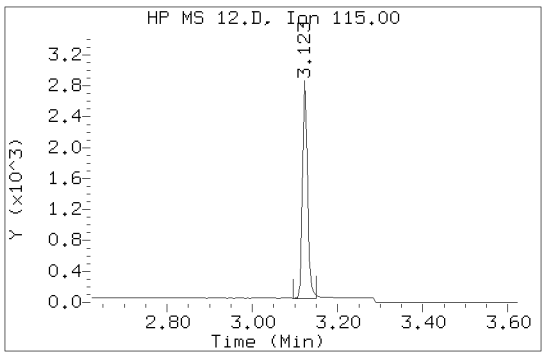
AFTER
MASS
150
AREA
5752
HEIGHT
6676
29-Jun-2023
15:48



BEFORE
MASS
115
AREA
2249
HEIGHT
2814
16-Jun-2023
14:59
jiayi
lu



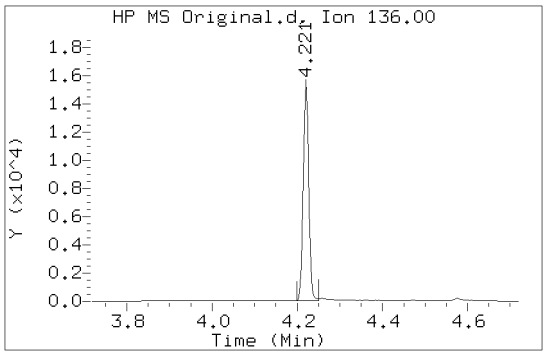
AFTER
MASS
115
AREA
2249
HEIGHT
2814
29-Jun-2023
15:48



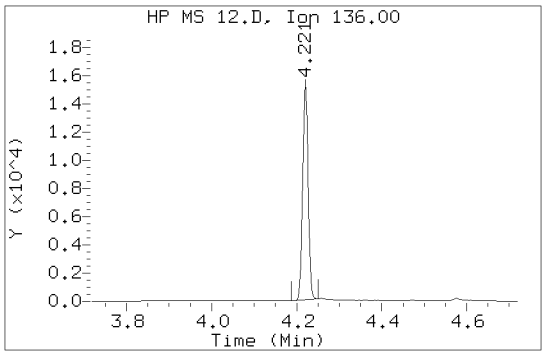
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
13619
HEIGHT
15676
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
136
AREA
13383
HEIGHT
15614
29-Jun-2023
15:48

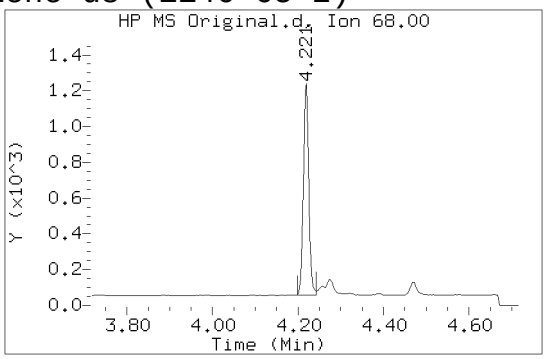


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Naphthalene-d8 (1146-65-2)

BEFORE

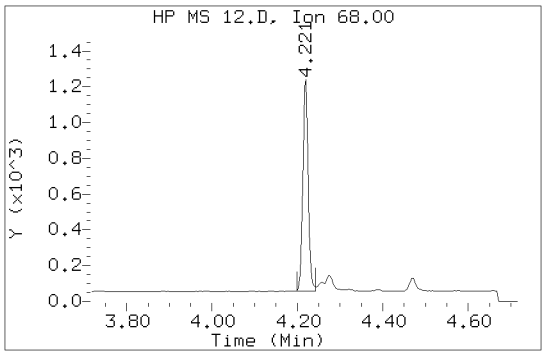
MASS
68
AREA
1062
HEIGHT
1182
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
68
AREA
1062
HEIGHT
1182
29-Jun-2023
15:48

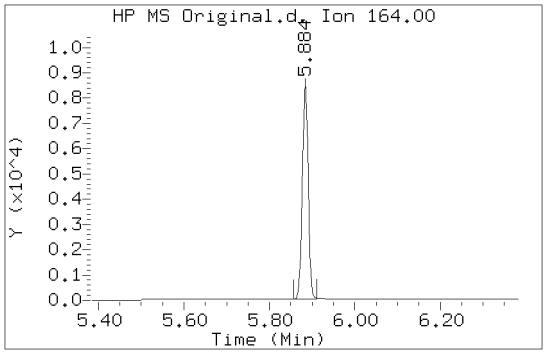
Reason Code:



Acenaphthene-d10 (15067-26-2)

BEFORE

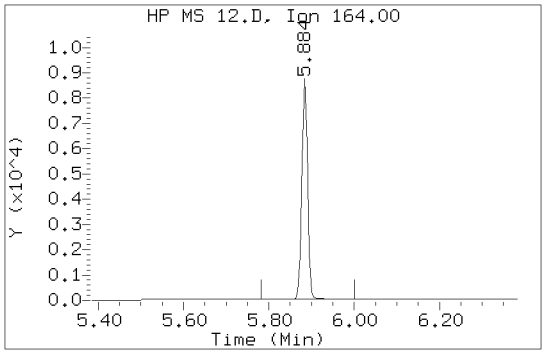
MASS
164
AREA
7893
HEIGHT
8717
16-Jun-2023
14:59
jiayi
lu



AFTER

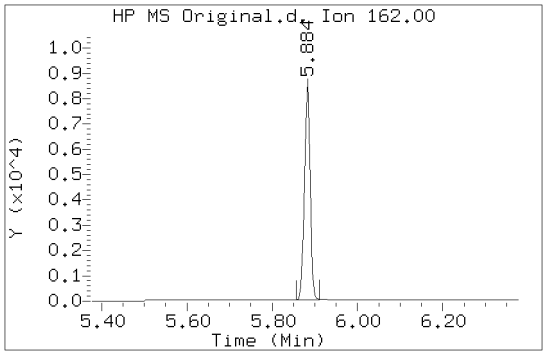
MASS
164
AREA
7945
HEIGHT
8719
29-Jun-2023
15:48

Reason Code:



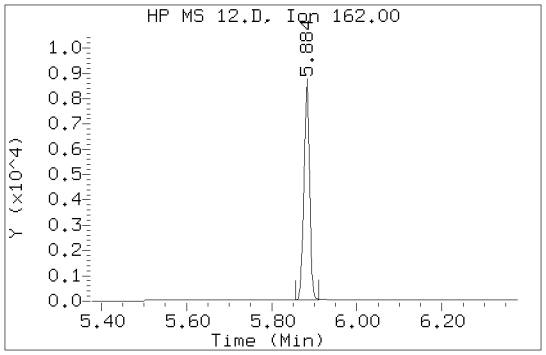
BEFORE

MASS
162
AREA
7978
HEIGHT
8729
16-Jun-2023
14:59
jiayi
lu



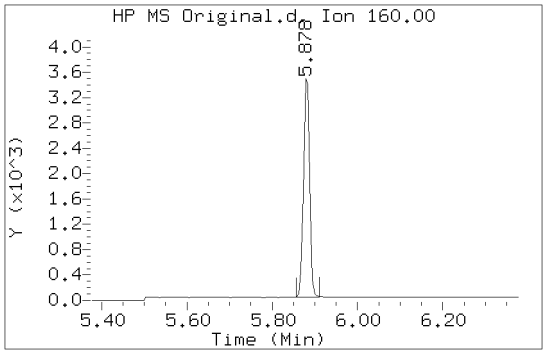
AFTER

MASS
162
AREA
7978
HEIGHT
8729
29-Jun-2023
15:48



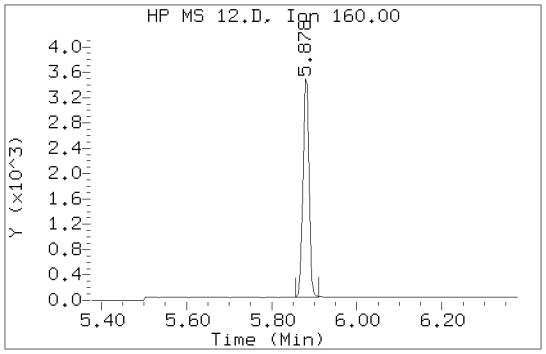
BEFORE

MASS
160
AREA
3420
HEIGHT
3449
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
160
AREA
3420
HEIGHT
3449
29-Jun-2023
15:48

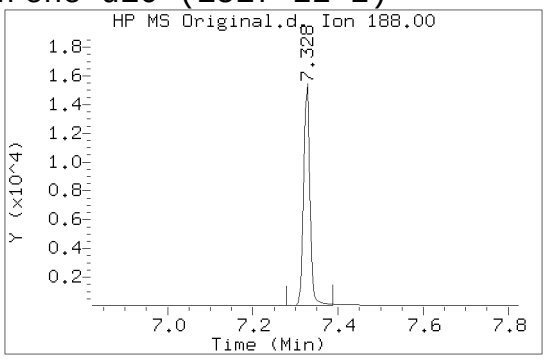


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

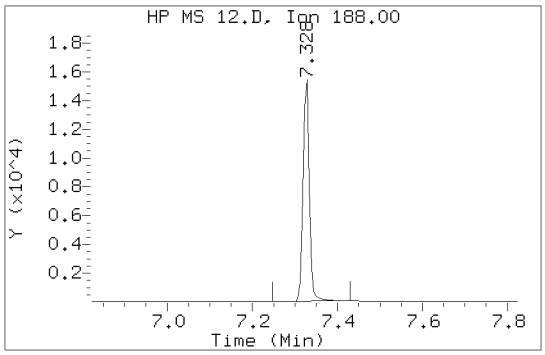
Phenanthrene-d10 (1517-22-2)

Reason Code:

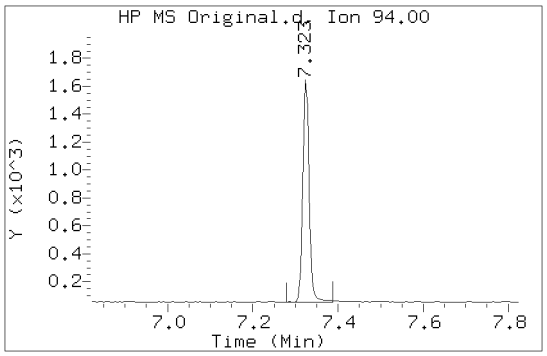
BEFORE
MASS
188
AREA
15580
HEIGHT
15412
16-Jun-2023
14:59
jiayi
lu



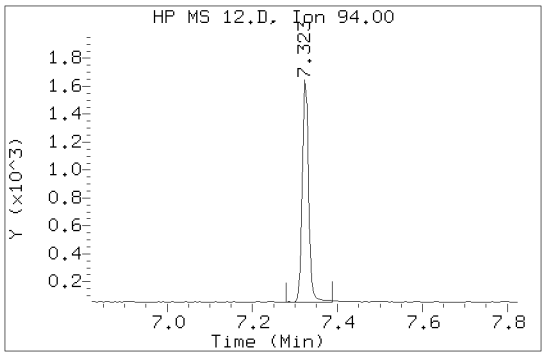
AFTER
MASS
188
AREA
15519
HEIGHT
15398
29-Jun-2023
15:48



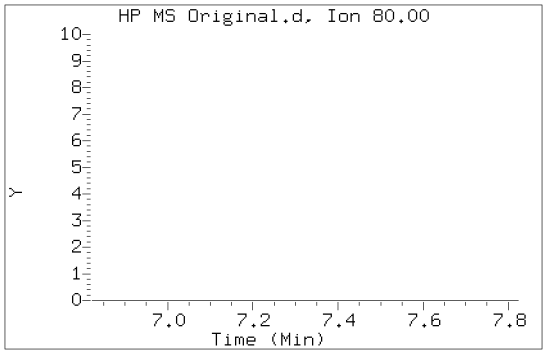
BEFORE
MASS
94
AREA
1615
HEIGHT
1589
16-Jun-2023
14:59
jiayi
lu



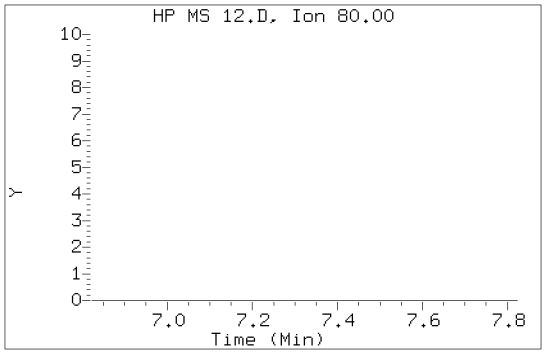
AFTER
MASS
94
AREA
1615
HEIGHT
1589
29-Jun-2023
15:48



BEFORE
MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



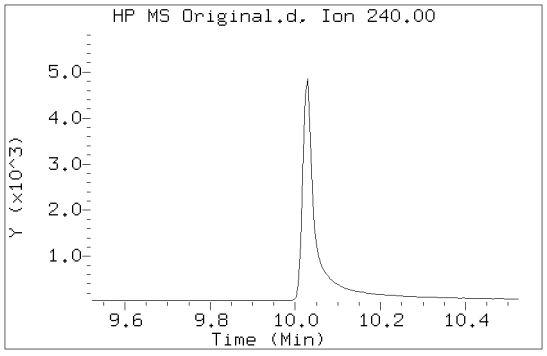
AFTER
MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
15:48



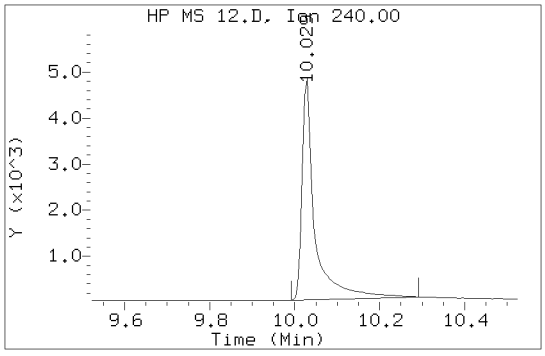
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
240
AREA
9988
HEIGHT
4801
29-Jun-2023
15:48

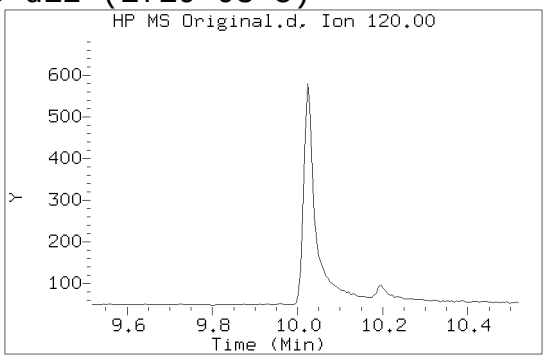


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Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

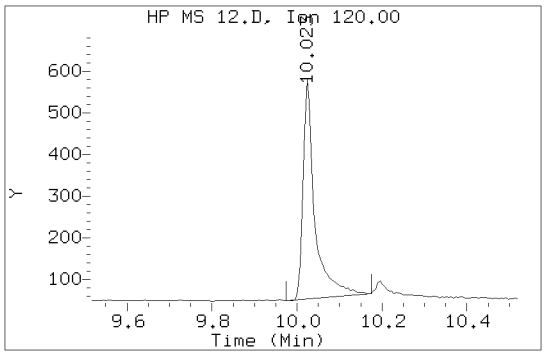
Chrysene-d12 (1719-03-5)

Reason Code:

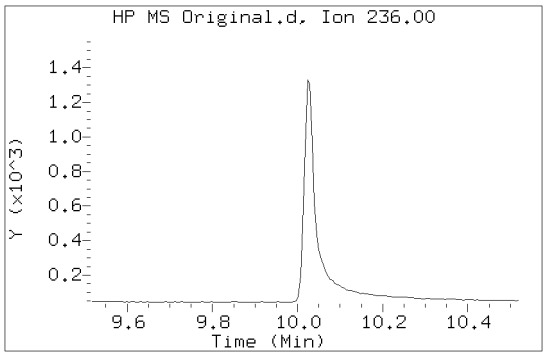
BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



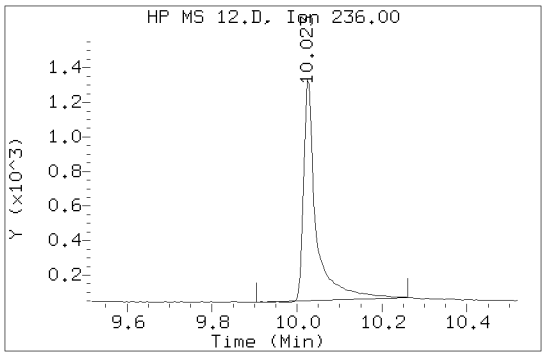
AFTER
MASS
120
AREA
998
HEIGHT
525
29-Jun-2023
15:48



BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



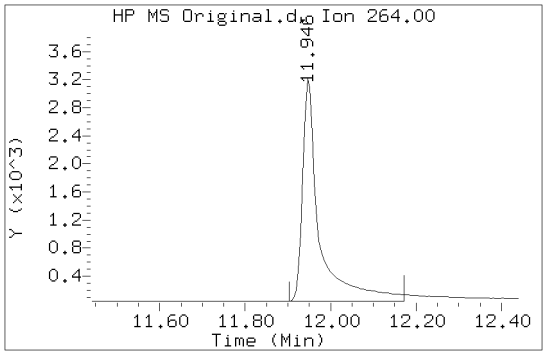
AFTER
MASS
236
AREA
2622
HEIGHT
1277
29-Jun-2023
15:48



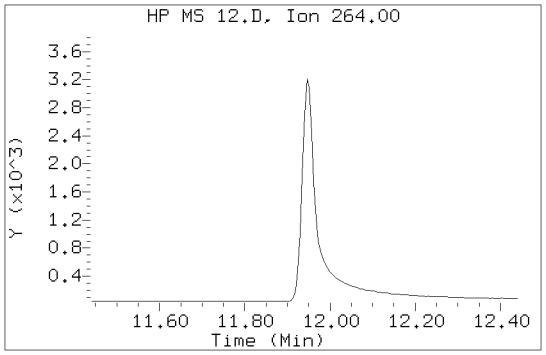
Perylene-d12 (1520-96-3)

Reason Code:

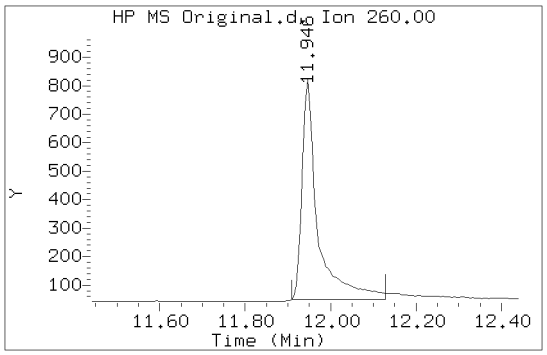
BEFORE
MASS
264
AREA
8613
HEIGHT
3164
16-Jun-2023
14:59
jiayi
lu



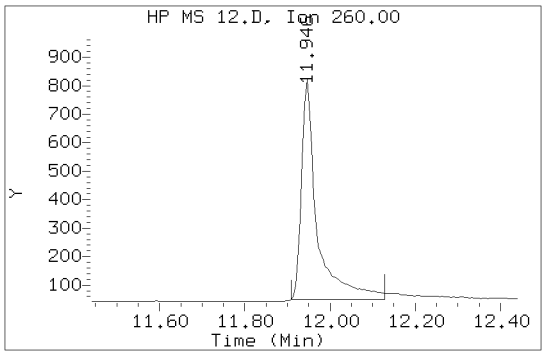
AFTER
MASS
264
AREA
8963
HEIGHT
3161
29-Jun-2023
15:48



BEFORE
MASS
260
AREA
1977
HEIGHT
772
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
260
AREA
1977
HEIGHT
772
29-Jun-2023
15:48



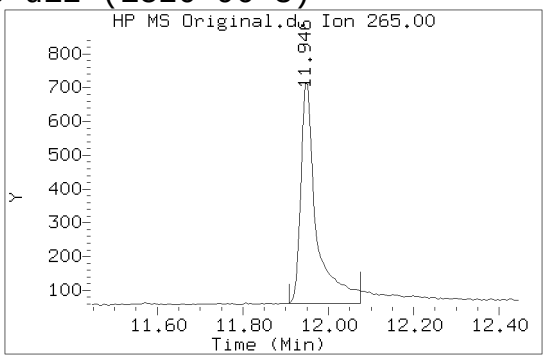
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Perylene-d12 (1520-96-3)

Reason Code:

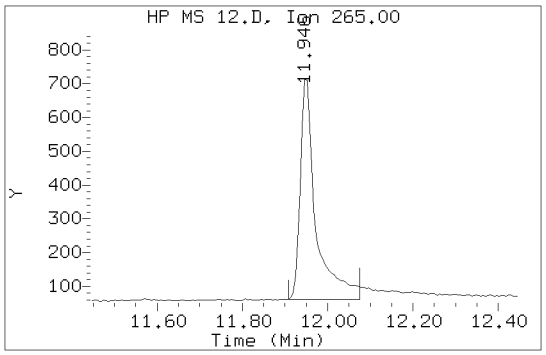
BEFORE

MASS
265
AREA
1666
HEIGHT
651
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
265
AREA
1666
HEIGHT
651
29-Jun-2023
15:48

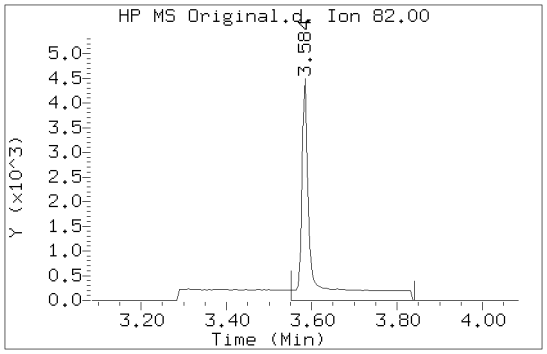


Nitrobenzene-d5 (4165-60-0)

Reason Code:

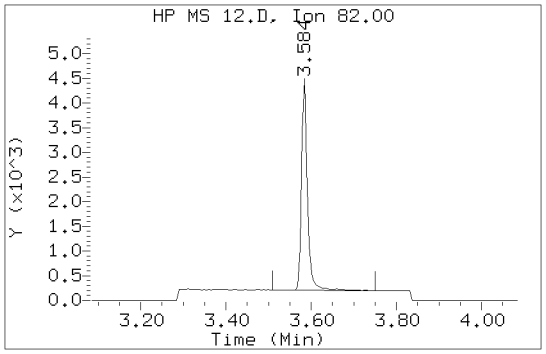
BEFORE

MASS
82
AREA
7524
HEIGHT
4492
16-Jun-2023
14:59
jiayi
lu



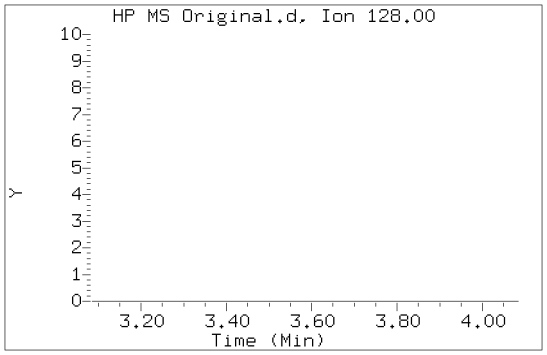
AFTER

MASS
82
AREA
4123
HEIGHT
4285
29-Jun-2023
15:48



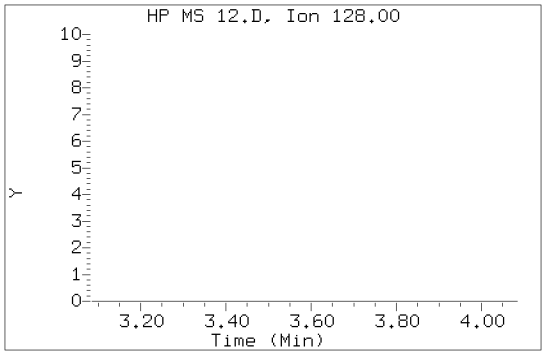
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



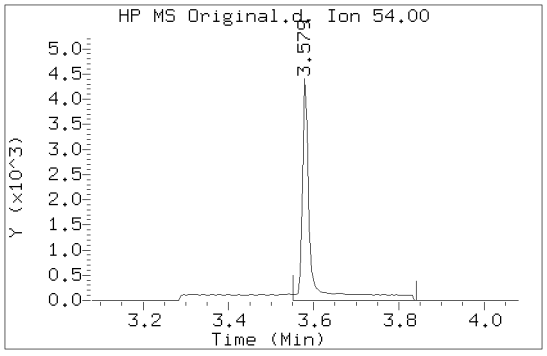
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
15:48



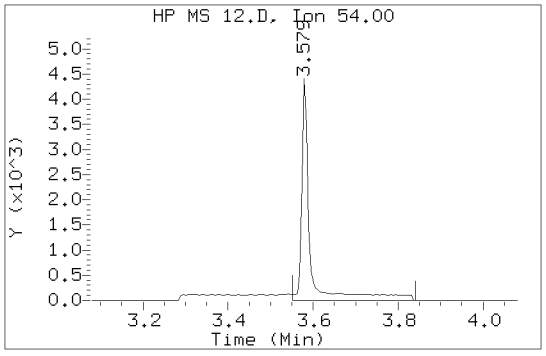
BEFORE

MASS
54
AREA
6015
HEIGHT
4407
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
54
AREA
6015
HEIGHT
4407
29-Jun-2023
15:48

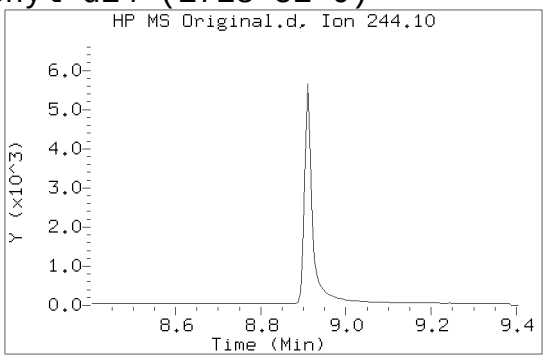


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

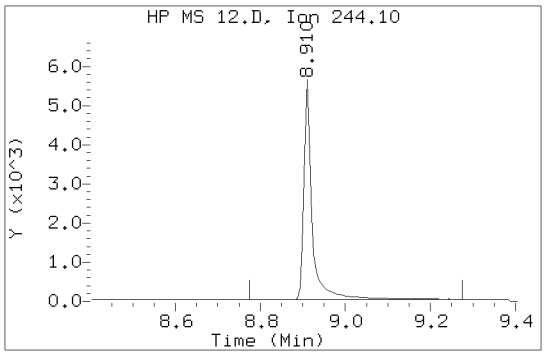
4-Terphenyl-d14 (1718-51-0)

Reason Code:

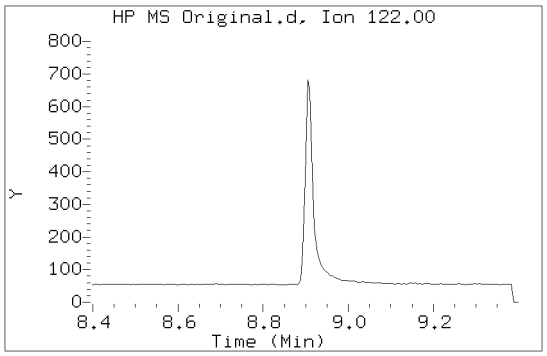
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



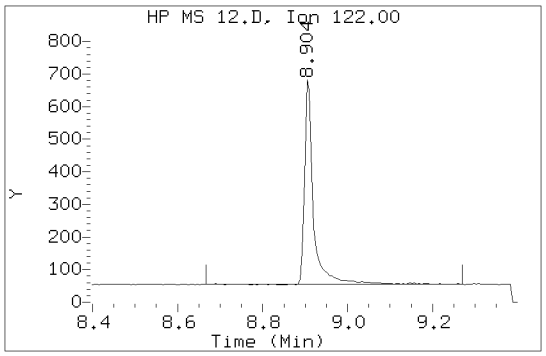
AFTER
MASS
244.1
AREA
7529
HEIGHT
5616
29-Jun-2023
15:48



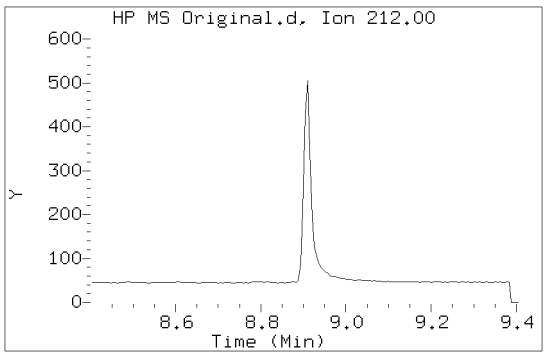
BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



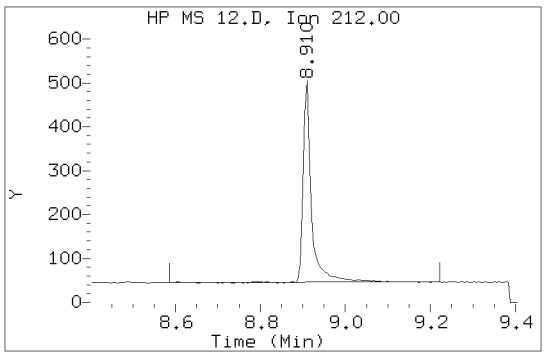
AFTER
MASS
122
AREA
918
HEIGHT
627
29-Jun-2023
15:48



BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



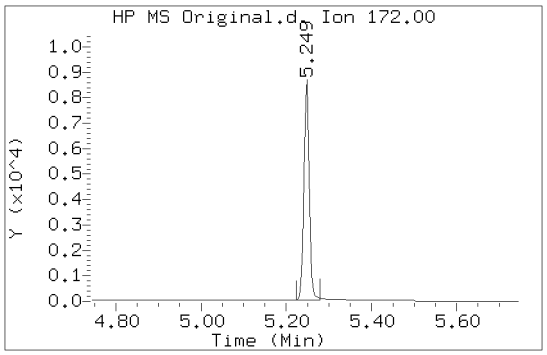
AFTER
MASS
212
AREA
625
HEIGHT
459
29-Jun-2023
15:48



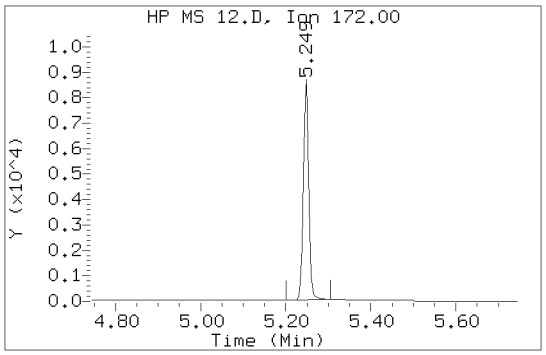
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
7733
HEIGHT
8663
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
172
AREA
7708
HEIGHT
8650
29-Jun-2023
15:48



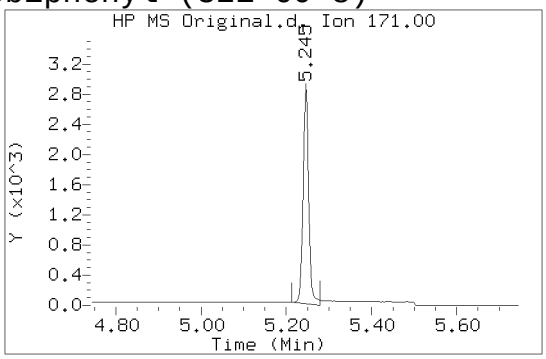
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

2-Fluorobiphenyl (321-60-8)

Reason Code:

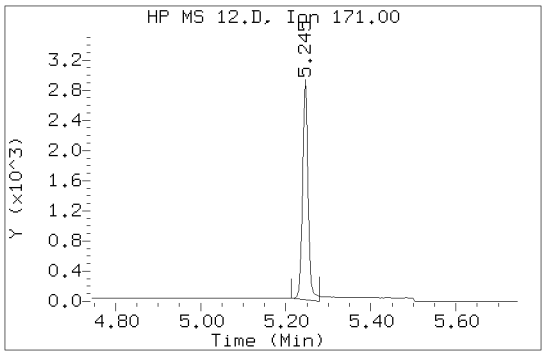
BEFORE

MASS
171
AREA
2685
HEIGHT
2917
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
171
AREA
2685
HEIGHT
2917
29-Jun-2023
15:48



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Lab Smp Id: 14DXICAL-0.5 Client Smp ID: 14DXICAL-0.5
Inj Date : 16-JUN-2023 14:51
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.5
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:38 Cal File: 09.D
Als bottle: 14 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.122	3.122	(1.000)	4165	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13989	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.579	3.579	(0.848)	19311	0.50000	0.4566(AM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	8414	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	39708	0.50000	0.4608(AM)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	16472	0.10000	(M)
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	10483	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	39805	0.50000	0.5203(AM)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	8460	0.10000	(M)
1 1,4-Dioxane	58	1.452	1.452	(0.465)	6496	0.50000	0.4630(QM)

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.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.

01200778

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D

Date : 16-JUN-2023 14:51

Client ID: 14DXICAL-0.5

Instrument: SV6.i

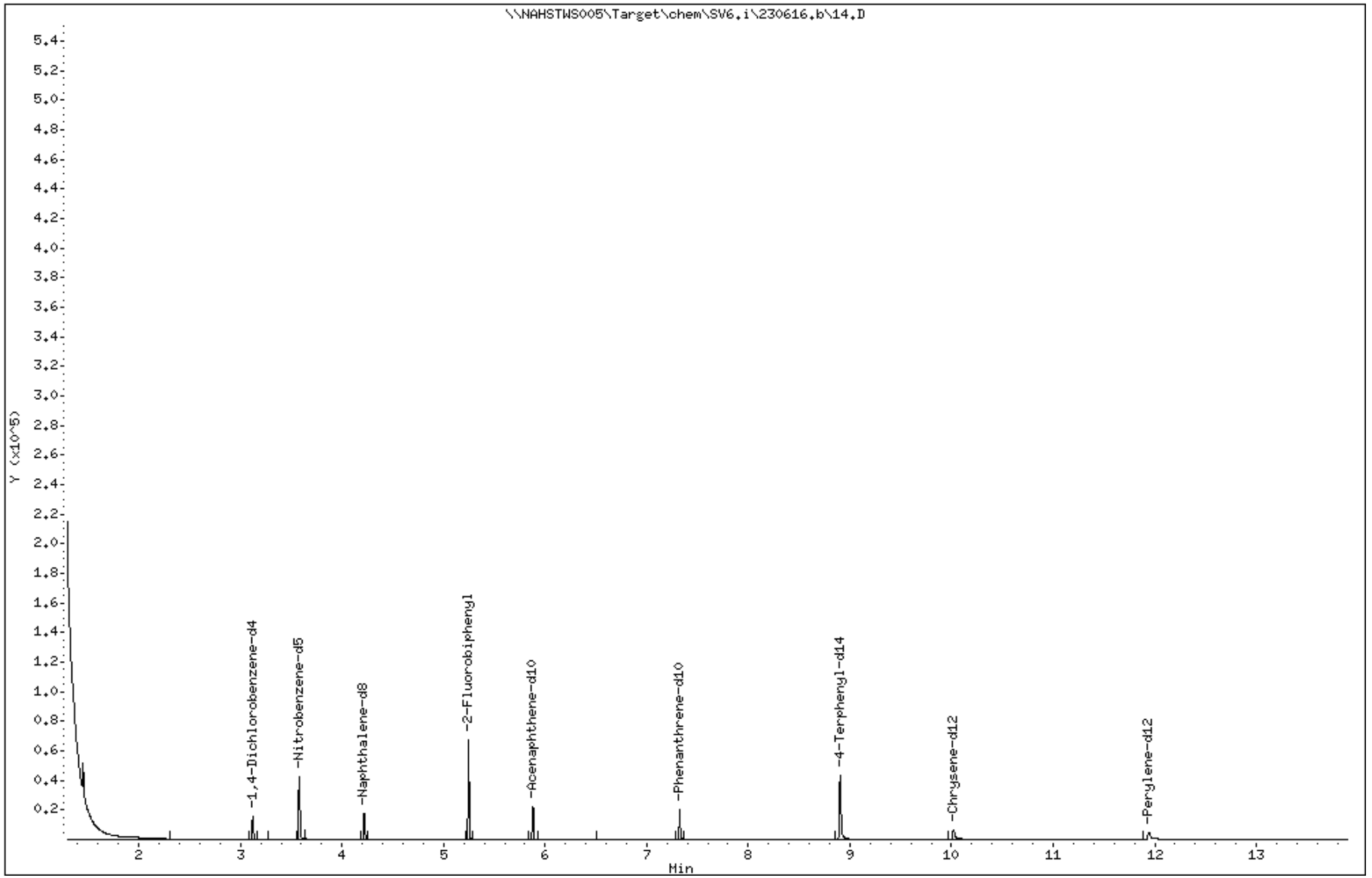
Sample Info: 14DXICAL-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



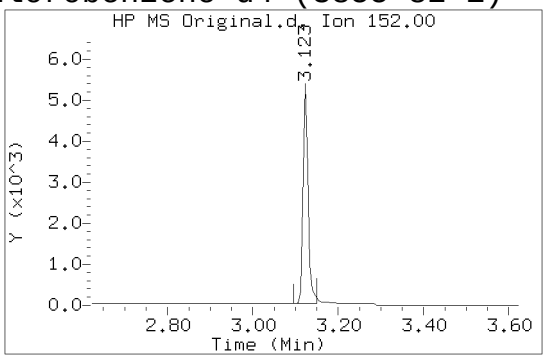
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

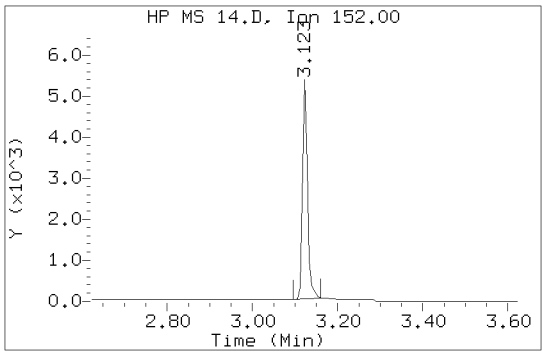
BEFORE

MASS
152
AREA
4211
HEIGHT
5358
16-Jun-2023
15:06
ALSHS
Server



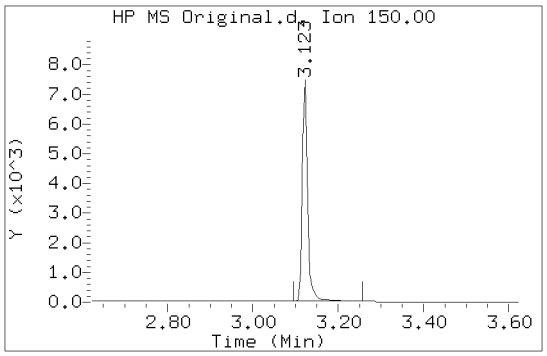
AFTER

MASS
152
AREA
4165
HEIGHT
5341
29-Jun-2023
14:27
ALSHS
Ser



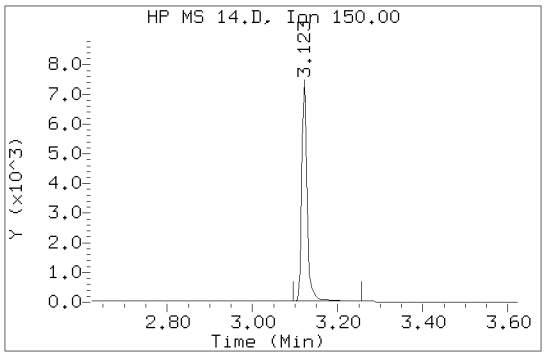
BEFORE

MASS
150
AREA
6228
HEIGHT
7441
16-Jun-2023
15:06
ALSHS
Server



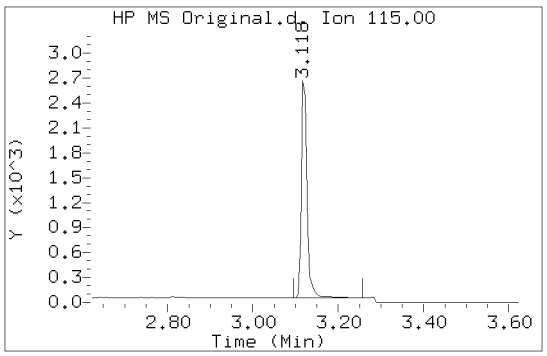
AFTER

MASS
150
AREA
6228
HEIGHT
7441
29-Jun-2023
14:27
ALSHS
Ser



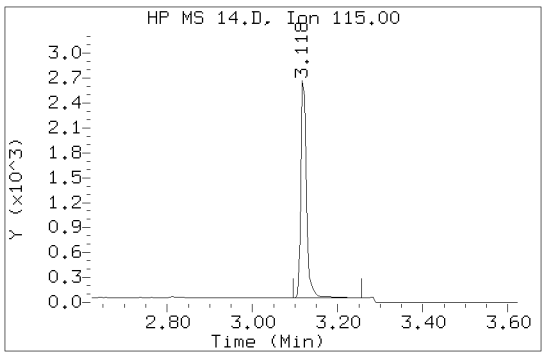
BEFORE

MASS
115
AREA
2367
HEIGHT
2615
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
115
AREA
2367
HEIGHT
2615
29-Jun-2023
14:27
ALSHS
Ser

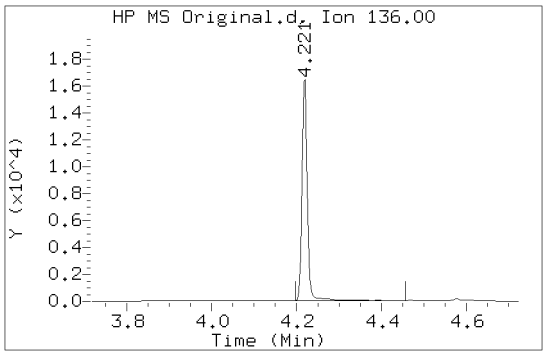


Naphthalene-d8 (1146-65-2)

Reason Code:

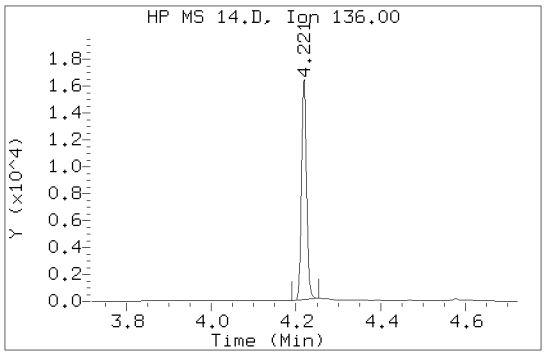
BEFORE

MASS
136
AREA
14856
HEIGHT
16448
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
136
AREA
13989
HEIGHT
16349
29-Jun-2023
14:27
ALSHS
Ser



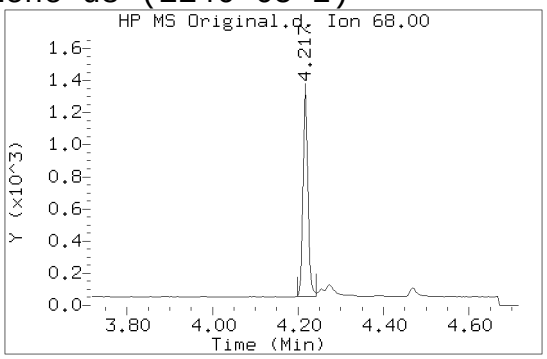
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Naphthalene-d8 (1146-65-2)

Reason Code:

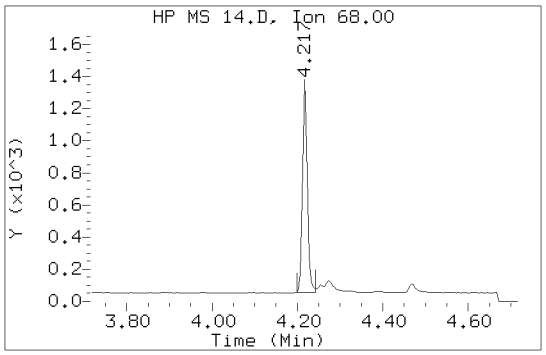
BEFORE

MASS
68
AREA
1074
HEIGHT
1326
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
68
AREA
1074
HEIGHT
1326
29-Jun-2023
14:27
ALSHS
Ser

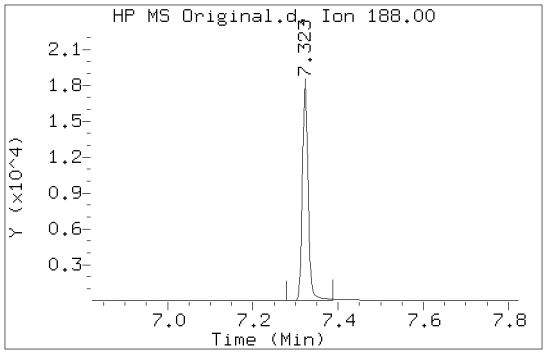


Phenanthrene-d10 (1517-22-2)

Reason Code:

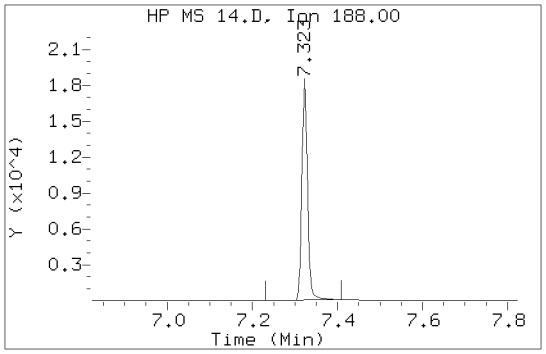
BEFORE

MASS
188
AREA
16664
HEIGHT
18523
16-Jun-2023
15:06
ALSHS
Server



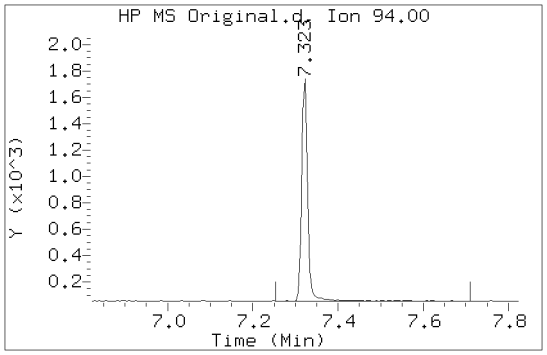
AFTER

MASS
188
AREA
16472
HEIGHT
18498
29-Jun-2023
14:27
ALSHS
Ser



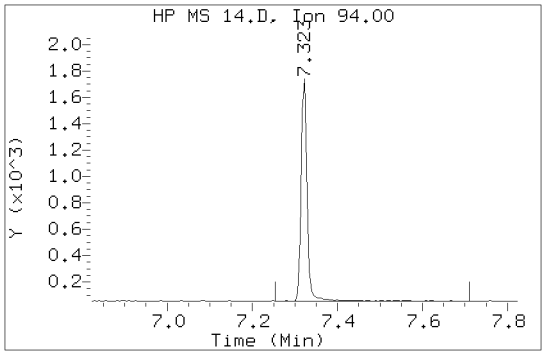
BEFORE

MASS
94
AREA
1634
HEIGHT
1685
16-Jun-2023
15:06
ALSHS
Server



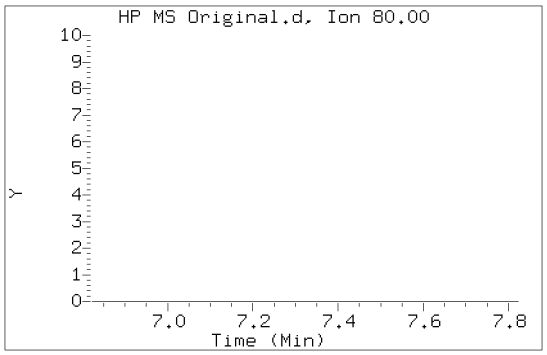
AFTER

MASS
94
AREA
1634
HEIGHT
1685
29-Jun-2023
14:27
ALSHS
Ser



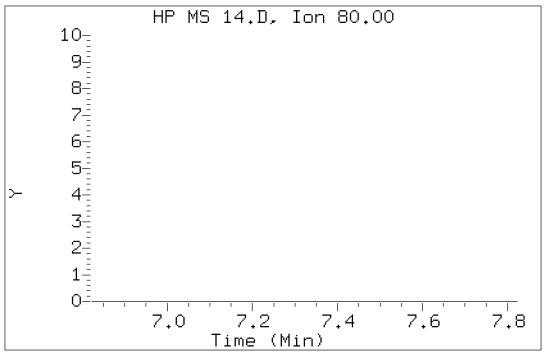
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



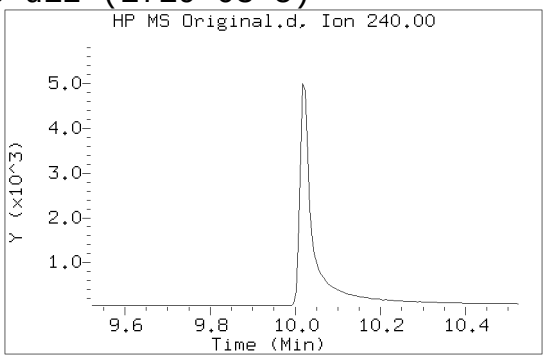
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Chrysene-d12 (1719-03-5)

Reason Code:

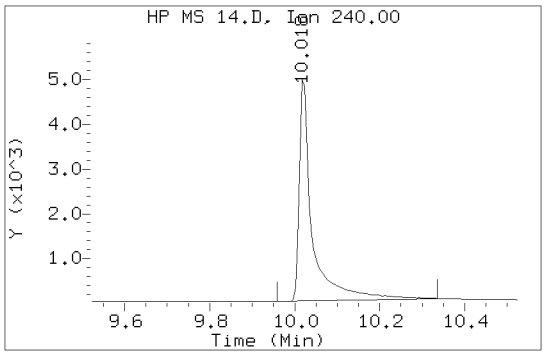
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



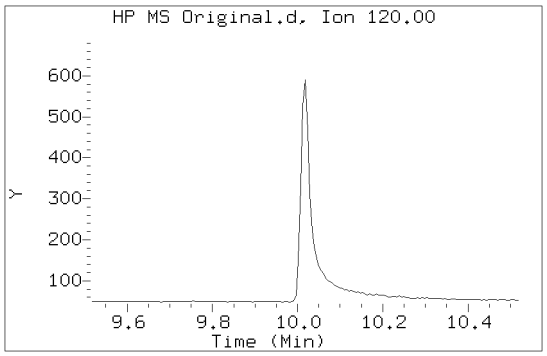
AFTER

MASS
240
AREA
10483
HEIGHT
4943
29-Jun-2023
14:27
ALSHS
Ser



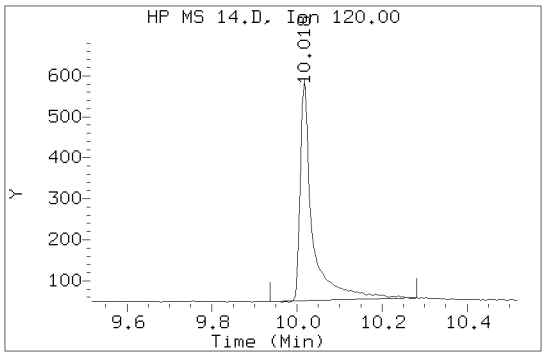
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



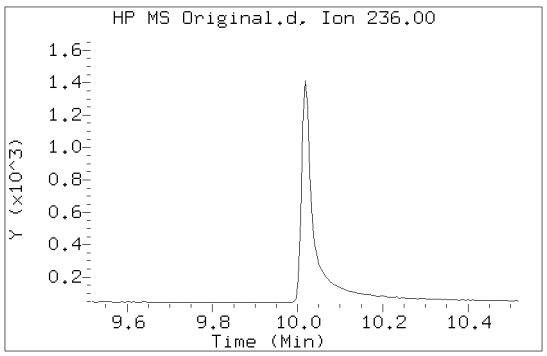
AFTER

MASS
120
AREA
1068
HEIGHT
538
29-Jun-2023
14:27
ALSHS
Ser



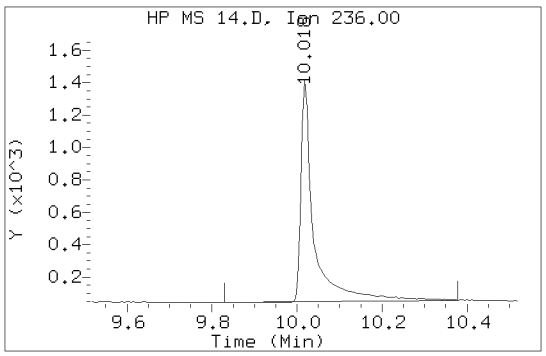
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
236
AREA
2872
HEIGHT
1362
29-Jun-2023
14:27
ALSHS
Ser

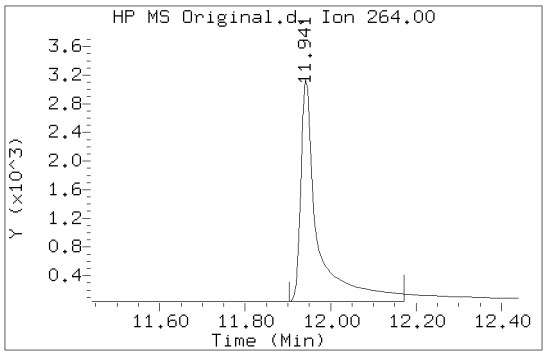


Perylene-d12 (1520-96-3)

Reason Code:

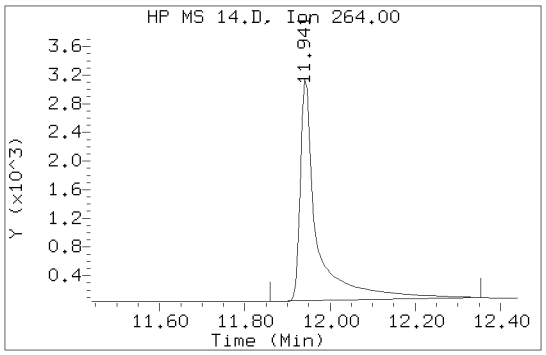
BEFORE

MASS
264
AREA
8406
HEIGHT
3088
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
264
AREA
8460
HEIGHT
3081
29-Jun-2023
14:27
ALSHS
Ser

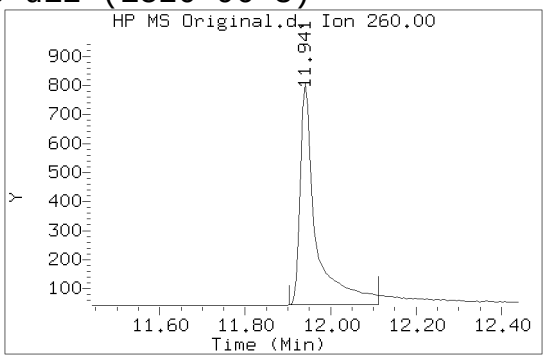


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

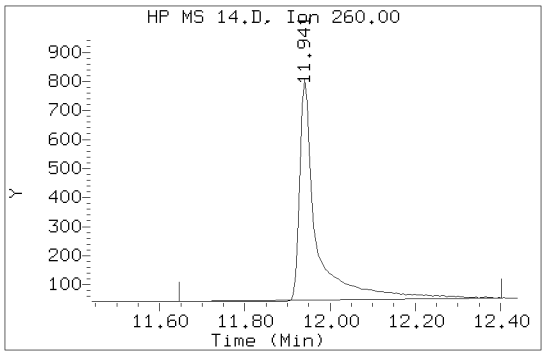
Perylene-d12 (1520-96-3)

Reason Code:

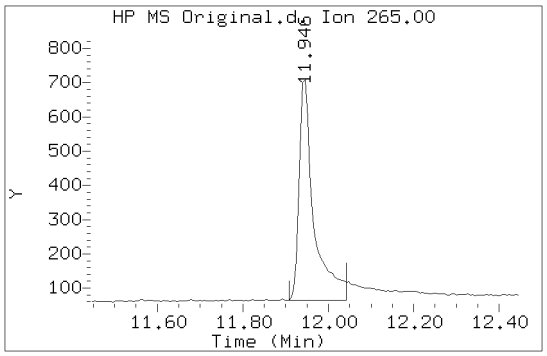
BEFORE
MASS
260
AREA
1950
HEIGHT
761
16-Jun-2023
15:06
ALSHS
Server



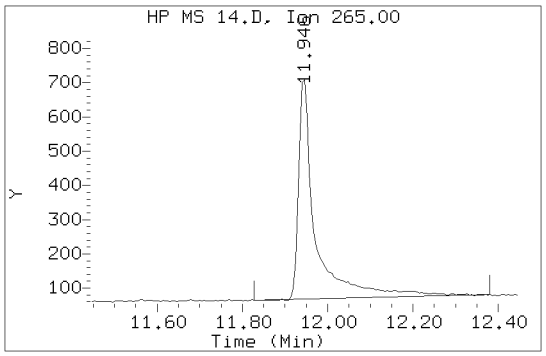
AFTER
MASS
260
AREA
2034
HEIGHT
757
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
265
AREA
1539
HEIGHT
643
16-Jun-2023
15:06
ALSHS
Server



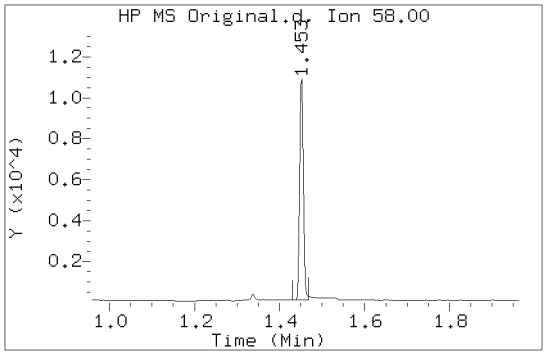
AFTER
MASS
265
AREA
1765
HEIGHT
639
29-Jun-2023
14:27
ALSHS
Ser



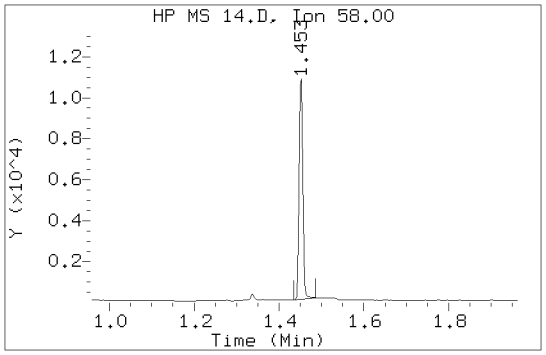
1,4-Dioxane ()

Reason Code:

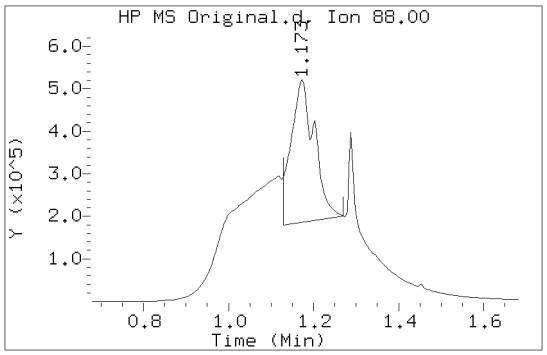
BEFORE
MASS
58
AREA
6535
HEIGHT
10789
16-Jun-2023
15:06
ALSHS
Server



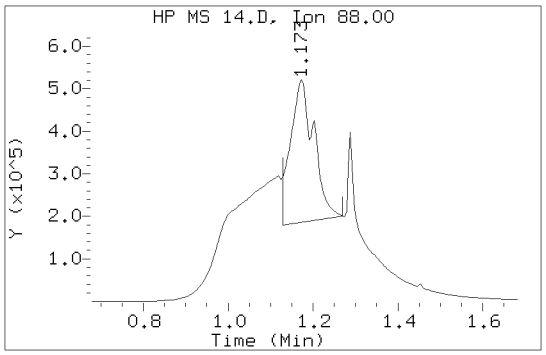
AFTER
MASS
58
AREA
6496
HEIGHT
10751
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
88
AREA
1285756
HEIGHT
334955
16-Jun-2023
15:06
ALSHS
Server



AFTER
MASS
88
AREA
1285756
HEIGHT
334955
29-Jun-2023
14:27
ALSHS
Ser



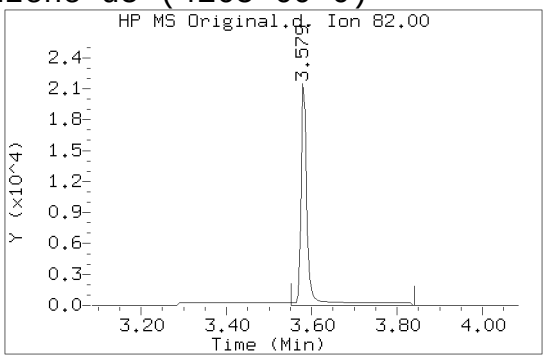
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Nitrobenzene-d5 (4165-60-0)

Reason Code:

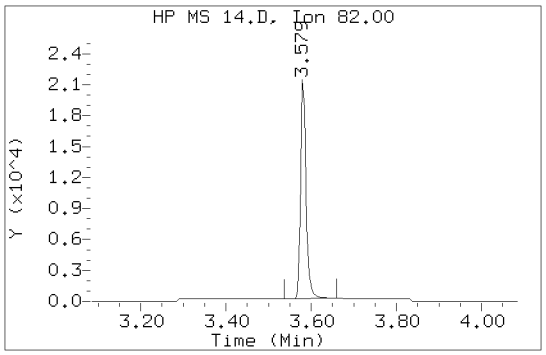
BEFORE

MASS
82
AREA
23560
HEIGHT
21488
16-Jun-2023
15:06
ALSHS
Server



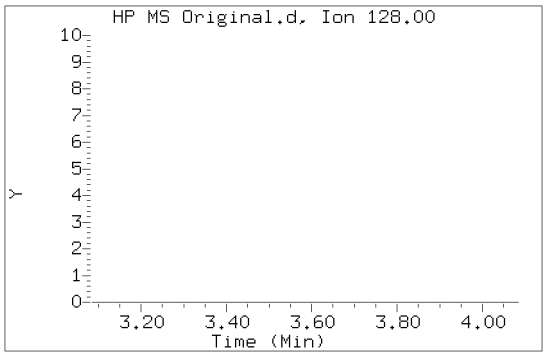
AFTER

MASS
82
AREA
19311
HEIGHT
21230
29-Jun-2023
14:27
ALSHS
Ser



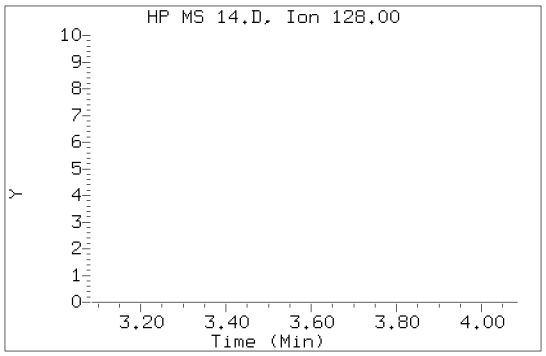
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



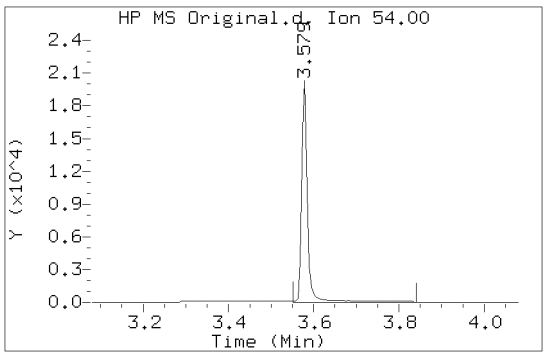
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



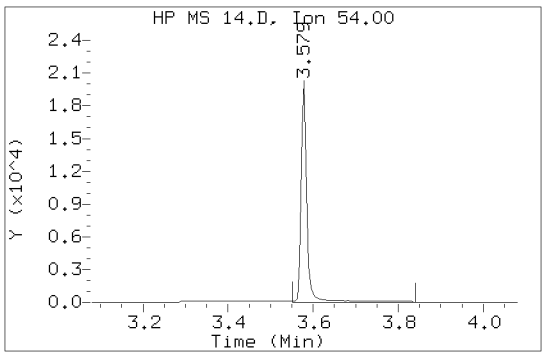
BEFORE

MASS
54
AREA
20065
HEIGHT
20304
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
54
AREA
20065
HEIGHT
20304
29-Jun-2023
14:27
ALSHS
Ser

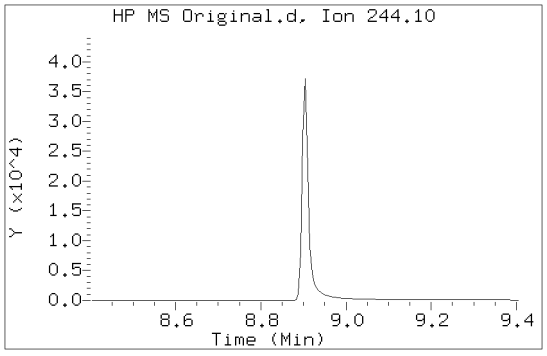


4-Terphenyl-d14 (1718-51-0)

Reason Code:

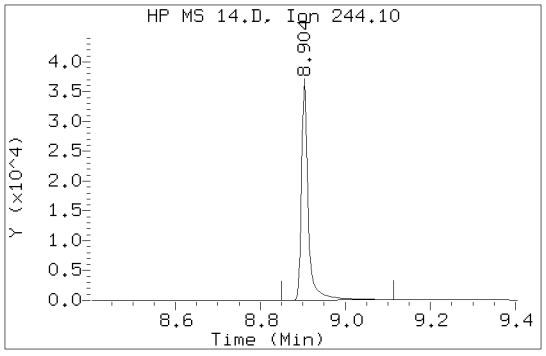
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
244.1
AREA
39805
HEIGHT
37107
29-Jun-2023
14:27
ALSHS
Ser



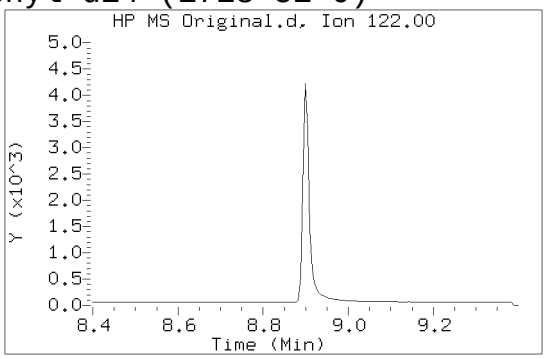
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

4-Terphenyl-d14 (1718-51-0)

Reason Code:

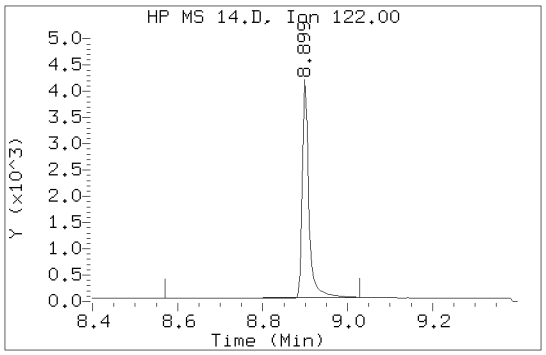
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



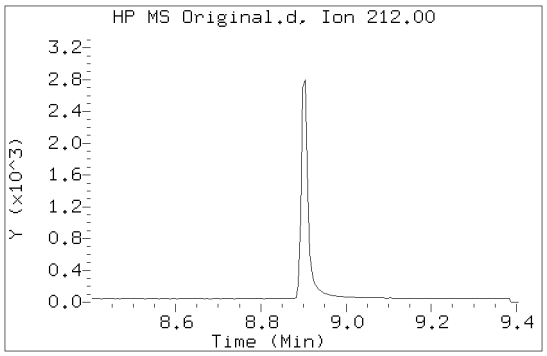
AFTER

MASS
122
AREA
4228
HEIGHT
4149
29-Jun-2023
14:27
ALSHS
Ser



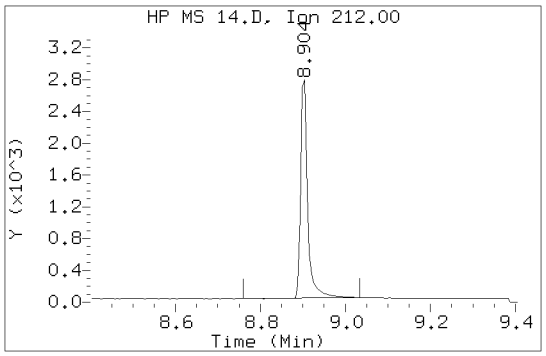
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
212
AREA
3105
HEIGHT
2745
29-Jun-2023
14:27
ALSHS
Ser

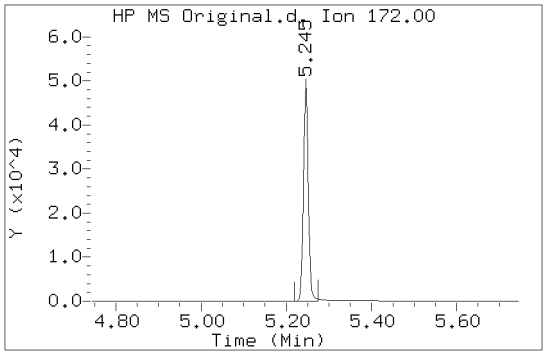


2-Fluorobiphenyl (321-60-8)

Reason Code:

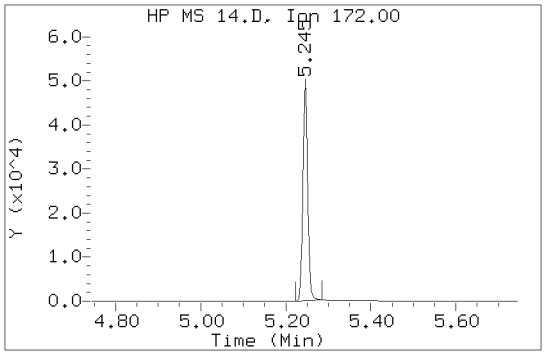
BEFORE

MASS
172
AREA
40002
HEIGHT
50410
16-Jun-2023
15:06
ALSHS
Server



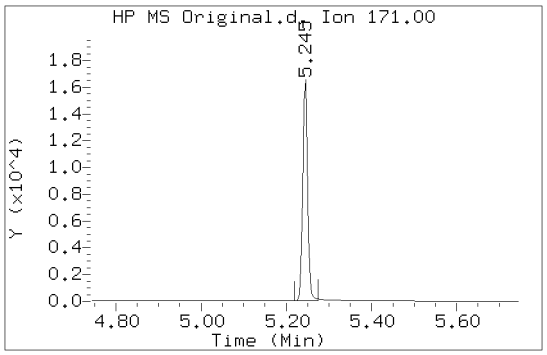
AFTER

MASS
172
AREA
39708
HEIGHT
50322
29-Jun-2023
14:27
ALSHS
Ser



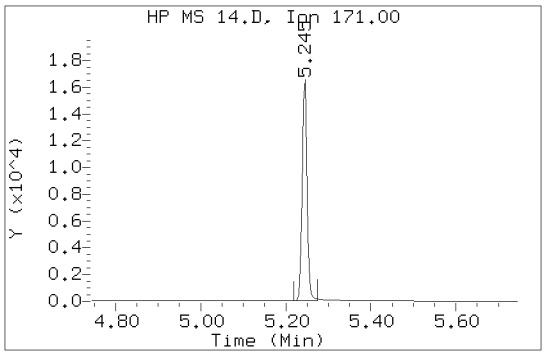
BEFORE

MASS
171
AREA
13389
HEIGHT
16514
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
171
AREA
13389
HEIGHT
16514
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Lab Smp Id: 14DXICAL-0.2 Client Smp ID: 14DXICAL-0.2
Inj Date : 16-JUN-2023 15:56
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.2RR
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 14:51 Cal File: 14.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.122	3.122	(1.000)	3731	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	12688	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	8839	0.20000	0.2304(AM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7256	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	18173	0.20000	0.2446(AM)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	14346	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	8796	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.888)	17639	0.20000	0.2748(AM)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	6565	0.10000	(M)
1 1,4-Dioxane	58	1.460	1.460	(0.468)	2996	0.20000	0.2384(Q)

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.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.

01200787

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D

Date : 16-JUN-2023 15:56

Client ID: 14DXICAL-0.2

Instrument: SV6.i

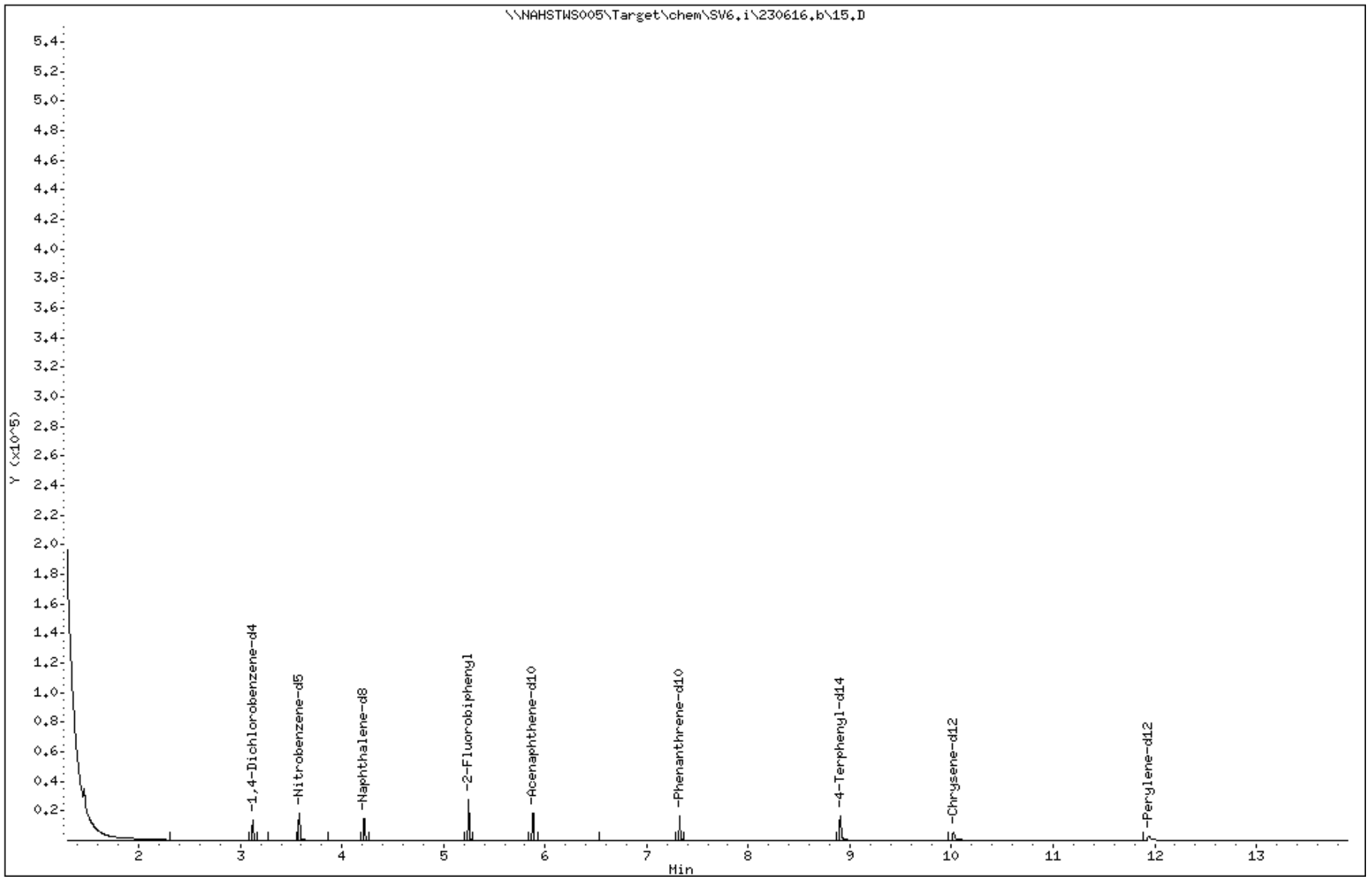
Sample Info: 14DXICAL-0.2RR

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



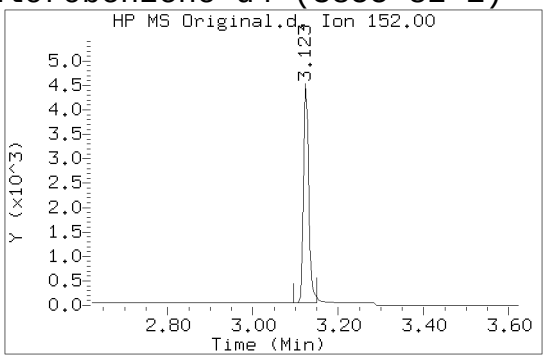
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

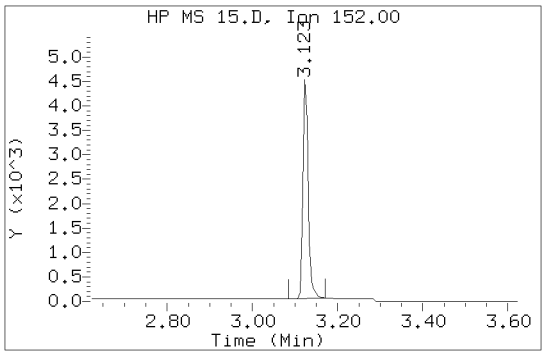
BEFORE

MASS
152
AREA
3749
HEIGHT
4489
16-Jun-2023
16:11
ALSHS
Server



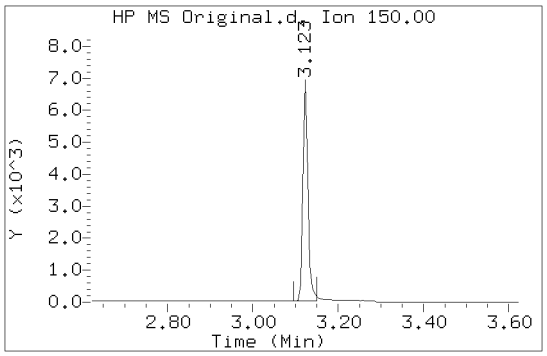
AFTER

MASS
152
AREA
3731
HEIGHT
4478
29-Jun-2023
14:27
ALSHS
Ser



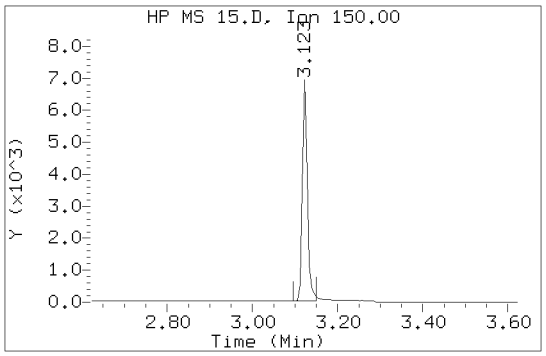
BEFORE

MASS
150
AREA
5426
HEIGHT
6903
16-Jun-2023
16:11
ALSHS
Server



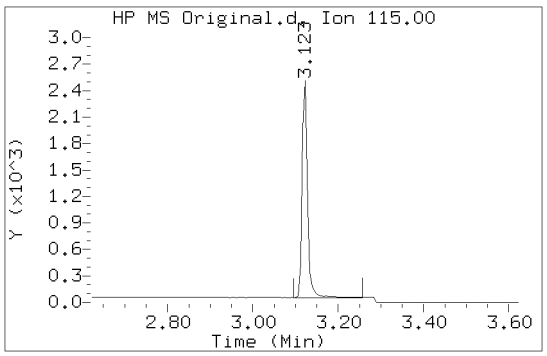
AFTER

MASS
150
AREA
5426
HEIGHT
6903
29-Jun-2023
14:27
ALSHS
Ser



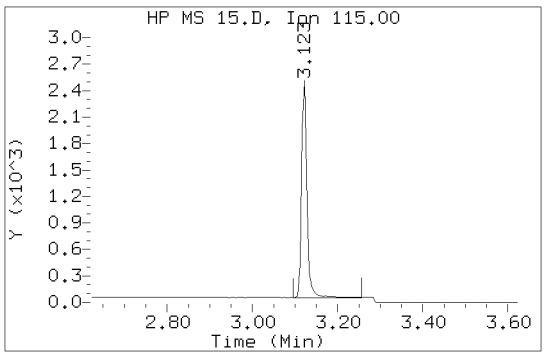
BEFORE

MASS
115
AREA
2094
HEIGHT
2459
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
115
AREA
2094
HEIGHT
2459
29-Jun-2023
14:27
ALSHS
Ser

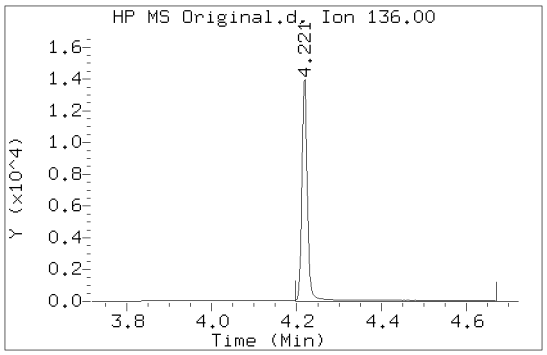


Naphthalene-d8 (1146-65-2)

Reason Code:

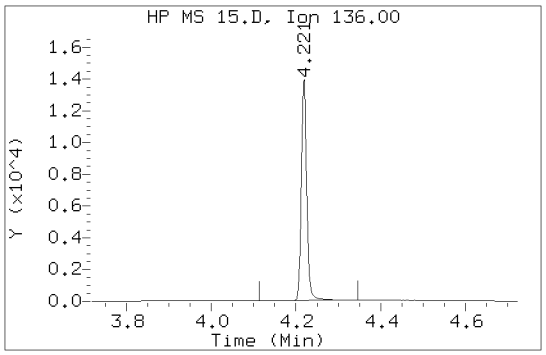
BEFORE

MASS
136
AREA
14465
HEIGHT
13959
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
136
AREA
12688
HEIGHT
13897
29-Jun-2023
14:27
ALSHS
Ser



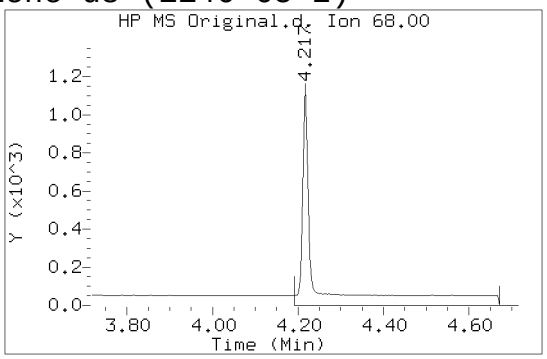
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Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Naphthalene-d8 (1146-65-2)

Reason Code:

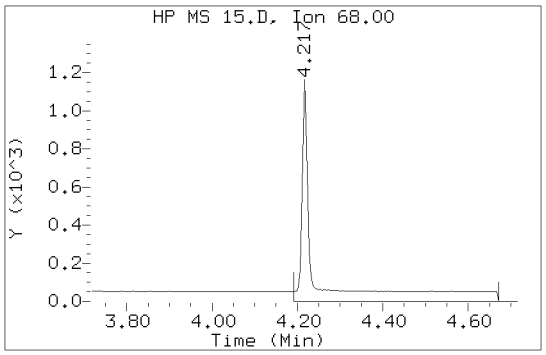
BEFORE

MASS
68
AREA
2461
HEIGHT
1163
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
68
AREA
2461
HEIGHT
1163
29-Jun-2023
14:27
ALSHS
Ser

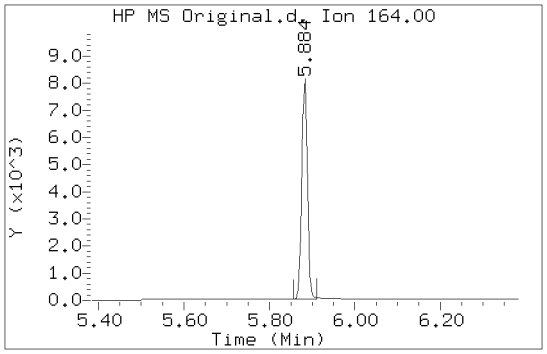


Acenaphthene-d10 (15067-26-2)

Reason Code:

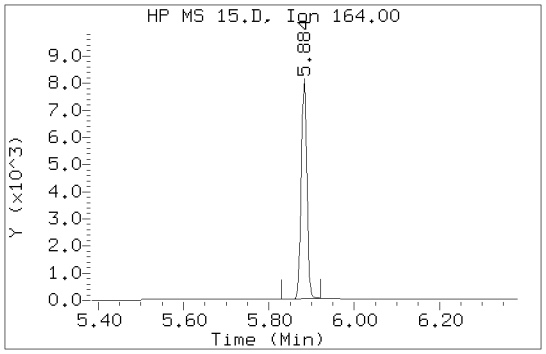
BEFORE

MASS
164
AREA
7305
HEIGHT
8114
16-Jun-2023
16:11
ALSHS
Server



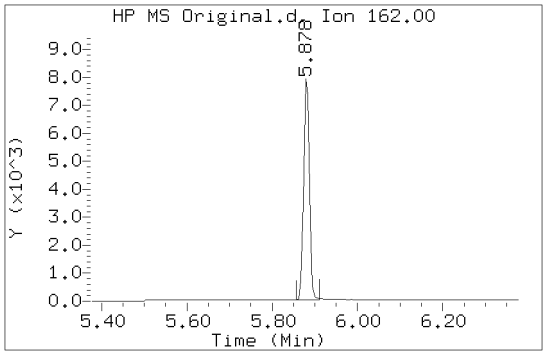
AFTER

MASS
164
AREA
7256
HEIGHT
8100
29-Jun-2023
14:27
ALSHS
Ser



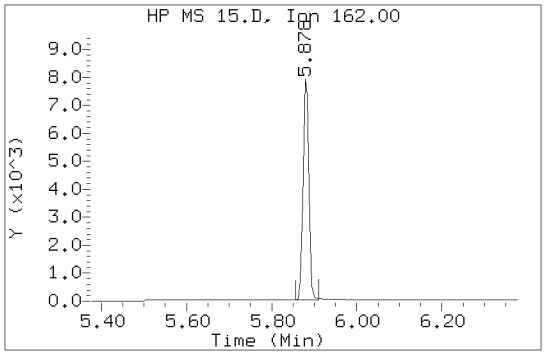
BEFORE

MASS
162
AREA
7389
HEIGHT
7893
16-Jun-2023
16:11
ALSHS
Server



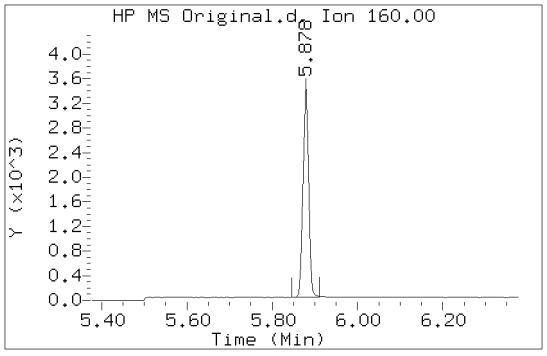
AFTER

MASS
162
AREA
7389
HEIGHT
7893
29-Jun-2023
14:27
ALSHS
Ser



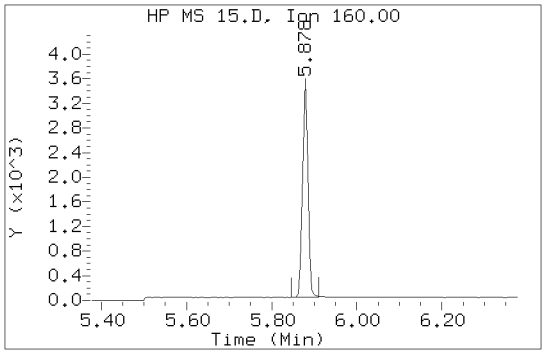
BEFORE

MASS
160
AREA
3110
HEIGHT
3554
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
160
AREA
3110
HEIGHT
3554
29-Jun-2023
14:27
ALSHS
Ser

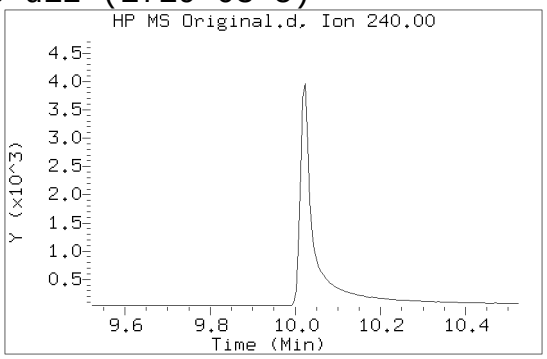


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

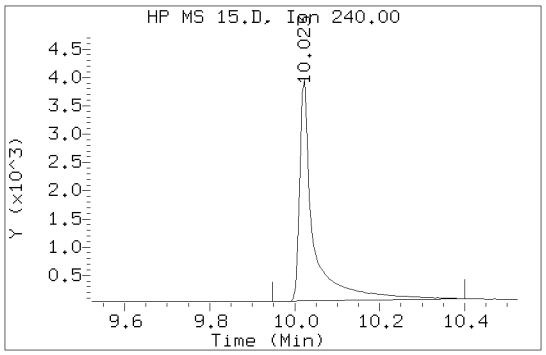
Chrysene-d12 (1719-03-5)

Reason Code:

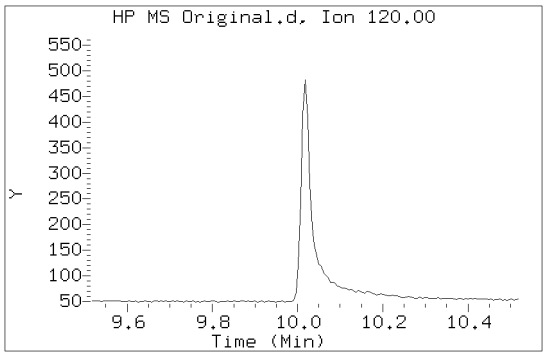
BEFORE
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



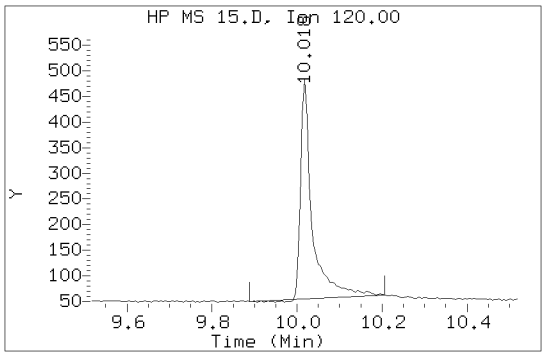
AFTER
MASS
240
AREA
8796
HEIGHT
3907
29-Jun-2023
14:27
ALSHS
Ser



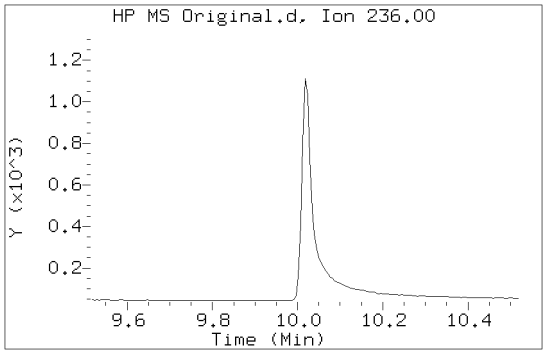
BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



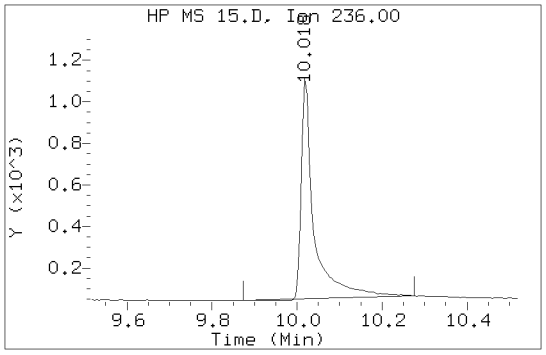
AFTER
MASS
120
AREA
798
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



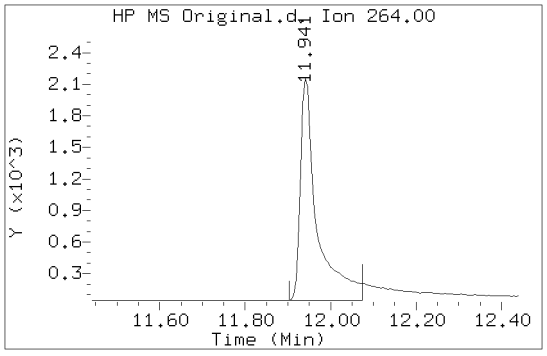
AFTER
MASS
236
AREA
2198
HEIGHT
1058
29-Jun-2023
14:27
ALSHS
Ser



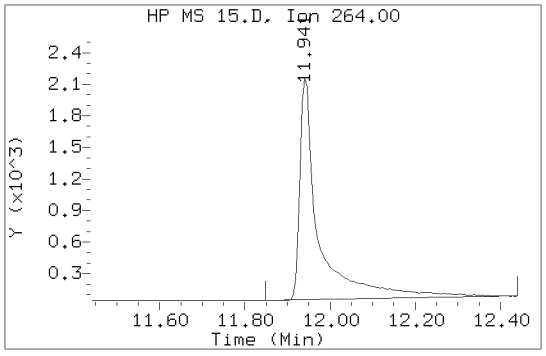
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
264
AREA
5713
HEIGHT
2106
16-Jun-2023
16:11
ALSHS
Server



AFTER
MASS
264
AREA
6565
HEIGHT
2100
29-Jun-2023
14:27
ALSHS
Ser



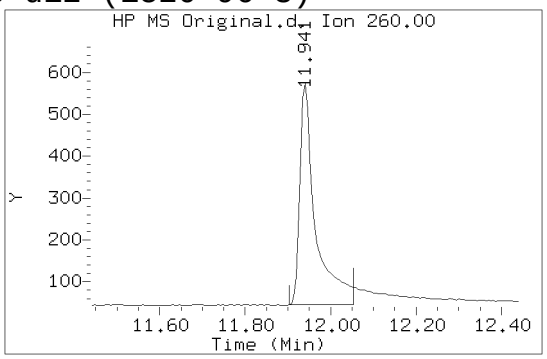
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Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Perylene-d12 (1520-96-3)

Reason Code:

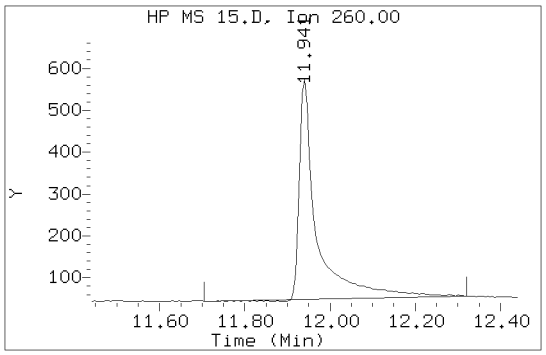
BEFORE

MASS
260
AREA
1348
HEIGHT
528
16-Jun-2023
16:11
ALSHS
Server



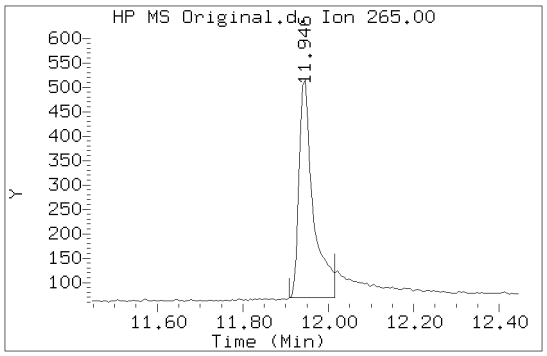
AFTER

MASS
260
AREA
1491
HEIGHT
524
29-Jun-2023
14:27
ALSHS
Ser



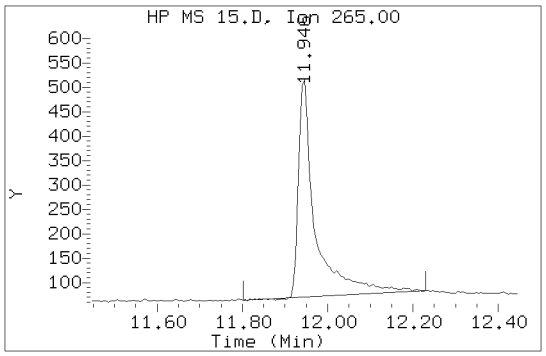
BEFORE

MASS
265
AREA
1037
HEIGHT
446
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
265
AREA
1210
HEIGHT
444
29-Jun-2023
14:27
ALSHS
Ser

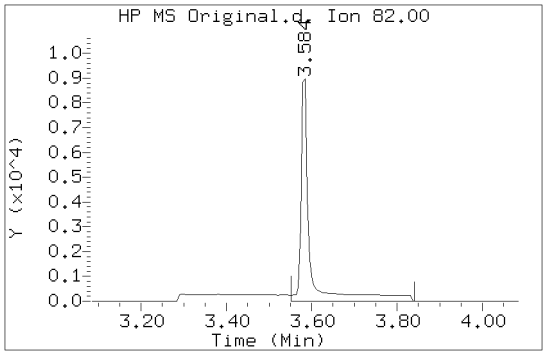


Nitrobenzene-d5 (4165-60-0)

Reason Code:

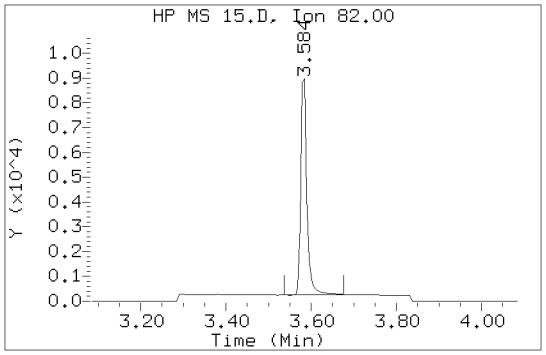
BEFORE

MASS
82
AREA
13113
HEIGHT
8968
16-Jun-2023
16:11
ALSHS
Server



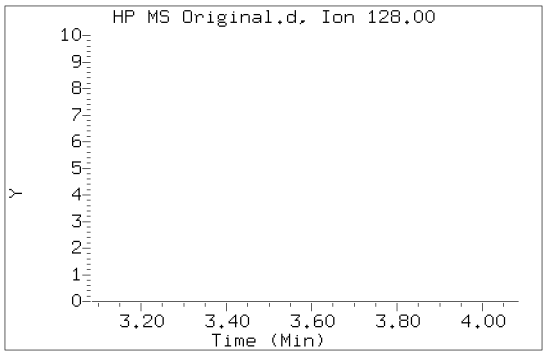
AFTER

MASS
82
AREA
8839
HEIGHT
8709
29-Jun-2023
14:27
ALSHS
Ser



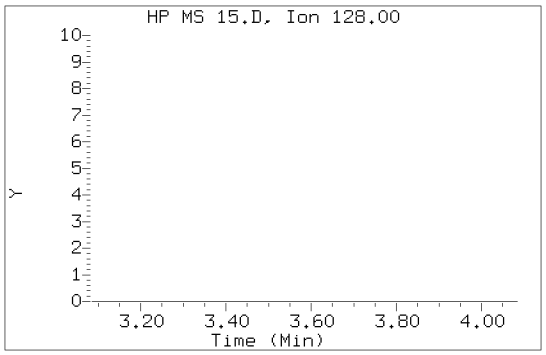
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

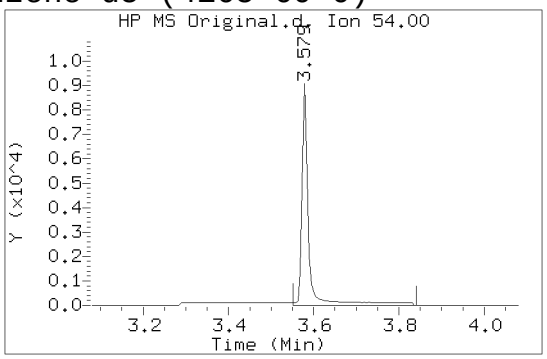


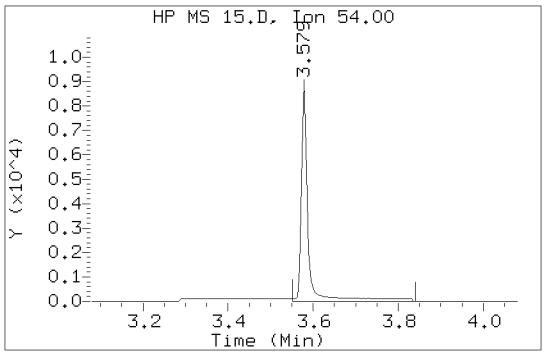
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Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE		AFTER	
MASS		MASS	
54		54	
AREA		AREA	
10106		10106	
HEIGHT		HEIGHT	
9078		9078	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	

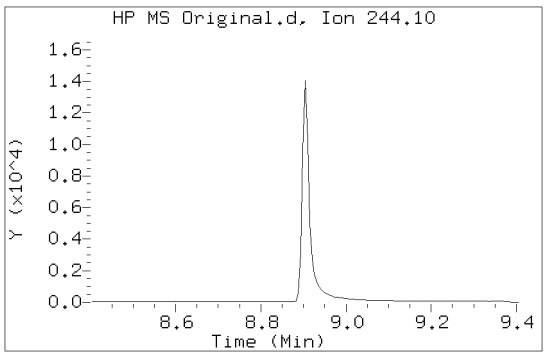


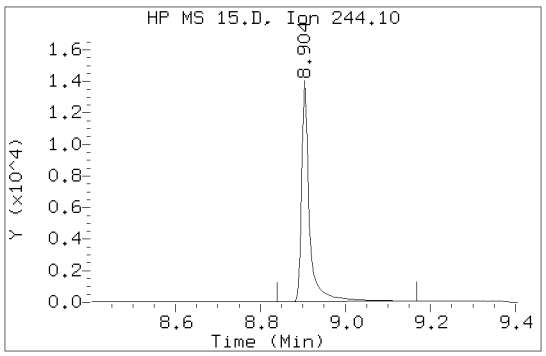


4-Terphenyl-d14 (1718-51-0)

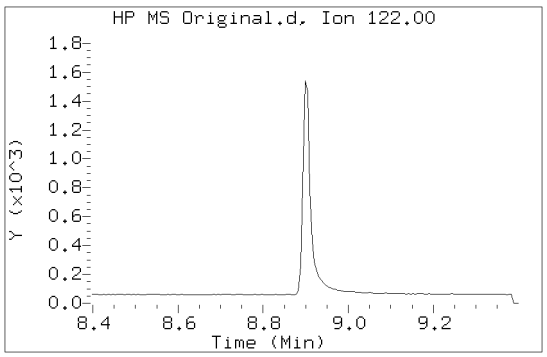
Reason Code:

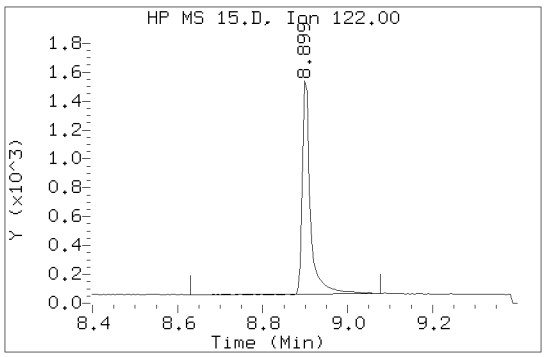
BEFORE		AFTER	
MASS		MASS	
244.1		244.1	
AREA		AREA	
0		17639	
HEIGHT		HEIGHT	
0		13989	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	



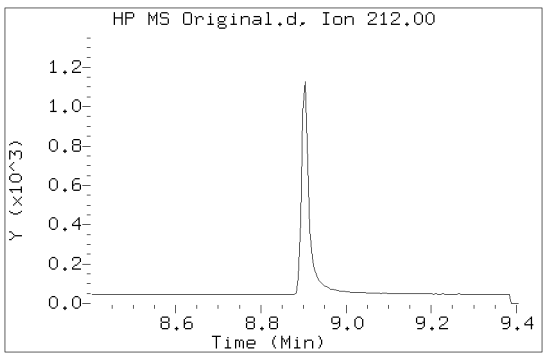


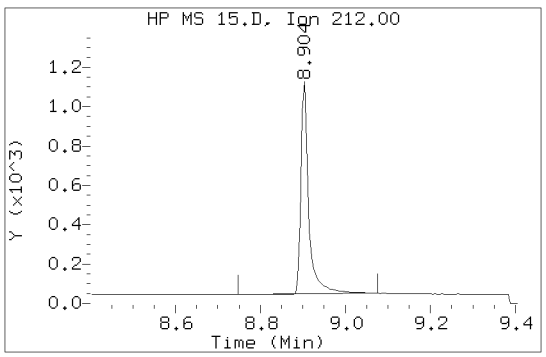
BEFORE		AFTER	
MASS		MASS	
122		122	
AREA		AREA	
0		1896	
HEIGHT		HEIGHT	
0		1474	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	





BEFORE		AFTER	
MASS		MASS	
212		212	
AREA		AREA	
0		1371	
HEIGHT		HEIGHT	
0		1079	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	





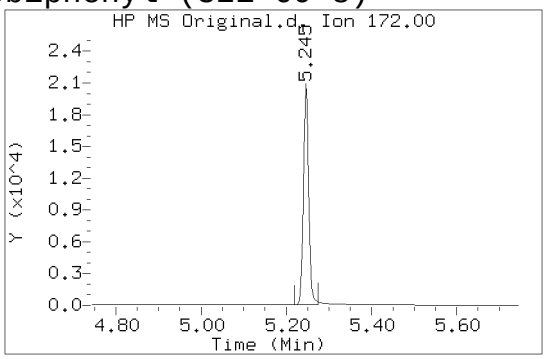
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

2-Fluorobiphenyl (321-60-8)

Reason Code:

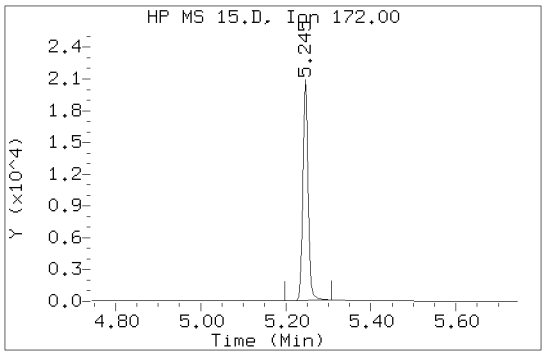
BEFORE

MASS
172
AREA
18197
HEIGHT
20880
16-Jun-2023
16:11
ALSHS
Server



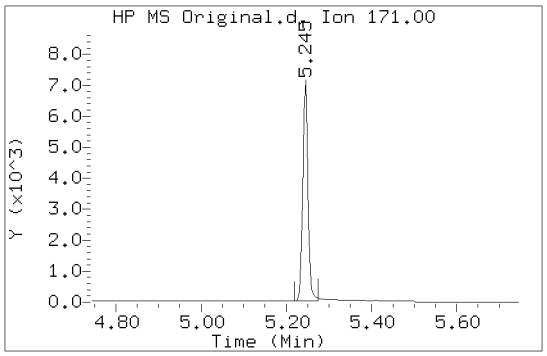
AFTER

MASS
172
AREA
18173
HEIGHT
20843
29-Jun-2023
14:27
ALSHS
Ser



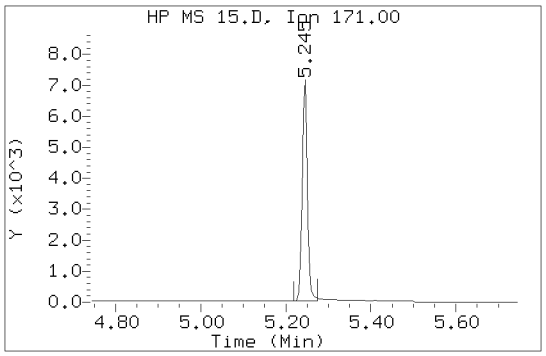
BEFORE

MASS
171
AREA
6120
HEIGHT
7129
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
171
AREA
6120
HEIGHT
7129
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Lab Smp Id: 14DXICV-0.08 Client Smp ID: 14DXICV-0.08
Inj Date : 16-JUN-2023 16:22
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.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)
* 20 1,4-Dichlorobenzene-d4	152	3.128	3.122	(1.000)	5295	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	17725	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	3797	0.07086	0.07086(M)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10379	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.248	5.245	(0.892)	8542	0.08036	0.08036(M)
* 126 Phenanthrene-d10	188	7.328	7.322	(1.000)	20505	0.10000	(M)
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	12662	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.904	(0.889)	7743	0.08379	0.08379(M)
* 198 Perylene-d12	264	11.945	11.940	(1.000)	10635	0.10000	(M)
1 1,4-Dioxane	58	1.464	1.460	(0.468)	1261	0.07070	0.07070(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01200795

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D

Date : 16-JUN-2023 16:22

Client ID: 14DXICV-0.08

Instrument: SV6.i

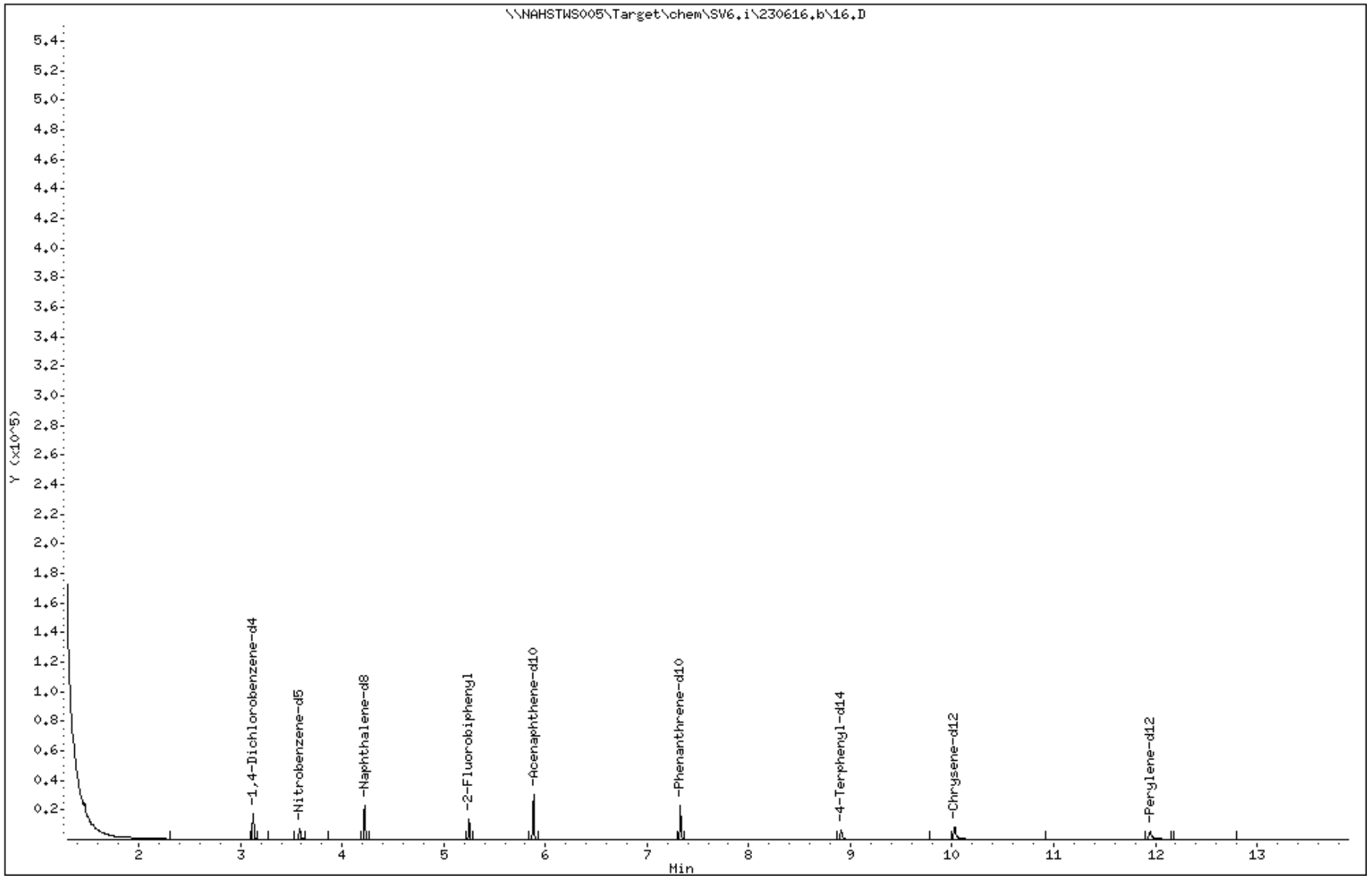
Sample Info: 14DXICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



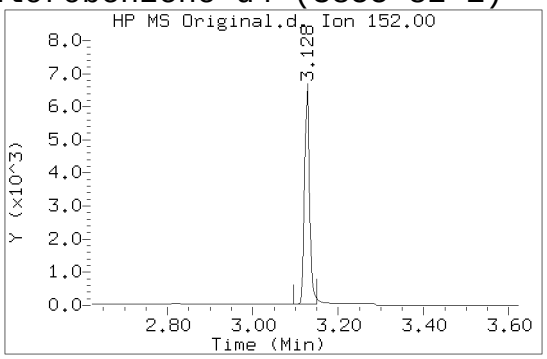
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

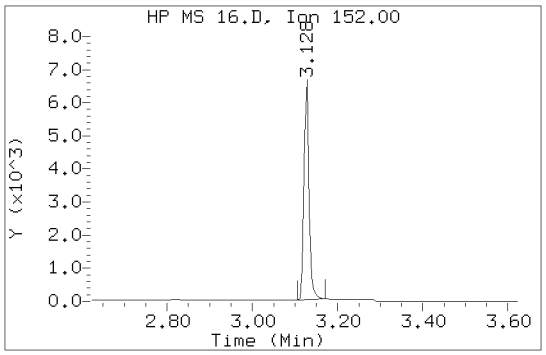
BEFORE

MASS
152
AREA
5292
HEIGHT
6650
16-Jun-2023
16:37
ALSHS
Server



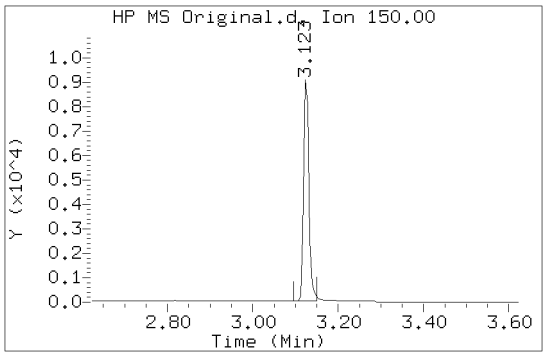
AFTER

MASS
152
AREA
5295
HEIGHT
6641
29-Jun-2023
14:27
ALSHS
Ser



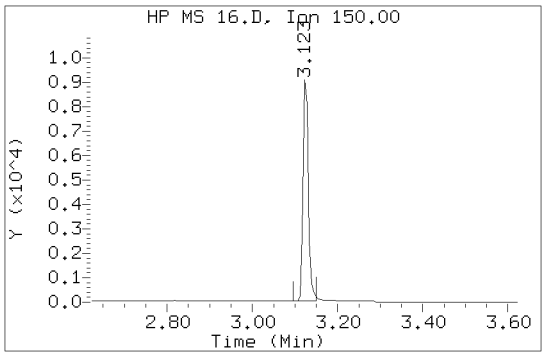
BEFORE

MASS
150
AREA
7668
HEIGHT
9050
16-Jun-2023
16:37
ALSHS
Server



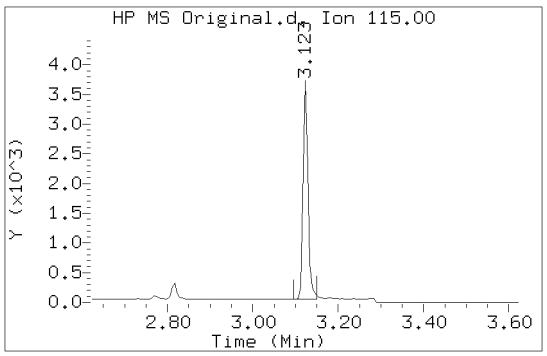
AFTER

MASS
150
AREA
7668
HEIGHT
9050
29-Jun-2023
14:27
ALSHS
Ser



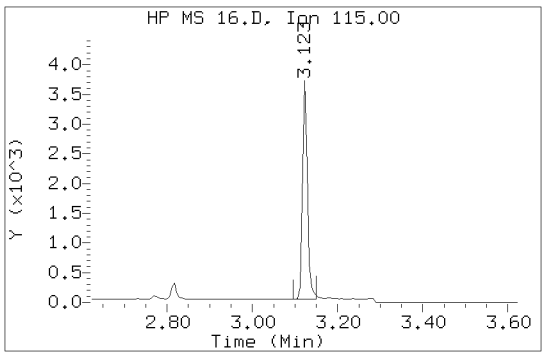
BEFORE

MASS
115
AREA
2824
HEIGHT
3676
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
115
AREA
2824
HEIGHT
3676
29-Jun-2023
14:27
ALSHS
Ser

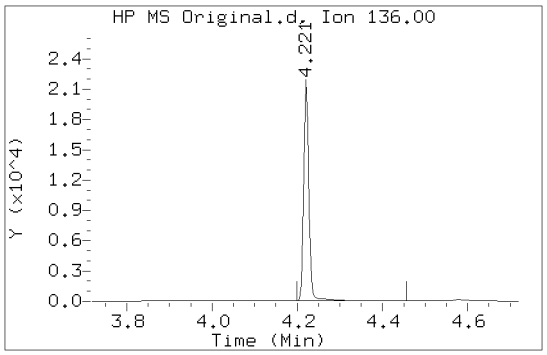


Naphthalene-d8 (1146-65-2)

Reason Code:

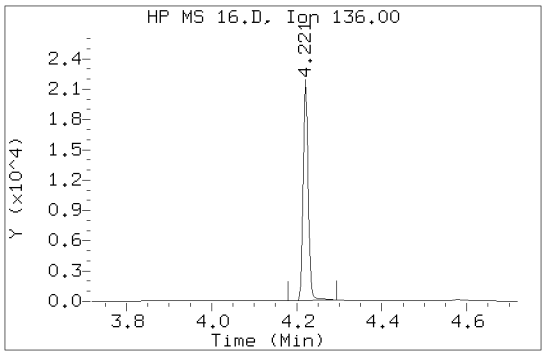
BEFORE

MASS
136
AREA
18147
HEIGHT
21880
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
136
AREA
17725
HEIGHT
21858
29-Jun-2023
14:27
ALSHS
Ser



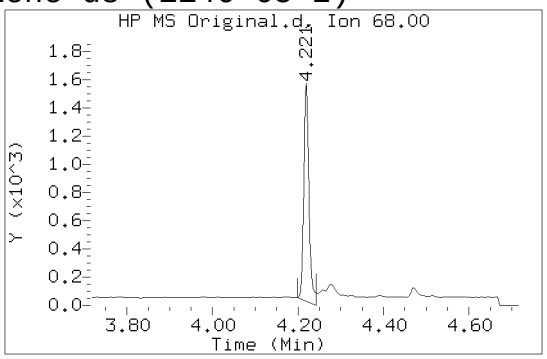
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

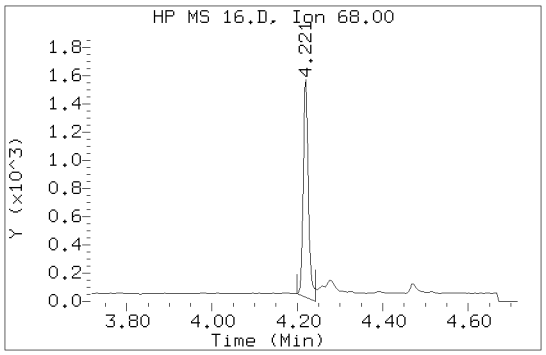
BEFORE

MASS
68
AREA
1351
HEIGHT
1544
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
68
AREA
1351
HEIGHT
1544
29-Jun-2023
14:27
ALSHS
Ser

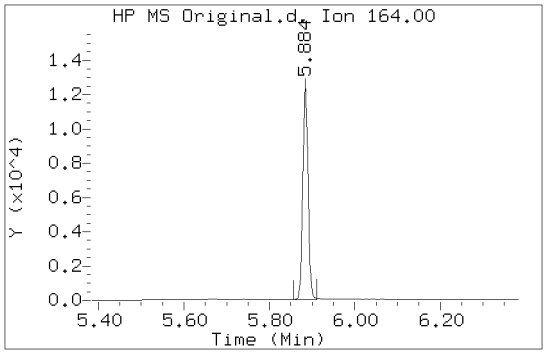


Acenaphthene-d10 (15067-26-2)

Reason Code:

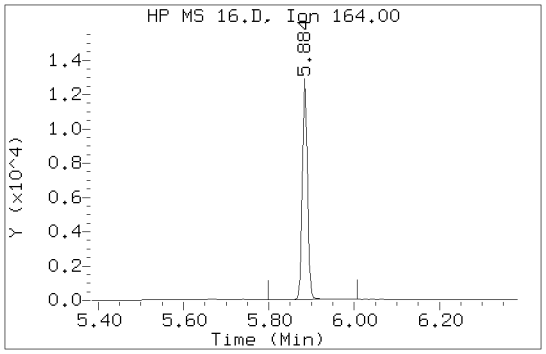
BEFORE

MASS
164
AREA
10322
HEIGHT
12879
16-Jun-2023
16:37
ALSHS
Server



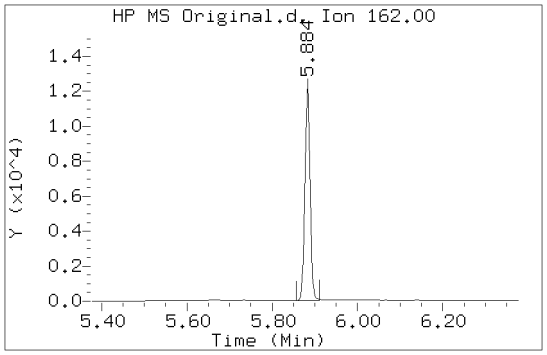
AFTER

MASS
164
AREA
10379
HEIGHT
12877
29-Jun-2023
14:27
ALSHS
Ser



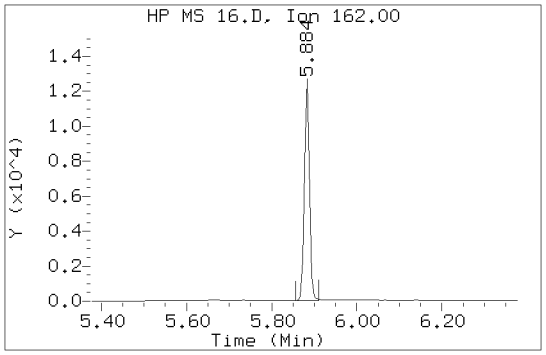
BEFORE

MASS
162
AREA
10387
HEIGHT
12657
16-Jun-2023
16:37
ALSHS
Server



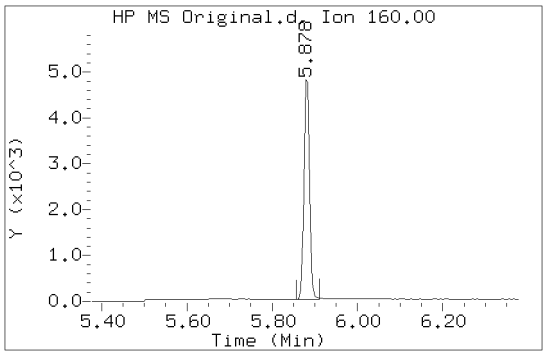
AFTER

MASS
162
AREA
10387
HEIGHT
12657
29-Jun-2023
14:27
ALSHS
Ser



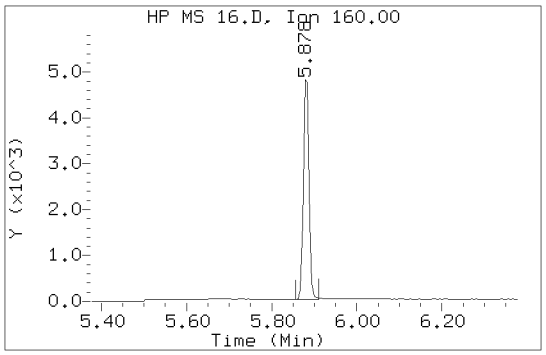
BEFORE

MASS
160
AREA
4356
HEIGHT
4785
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
160
AREA
4356
HEIGHT
4785
29-Jun-2023
14:27
ALSHS
Ser



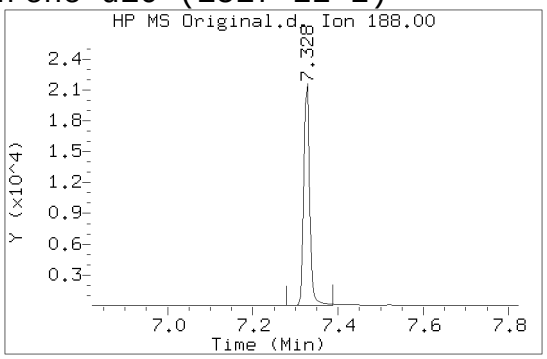
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

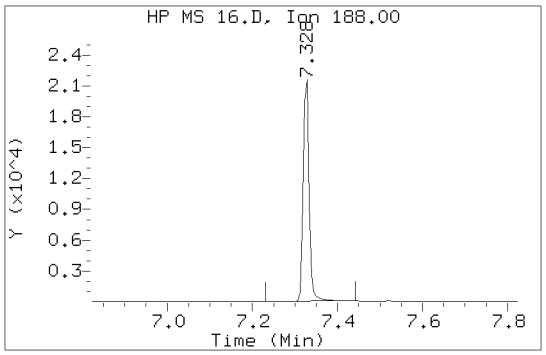
BEFORE

MASS
188
AREA
20554
HEIGHT
21579
16-Jun-2023
16:37
ALSHS
Server



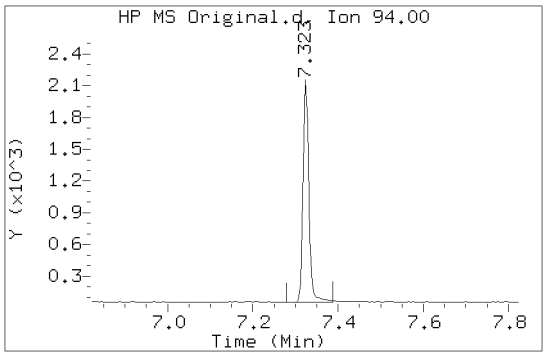
AFTER

MASS
188
AREA
20505
HEIGHT
21562
29-Jun-2023
14:27
ALSHS
Ser



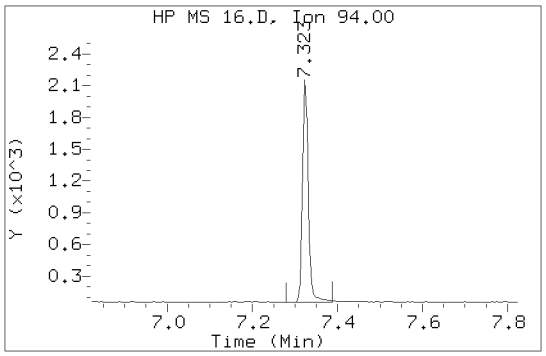
BEFORE

MASS
94
AREA
1950
HEIGHT
2099
16-Jun-2023
16:37
ALSHS
Server



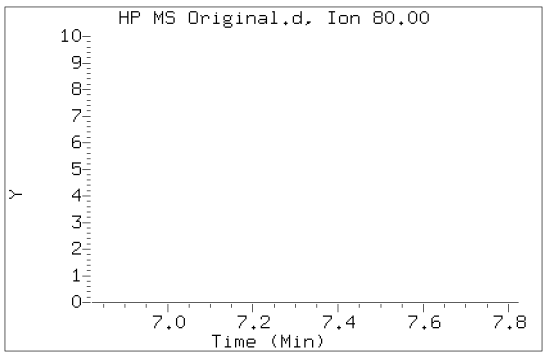
AFTER

MASS
94
AREA
1950
HEIGHT
2099
29-Jun-2023
14:27
ALSHS
Ser



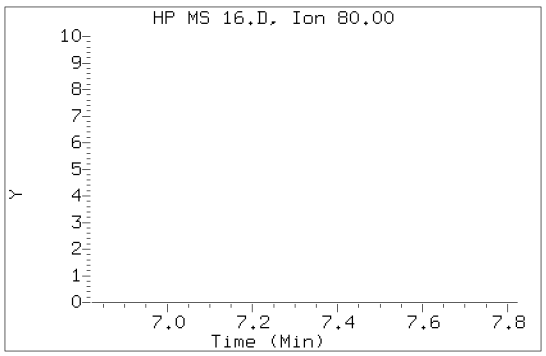
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

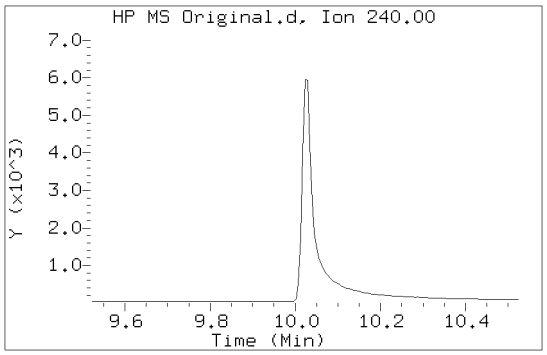


Chrysene-d12 (1719-03-5)

Reason Code:

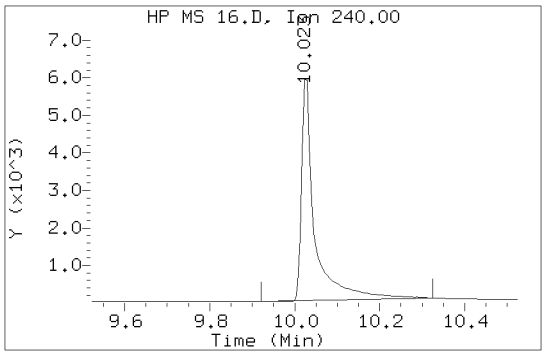
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
240
AREA
12662
HEIGHT
5881
29-Jun-2023
14:27
ALSHS
Ser



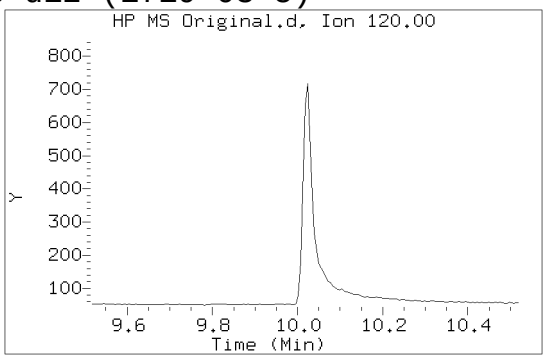
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

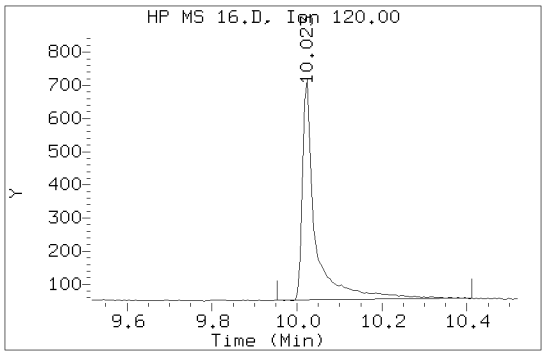
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



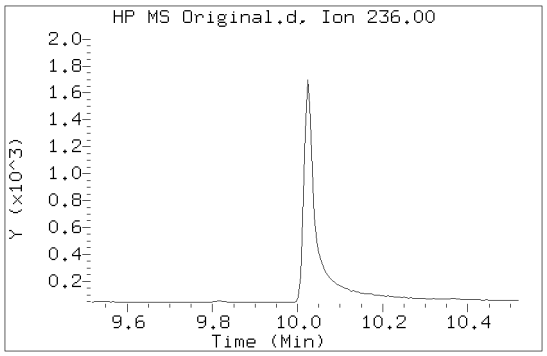
AFTER

MASS
120
AREA
1417
HEIGHT
664
29-Jun-2023
14:27
ALSHS
Ser



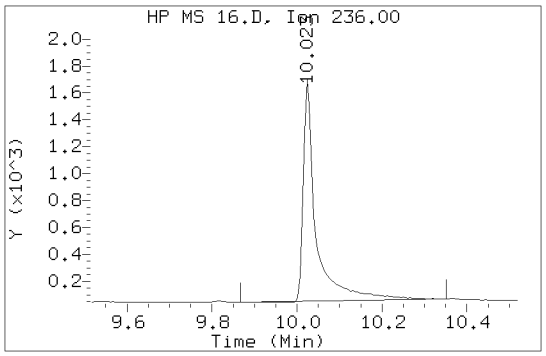
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
236
AREA
3367
HEIGHT
1641
29-Jun-2023
14:27
ALSHS
Ser

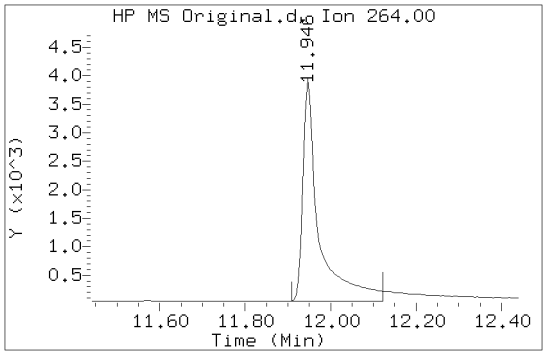


Perylene-d12 (1520-96-3)

Reason Code:

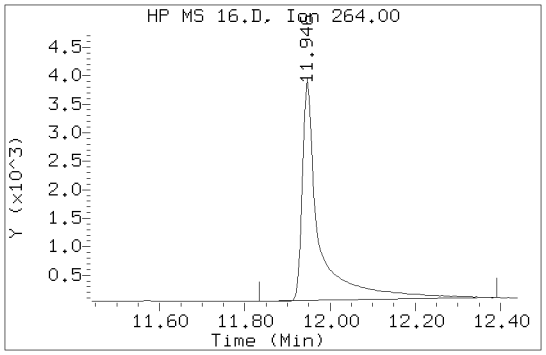
BEFORE

MASS
264
AREA
10066
HEIGHT
3896
16-Jun-2023
16:37
ALSHS
Server



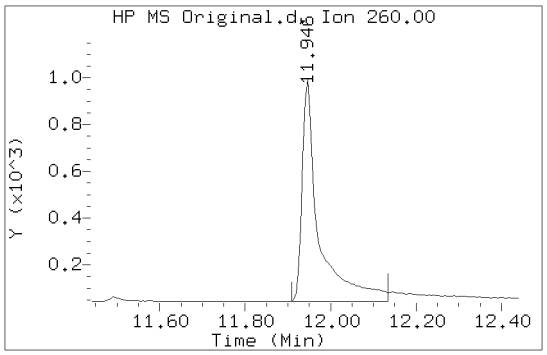
AFTER

MASS
264
AREA
10635
HEIGHT
3885
29-Jun-2023
14:27
ALSHS
Ser



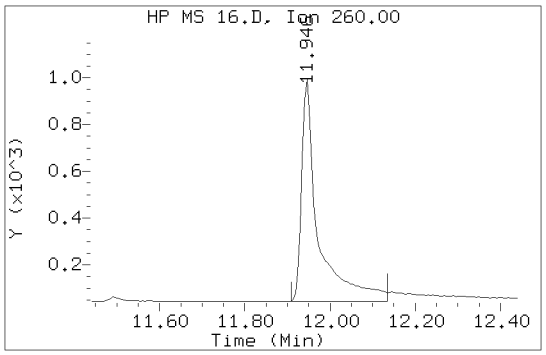
BEFORE

MASS
260
AREA
2544
HEIGHT
947
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
260
AREA
2544
HEIGHT
947
29-Jun-2023
14:27
ALSHS
Ser



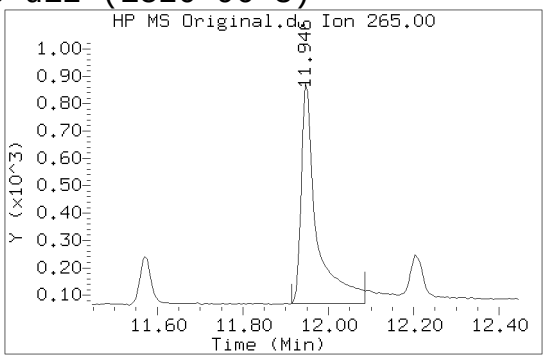
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Perylene-d12 (1520-96-3)

Reason Code:

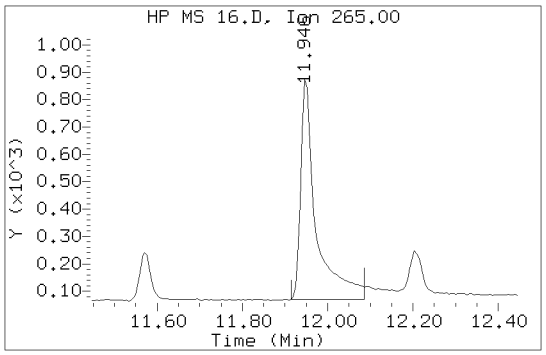
BEFORE

MASS
265
AREA
2015
HEIGHT
803
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
265
AREA
2015
HEIGHT
803
29-Jun-2023
14:27
ALSHS
Ser

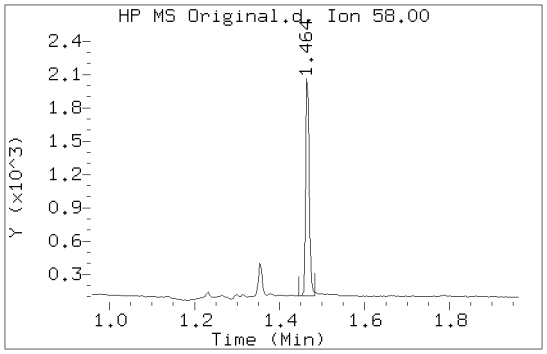


1,4-Dioxane ()

Reason Code:

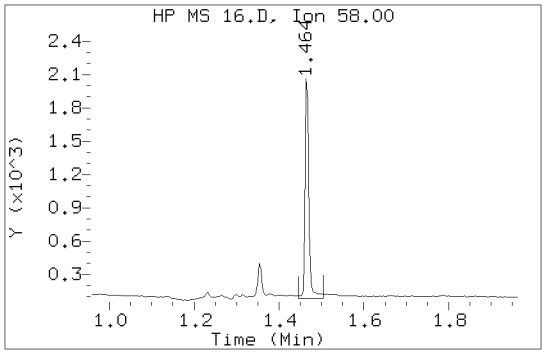
BEFORE

MASS
58
AREA
1149
HEIGHT
1956
16-Jun-2023
16:37
ALSHS
Server



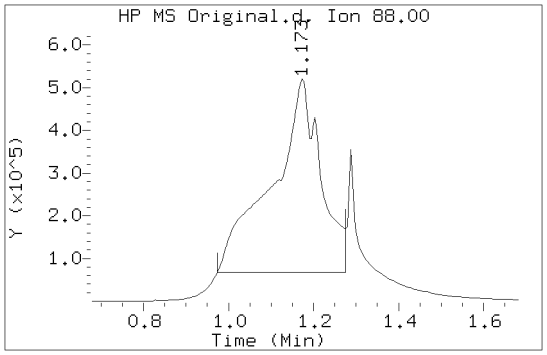
AFTER

MASS
58
AREA
1261
HEIGHT
1979
29-Jun-2023
14:27
ALSHS
Ser



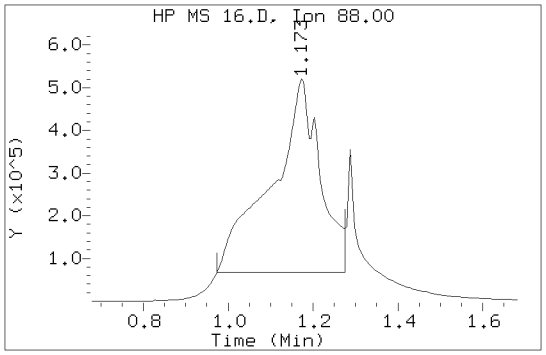
BEFORE

MASS
88
AREA
3609729
HEIGHT
452352
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
88
AREA
3609729
HEIGHT
452352
29-Jun-2023
14:27
ALSHS
Ser

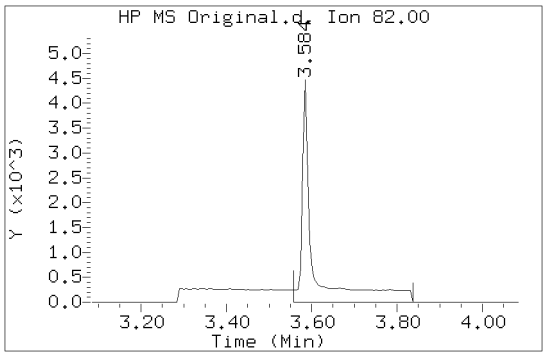


Nitrobenzene-d5 (4165-60-0)

Reason Code:

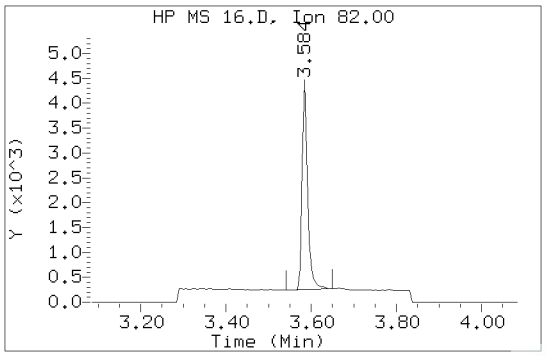
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MASS
82
AREA
8001
HEIGHT
4469
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
82
AREA
3797
HEIGHT
4214
29-Jun-2023
14:27
ALSHS
Ser



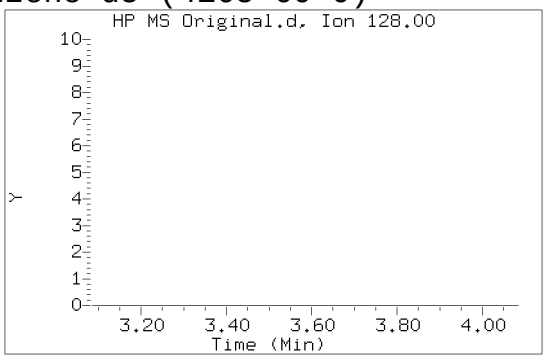
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

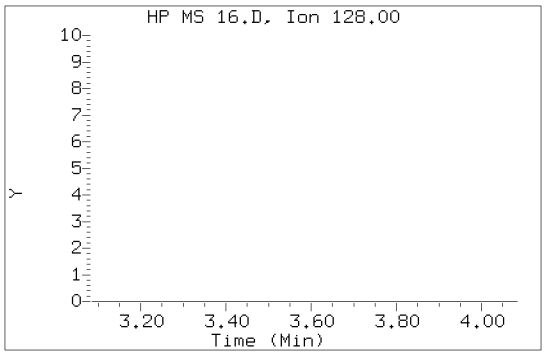
BEFORE

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128
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



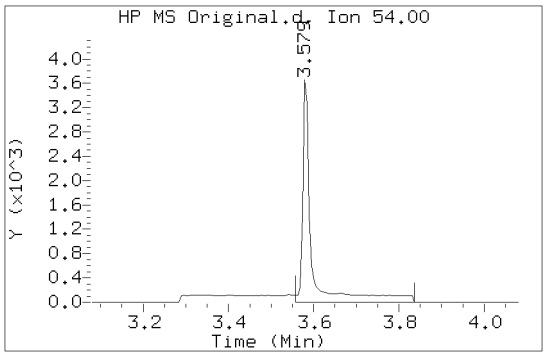
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MASS
128
AREA
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0
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14:27
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Ser



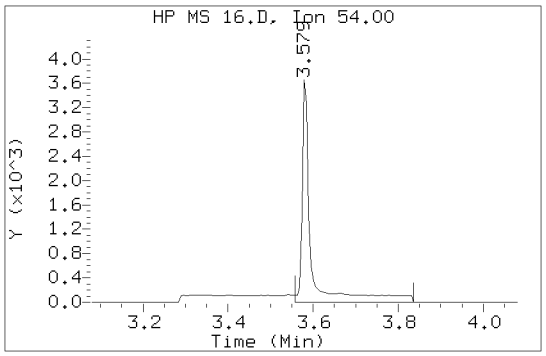
BEFORE

MASS
54
AREA
5382
HEIGHT
3655
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
54
AREA
5382
HEIGHT
3655
29-Jun-2023
14:27
ALSHS
Ser

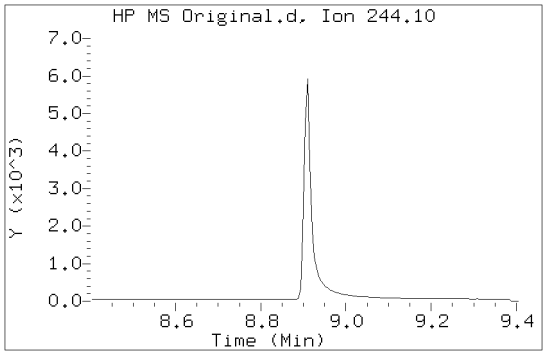


4-Terphenyl-d14 (1718-51-0)

Reason Code:

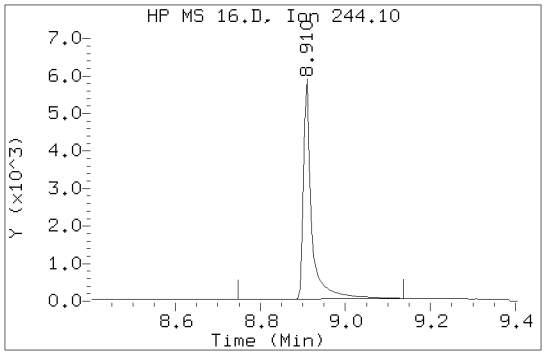
BEFORE

MASS
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AREA
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HEIGHT
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16-Jun-2023
16:37
ALSHS
Server



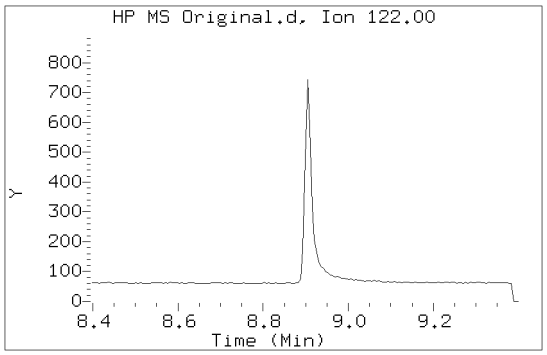
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AREA
7743
HEIGHT
5864
29-Jun-2023
14:27
ALSHS
Ser



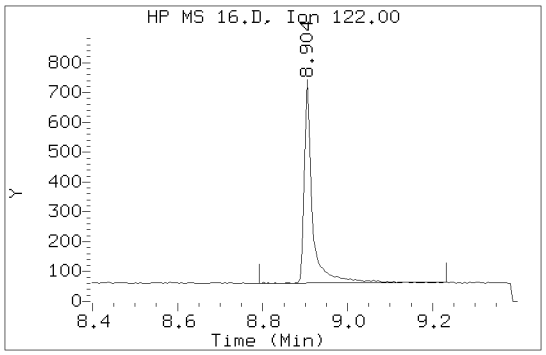
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
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AREA
889
HEIGHT
681
29-Jun-2023
14:27
ALSHS
Ser



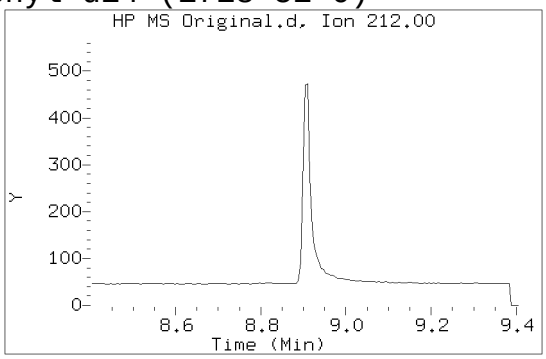
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

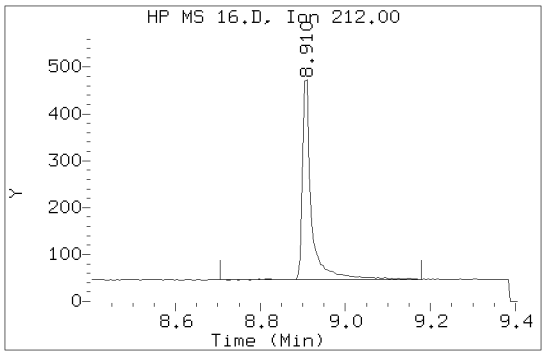
BEFORE

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AREA
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HEIGHT
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16-Jun-2023
16:37
ALSHS
Server



AFTER

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AREA
632
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser

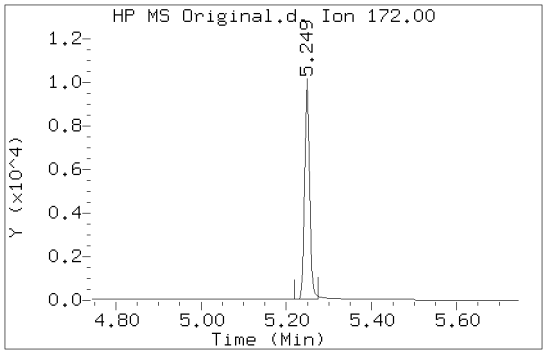


2-Fluorobiphenyl (321-60-8)

Reason Code:

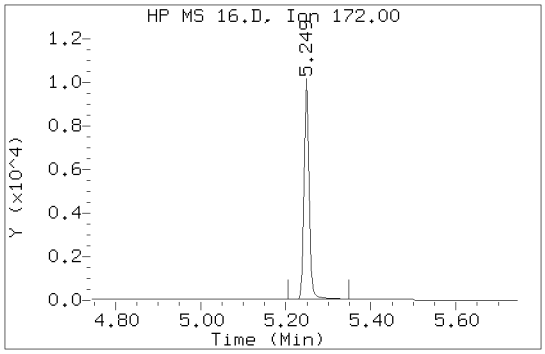
BEFORE

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AREA
8416
HEIGHT
10125
16-Jun-2023
16:37
ALSHS
Server



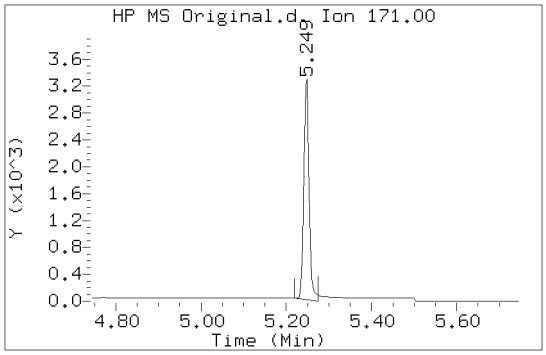
AFTER

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AREA
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HEIGHT
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29-Jun-2023
14:27
ALSHS
Ser



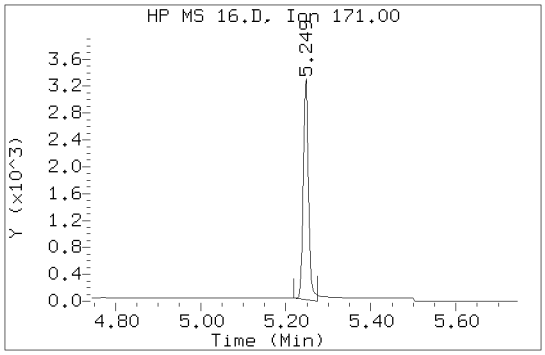
BEFORE

MASS
171
AREA
2911
HEIGHT
3286
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
171
AREA
2911
HEIGHT
3286
29-Jun-2023
14:27
ALSHS
Ser



01200803

right solutions.
right partner.

Raw Data SV 6 440441

Semi-Volatiles by EPA 8270SIM

Workorder

HS23061707

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site18/24

07/07/2023

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\230705.b\01.D Page 1
Report Date: 05-Jul-2023 10:36

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 05-JUL-2023 10:16
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.330	6.357	-2.027	198	177536			0.00- 100.00	100.00
4.330	6.357	-2.027	51	95312			10.00- 80.00	53.69
4.330	6.357	-2.027	68	1045			0.00- 2.00	1.35
4.330	6.357	-2.027	69	77312			0.00- 0.00	43.55
4.330	6.357	-2.027	70	381			0.00- 2.00	0.49
4.330	6.357	-2.027	127	83536			10.00- 80.00	47.05
4.330	6.357	-2.027	197	839			0.00- 2.00	0.47
4.330	6.357	-2.027	199	11593			5.00- 9.00	6.53
4.330	6.357	-2.027	275	43216			10.00- 60.00	24.34
4.330	6.357	-2.027	365	5629			1.00- 100.00	3.17
4.330	6.357	-2.027	441	22344			0.01- 99.99	73.54
4.330	6.357	-2.027	442	153984			50.00- 150.00	86.73
4.330	6.357	-2.027	443	30384			15.00- 24.00	19.73

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	53.69
68	Less than 2.00% of mass 69	0.59 (1.35)
69	Mass 69 relative abundance	43.55
70	Less than 2.00% of mass 69	0.21 (0.49)
127	10.00 - 80.00% of mass 198	47.05
197	Less than 2.00% of mass 198	0.47
199	5.00 - 9.00% of mass 198	6.53
275	10.00 - 60.00% of mass 198	24.34
365	1.00 - 100.00% of mass 198	3.17
441	Present, but less than mass 443	12.59
442	50.00 - 150.00% of mass 198	86.73
443	15.00 - 24.00% of mass 442	17.11 (19.73)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 325: 4.325 min. (SUB)
Location of Maximum: 198.00
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	279	121.90	1585	192.00	1923	265.80	484
38.00	729	123.00	2201	193.00	2152	270.90	162
39.00	5569	124.00	951	194.00	458	271.90	296
40.00	274	124.90	919	195.10	323	273.00	2712
41.00	190	126.10	545	196.00	4784	273.90	7328
49.00	340	127.00	83536	196.90	839	275.00	43216
50.00	22816	128.00	6887	198.00	177536	276.00	5846
51.00	95312	129.00	32680	199.00	11593	277.00	3417
52.00	5063	130.00	2658	200.00	1123	278.00	531
53.00	159	131.00	563	201.50	1060	283.00	453
55.00	399	132.00	233	202.90	1213	283.80	218
56.00	2859	134.00	1033	204.00	6582	285.00	830
57.00	7244	135.00	2689	205.00	11284	291.90	176
58.00	418	136.00	1022	206.00	45880	293.00	1090
58.90	335	137.00	1087	207.00	5670	293.80	190
61.00	1208	140.00	330	207.90	1399	296.00	11596
62.00	1303	141.00	3994	209.00	463	296.90	1744
63.00	3037	142.00	1532	210.00	607	300.90	185
64.00	481	143.00	1032	211.00	1841	301.90	200
65.00	1754	144.00	230	212.80	186	303.00	1338
68.00	1045	145.00	175	215.00	470	303.90	341
69.00	77312	146.00	680	216.00	1074	313.90	608
70.00	381	147.00	2131	217.00	11943	314.90	1404
73.00	578	148.00	4526	217.90	1543	316.00	733
74.00	6964	149.00	988	218.80	164	317.00	241
75.00	11882	150.00	323	220.00	277	321.00	360
76.00	3709	151.60	711	221.00	8949	321.90	193
77.00	88320	152.00	198	221.70	1786	323.00	3822
78.00	6068	153.00	1404	223.00	2607	323.90	796
79.00	4967	154.00	811	224.00	28232	326.90	667
80.00	3984	155.00	2046	225.00	6637	327.90	326
81.00	6324	156.00	3553	226.00	769	331.90	274
81.90	1357	157.10	501	227.00	10721	332.90	420
83.00	1463	157.80	611	228.00	1441	334.00	2548
84.00	31	159.00	572	228.90	2290	335.00	831
84.90	1016	160.00	1114	230.00	319	341.00	508
85.90	1289	161.00	2351	231.00	1008	345.90	729
87.00	673	162.00	579	231.80	195	346.80	166
87.90	222	163.90	219	232.90	232	352.00	1142
91.00	1194	165.00	1414	233.90	608	352.90	833
92.00	1545	165.90	1235	234.90	984	353.90	1174
93.00	8492	167.00	8896	236.00	500	354.90	320
94.00	697	168.00	3154	236.90	941	364.90	5629
94.90	204	169.10	645	238.90	443	365.90	758
96.00	361	170.00	288	239.90	284	370.90	380

97.00	165	170.90	307	240.90	490	372.00	1815
98.00	6596	171.90	757	242.00	1350	372.90	440
99.00	4764	173.00	1003	243.00	1049	382.80	549
100.00	395	174.00	1990	244.00	19368	389.80	244
101.00	3406	175.00	3280	245.00	2727	390.80	154
101.90	224	176.00	983	246.00	3476	401.80	756
103.00	946	177.00	1365	247.00	587	402.90	1232
104.00	2475	178.00	557	248.90	778	403.80	500
105.00	2105	179.00	5829	250.00	209	420.90	915
106.00	703	180.00	4371	250.90	277	421.90	869
107.00	25664	181.00	2462	252.10	238	423.00	7672
108.00	4082	182.10	331	252.90	533	424.00	1508
109.00	615	183.00	167	253.90	629	440.90	22344
110.00	47992	184.00	572	255.00	108928	442.00	153984
111.00	7253	185.00	3251	256.00	15525	443.00	30384
112.00	1004	186.00	24120	256.90	1175	443.90	2827
113.00	212	187.00	6653	258.00	5803	444.80	254
115.90	1072	188.00	623	258.90	1034		
117.00	18680	188.90	1236	259.90	193		
118.00	1422	189.90	269	262.80	263		
120.00	320	190.90	579	264.90	2542		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\04.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 05-JUL-2023 11:31
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 06-Jul-2023 11:52 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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)
* 20 1,4-Dichlorobenzene-d4	152	2.484	2.484	(1.000)	4929	0.10000	(aM)
* 45 Naphthalene-d8	136	3.538	3.538	(1.000)	15780	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.930	2.930	(0.828)	3693	0.08000	0.07703(M)
* 86 Acenaphthene-d10	164	5.169	5.169	(1.000)	9244	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.559	4.559	(0.882)	8002	0.08000	0.08465(M)
* 126 Phenanthrene-d10	188	6.581	6.581	(1.000)	18079	0.10000	(M)
* 182 Chrysene-d12	240	9.136	9.136	(1.000)	12570	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.168	8.168	(0.894)	7909	0.08000	0.08528(M)
* 198 Perylene-d12	264	10.753	10.753	(1.000)	13010	0.10000	(M)
1 1,4-Dioxane	58	0.982	0.982	(0.396)	1207	0.08000	0.07217(QM)

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.

01200809

Data File: \\nahstws005\Target\chem\SV6.i\230705.b\04.D

Page 1

Date : 05-JUL-2023 11:31

Client ID: 14DX-0.08

Instrument: SV6.i

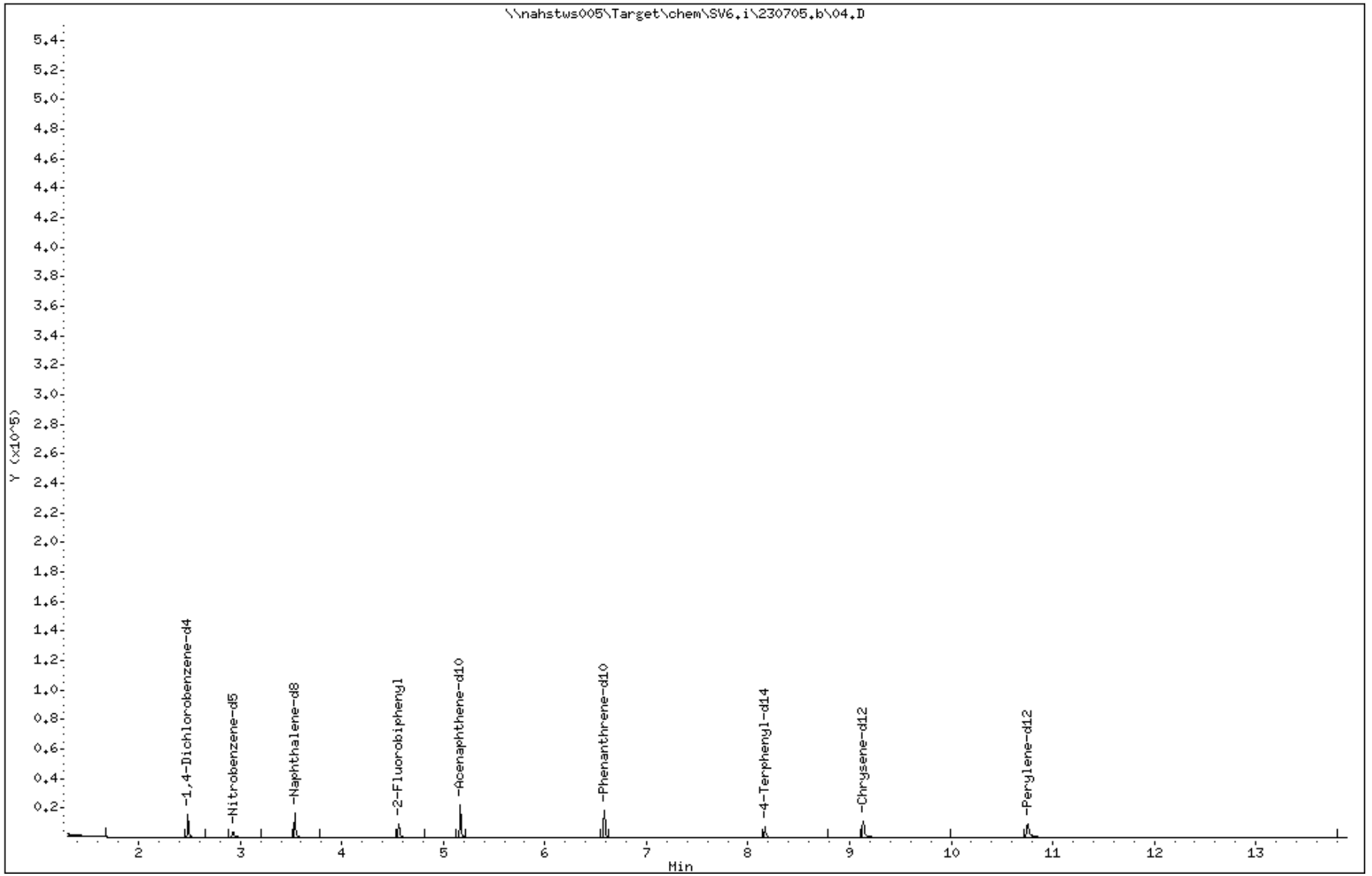
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



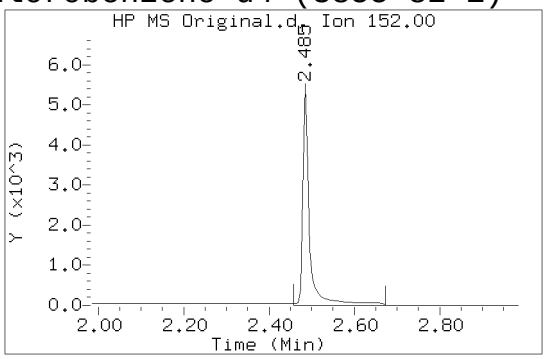
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\04.D
Inj Date : 05-JUL-2023 11:31
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

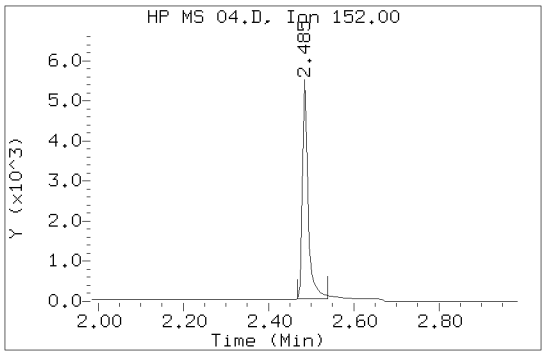
BEFORE

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152
AREA
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HEIGHT
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05-Jul-2023
11:47
ALSHS
Server



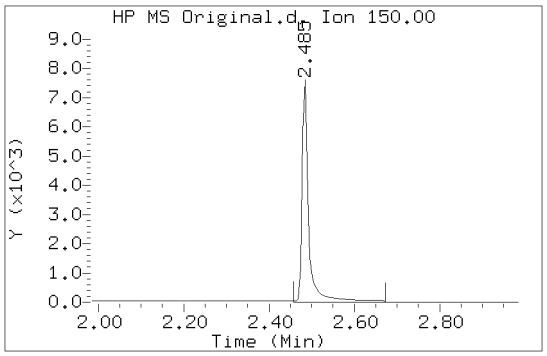
AFTER

MASS
152
AREA
4929
HEIGHT
5469
06-Jul-2023
11:52
ALSHS
Se



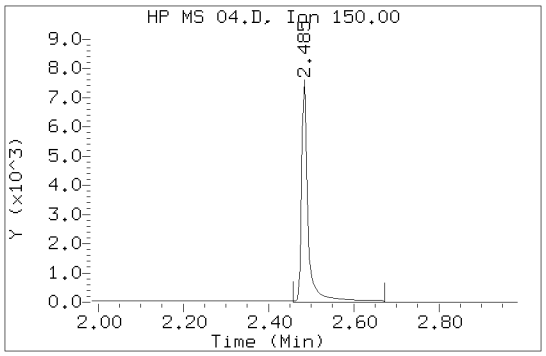
BEFORE

MASS
150
AREA
8138
HEIGHT
7605
05-Jul-2023
11:47
ALSHS
Server



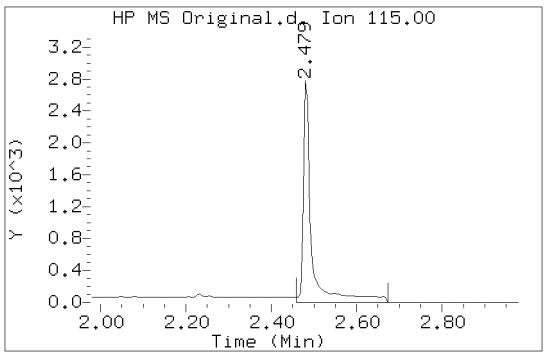
AFTER

MASS
150
AREA
8138
HEIGHT
7605
06-Jul-2023
11:52
ALSHS
Se



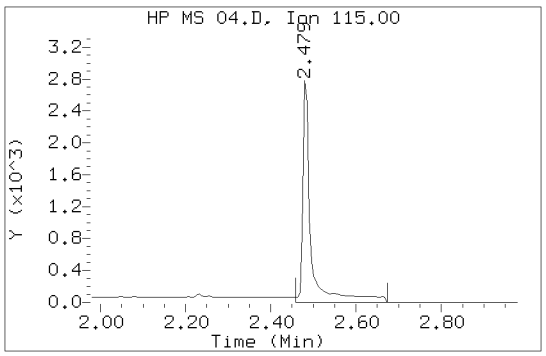
BEFORE

MASS
115
AREA
3654
HEIGHT
2779
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
115
AREA
3654
HEIGHT
2779
06-Jul-2023
11:52
ALSHS
Se

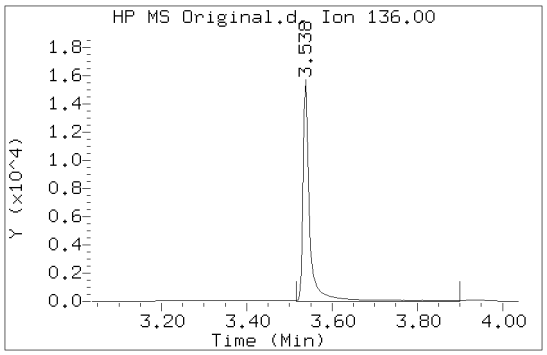


Naphthalene-d8 (1146-65-2)

Reason Code:

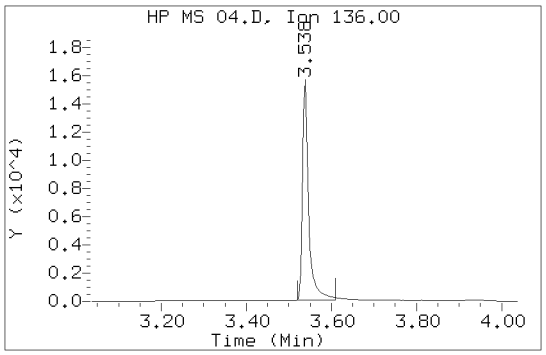
BEFORE

MASS
136
AREA
17883
HEIGHT
15719
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
136
AREA
15780
HEIGHT
15623
06-Jul-2023
11:52
ALSHS
Se



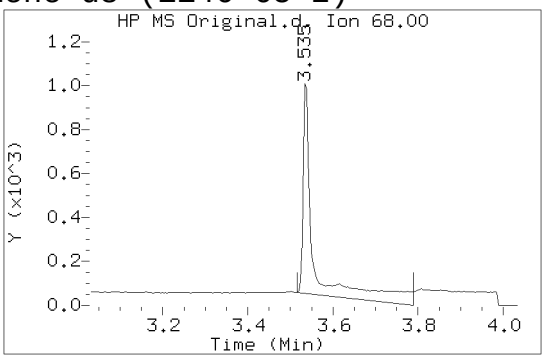
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\04.D
Inj Date : 05-JUL-2023 11:31
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

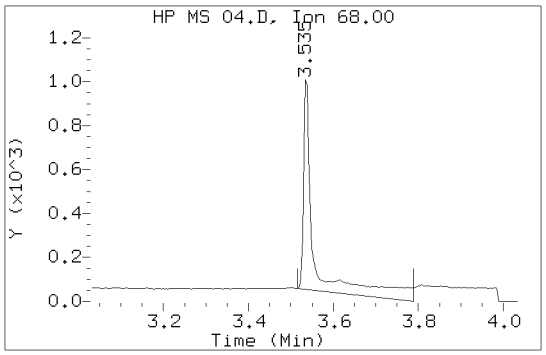
BEFORE

MASS
68
AREA
1646
HEIGHT
953
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
68
AREA
1646
HEIGHT
953
06-Jul-2023
11:52
ALSHS
Se

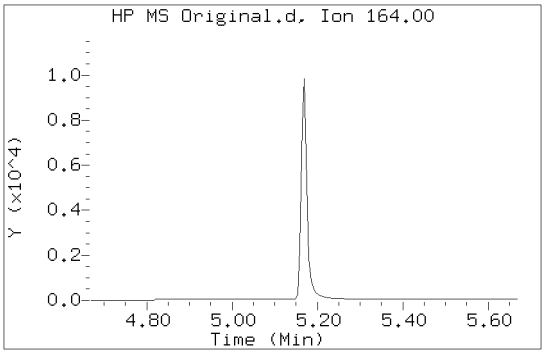


Acenaphthene-d10 (15067-26-2)

Reason Code:

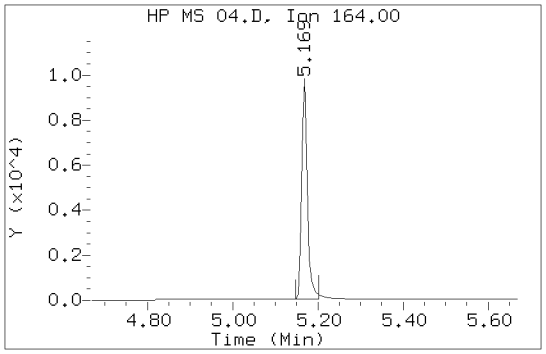
BEFORE

MASS
164
AREA
10051
HEIGHT
9820
05-Jul-2023
11:47
ALSHS
Server



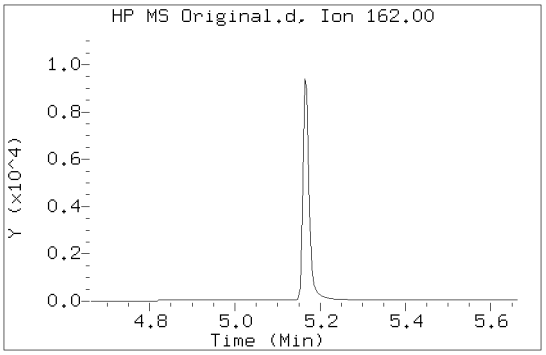
AFTER

MASS
164
AREA
9244
HEIGHT
9792
06-Jul-2023
11:52
ALSHS
Se



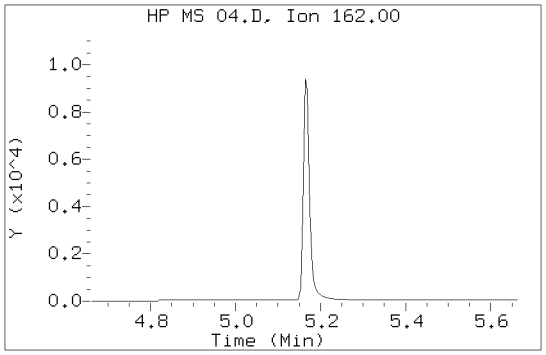
BEFORE

MASS
162
AREA
10171
HEIGHT
9377
05-Jul-2023
11:47
ALSHS
Server



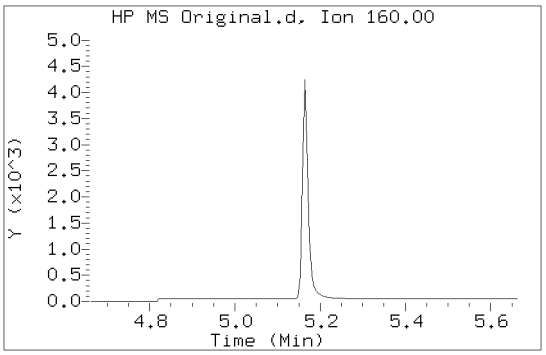
AFTER

MASS
162
AREA
10171
HEIGHT
9377
06-Jul-2023
11:52
ALSHS
Se



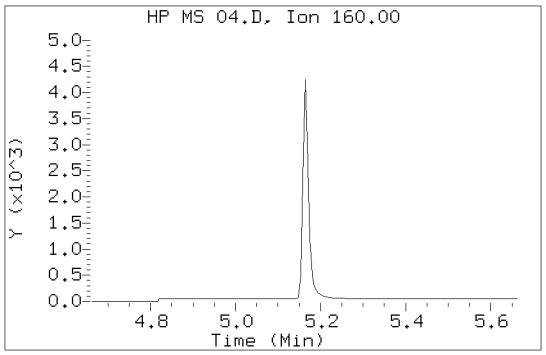
BEFORE

MASS
160
AREA
4544
HEIGHT
4226
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
160
AREA
4544
HEIGHT
4226
06-Jul-2023
11:52
ALSHS
Se



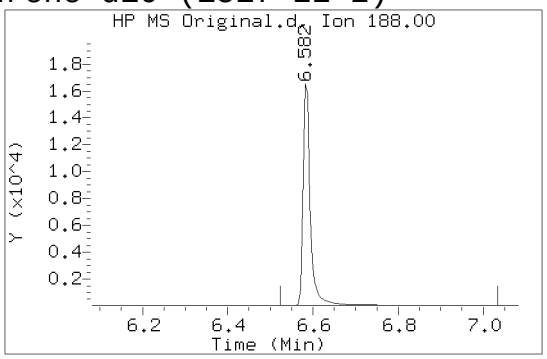
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Inj Date : 05-JUL-2023 11:31
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

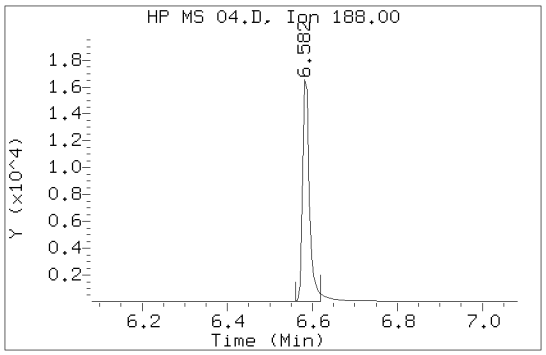
BEFORE

MASS
188
AREA
19165
HEIGHT
16499
05-Jul-2023
11:47
ALSHS
Server



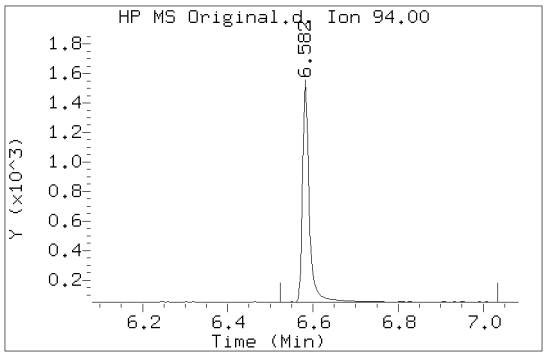
AFTER

MASS
188
AREA
18079
HEIGHT
16476
06-Jul-2023
11:52
ALSHS
Se



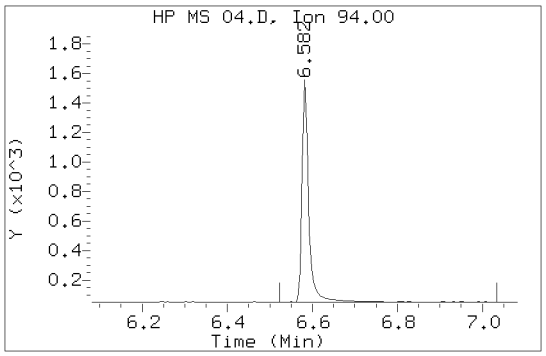
BEFORE

MASS
94
AREA
1661
HEIGHT
1505
05-Jul-2023
11:47
ALSHS
Server



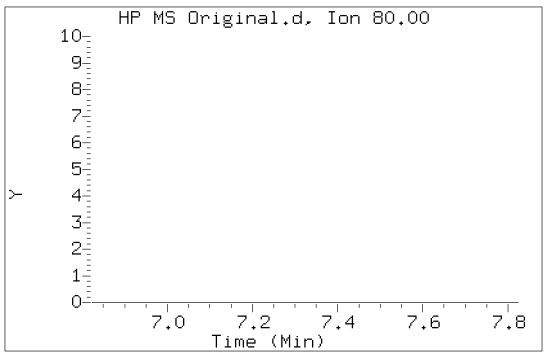
AFTER

MASS
94
AREA
1661
HEIGHT
1505
06-Jul-2023
11:52
ALSHS
Se



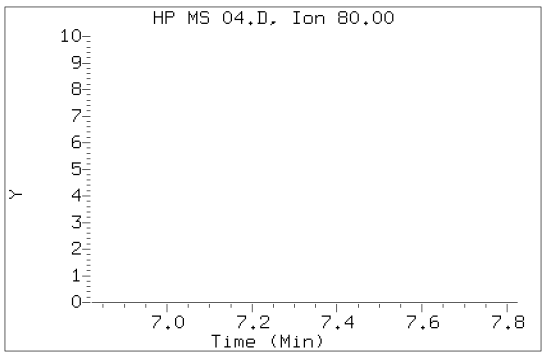
BEFORE

MASS
80
AREA
0
HEIGHT
0
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
06-Jul-2023
11:52
ALSHS
Se

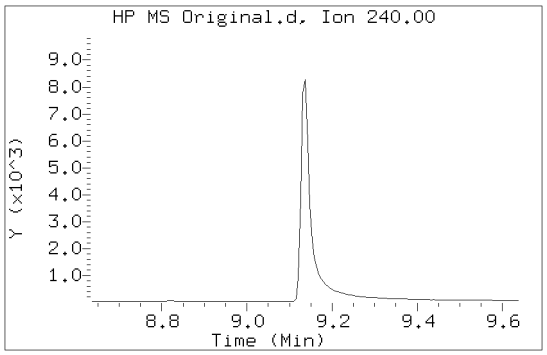


Chrysene-d12 (1719-03-5)

Reason Code:

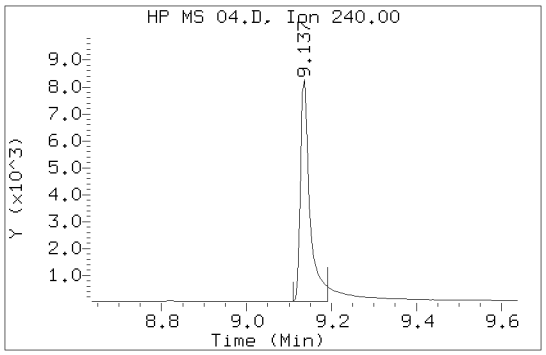
BEFORE

MASS
240
AREA
0
HEIGHT
0
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
240
AREA
12570
HEIGHT
8219
06-Jul-2023
11:52
ALSHS
Se

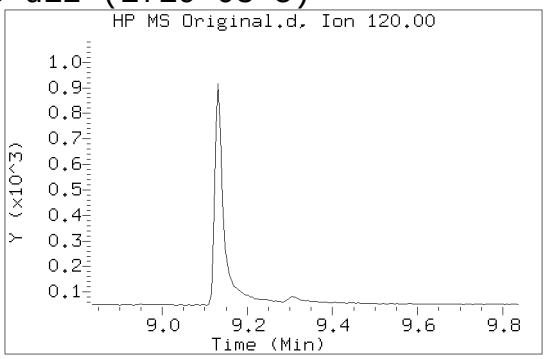


Data File : \\nahstws005\Target\chem\SV6.i\230705.b\04.D
Inj Date : 05-JUL-2023 11:31
InstruID : SV6.i
LabSampID : 14DX-0.08

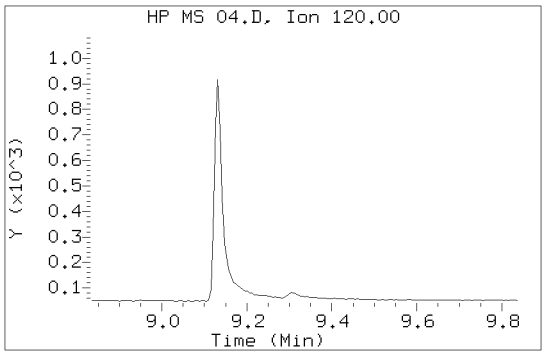
Chrysene-d12 (1719-03-5)

Reason Code:

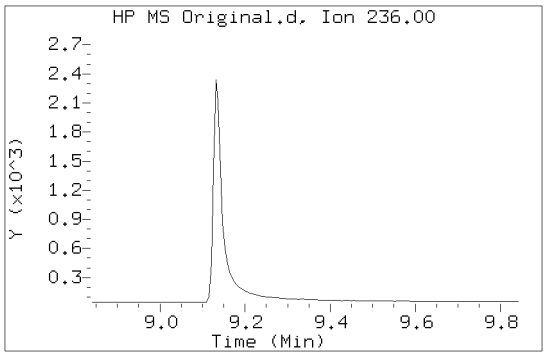
BEFORE
MASS
120
AREA
0
HEIGHT
0
05-Jul-2023
11:47
ALSHS
Server



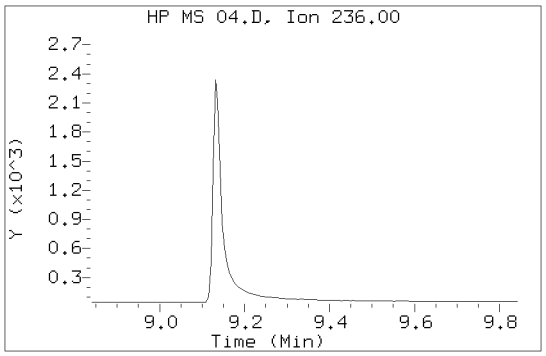
AFTER
MASS
120
AREA
0
HEIGHT
0
06-Jul-2023
11:52
ALSHS
Se



BEFORE
MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
11:47
ALSHS
Server



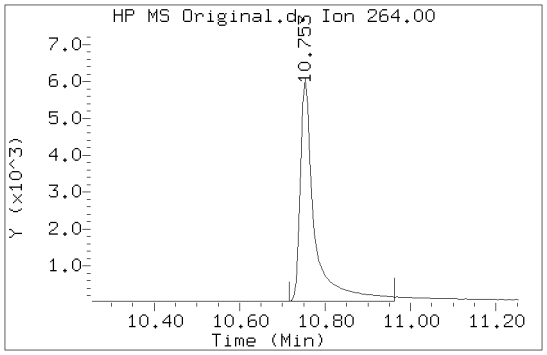
AFTER
MASS
236
AREA
0
HEIGHT
0
06-Jul-2023
11:52
ALSHS
Se



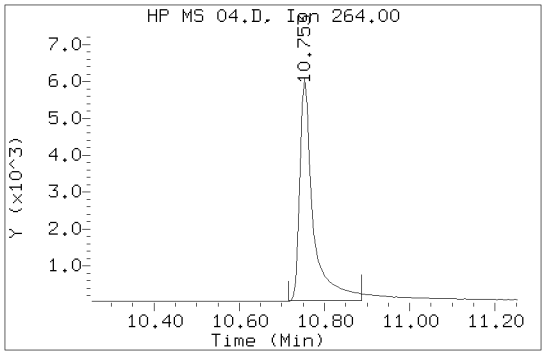
Perylene-d12 (1520-96-3)

Reason Code:

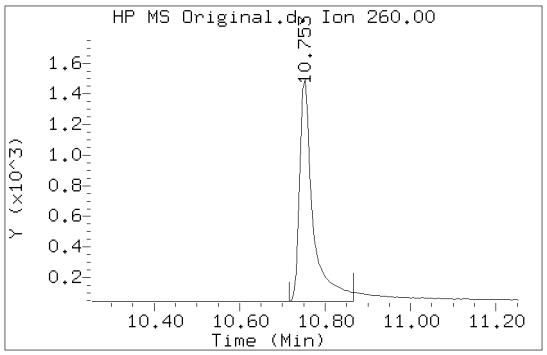
BEFORE
MASS
264
AREA
13847
HEIGHT
6019
05-Jul-2023
11:47
ALSHS
Server



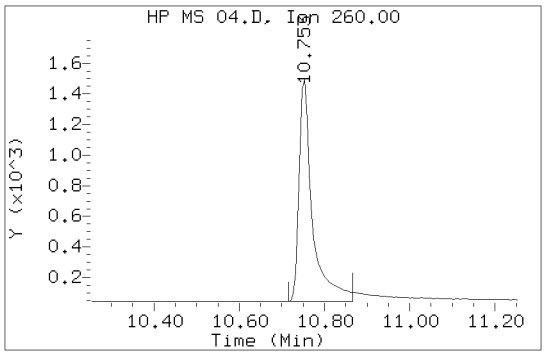
AFTER
MASS
264
AREA
13010
HEIGHT
6004
06-Jul-2023
11:52
ALSHS
Se



BEFORE
MASS
260
AREA
3146
HEIGHT
1447
05-Jul-2023
11:47
ALSHS
Server



AFTER
MASS
260
AREA
3146
HEIGHT
1447
06-Jul-2023
11:52
ALSHS
Se



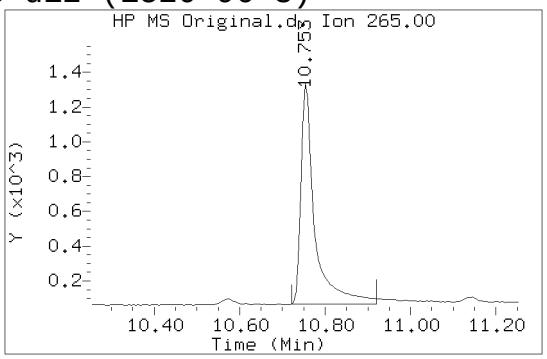
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Inj Date : 05-JUL-2023 11:31
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

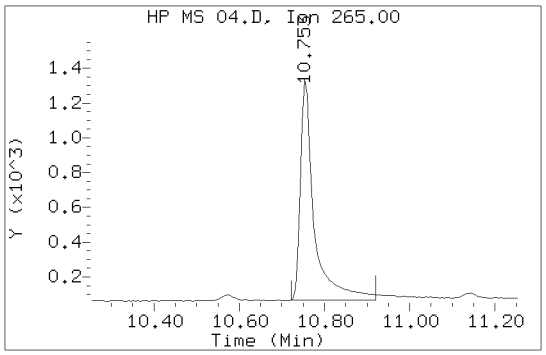
BEFORE

MASS
265
AREA
2830
HEIGHT
1267
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
265
AREA
2830
HEIGHT
1267
06-Jul-2023
11:52
ALSHS
Se

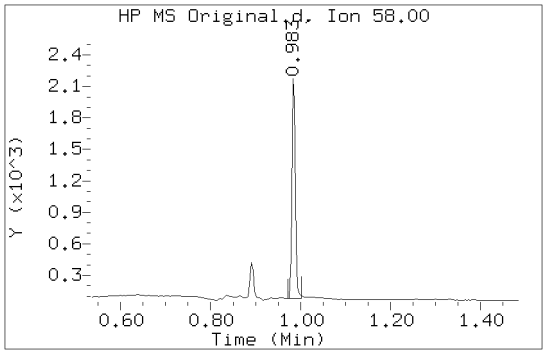


1,4-Dioxane ()

Reason Code:

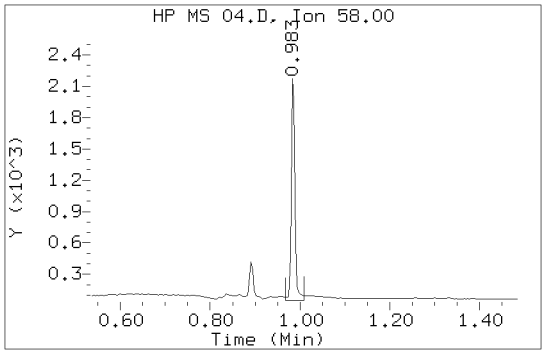
BEFORE

MASS
58
AREA
1120
HEIGHT
2093
05-Jul-2023
11:47
ALSHS
Server



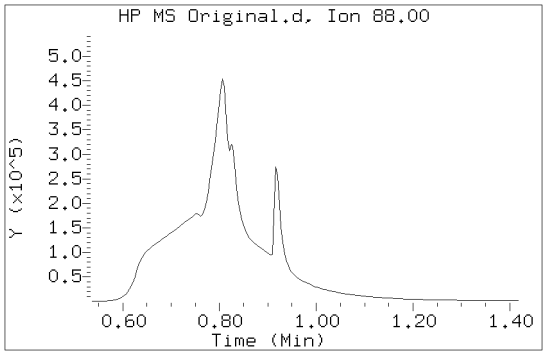
AFTER

MASS
58
AREA
1207
HEIGHT
2123
06-Jul-2023
11:52
ALSHS
Se



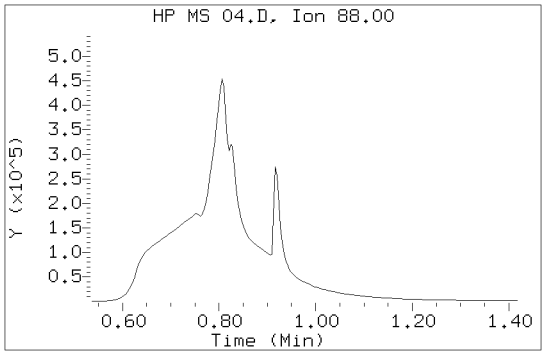
BEFORE

MASS
88
AREA
659764
HEIGHT
274052
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
88
AREA
659764
HEIGHT
274052
06-Jul-2023
11:52
ALSHS
Se

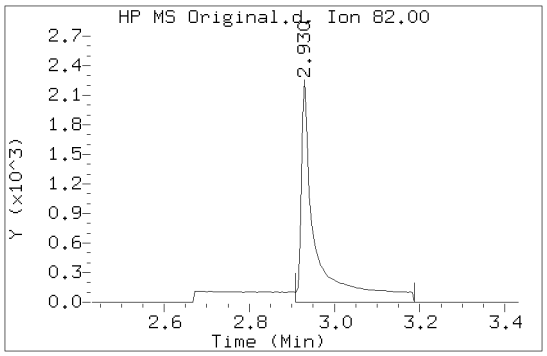


Nitrobenzene-d5 (4165-60-0)

Reason Code:

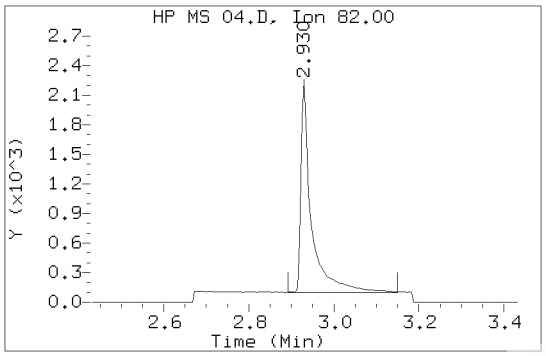
BEFORE

MASS
82
AREA
5340
HEIGHT
2256
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
82
AREA
3693
HEIGHT
2158
06-Jul-2023
11:52
ALSHS
Se



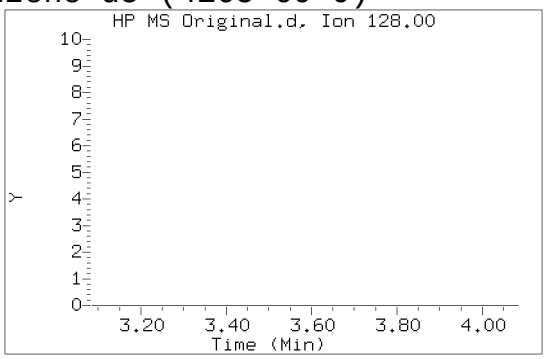
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Inj Date : 05-JUL-2023 11:31
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

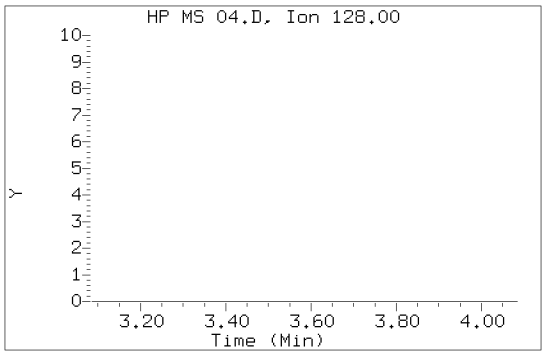
BEFORE

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
11:47
ALSHS
Server



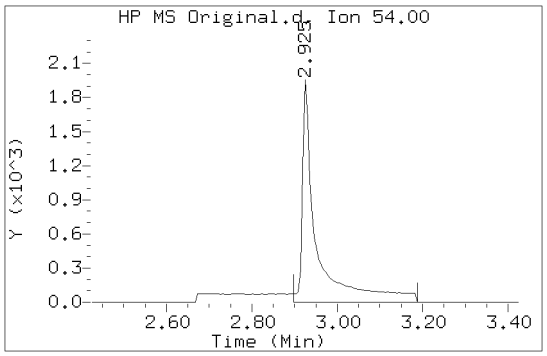
AFTER

MASS
128
AREA
0
HEIGHT
0
06-Jul-2023
11:52
ALSHS
Se



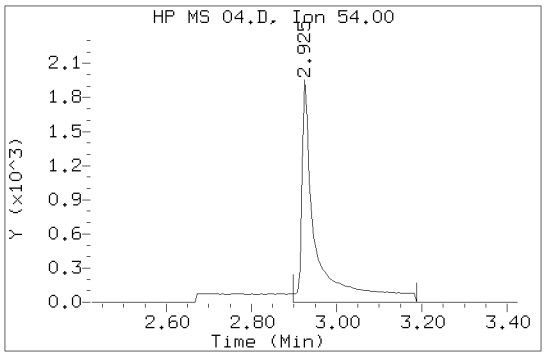
BEFORE

MASS
54
AREA
4457
HEIGHT
1954
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
54
AREA
4457
HEIGHT
1954
06-Jul-2023
11:52
ALSHS
Se

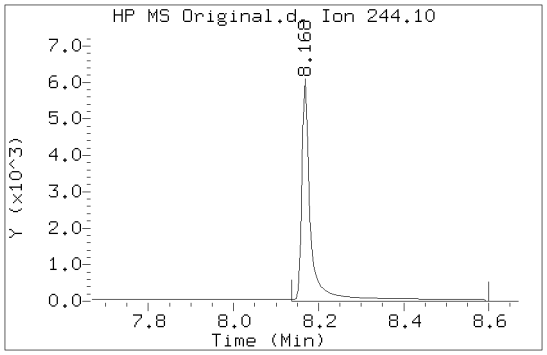


4-Terphenyl-d14 (1718-51-0)

Reason Code:

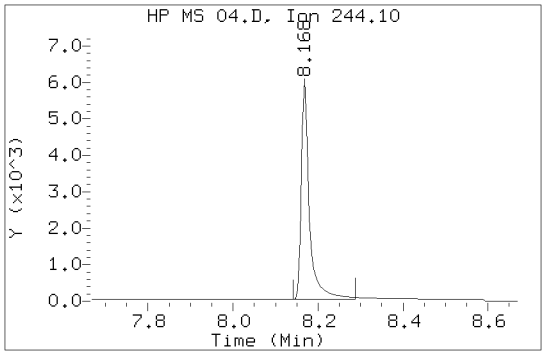
BEFORE

MASS
244.1
AREA
9541
HEIGHT
6096
05-Jul-2023
11:47
ALSHS
Server



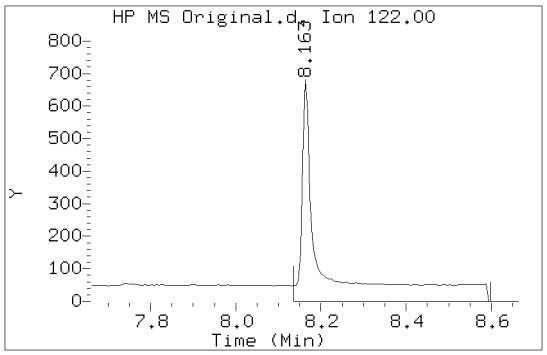
AFTER

MASS
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AREA
7909
HEIGHT
6049
06-Jul-2023
11:52
ALSHS
Se



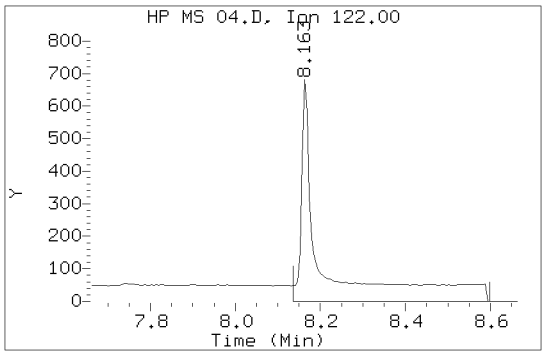
BEFORE

MASS
122
AREA
2209
HEIGHT
681
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
122
AREA
2209
HEIGHT
681
06-Jul-2023
11:52
ALSHS
Se



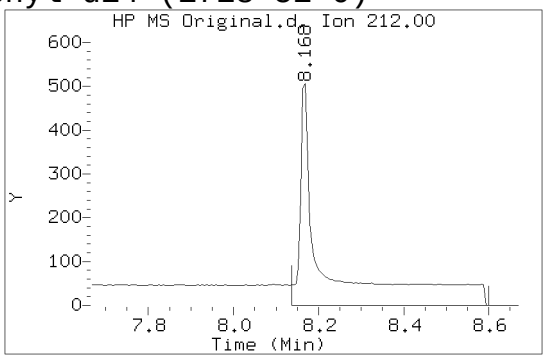
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Inj Date : 05-JUL-2023 11:31
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

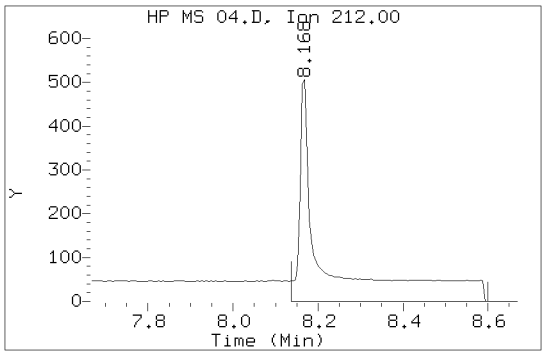
BEFORE

MASS
212
AREA
1943
HEIGHT
506
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
212
AREA
1943
HEIGHT
506
06-Jul-2023
11:52
ALSHS
Se

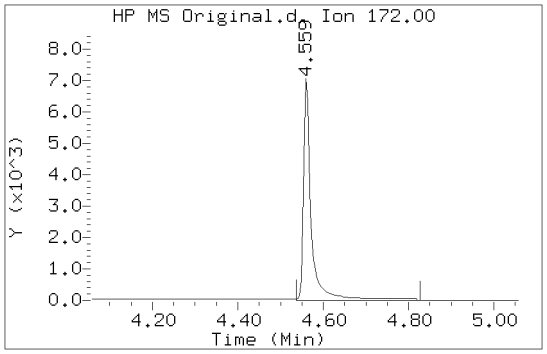


2-Fluorobiphenyl (321-60-8)

Reason Code:

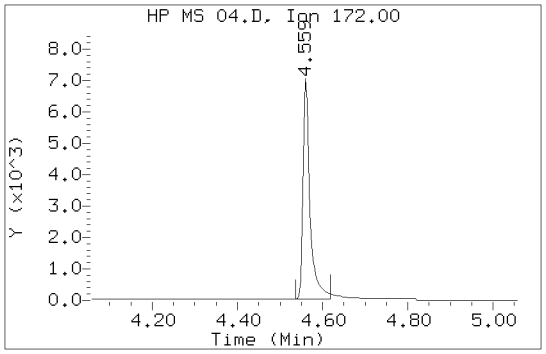
BEFORE

MASS
172
AREA
9217
HEIGHT
7059
05-Jul-2023
11:47
ALSHS
Server



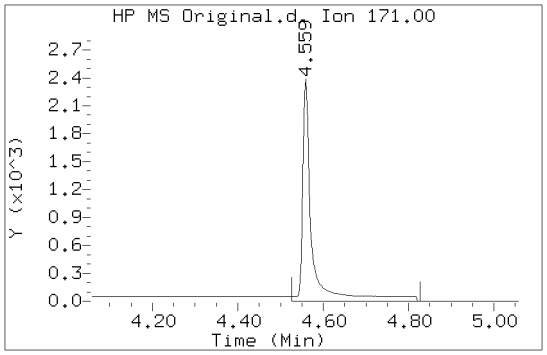
AFTER

MASS
172
AREA
8002
HEIGHT
7011
06-Jul-2023
11:52
ALSHS
Se



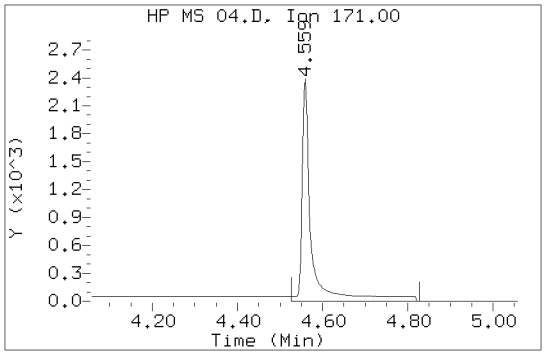
BEFORE

MASS
171
AREA
3671
HEIGHT
2389
05-Jul-2023
11:47
ALSHS
Server



AFTER

MASS
171
AREA
3671
HEIGHT
2389
06-Jul-2023
11:52
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\06.D
Lab Smp Id: MBLK-196920 Client Smp ID: MBLK-196920
Inj Date : 05-JUL-2023 12:13
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-196920
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 05-Jul-2023 12:00 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.484	2.484	(1.000)	3666	0.10000	(a)
* 45 Naphthalene-d8	136	3.538	3.538	(1.000)	10888	0.10000	
$ 33 Nitrobenzene-d5	82	2.930	2.930	(0.828)	2765	0.08358	0.08358(M)
* 86 Acenaphthene-d10	164	5.169	5.169	(1.000)	7230	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.559	4.559	(0.882)	6492	0.08781	0.08781(M)
* 126 Phenanthrene-d10	188	6.581	6.581	(1.000)	10409	0.10000	
* 182 Chrysene-d12	240	9.137	9.136	(1.000)	13224	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.168	8.168	(0.894)	9579	0.09818	0.09818(M)
* 198 Perylene-d12	264	10.753	10.753	(1.000)	7579	0.10000	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01200818

Data File: \\nahstws005\Target\chem\SV6.i\230705.b\06.D

Date : 05-JUL-2023 12:13

Client ID: MBLK-196920

Instrument: SV6.i

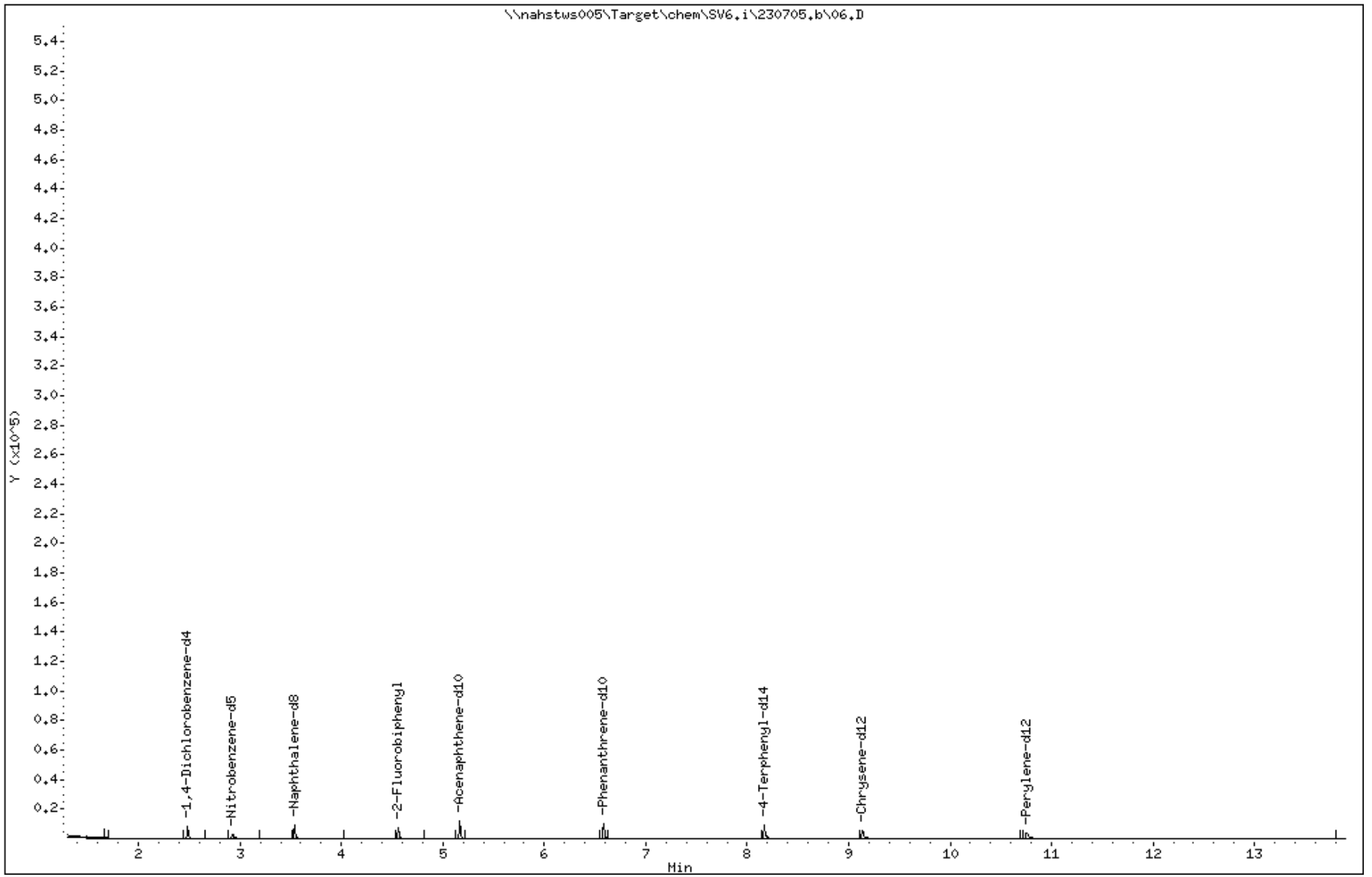
Sample Info: MBLK-196920

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

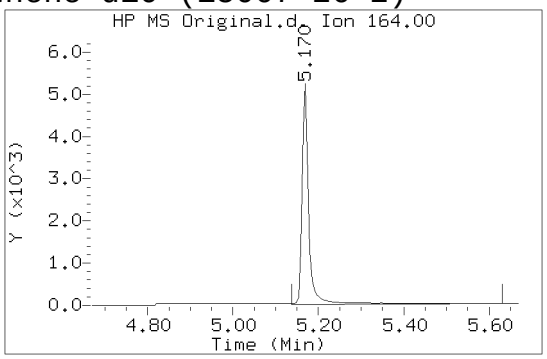


Data File : \\nahstws005\Target\chem\SV6.i\230705.b\06.D
Inj Date : 05-JUL-2023 12:13
InstruID : SV6.i
LabSampID : MBLK-196920

Acenaphthene-d10 (15067-26-2)

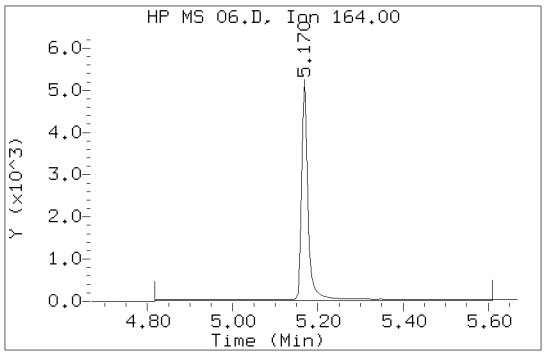
Reason Code:

BEFORE



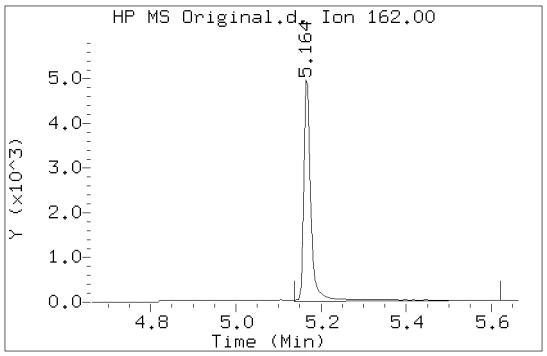
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164
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HEIGHT
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05-Jul-2023
12:29
ALSHS
Server

AFTER



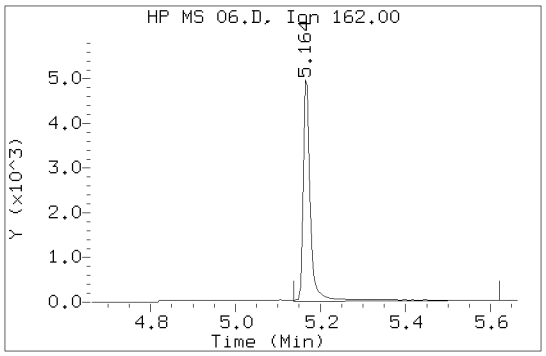
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164
AREA
7230
HEIGHT
5242
05-Jul-2023
16:03
ALSHS
Se

BEFORE



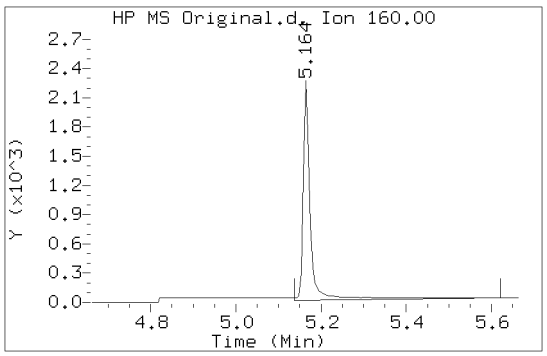
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AREA
5927
HEIGHT
4955
05-Jul-2023
12:29
ALSHS
Server

AFTER



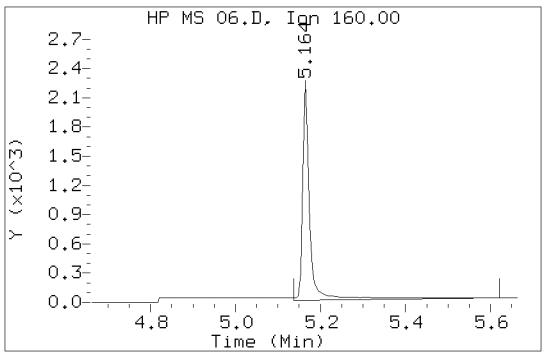
MASS
162
AREA
5927
HEIGHT
4955
05-Jul-2023
16:03
ALSHS
Se

BEFORE



MASS
160
AREA
2717
HEIGHT
2255
05-Jul-2023
12:29
ALSHS
Server

AFTER

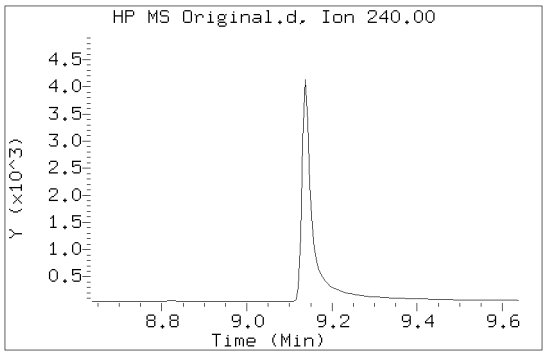


MASS
160
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2717
HEIGHT
2255
05-Jul-2023
16:03
ALSHS
Se

Chrysene-d12 (1719-03-5)

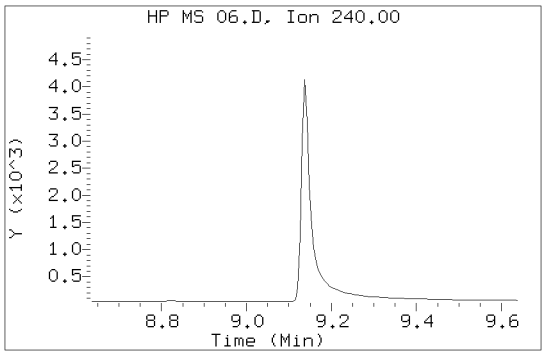
Reason Code:

BEFORE



MASS
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AREA
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HEIGHT
0
05-Jul-2023
12:29
ALSHS
Server

AFTER



MASS
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AREA
13224
HEIGHT
4152
05-Jul-2023
16:03
ALSHS
Se

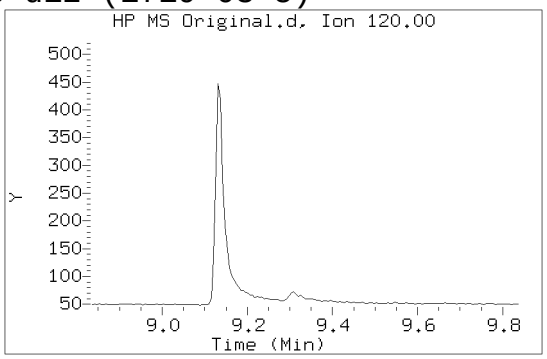
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Inj Date : 05-JUL-2023 12:13
InstruID : SV6.i
LabSampID : MBLK-196920

Chrysene-d12 (1719-03-5)

Reason Code:

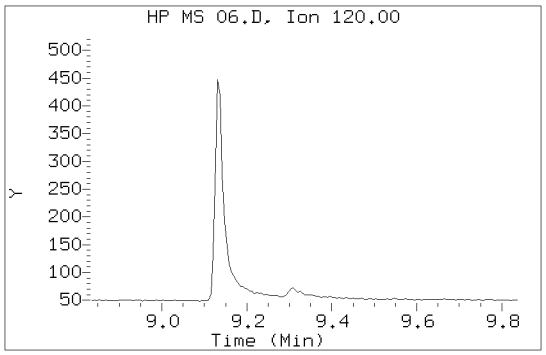
BEFORE

MASS
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AREA
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HEIGHT
0
05-Jul-2023
12:29
ALSHS
Server



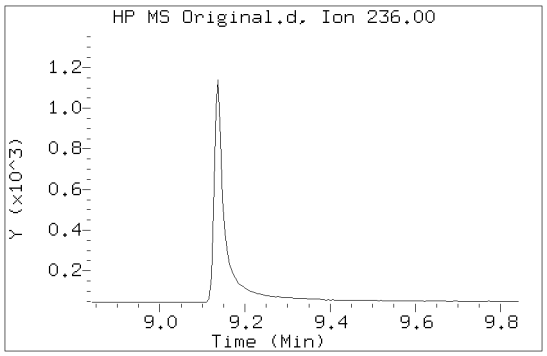
AFTER

MASS
120
AREA
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HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se



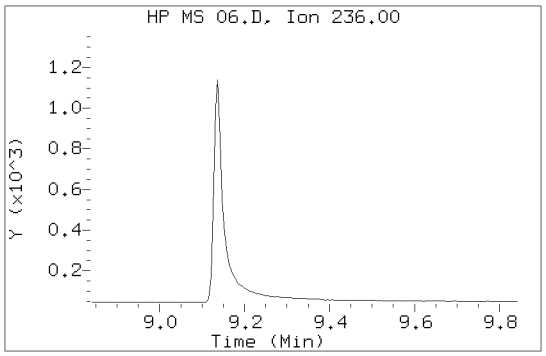
BEFORE

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236
AREA
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HEIGHT
0
05-Jul-2023
12:29
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Server



AFTER

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236
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se

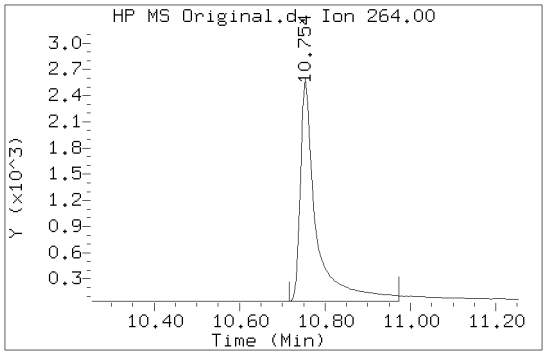


Perylene-d12 (1520-96-3)

Reason Code:

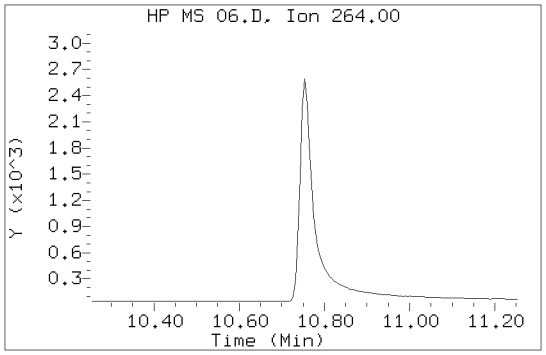
BEFORE

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HEIGHT
2543
05-Jul-2023
12:29
ALSHS
Server



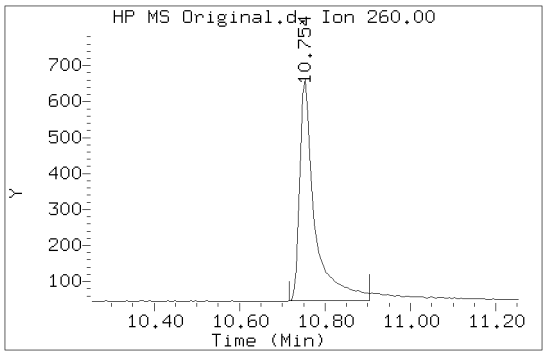
AFTER

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AREA
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HEIGHT
2556
05-Jul-2023
16:03
ALSHS
Se



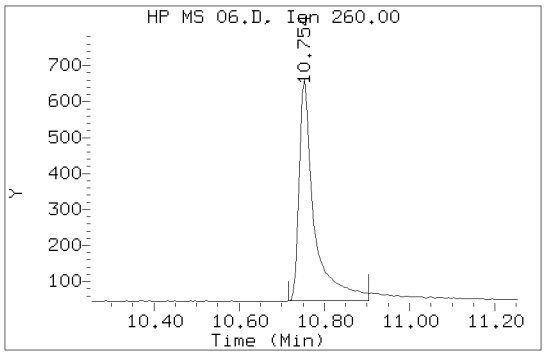
BEFORE

MASS
260
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1513
HEIGHT
615
05-Jul-2023
12:29
ALSHS
Server



AFTER

MASS
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AREA
1513
HEIGHT
615
05-Jul-2023
16:03
ALSHS
Se



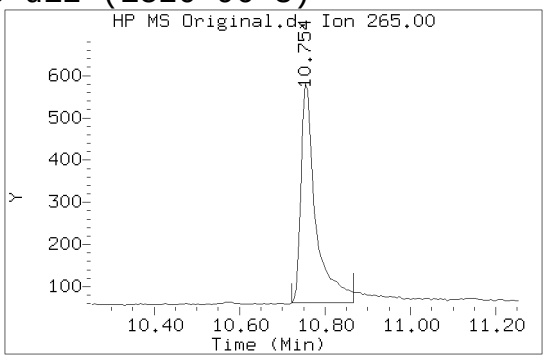
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Inj Date : 05-JUL-2023 12:13
InstruID : SV6.i
LabSampID : MBLK-196920

Perylene-d12 (1520-96-3)

Reason Code:

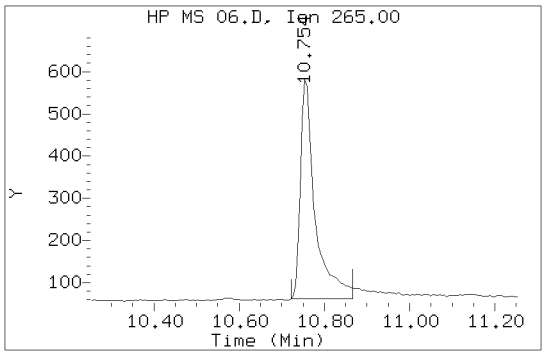
BEFORE

MASS
265
AREA
1242
HEIGHT
519
05-Jul-2023
12:29
ALSHS
Server



AFTER

MASS
265
AREA
1242
HEIGHT
519
05-Jul-2023
16:03
ALSHS
Se

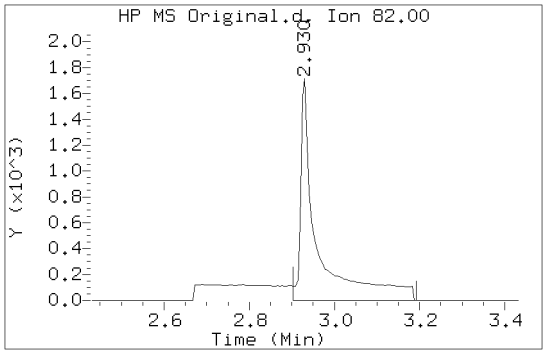


Nitrobenzene-d5 (4165-60-0)

Reason Code:

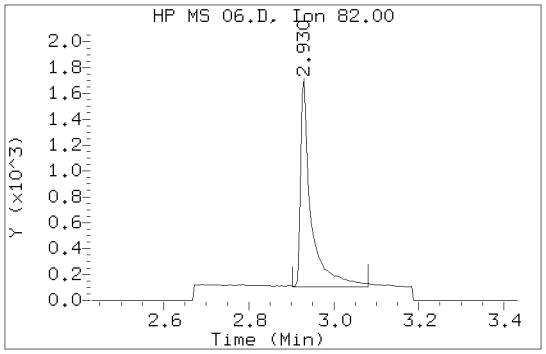
BEFORE

MASS
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AREA
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HEIGHT
1714
05-Jul-2023
12:29
ALSHS
Server



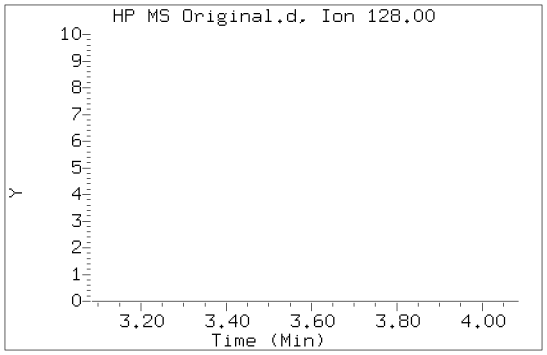
AFTER

MASS
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AREA
2765
HEIGHT
1610
05-Jul-2023
16:03
ALSHS
Se



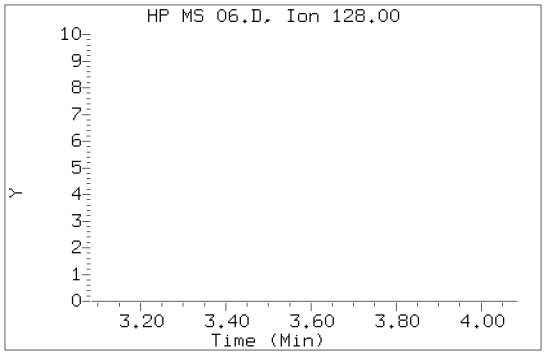
BEFORE

MASS
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AREA
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12:29
ALSHS
Server



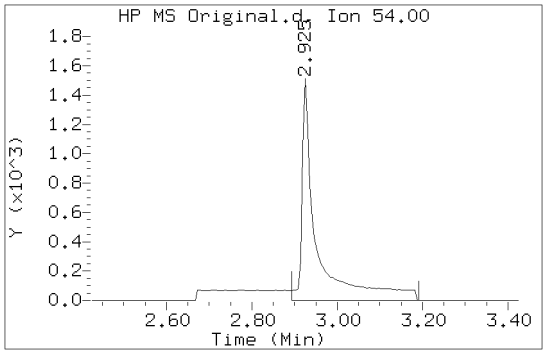
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AREA
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16:03
ALSHS
Se



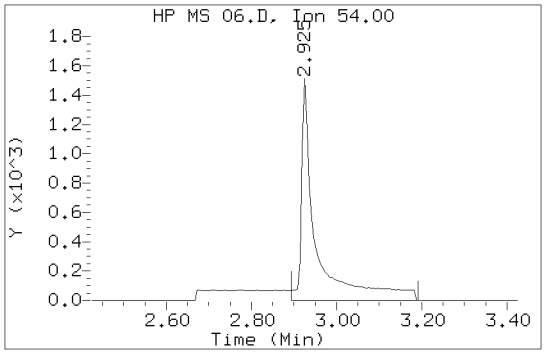
BEFORE

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54
AREA
3541
HEIGHT
1512
05-Jul-2023
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ALSHS
Server



AFTER

MASS
54
AREA
3541
HEIGHT
1512
05-Jul-2023
16:03
ALSHS
Se



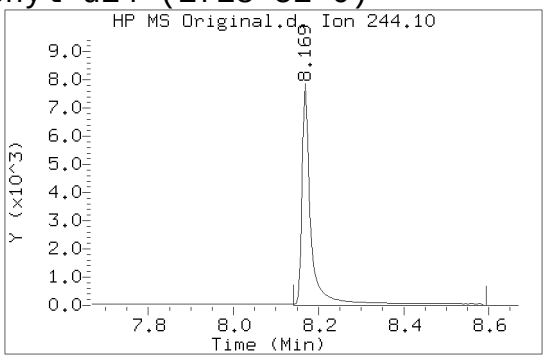
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\06.D
Inj Date : 05-JUL-2023 12:13
InstruID : SV6.i
LabSampID : MBLK-196920

4-Terphenyl-d14 (1718-51-0)

Reason Code:

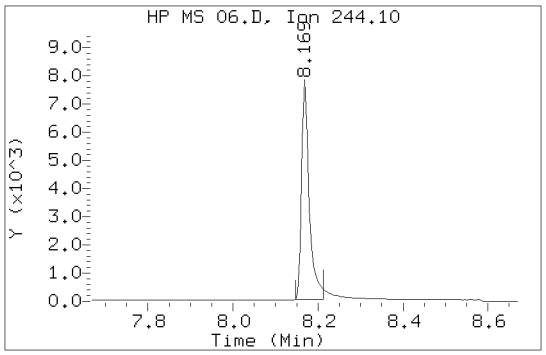
BEFORE

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AREA
12058
HEIGHT
7865
05-Jul-2023
12:29
ALSHS
Server



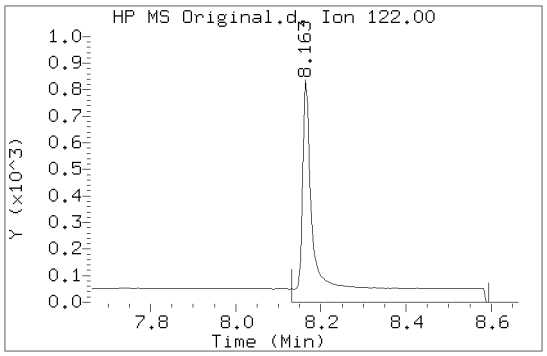
AFTER

MASS
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AREA
9579
HEIGHT
7792
05-Jul-2023
16:03
ALSHS
Se



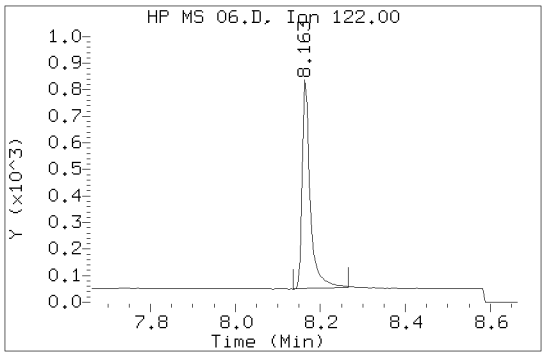
BEFORE

MASS
122
AREA
2457
HEIGHT
837
05-Jul-2023
12:29
ALSHS
Server



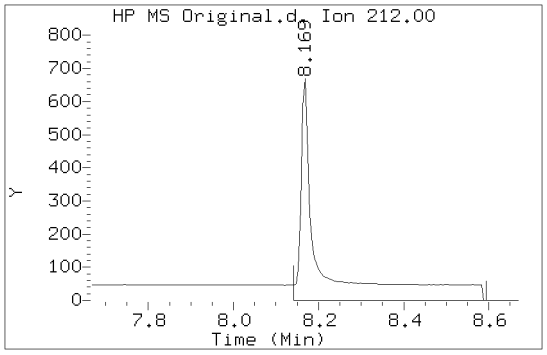
AFTER

MASS
122
AREA
1014
HEIGHT
785
05-Jul-2023
16:03
ALSHS
Se



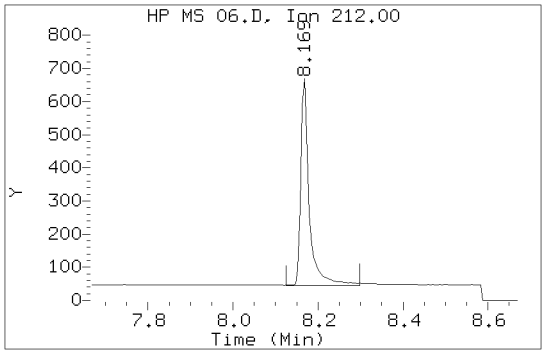
BEFORE

MASS
212
AREA
2110
HEIGHT
669
05-Jul-2023
12:29
ALSHS
Server



AFTER

MASS
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AREA
854
HEIGHT
624
05-Jul-2023
16:03
ALSHS
Se

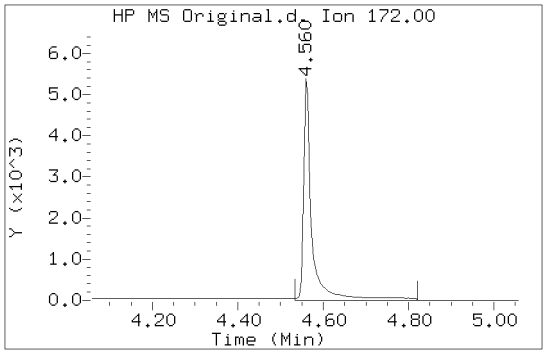


2-Fluorobiphenyl (321-60-8)

Reason Code:

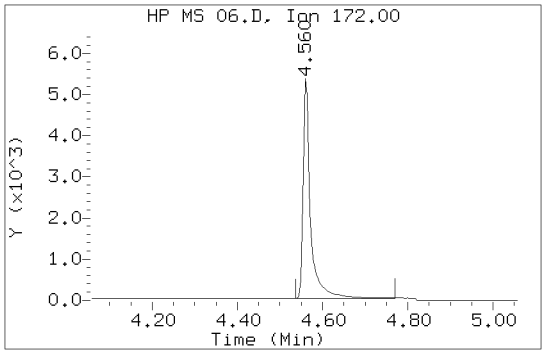
BEFORE

MASS
172
AREA
7308
HEIGHT
5386
05-Jul-2023
12:29
ALSHS
Server



AFTER

MASS
172
AREA
6492
HEIGHT
5340
05-Jul-2023
16:03
ALSHS
Se



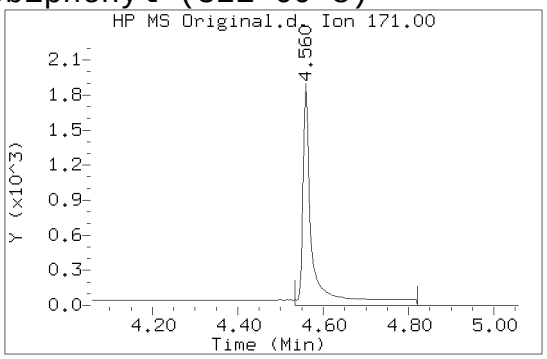
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Inj Date : 05-JUL-2023 12:13
InstruID : SV6.i
LabSampID : MBLK-196920

2-Fluorobiphenyl (321-60-8)

Reason Code:

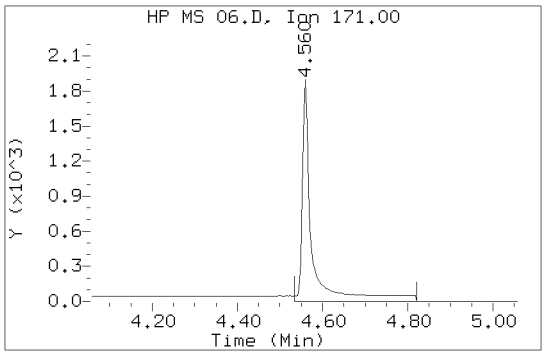
BEFORE

MASS
171
AREA
2988
HEIGHT
1897
05-Jul-2023
12:29
ALSHS
Server



AFTER

MASS
171
AREA
2988
HEIGHT
1897
05-Jul-2023
16:03
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\07.D
Lab Smp Id: LCS-196920 Client Smp ID: LCS-196920
Inj Date : 05-JUL-2023 12:31
Operator : LG Inst ID: SV6.i
Smp Info : LCS-196920
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 05-Jul-2023 12:00 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.479	2.484	(1.000)	3326	0.10000	(a)
* 45 Naphthalene-d8	136	3.534	3.538	(1.000)	9776	0.10000	
$ 33 Nitrobenzene-d5	82	2.924	2.930	(0.827)	2247	0.07565	0.07565(M)
* 86 Acenaphthene-d10	164	5.169	5.169	(1.000)	6321	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.559	4.559	(0.882)	5314	0.08221	0.08221(M)
* 126 Phenanthrene-d10	188	6.581	6.581	(1.000)	9412	0.10000	
* 182 Chrysene-d12	240	9.136	9.136	(1.000)	9529	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.168	8.168	(0.894)	6222	0.08850	0.08850(M)
* 198 Perylene-d12	264	10.753	10.753	(1.000)	6998	0.10000	(M)
1 1,4-Dioxane	58	0.968	0.982	(0.390)	871	0.07718	0.07718(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01200825

Data File: \\nahstws005\Target\chem\SV6.i\230705.b\07.D

Page 1

Date : 05-JUL-2023 12:31

Client ID: LCS-196920

Instrument: SV6.i

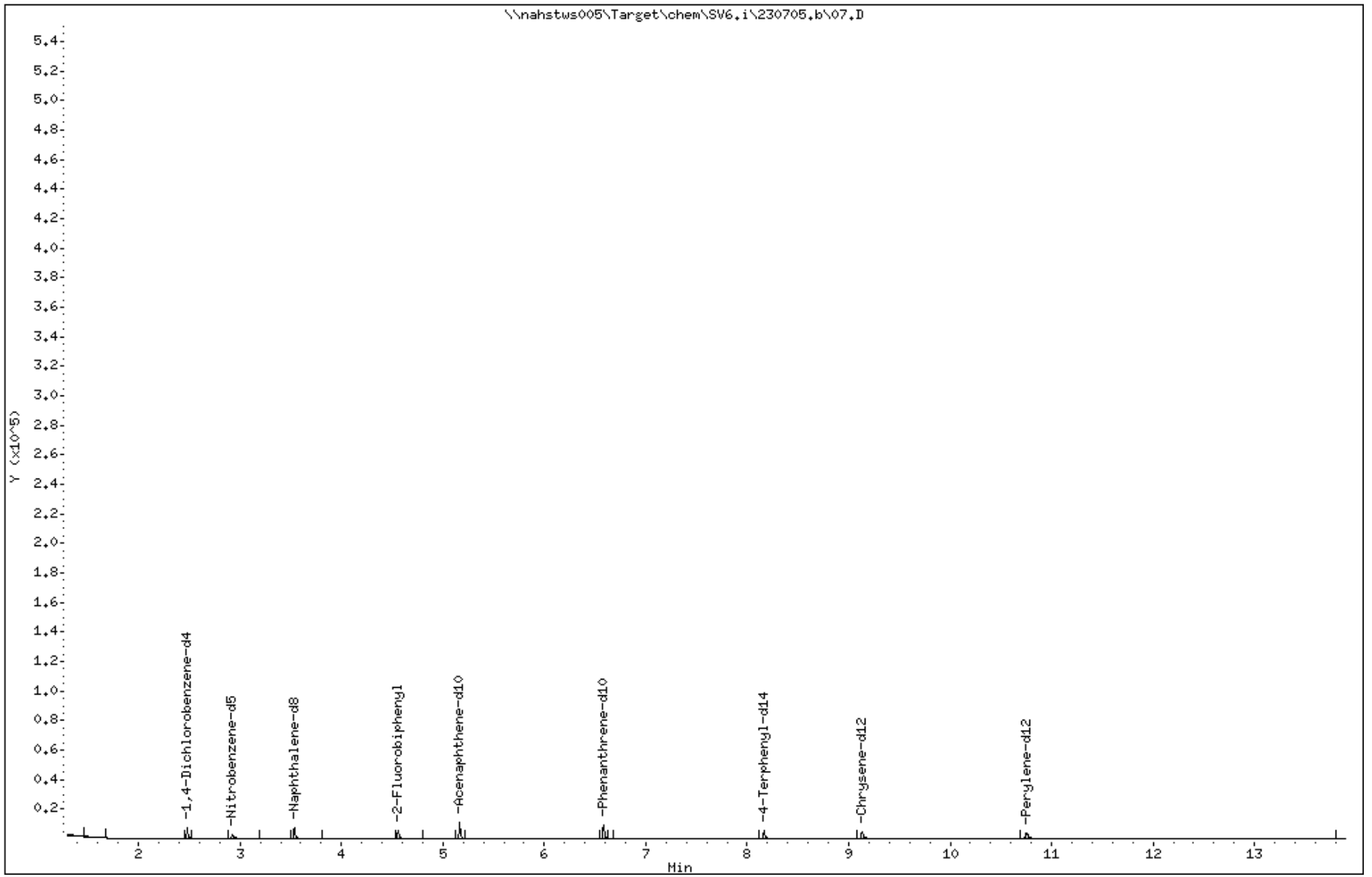
Sample Info: LCS-196920

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



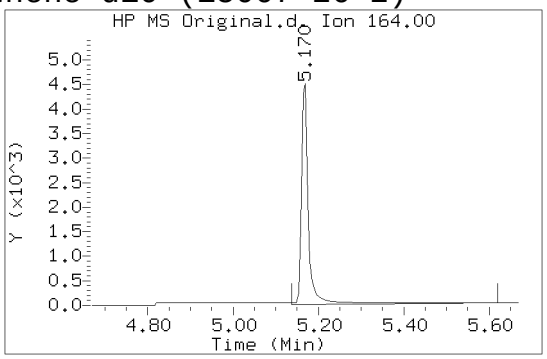
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Inj Date : 05-JUL-2023 12:31
InstruID : SV6.i
LabSampID : LCS-196920

Acenaphthene-d10 (15067-26-2)

Reason Code:

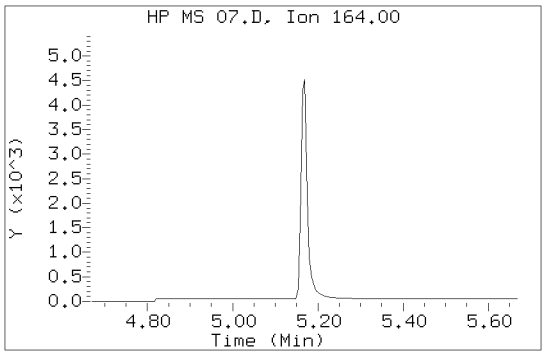
BEFORE

MASS
164
AREA
5275
HEIGHT
4496
05-Jul-2023
12:48
ALSHS
Server



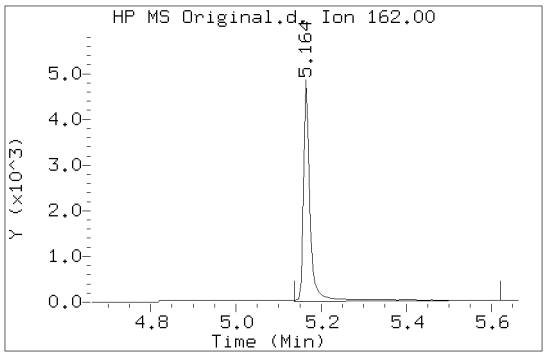
AFTER

MASS
164
AREA
6321
HEIGHT
4498
05-Jul-2023
16:03
ALSHS
Se



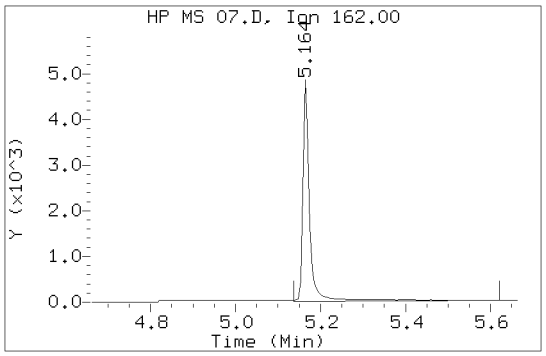
BEFORE

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162
AREA
5323
HEIGHT
4845
05-Jul-2023
12:48
ALSHS
Server



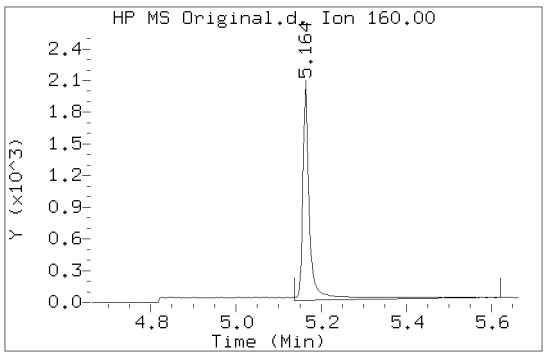
AFTER

MASS
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AREA
5323
HEIGHT
4845
05-Jul-2023
16:03
ALSHS
Se



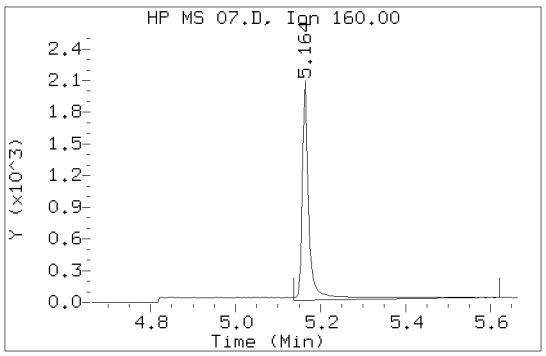
BEFORE

MASS
160
AREA
2438
HEIGHT
2079
05-Jul-2023
12:48
ALSHS
Server



AFTER

MASS
160
AREA
2438
HEIGHT
2079
05-Jul-2023
16:03
ALSHS
Se

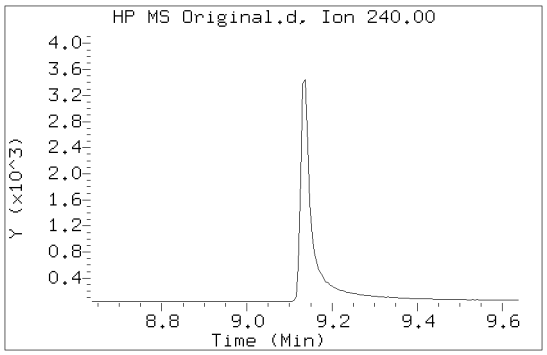


Chrysene-d12 (1719-03-5)

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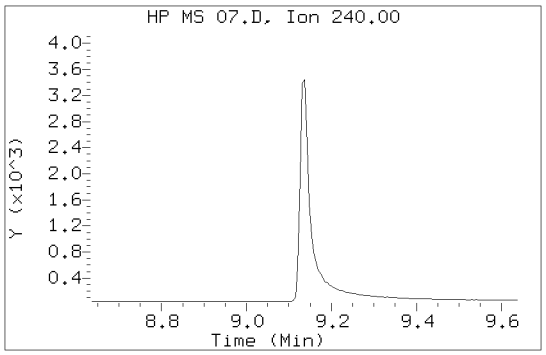
BEFORE

MASS
240
AREA
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HEIGHT
0
05-Jul-2023
12:48
ALSHS
Server



AFTER

MASS
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AREA
9529
HEIGHT
3425
05-Jul-2023
16:03
ALSHS
Se

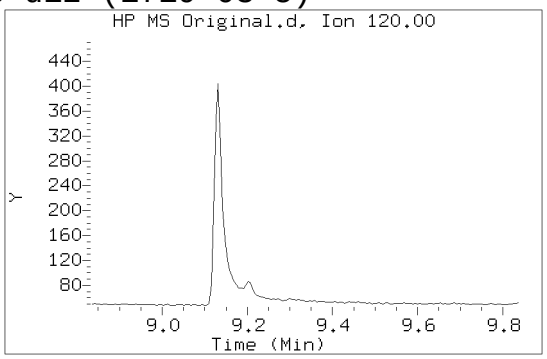


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Inj Date : 05-JUL-2023 12:31
InstruID : SV6.i
LabSampID : LCS-196920

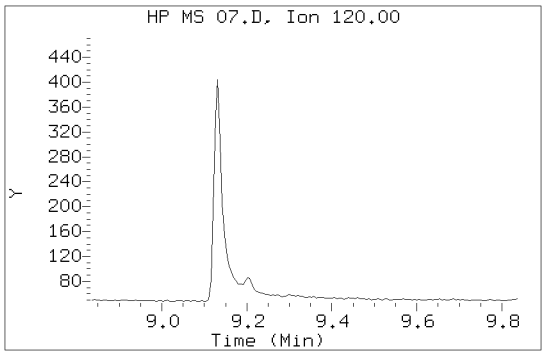
Chrysene-d12 (1719-03-5)

Reason Code:

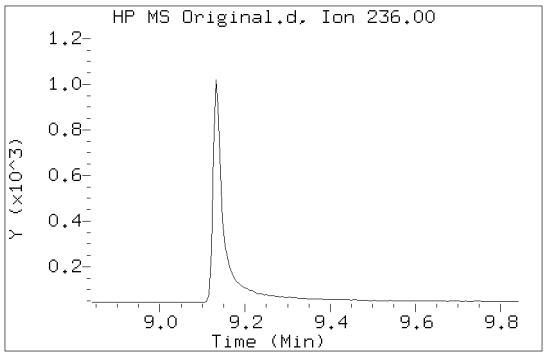
BEFORE
MASS
120
AREA
0
HEIGHT
0
05-Jul-2023
12:48
ALSHS
Server



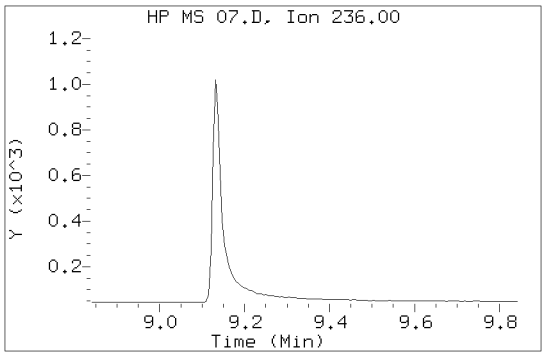
AFTER
MASS
120
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se



BEFORE
MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
12:48
ALSHS
Server



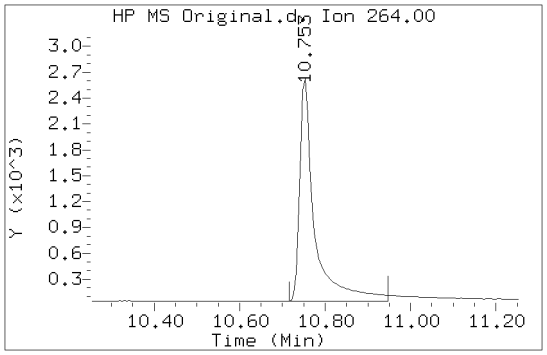
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05-Jul-2023
16:03
ALSHS
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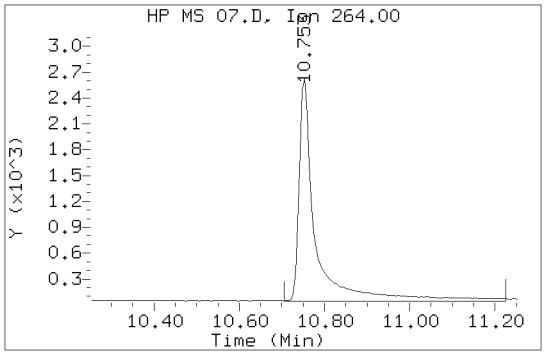
Perylene-d12 (1520-96-3)

Reason Code:

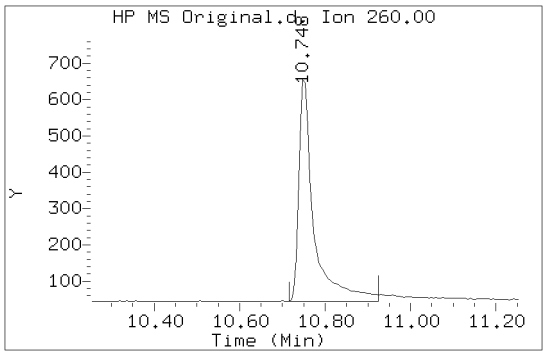
BEFORE
MASS
264
AREA
6199
HEIGHT
2573
05-Jul-2023
12:48
ALSHS
Server



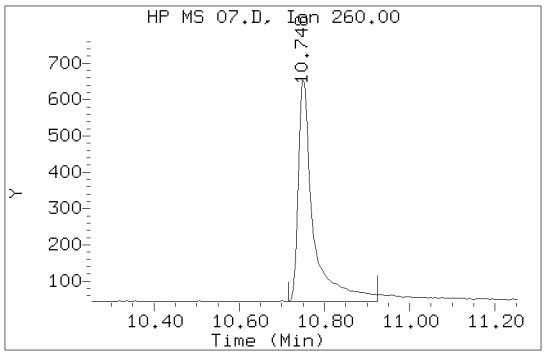
AFTER
MASS
264
AREA
6998
HEIGHT
2579
05-Jul-2023
16:03
ALSHS
Se



BEFORE
MASS
260
AREA
1487
HEIGHT
610
05-Jul-2023
12:48
ALSHS
Server



AFTER
MASS
260
AREA
1487
HEIGHT
610
05-Jul-2023
16:03
ALSHS
Se



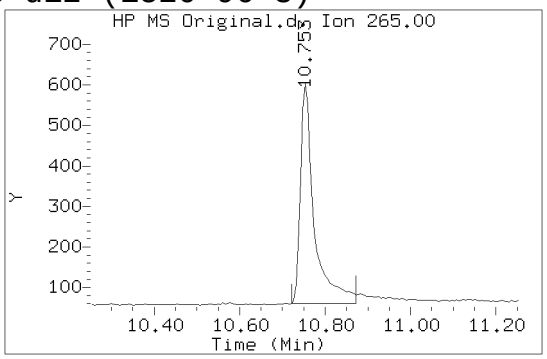
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Inj Date : 05-JUL-2023 12:31
InstruID : SV6.i
LabSampID : LCS-196920

Perylene-d12 (1520-96-3)

Reason Code:

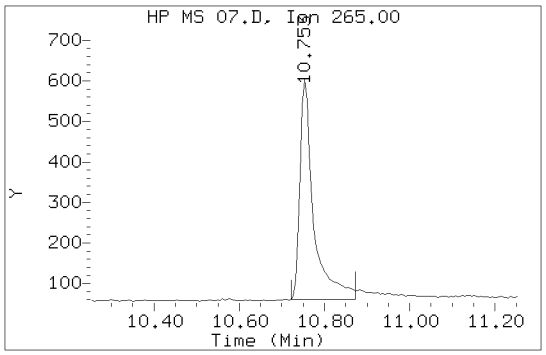
BEFORE

MASS
265
AREA
1205
HEIGHT
542
05-Jul-2023
12:48
ALSHS
Server



AFTER

MASS
265
AREA
1205
HEIGHT
542
05-Jul-2023
16:03
ALSHS
Se

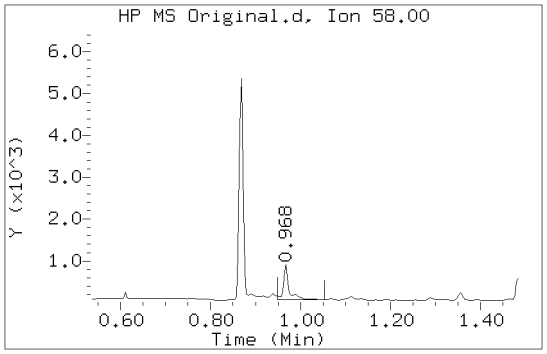


1,4-Dioxane ()

Reason Code:

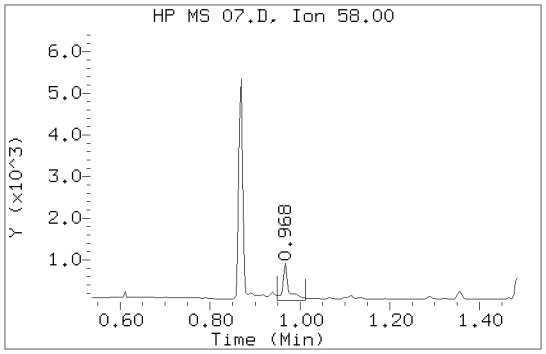
BEFORE

MASS
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AREA
742
HEIGHT
851
05-Jul-2023
12:48
ALSHS
Server



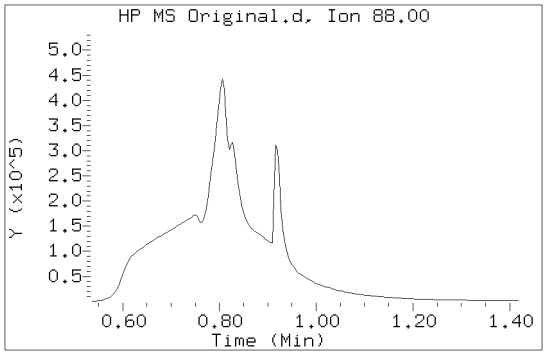
AFTER

MASS
58
AREA
871
HEIGHT
888
05-Jul-2023
16:03
ALSHS
Se



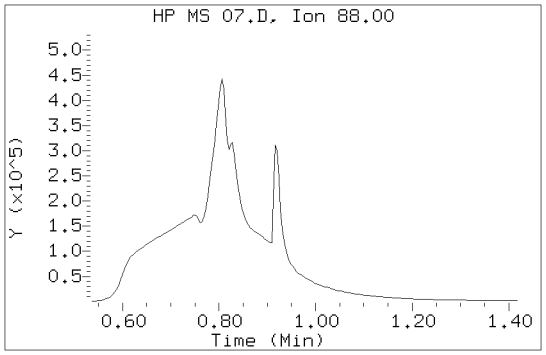
BEFORE

MASS
88
AREA
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HEIGHT
310475
05-Jul-2023
12:48
ALSHS
Server



AFTER

MASS
88
AREA
788288
HEIGHT
310475
05-Jul-2023
16:03
ALSHS
Se

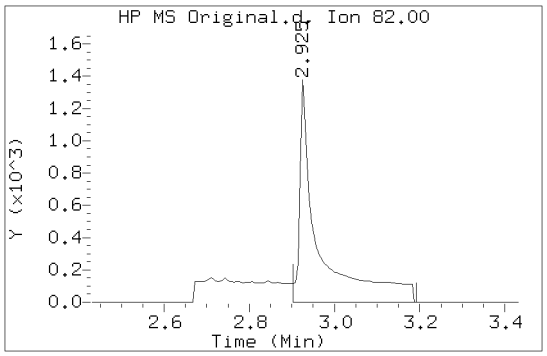


Nitrobenzene-d5 (4165-60-0)

Reason Code:

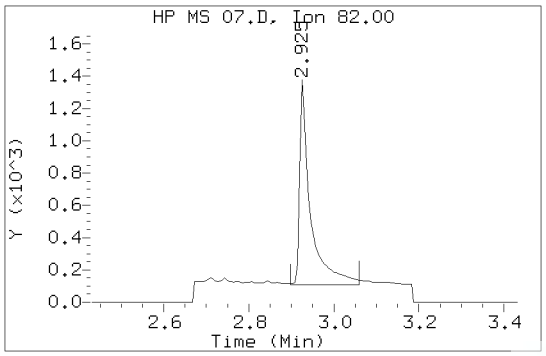
BEFORE

MASS
82
AREA
4152
HEIGHT
1377
05-Jul-2023
12:48
ALSHS
Server



AFTER

MASS
82
AREA
2247
HEIGHT
1270
05-Jul-2023
16:03
ALSHS
Se



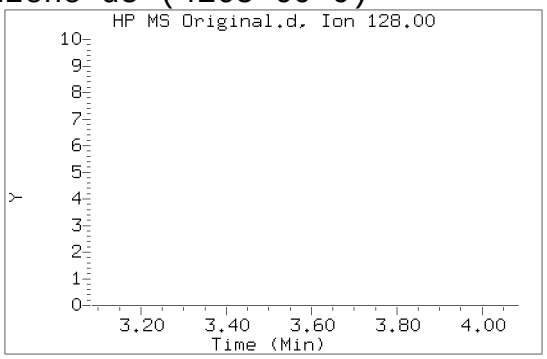
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Inj Date : 05-JUL-2023 12:31
InstruID : SV6.i
LabSampID : LCS-196920

Nitrobenzene-d5 (4165-60-0)

Reason Code:

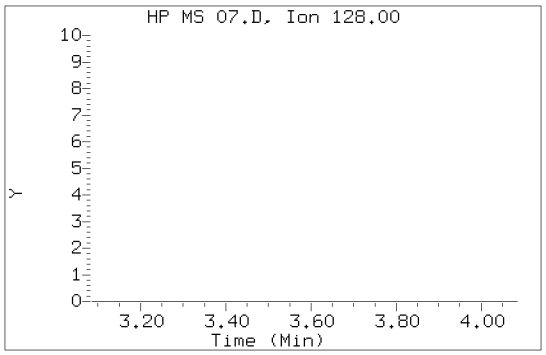
BEFORE

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AREA
0
HEIGHT
0
05-Jul-2023
12:48
ALSHS
Server



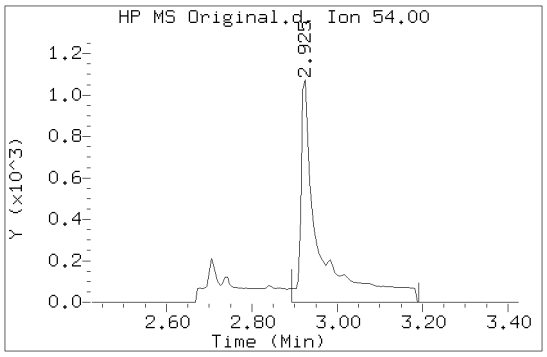
AFTER

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05-Jul-2023
16:03
ALSHS
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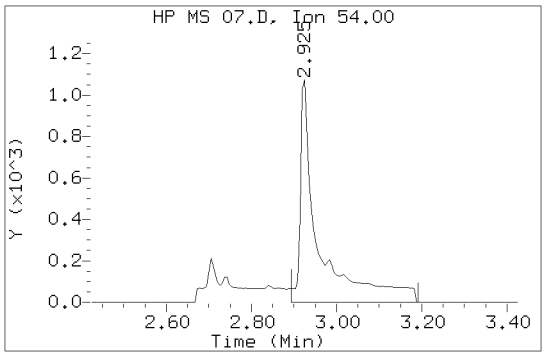
BEFORE

MASS
54
AREA
3148
HEIGHT
1073
05-Jul-2023
12:48
ALSHS
Server



AFTER

MASS
54
AREA
3148
HEIGHT
1073
05-Jul-2023
16:03
ALSHS
Se

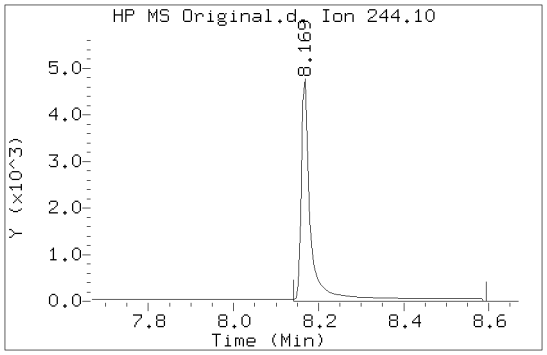


4-Terphenyl-d14 (1718-51-0)

Reason Code:

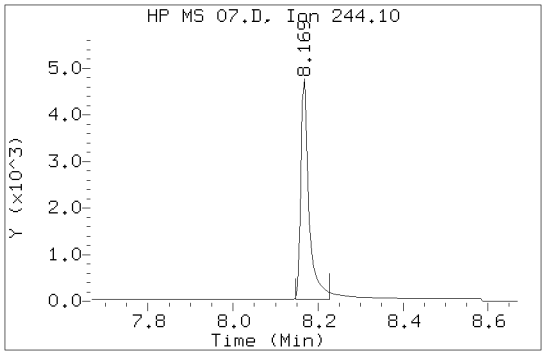
BEFORE

MASS
244.1
AREA
8000
HEIGHT
4771
05-Jul-2023
12:48
ALSHS
Server



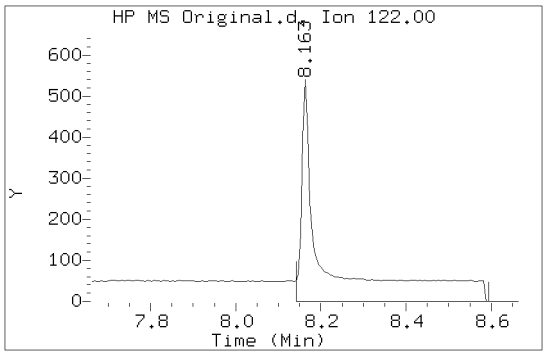
AFTER

MASS
244.1
AREA
6222
HEIGHT
4727
05-Jul-2023
16:03
ALSHS
Se



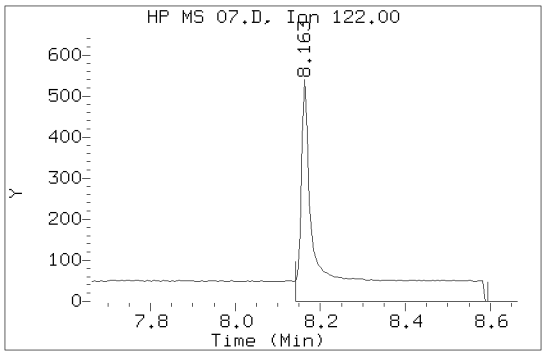
BEFORE

MASS
122
AREA
1996
HEIGHT
540
05-Jul-2023
12:48
ALSHS
Server



AFTER

MASS
122
AREA
1996
HEIGHT
540
05-Jul-2023
16:03
ALSHS
Se



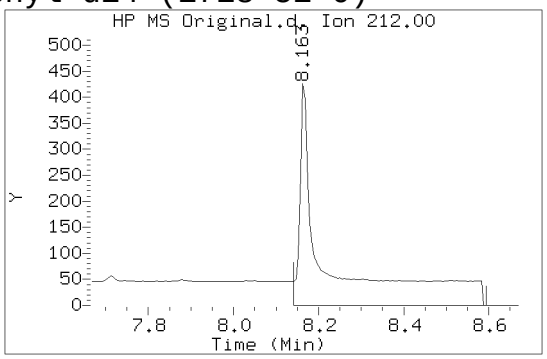
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Inj Date : 05-JUL-2023 12:31
InstruID : SV6.i
LabSampID : LCS-196920

4-Terphenyl-d14 (1718-51-0)

Reason Code:

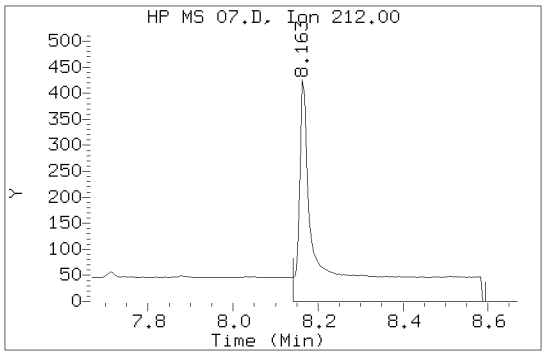
BEFORE

MASS
212
AREA
1775
HEIGHT
426
05-Jul-2023
12:48
ALSHS
Server



AFTER

MASS
212
AREA
1775
HEIGHT
426
05-Jul-2023
16:03
ALSHS
Se

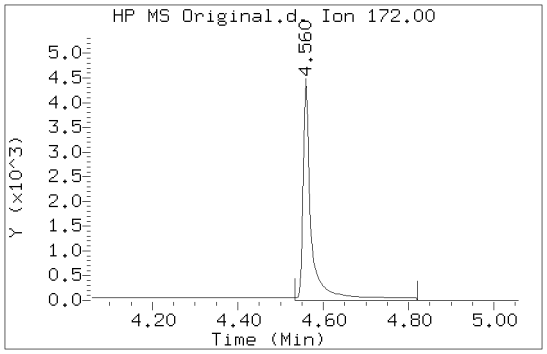


2-Fluorobiphenyl (321-60-8)

Reason Code:

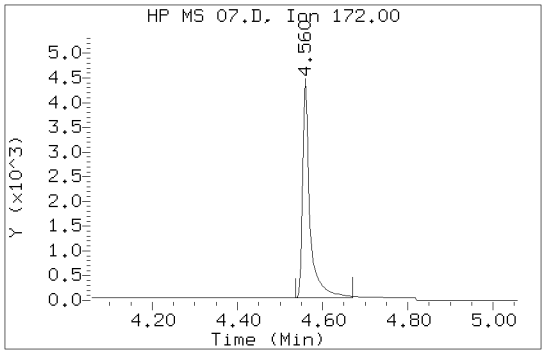
BEFORE

MASS
172
AREA
6248
HEIGHT
4485
05-Jul-2023
12:48
ALSHS
Server



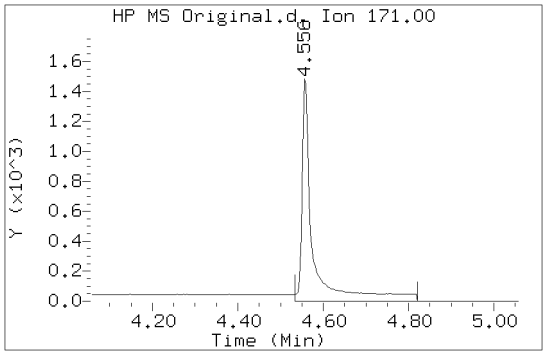
AFTER

MASS
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AREA
5314
HEIGHT
4437
05-Jul-2023
16:03
ALSHS
Se



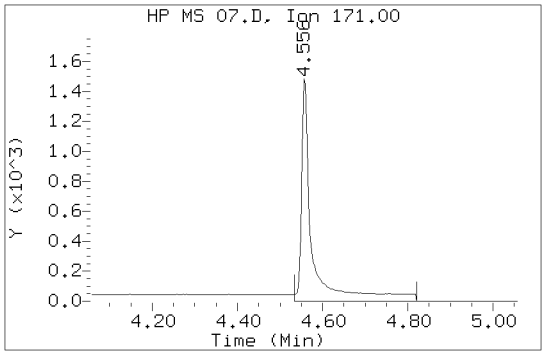
BEFORE

MASS
171
AREA
2622
HEIGHT
1484
05-Jul-2023
12:48
ALSHS
Server



AFTER

MASS
171
AREA
2622
HEIGHT
1484
05-Jul-2023
16:03
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230705.b\08.D Page 1
Report Date: 06-Jul-2023 10:22

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\08.D
Lab Smp Id: LCSD-196920 Client Smp ID: LCSD-196920
Inj Date : 05-JUL-2023 12:49
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-196920
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 06-Jul-2023 10:15 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

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	2.484	2.479	(1.000)	3003	0.10000	(a)
* 45 Naphthalene-d8	136	3.534	3.534	(1.000)	10762	0.10000	
$ 33 Nitrobenzene-d5	82	2.930	2.924	(0.829)	2463	0.07533	0.07532(M)
* 86 Acenaphthene-d10	164	5.164	5.169	(1.000)	6678	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.559	4.559	(0.883)	5824	0.08529	0.08528(M)
* 126 Phenanthrene-d10	188	6.581	6.587	(1.000)	10494	0.10000	
* 182 Chrysene-d12	240	9.131	9.142	(1.000)	10934	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.163	8.168	(0.894)	7256	0.08995	0.08995(M)
* 198 Perylene-d12	264	10.748	10.758	(1.000)	7326	0.10000	
1 1,4-Dioxane	58	0.979	0.949	(0.394)	724	0.07106	0.07106(Q)

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.

01200832

Data File: \\nahstws005\Target\chem\SV6.i\230705.b\08.D

Date : 05-JUL-2023 12:49

Client ID: LCSD-196920

Instrument: SV6.i

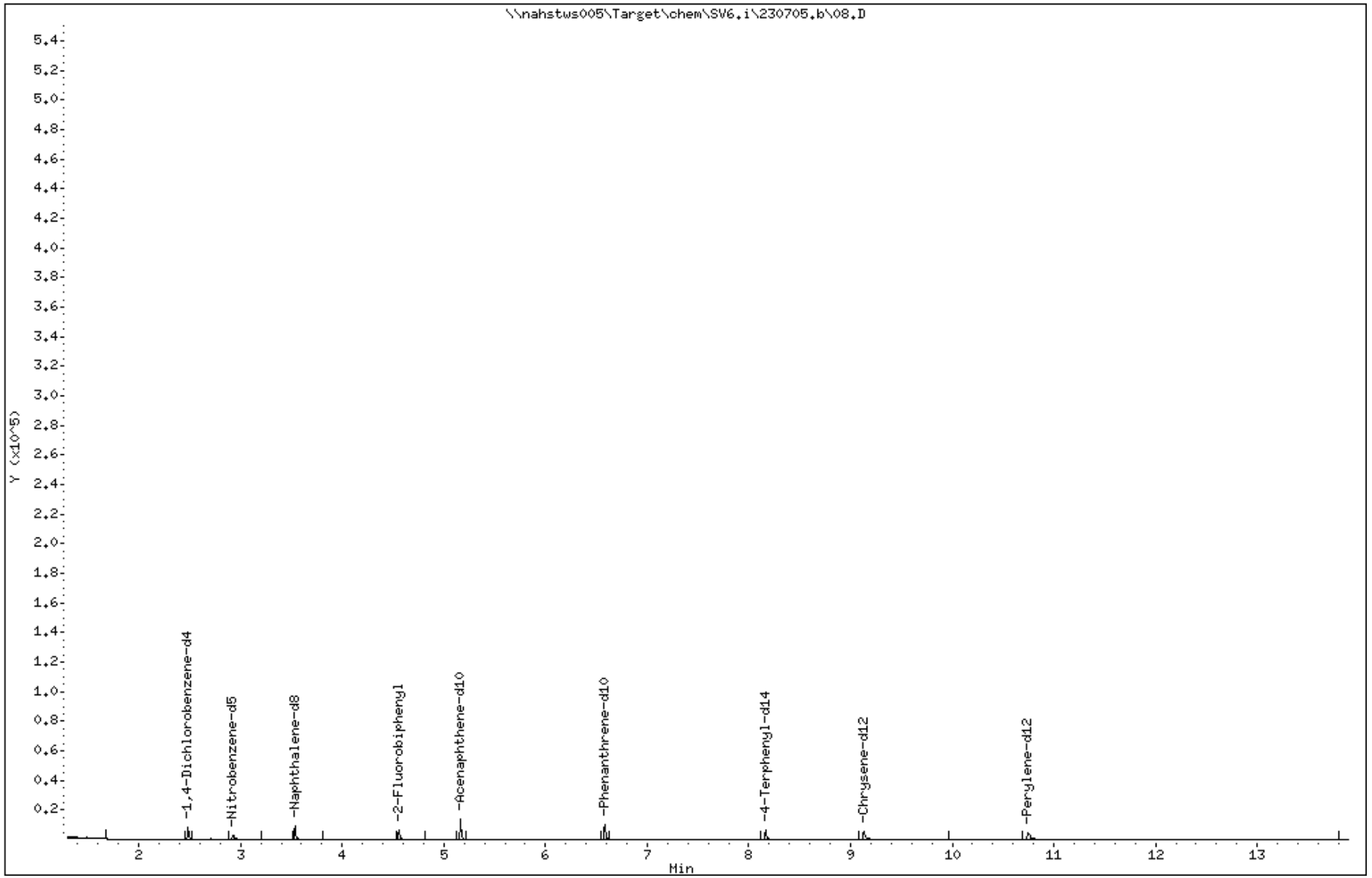
Sample Info: LCSD-196920

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



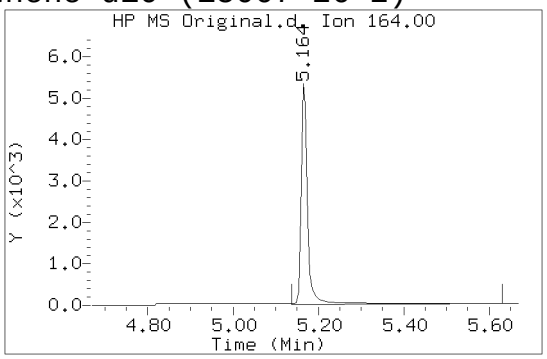
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\08.D
Inj Date : 05-JUL-2023 12:49
InstruID : SV6.i
LabSampID : LCSD-196920

Acenaphthene-d10 (15067-26-2)

Reason Code:

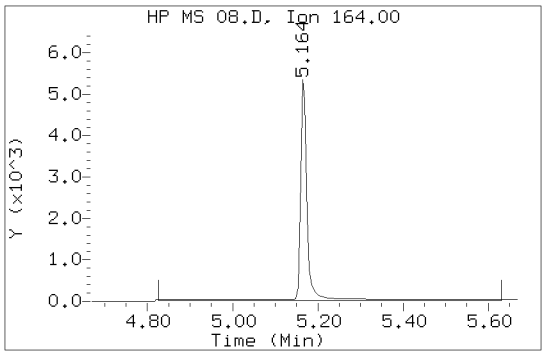
BEFORE

MASS
164
AREA
5811
HEIGHT
5330
05-Jul-2023
13:04
ALSHS
Server



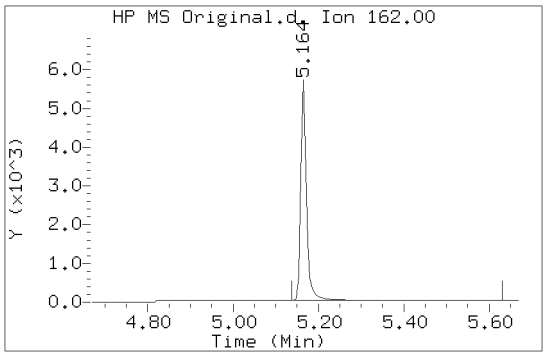
AFTER

MASS
164
AREA
6678
HEIGHT
5329
06-Jul-2023
10:22
ALSHS
Se



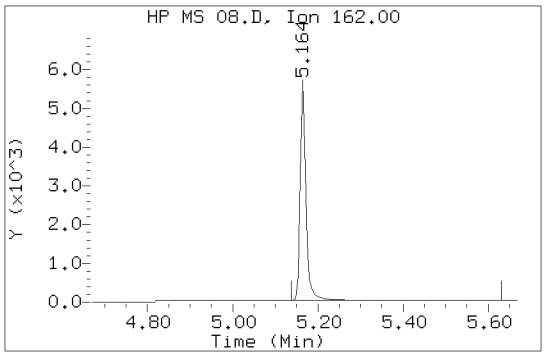
BEFORE

MASS
162
AREA
5402
HEIGHT
5689
05-Jul-2023
13:04
ALSHS
Server



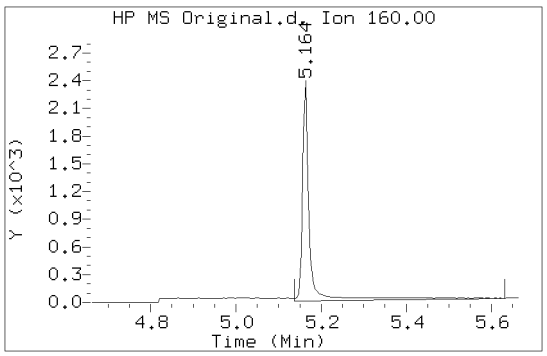
AFTER

MASS
162
AREA
5402
HEIGHT
5689
06-Jul-2023
10:22
ALSHS
Se



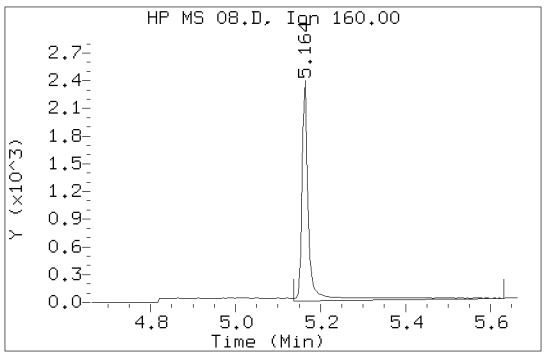
BEFORE

MASS
160
AREA
2696
HEIGHT
2381
05-Jul-2023
13:04
ALSHS
Server



AFTER

MASS
160
AREA
2696
HEIGHT
2381
06-Jul-2023
10:22
ALSHS
Se

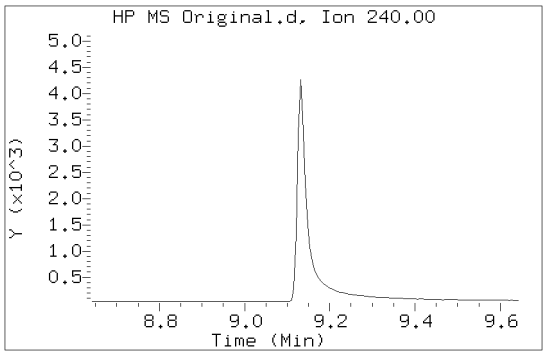


Chrysene-d12 (1719-03-5)

Reason Code:

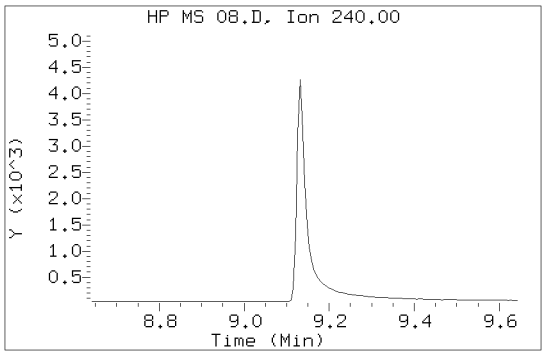
BEFORE

MASS
240
AREA
0
HEIGHT
0
05-Jul-2023
13:04
ALSHS
Server



AFTER

MASS
240
AREA
10934
HEIGHT
4248
06-Jul-2023
10:22
ALSHS
Se

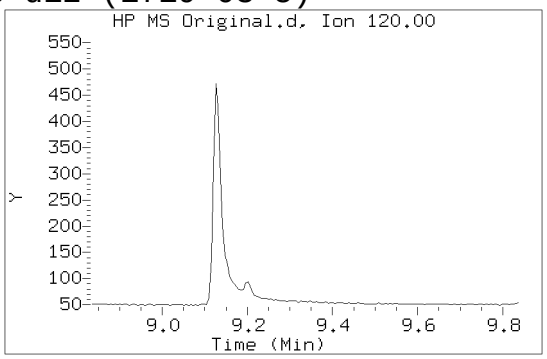


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Inj Date : 05-JUL-2023 12:49
InstruID : SV6.i
LabSampID : LCSD-196920

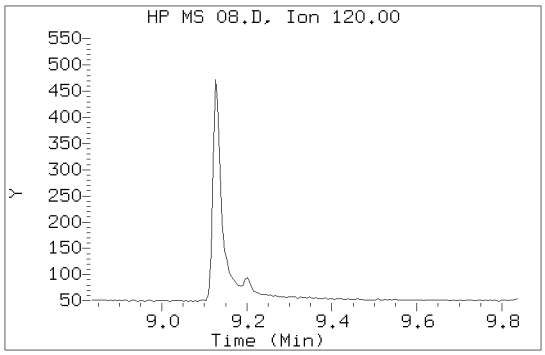
Chrysene-d12 (1719-03-5)

Reason Code:

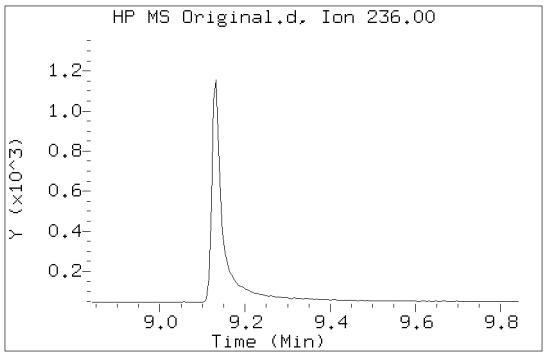
BEFORE
MASS
120
AREA
0
HEIGHT
0
05-Jul-2023
13:04
ALSHS
Server



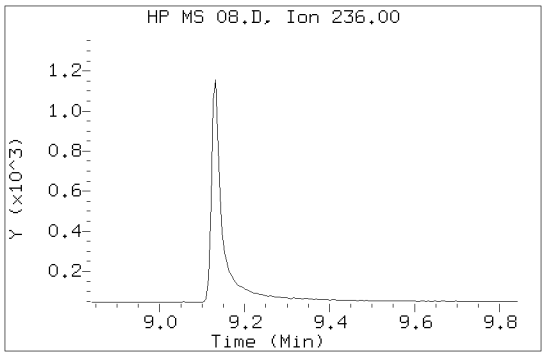
AFTER
MASS
120
AREA
0
HEIGHT
0
06-Jul-2023
10:22
ALSHS
Se



BEFORE
MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
13:04
ALSHS
Server



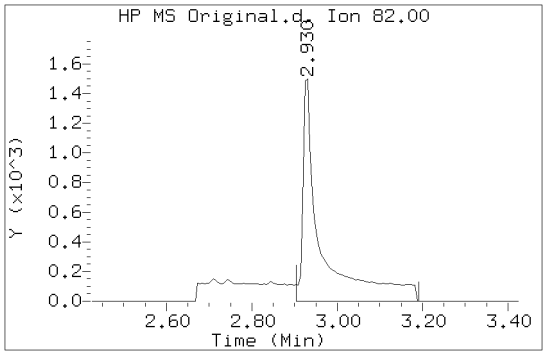
AFTER
MASS
236
AREA
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HEIGHT
0
06-Jul-2023
10:22
ALSHS
Se



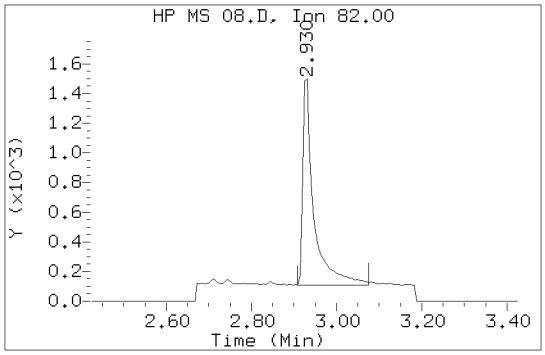
Nitrobenzene-d5 (4165-60-0)

Reason Code:

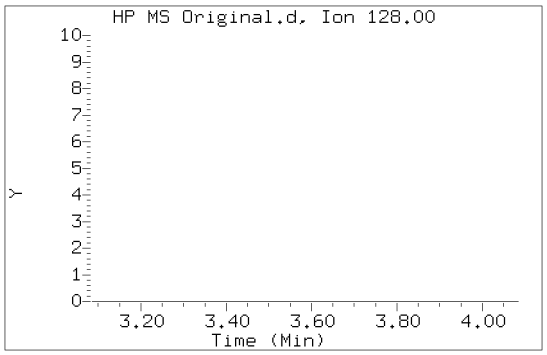
BEFORE
MASS
82
AREA
4342
HEIGHT
1499
05-Jul-2023
13:04
ALSHS
Server



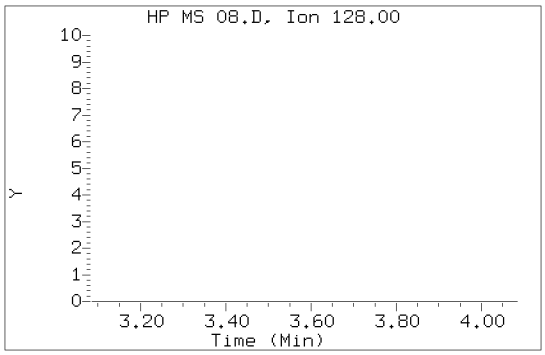
AFTER
MASS
82
AREA
2463
HEIGHT
1390
06-Jul-2023
10:22
ALSHS
Se



BEFORE
MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
13:04
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
06-Jul-2023
10:22
ALSHS
Se



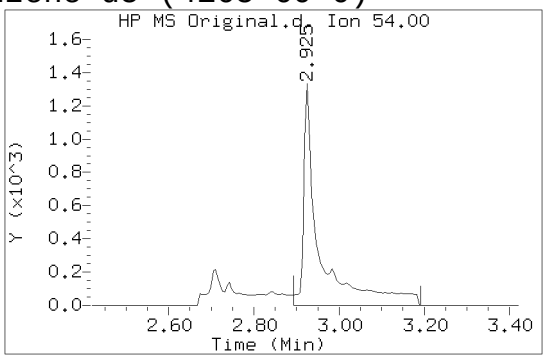
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\08.D
Inj Date : 05-JUL-2023 12:49
InstruID : SV6.i
LabSampID : LCSD-196920

Nitrobenzene-d5 (4165-60-0)

Reason Code:

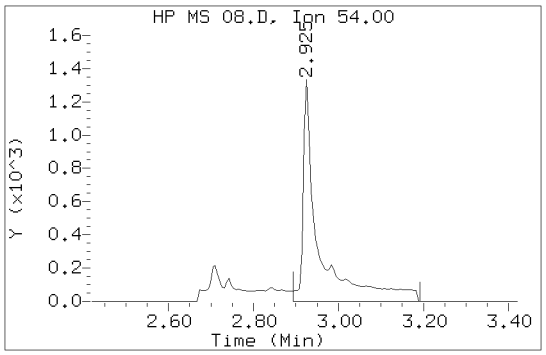
BEFORE

MASS
54
AREA
3331
HEIGHT
1333
05-Jul-2023
13:04
ALSHS
Server



AFTER

MASS
54
AREA
3331
HEIGHT
1333
06-Jul-2023
10:22
ALSHS
Se

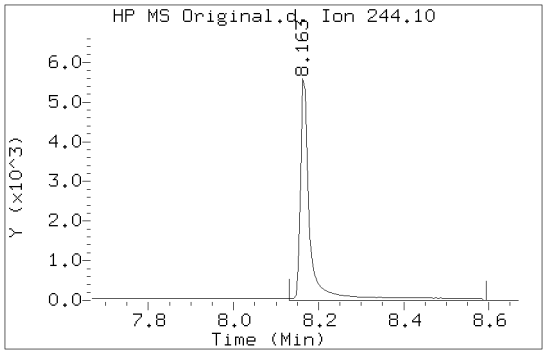


4-Terphenyl-d14 (1718-51-0)

Reason Code:

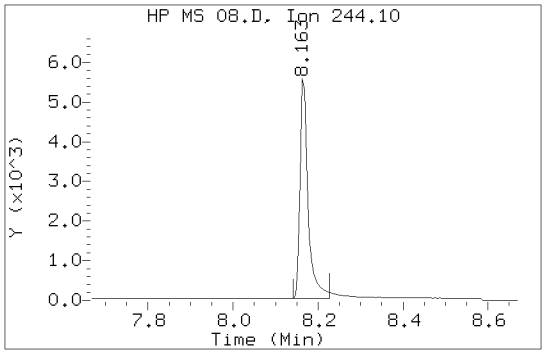
BEFORE

MASS
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AREA
9120
HEIGHT
5590
05-Jul-2023
13:04
ALSHS
Server



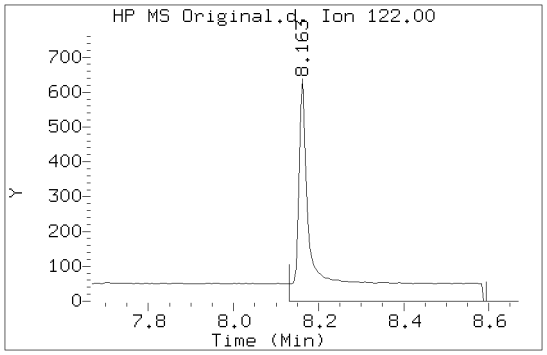
AFTER

MASS
244.1
AREA
7256
HEIGHT
5538
06-Jul-2023
10:22
ALSHS
Se



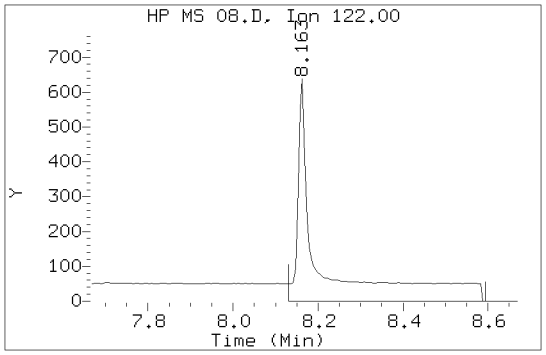
BEFORE

MASS
122
AREA
2164
HEIGHT
638
05-Jul-2023
13:04
ALSHS
Server



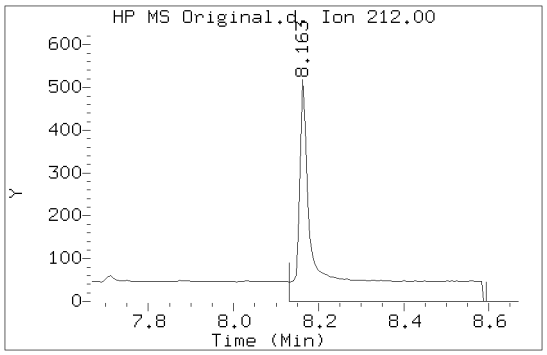
AFTER

MASS
122
AREA
2164
HEIGHT
638
06-Jul-2023
10:22
ALSHS
Se



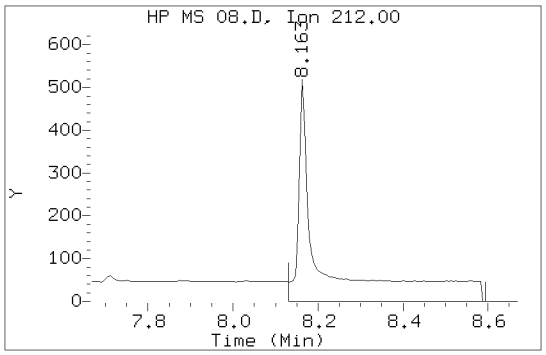
BEFORE

MASS
212
AREA
1899
HEIGHT
518
05-Jul-2023
13:04
ALSHS
Server



AFTER

MASS
212
AREA
1899
HEIGHT
518
06-Jul-2023
10:22
ALSHS
Se



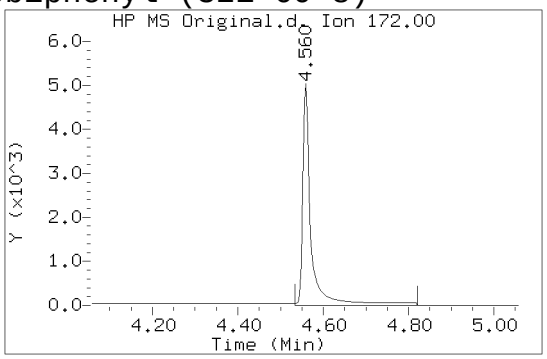
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\08.D
Inj Date : 05-JUL-2023 12:49
InstruID : SV6.i
LabSampID : LCSD-196920

2-Fluorobiphenyl (321-60-8)

Reason Code:

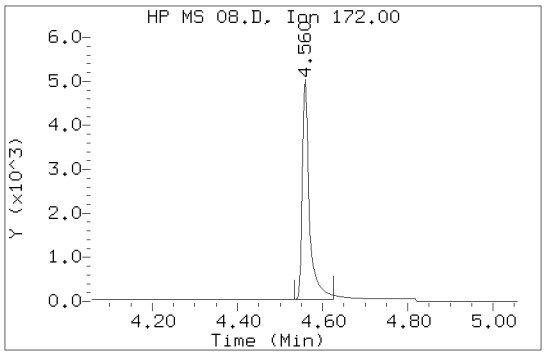
BEFORE

MASS
172
AREA
6869
HEIGHT
5038
05-Jul-2023
13:04
ALSHS
Server



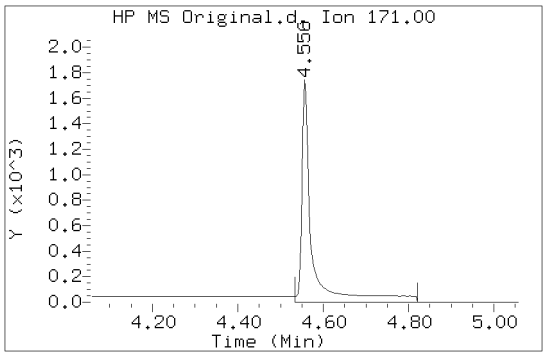
AFTER

MASS
172
AREA
5824
HEIGHT
4990
06-Jul-2023
10:22
ALSHS
Se



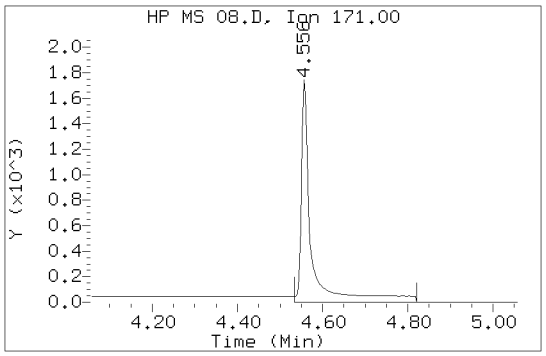
BEFORE

MASS
171
AREA
2848
HEIGHT
1744
05-Jul-2023
13:04
ALSHS
Server



AFTER

MASS
171
AREA
2848
HEIGHT
1744
06-Jul-2023
10:22
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\09.D
Lab Smp Id: HS23061707-03 Client Smp ID: HS23061707-03
Inj Date : 05-JUL-2023 13:08
Operator : LG Inst ID: SV6.i
Smp Info : HS23061707-03
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 05-Jul-2023 12:00 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.484	2.484	(1.000)	3530	0.10000	(a)
* 45 Naphthalene-d8	136	3.534	3.538	(1.000)	8953	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.924	2.930	(0.827)	2059	0.07569	0.07569(M)
* 86 Acenaphthene-d10	164	5.163	5.169	(1.000)	6359	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.559	4.559	(0.883)	5356	0.08237	0.08237(M)
* 126 Phenanthrene-d10	188	6.581	6.581	(1.000)	10285	0.10000	
* 182 Chrysene-d12	240	9.131	9.136	(1.000)	8573	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.168	8.168	(0.895)	5721	0.09045	0.09045(M)
* 198 Perylene-d12	264	10.753	10.753	(1.000)	6714	0.10000	
1 1,4-Dioxane	58	0.986	0.982	(0.397)	195	0.01628	0.01628(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01200838

Data File: \\nahstws005\Target\chem\SV6.i\230705.b\09.D

Date : 05-JUL-2023 13:08

Client ID: HS23061707-03

Instrument: SV6.i

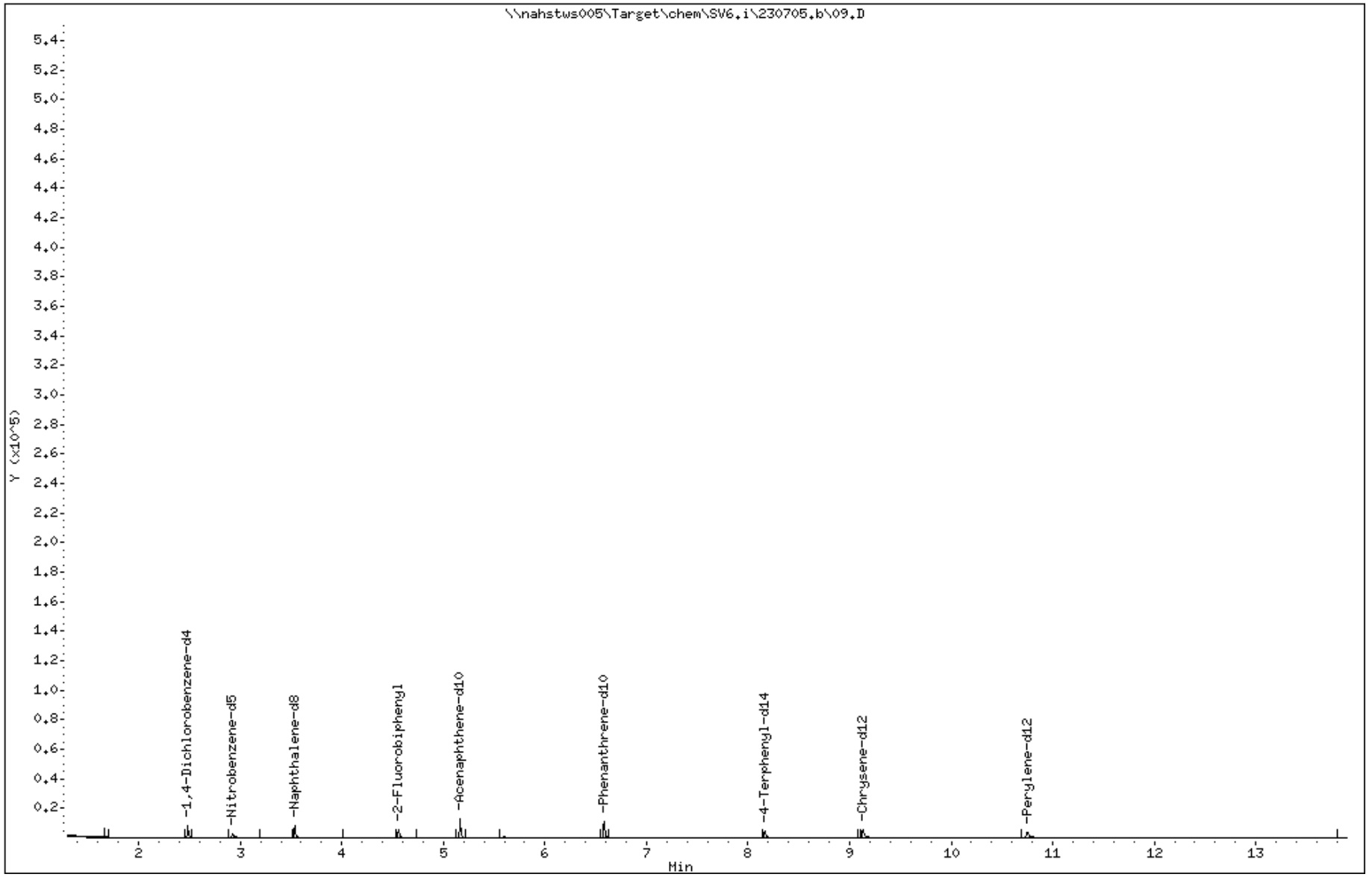
Sample Info: HS23061707-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230705.b\09.D

Date : 05-JUL-2023 13:08

Client ID: HS23061707-03

Instrument: SV6.i

Sample Info: HS23061707-03

Purge Volume: 1000.0

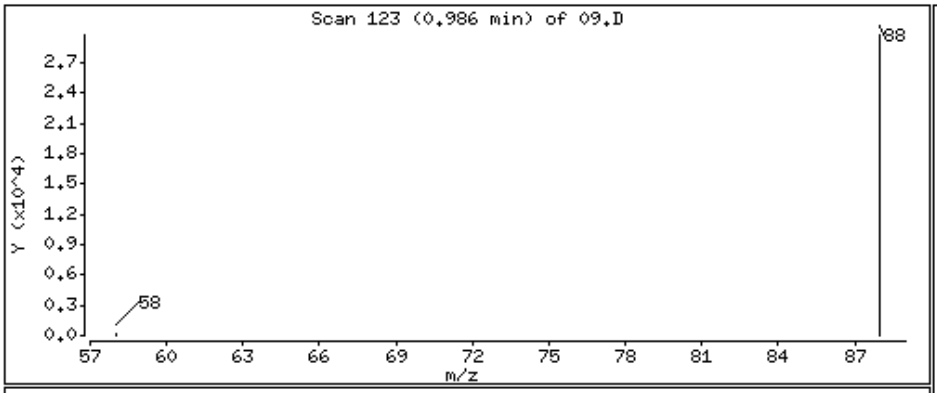
Operator: LG

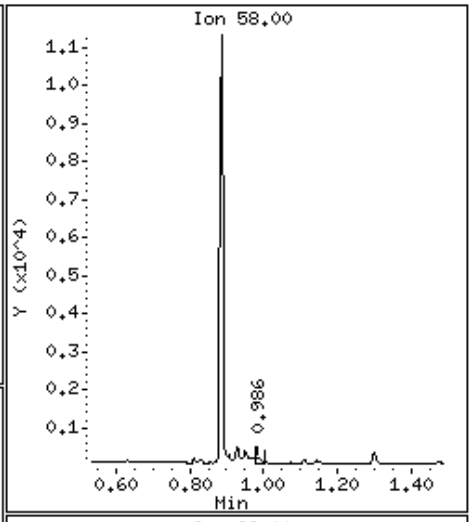
Column phase: RTX-5SIL MS

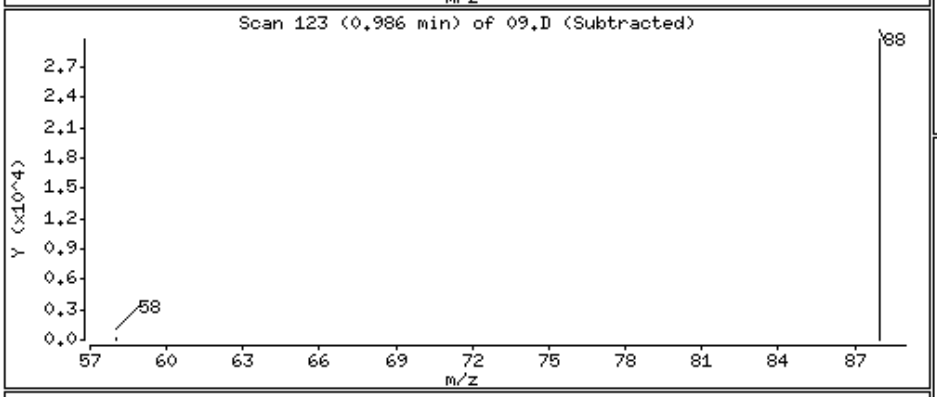
Column diameter: 0.28

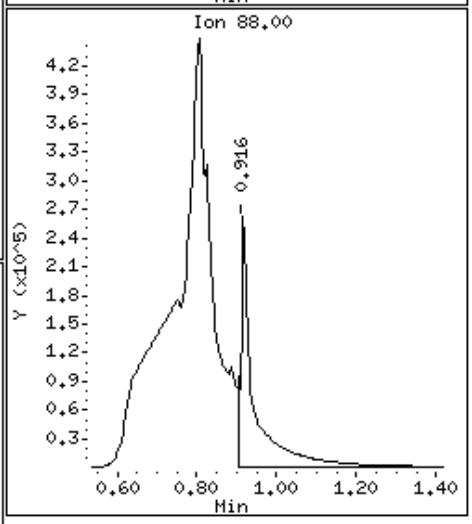
1 1,4-Dioxane

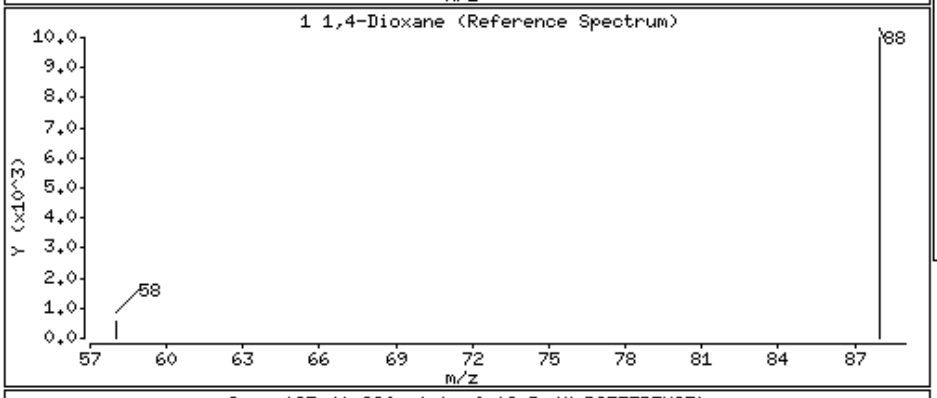
Concentration: 0.01628 ug/L

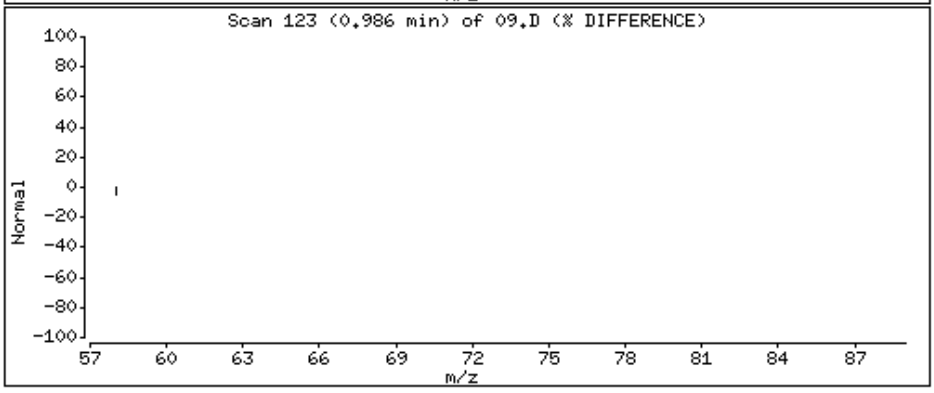












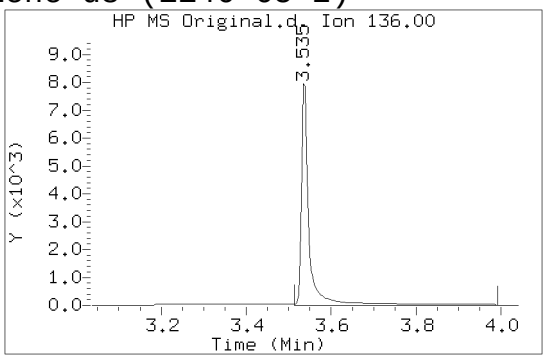
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\09.D
Inj Date : 05-JUL-2023 13:08
InstruID : SV6.i
LabSampID : HS23061707-03

Naphthalene-d8 (1146-65-2)

Reason Code:

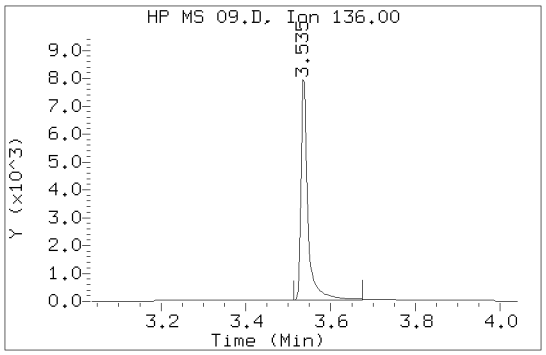
BEFORE

MASS
136
AREA
10421
HEIGHT
7951
05-Jul-2023
13:23
ALSHS
Server



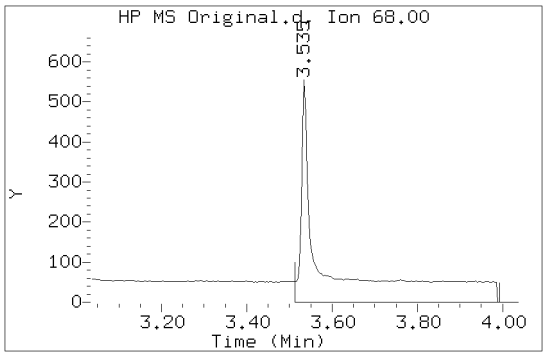
AFTER

MASS
136
AREA
8953
HEIGHT
7908
05-Jul-2023
16:03
ALSHS
Se



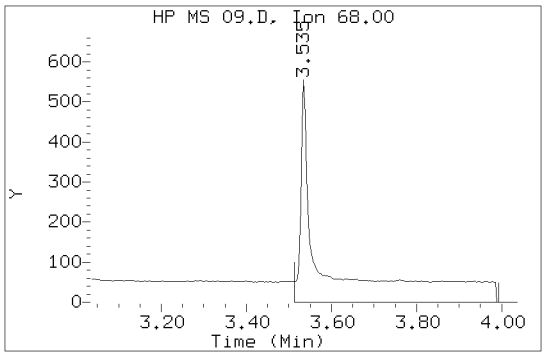
BEFORE

MASS
68
AREA
2031
HEIGHT
555
05-Jul-2023
13:23
ALSHS
Server



AFTER

MASS
68
AREA
2031
HEIGHT
555
05-Jul-2023
16:03
ALSHS
Se

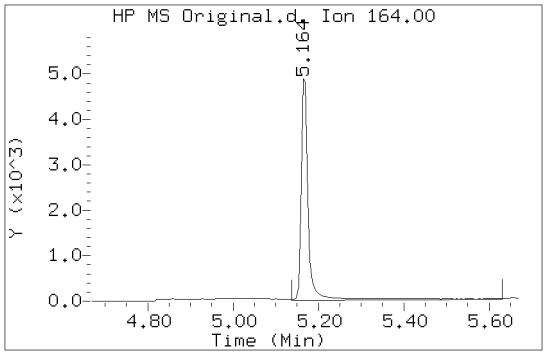


Acenaphthene-d10 (15067-26-2)

Reason Code:

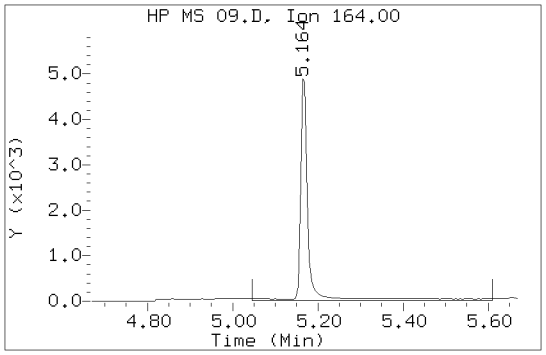
BEFORE

MASS
164
AREA
5698
HEIGHT
4869
05-Jul-2023
13:23
ALSHS
Server



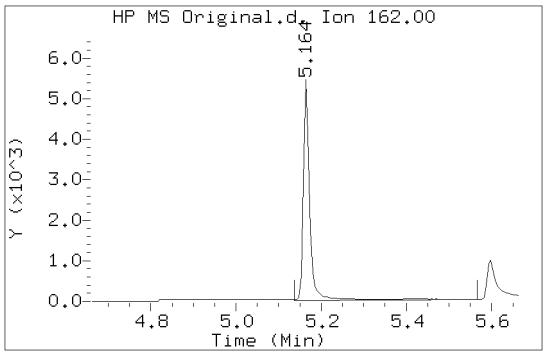
AFTER

MASS
164
AREA
6359
HEIGHT
4874
05-Jul-2023
16:03
ALSHS
Se



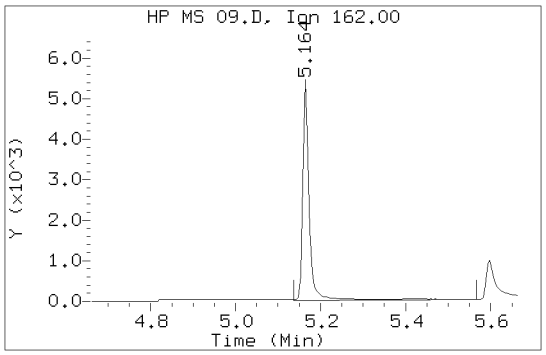
BEFORE

MASS
162
AREA
5735
HEIGHT
5445
05-Jul-2023
13:23
ALSHS
Server



AFTER

MASS
162
AREA
5735
HEIGHT
5445
05-Jul-2023
16:03
ALSHS
Se



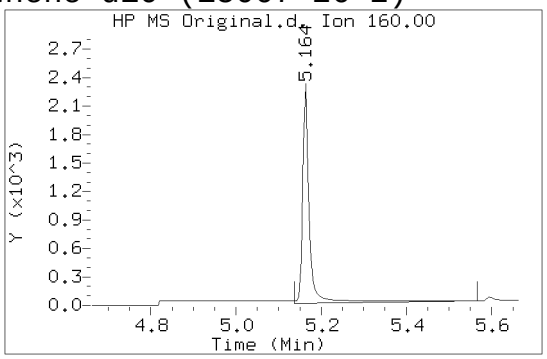
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\09.D
Inj Date : 05-JUL-2023 13:08
InstruID : SV6.i
LabSampID : HS23061707-03

Acenaphthene-d10 (15067-26-2)

Reason Code:

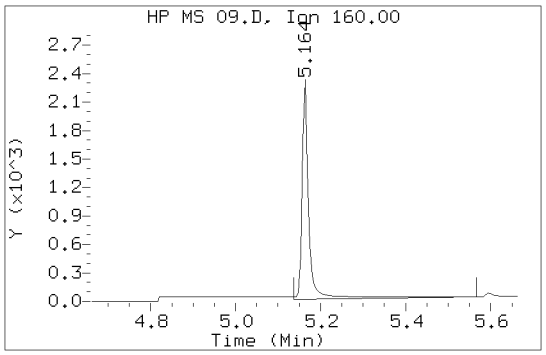
BEFORE

MASS
160
AREA
2592
HEIGHT
2314
05-Jul-2023
13:23
ALSHS
Server



AFTER

MASS
160
AREA
2592
HEIGHT
2314
05-Jul-2023
16:03
ALSHS
Se

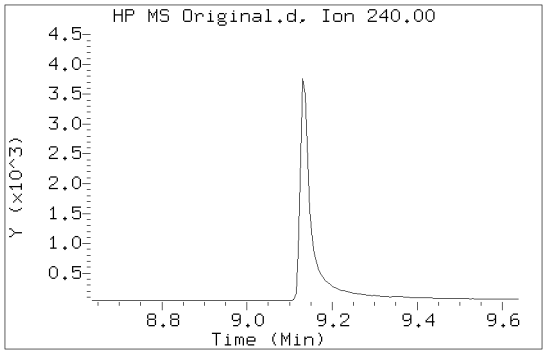


Chrysene-d12 (1719-03-5)

Reason Code:

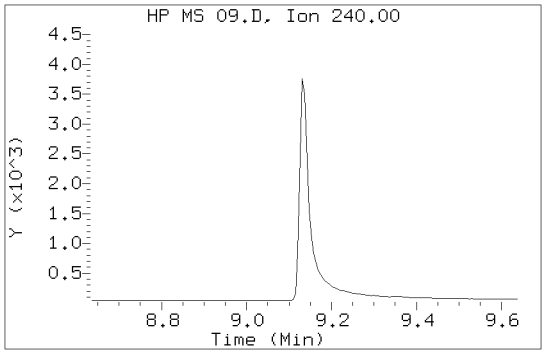
BEFORE

MASS
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AREA
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HEIGHT
0
05-Jul-2023
13:23
ALSHS
Server



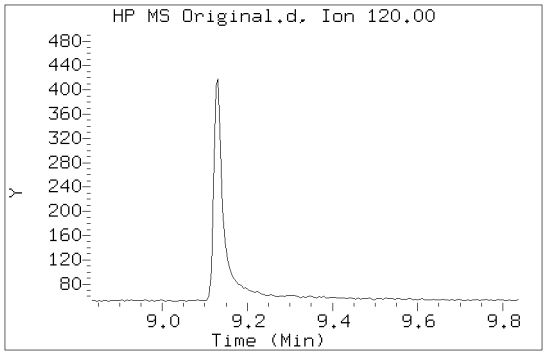
AFTER

MASS
240
AREA
8573
HEIGHT
3725
05-Jul-2023
16:03
ALSHS
Se



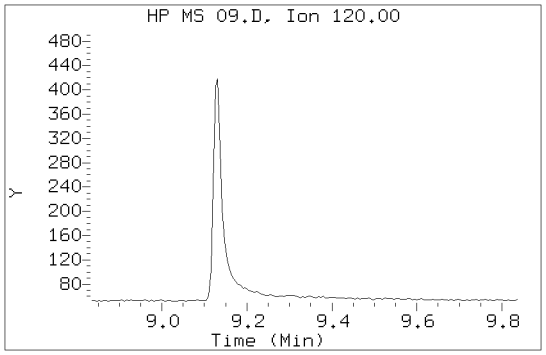
BEFORE

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AREA
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HEIGHT
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05-Jul-2023
13:23
ALSHS
Server



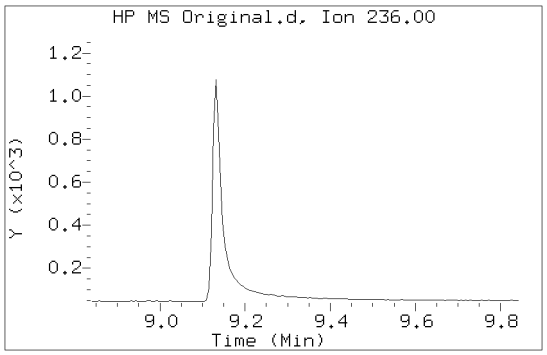
AFTER

MASS
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AREA
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HEIGHT
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05-Jul-2023
16:03
ALSHS
Se



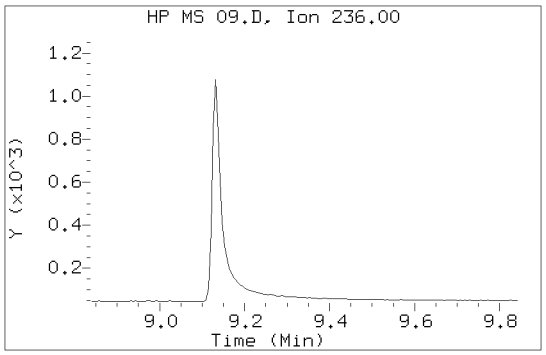
BEFORE

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
13:23
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se



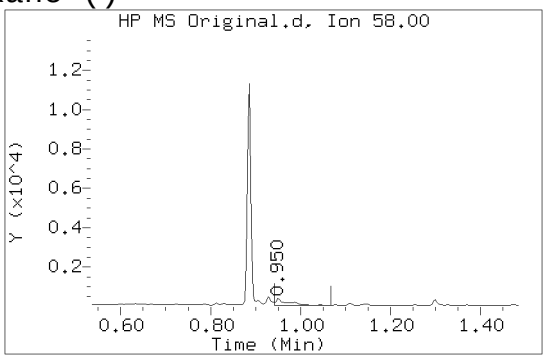
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\09.D
Inj Date : 05-JUL-2023 13:08
InstruID : SV6.i
LabSampID : HS23061707-03

1,4-Dioxane ()

Reason Code:

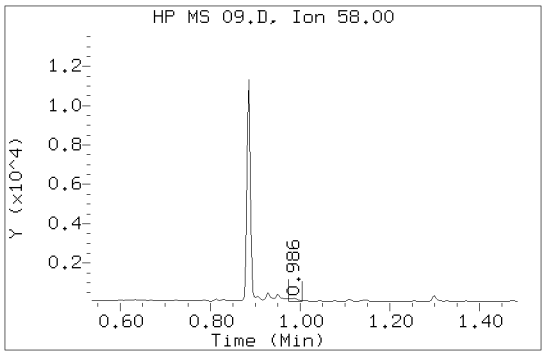
BEFORE

MASS
58
AREA
603
HEIGHT
356
05-Jul-2023
13:23
ALSHS
Server



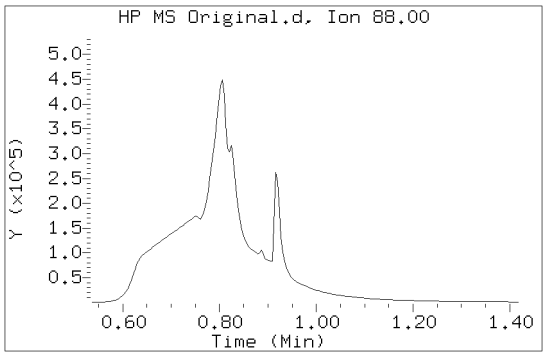
AFTER

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AREA
195
HEIGHT
139
05-Jul-2023
16:03
ALSHS
Se



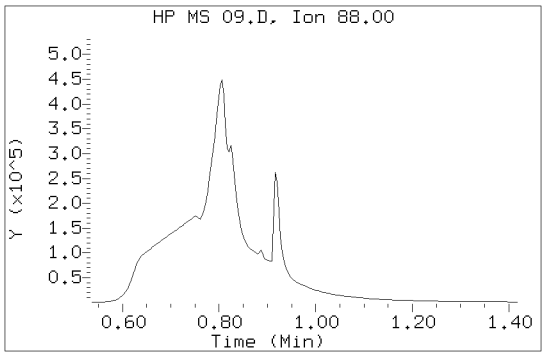
BEFORE

MASS
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AREA
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HEIGHT
261431
05-Jul-2023
13:23
ALSHS
Server



AFTER

MASS
88
AREA
566355
HEIGHT
261431
05-Jul-2023
16:03
ALSHS
Se

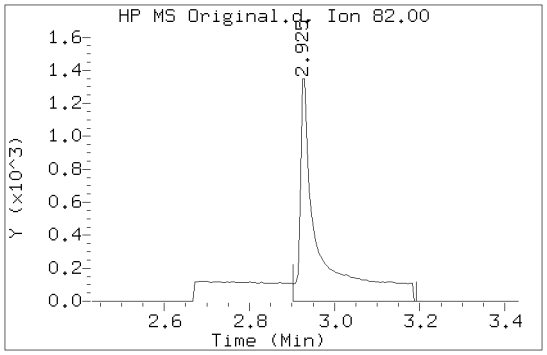


Nitrobenzene-d5 (4165-60-0)

Reason Code:

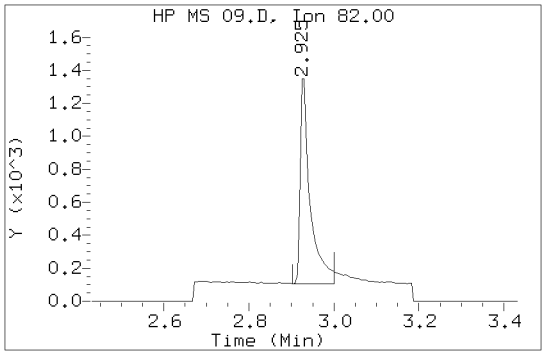
BEFORE

MASS
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AREA
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HEIGHT
1348
05-Jul-2023
13:23
ALSHS
Server



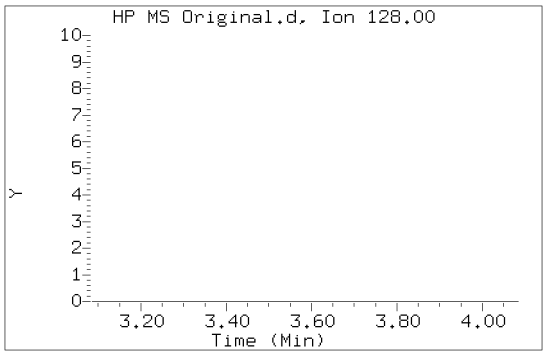
AFTER

MASS
82
AREA
2059
HEIGHT
1244
05-Jul-2023
16:03
ALSHS
Se



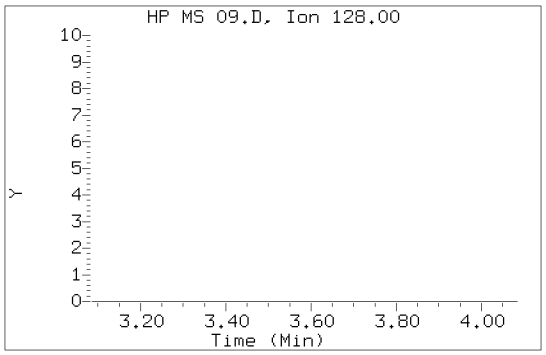
BEFORE

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
13:23
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se

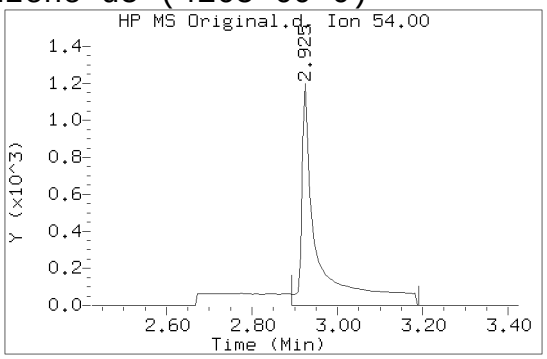


Data File : \\nahstws005\Target\chem\SV6.i\230705.b\09.D
Inj Date : 05-JUL-2023 13:08
InstruID : SV6.i
LabSampID : HS23061707-03

Nitrobenzene-d5 (4165-60-0)

BEFORE

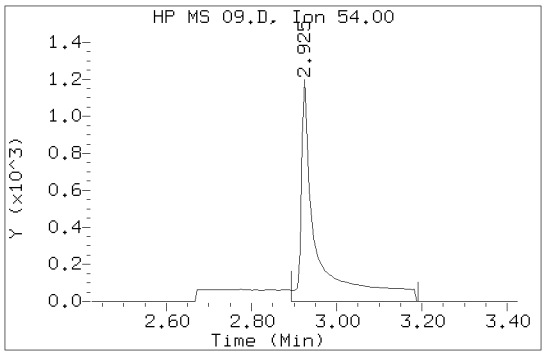
MASS
54
AREA
2981
HEIGHT
1198
05-Jul-2023
13:23
ALSHS
Server



Reason Code:

AFTER

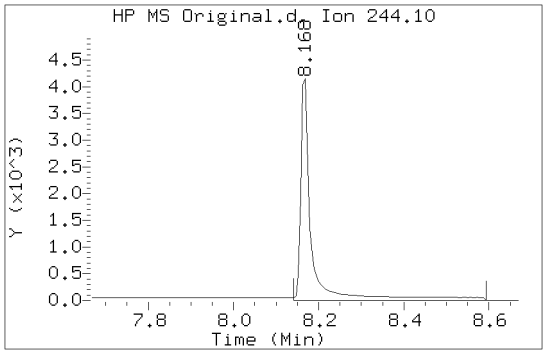
MASS
54
AREA
2981
HEIGHT
1198
05-Jul-2023
16:03
ALSHS
Se



4-Terphenyl-d14 (1718-51-0)

BEFORE

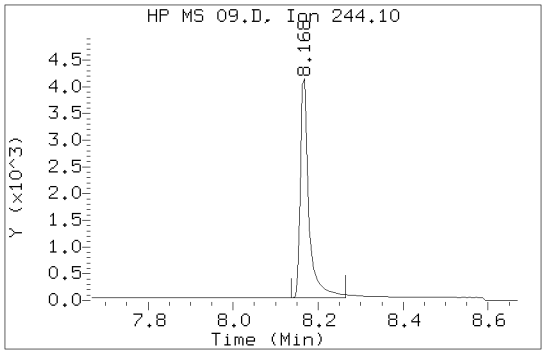
MASS
244.1
AREA
7301
HEIGHT
4149
05-Jul-2023
13:23
ALSHS
Server



Reason Code:

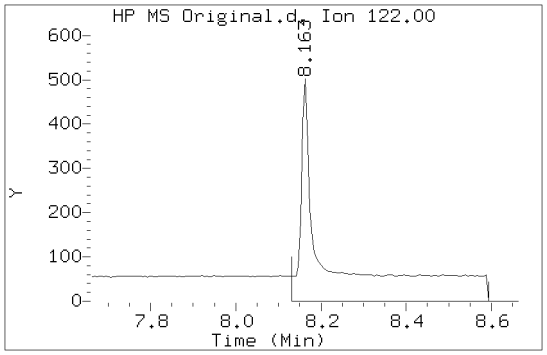
AFTER

MASS
244.1
AREA
5721
HEIGHT
4103
05-Jul-2023
16:03
ALSHS
Se



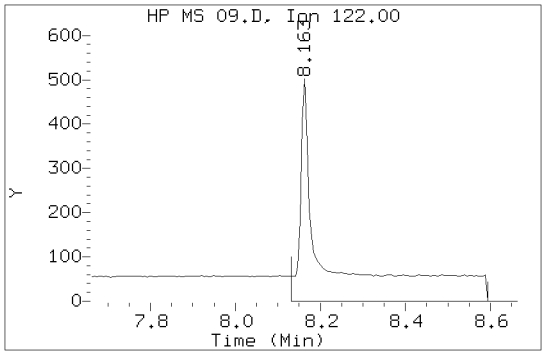
BEFORE

MASS
122
AREA
2161
HEIGHT
502
05-Jul-2023
13:23
ALSHS
Server



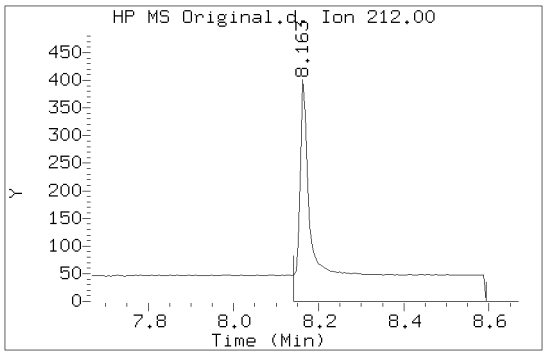
AFTER

MASS
122
AREA
2161
HEIGHT
502
05-Jul-2023
16:03
ALSHS
Se



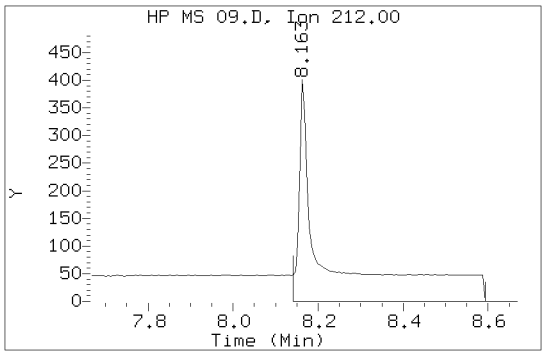
BEFORE

MASS
212
AREA
1758
HEIGHT
401
05-Jul-2023
13:23
ALSHS
Server



AFTER

MASS
212
AREA
1758
HEIGHT
401
05-Jul-2023
16:03
ALSHS
Se



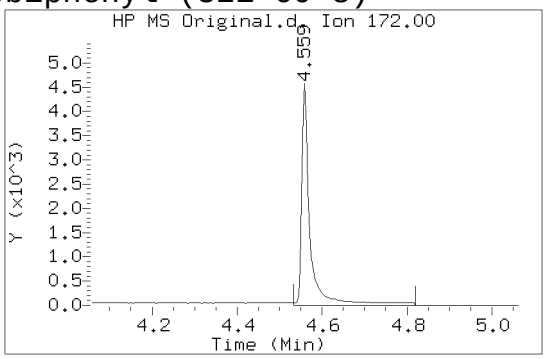
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Inj Date : 05-JUL-2023 13:08
InstruID : SV6.i
LabSampID : HS23061707-03

2-Fluorobiphenyl (321-60-8)

Reason Code:

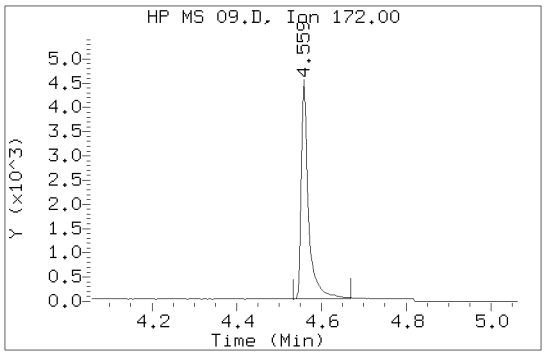
BEFORE

MASS
172
AREA
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HEIGHT
4573
05-Jul-2023
13:23
ALSHS
Server



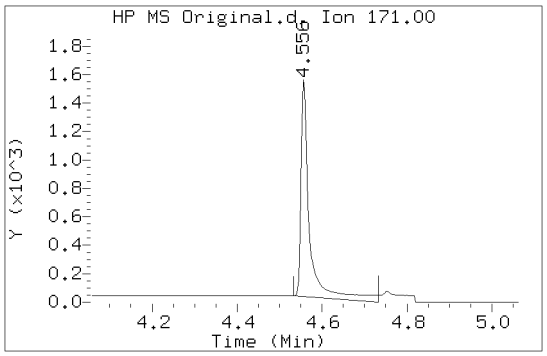
AFTER

MASS
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AREA
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HEIGHT
4526
05-Jul-2023
16:03
ALSHS
Se



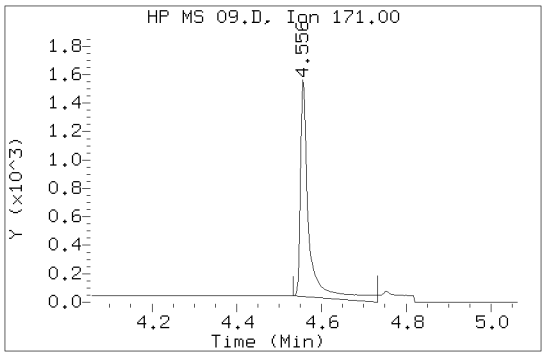
BEFORE

MASS
171
AREA
2123
HEIGHT
1523
05-Jul-2023
13:23
ALSHS
Server



AFTER

MASS
171
AREA
2123
HEIGHT
1523
05-Jul-2023
16:03
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\10.D
Lab Smp Id: HS23061707-04 Client Smp ID: HS23061707-04
Inj Date : 05-JUL-2023 13:26
Operator : LG Inst ID: SV6.i
Smp Info : HS23061707-04
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 05-Jul-2023 12:00 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.484	2.484	(1.000)	3037	0.10000	(aM)
* 45 Naphthalene-d8	136	3.534	3.538	(1.000)	9223	0.10000	
$ 33 Nitrobenzene-d5	82	2.924	2.930	(0.827)	2241	0.07997	0.07997(M)
* 86 Acenaphthene-d10	164	5.164	5.169	(1.000)	6137	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	4.559	4.559	(0.883)	5227	0.08329	0.08329(M)
* 126 Phenanthrene-d10	188	6.581	6.581	(1.000)	11055	0.10000	(M)
* 182 Chrysene-d12	240	9.131	9.136	(1.000)	8479	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.163	8.168	(0.894)	5560	0.08888	0.08888(M)
* 198 Perylene-d12	264	10.748	10.753	(1.000)	7154	0.10000	(M)
1 1,4-Dioxane	58	0.979	0.982	(0.394)	172	0.01669	0.01669(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.

01200846

Data File: \\nahstws005\Target\chem\SV6.i\230705.b\10.D

Date : 05-JUL-2023 13:26

Client ID: HS23061707-04

Instrument: SV6.i

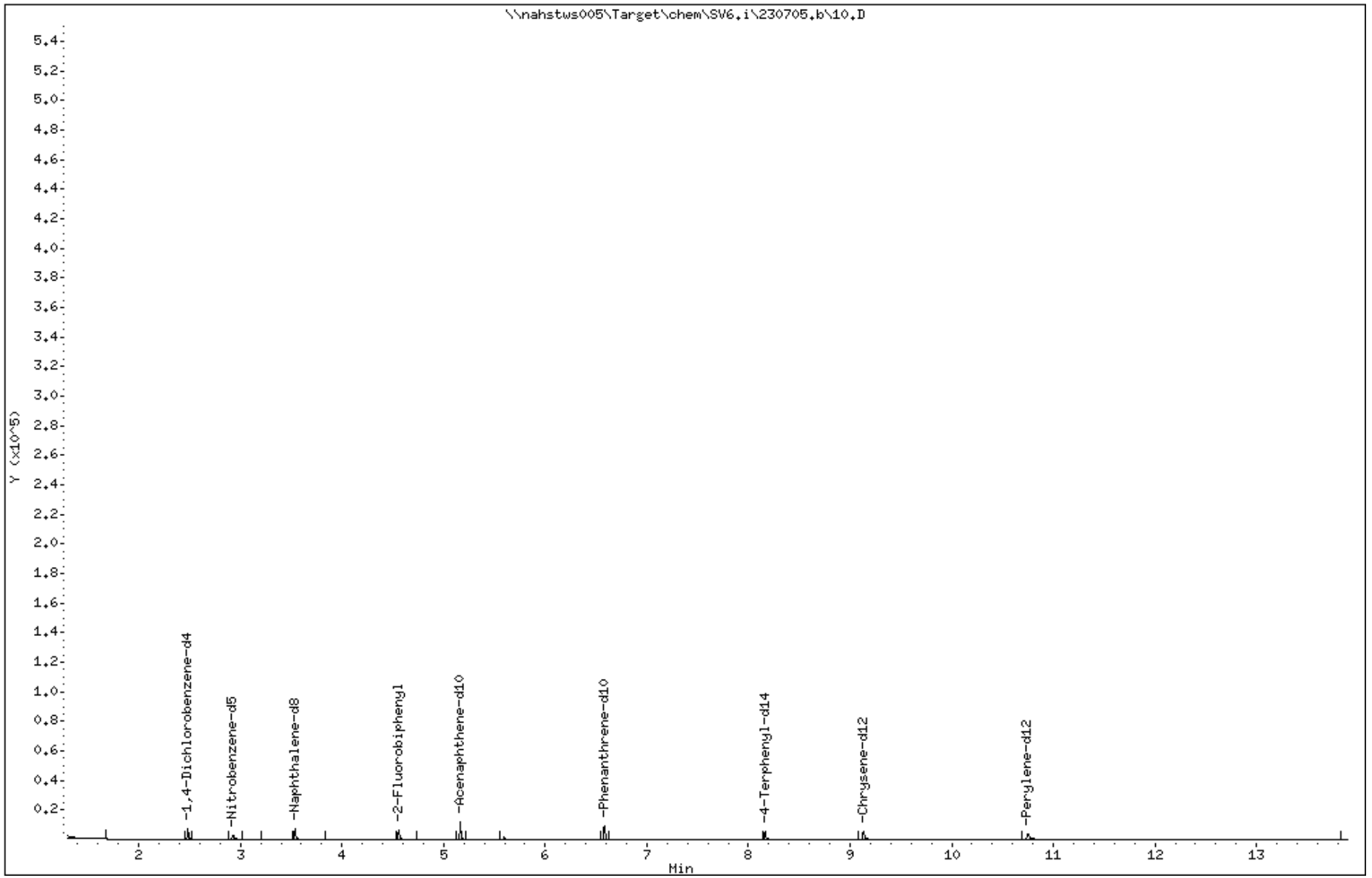
Sample Info: HS23061707-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230705.b\10.D

Date : 05-JUL-2023 13:26

Client ID: HS23061707-04

Instrument: SV6.i

Sample Info: HS23061707-04

Purge Volume: 1000.0

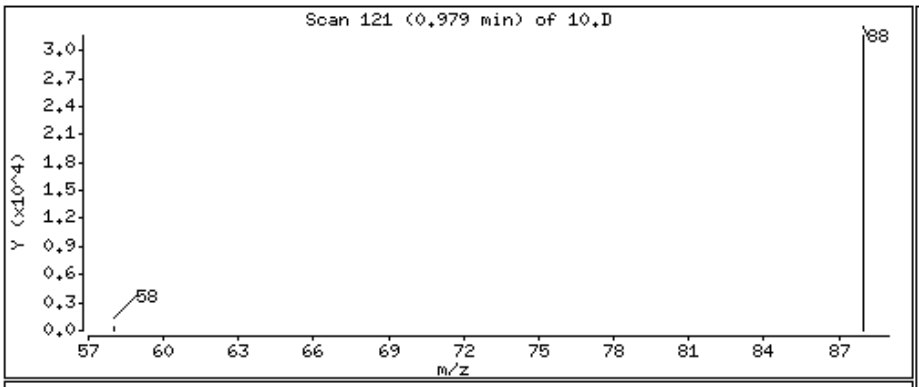
Operator: LG

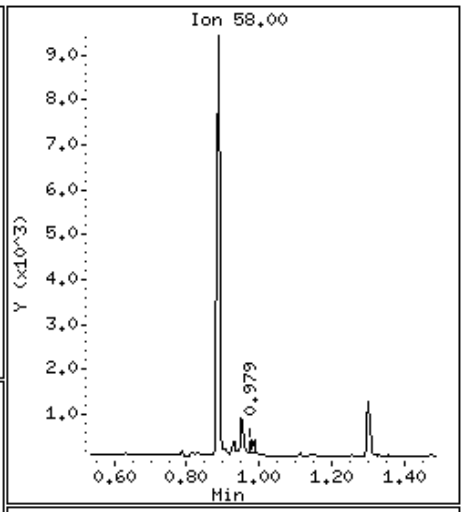
Column phase: RTX-5SIL MS

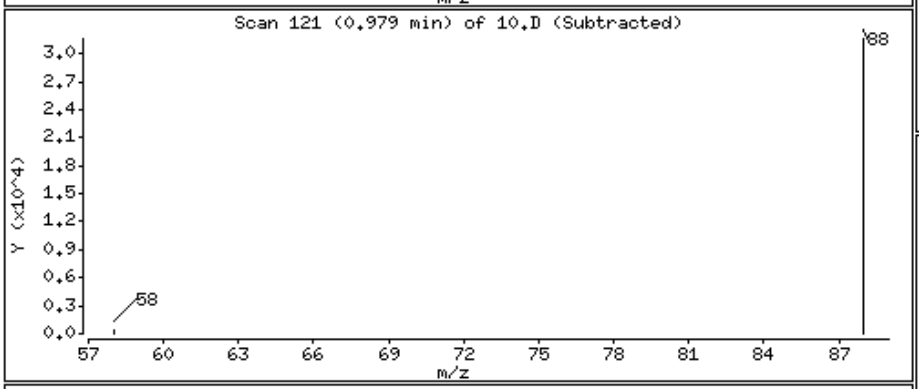
Column diameter: 0.28

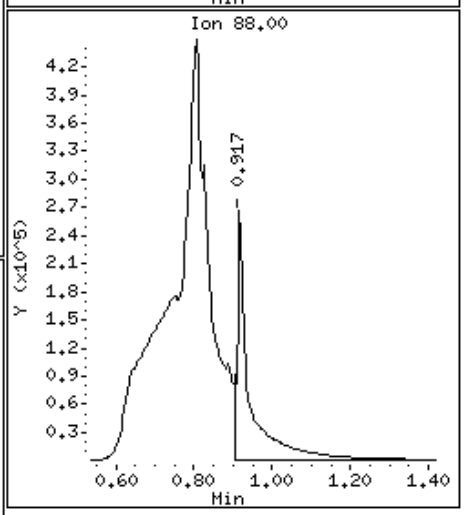
1 1,4-Dioxane

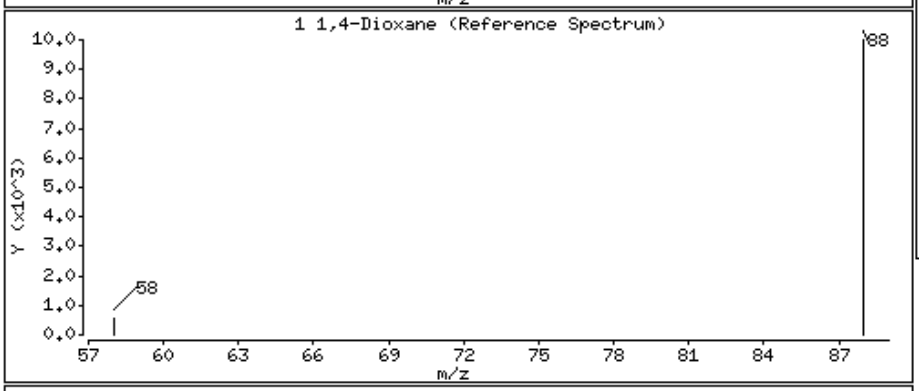
Concentration: 0.01669 ug/L

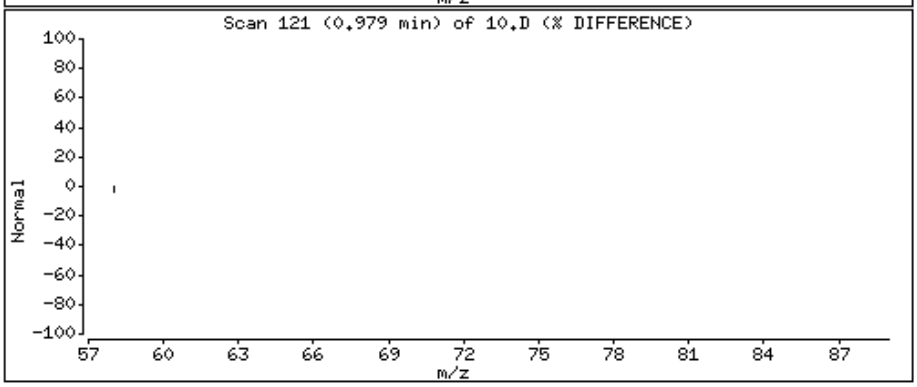












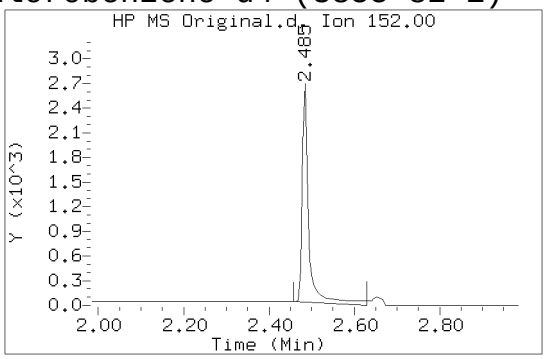
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\10.D
Inj Date : 05-JUL-2023 13:26
InstruID : SV6.i
LabSampID : HS23061707-04

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

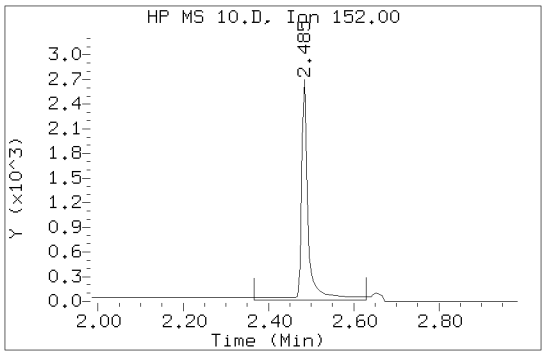
BEFORE

MASS
152
AREA
2778
HEIGHT
2659
05-Jul-2023
13:41
ALSHS
Server



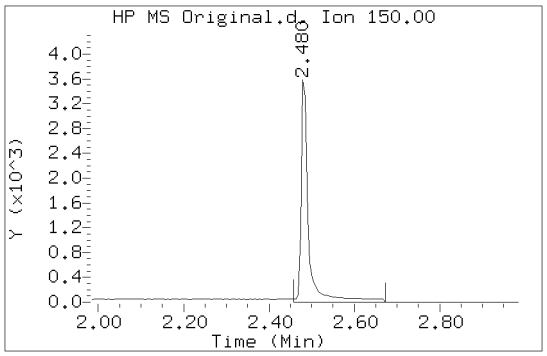
AFTER

MASS
152
AREA
3037
HEIGHT
2683
05-Jul-2023
16:03
ALSHS
Se



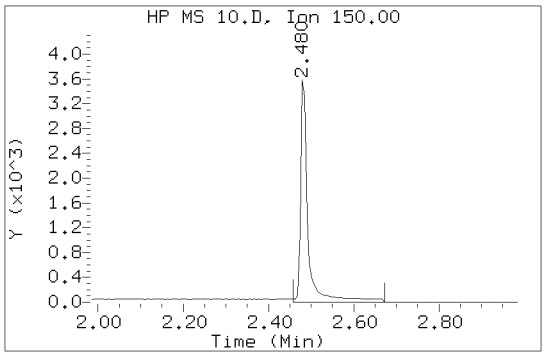
BEFORE

MASS
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AREA
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HEIGHT
3584
05-Jul-2023
13:41
ALSHS
Server



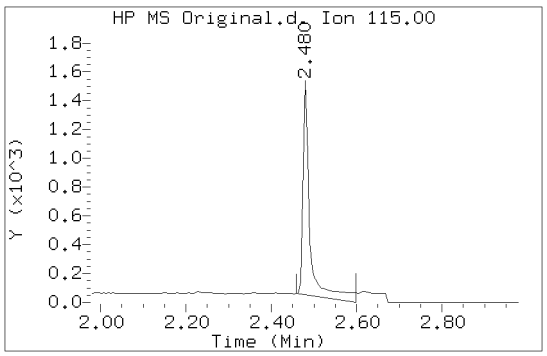
AFTER

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AREA
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HEIGHT
3584
05-Jul-2023
16:03
ALSHS
Se



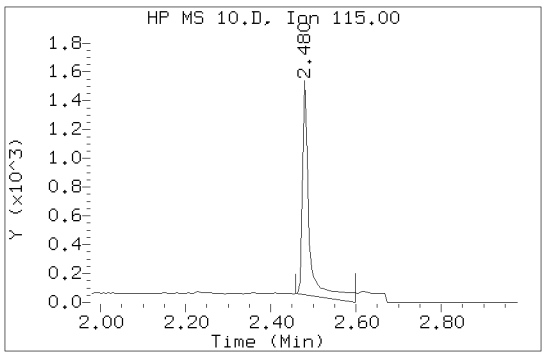
BEFORE

MASS
115
AREA
1631
HEIGHT
1487
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
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AREA
1631
HEIGHT
1487
05-Jul-2023
16:03
ALSHS
Se

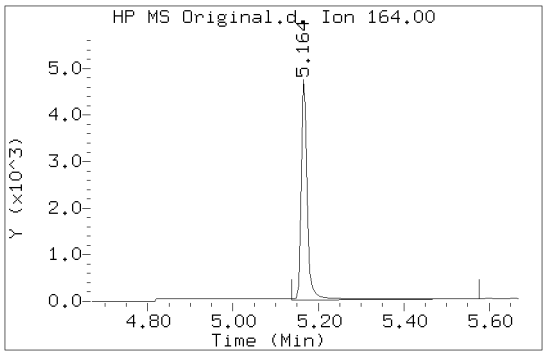


Acenaphthene-d10 (15067-26-2)

Reason Code:

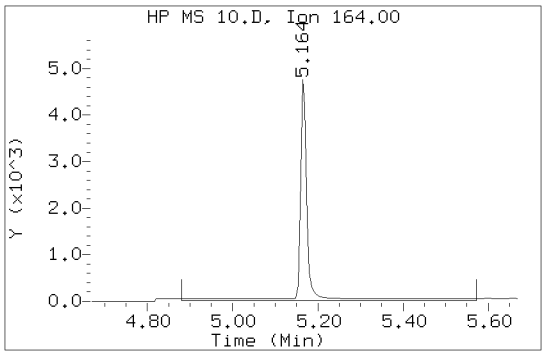
BEFORE

MASS
164
AREA
5022
HEIGHT
4737
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
164
AREA
6137
HEIGHT
4745
05-Jul-2023
16:03
ALSHS
Se



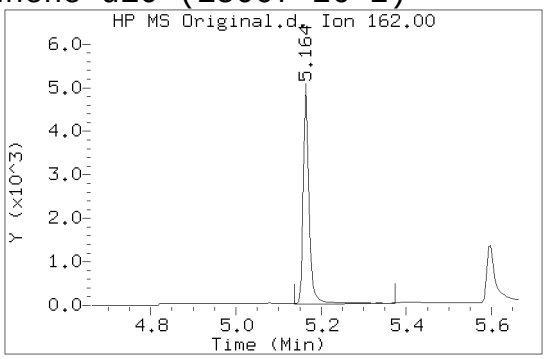
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Inj Date : 05-JUL-2023 13:26
InstruID : SV6.i
LabSampID : HS23061707-04

Acenaphthene-d10 (15067-26-2)

Reason Code:

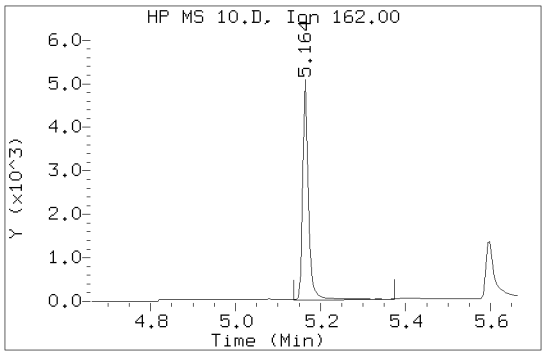
BEFORE

MASS
162
AREA
4781
HEIGHT
5062
05-Jul-2023
13:41
ALSHS
Server



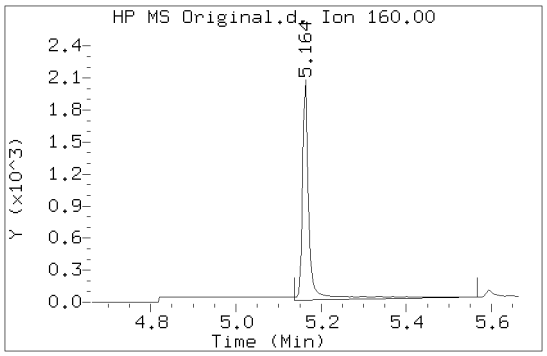
AFTER

MASS
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AREA
4781
HEIGHT
5062
05-Jul-2023
16:03
ALSHS
Se



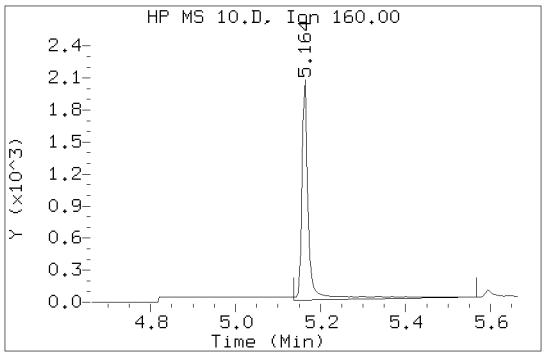
BEFORE

MASS
160
AREA
2321
HEIGHT
2059
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
160
AREA
2321
HEIGHT
2059
05-Jul-2023
16:03
ALSHS
Se

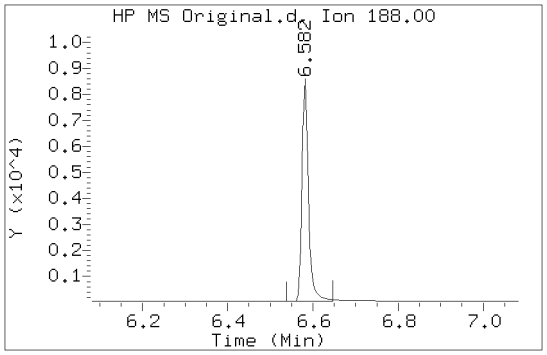


Phenanthrene-d10 (1517-22-2)

Reason Code:

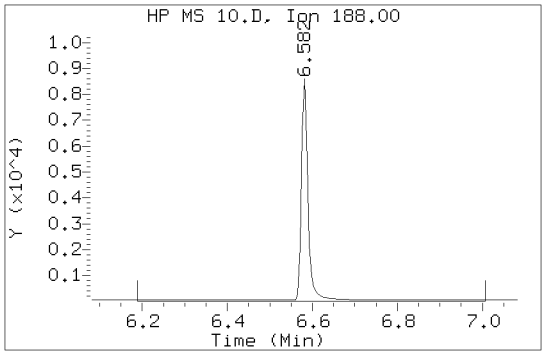
BEFORE

MASS
188
AREA
8857
HEIGHT
8546
05-Jul-2023
13:41
ALSHS
Server



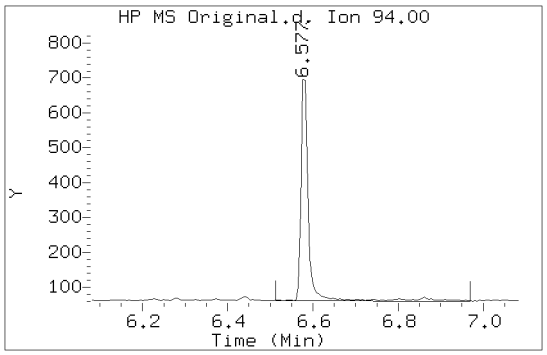
AFTER

MASS
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AREA
11055
HEIGHT
8587
05-Jul-2023
16:03
ALSHS
Se



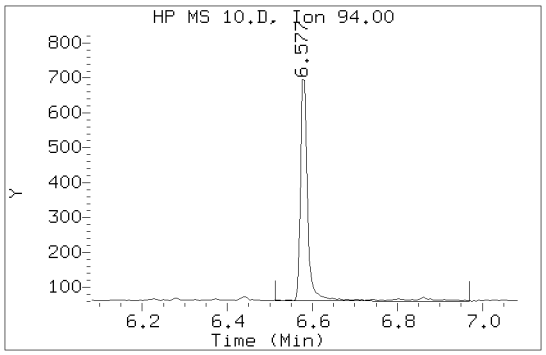
BEFORE

MASS
94
AREA
803
HEIGHT
634
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
94
AREA
803
HEIGHT
634
05-Jul-2023
16:03
ALSHS
Se



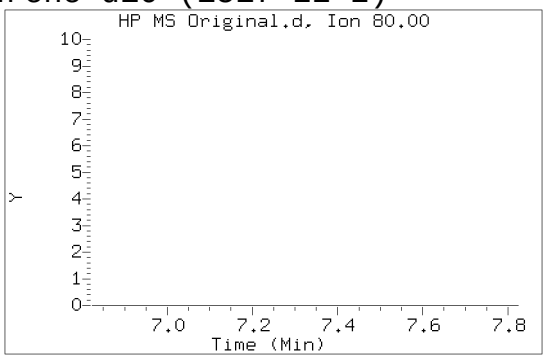
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\10.D
Inj Date : 05-JUL-2023 13:26
InstruID : SV6.i
LabSampID : HS23061707-04

Phenanthrene-d10 (1517-22-2)

Reason Code:

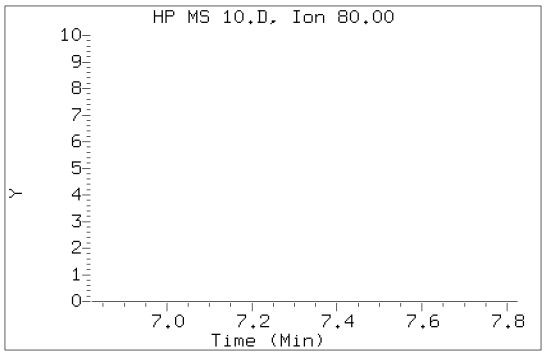
BEFORE

MASS
80
AREA
0
HEIGHT
0
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se

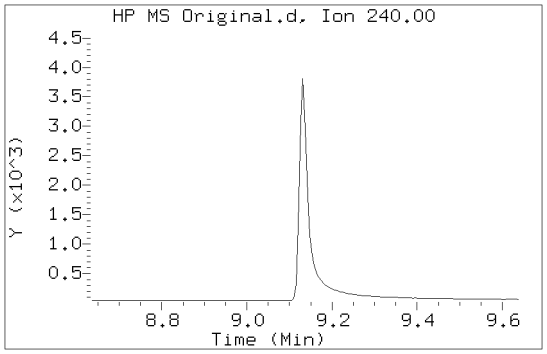


Chrysene-d12 (1719-03-5)

Reason Code:

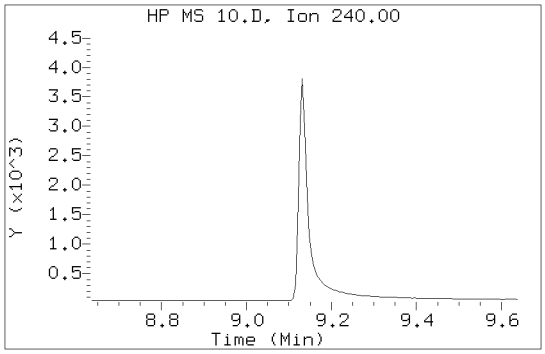
BEFORE

MASS
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AREA
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HEIGHT
0
05-Jul-2023
13:41
ALSHS
Server



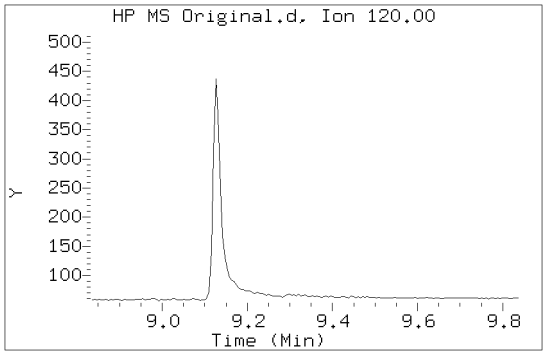
AFTER

MASS
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AREA
8479
HEIGHT
3785
05-Jul-2023
16:03
ALSHS
Se



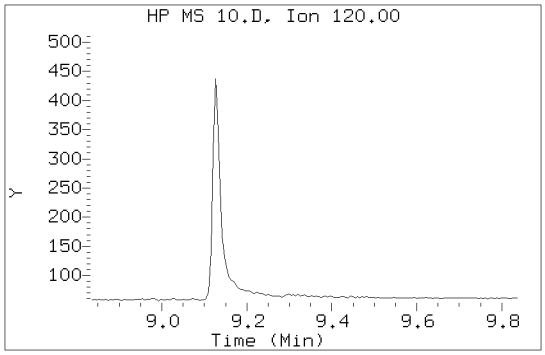
BEFORE

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05-Jul-2023
13:41
ALSHS
Server



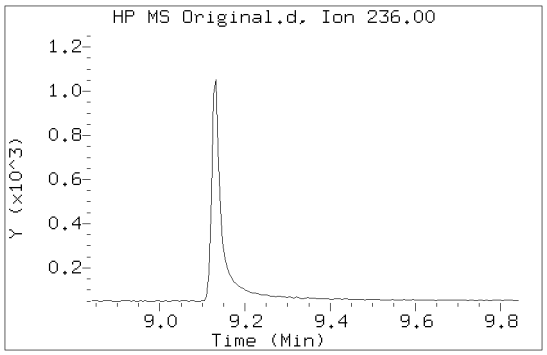
AFTER

MASS
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AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se



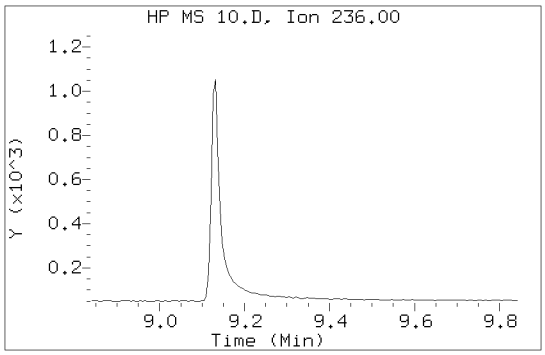
BEFORE

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se



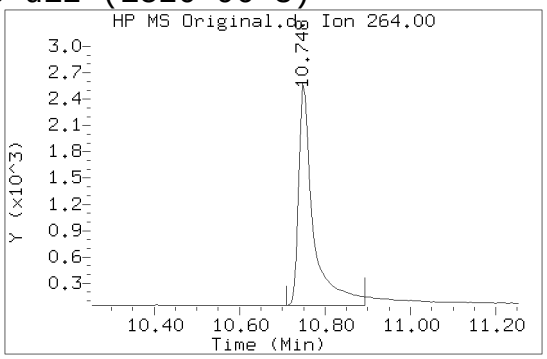
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Inj Date : 05-JUL-2023 13:26
InstruID : SV6.i
LabSampID : HS23061707-04

Perylene-d12 (1520-96-3)

Reason Code:

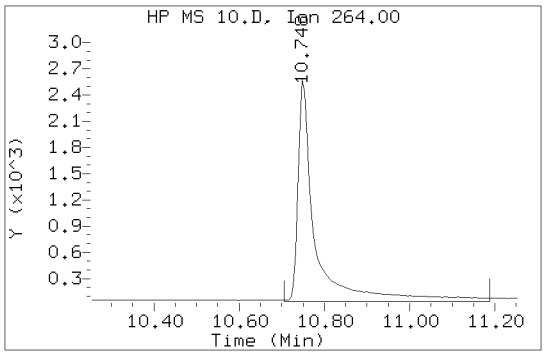
BEFORE

MASS
264
AREA
5975
HEIGHT
2525
05-Jul-2023
13:41
ALSHS
Server



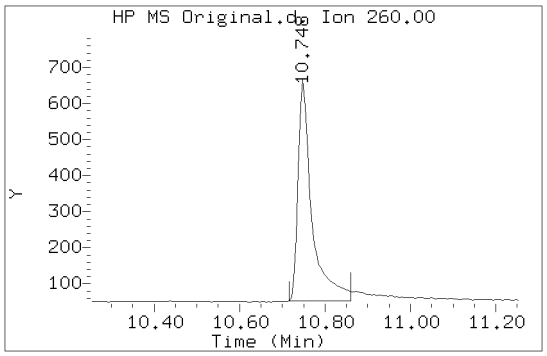
AFTER

MASS
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AREA
7154
HEIGHT
2536
05-Jul-2023
16:03
ALSHS
Se



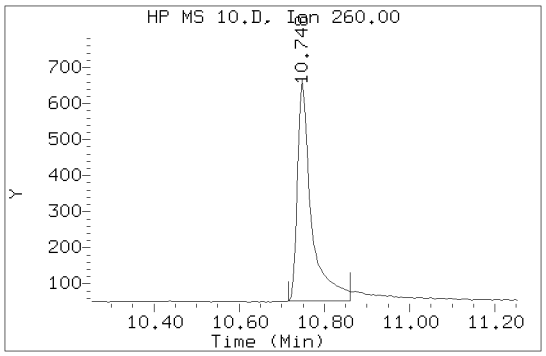
BEFORE

MASS
260
AREA
1379
HEIGHT
613
05-Jul-2023
13:41
ALSHS
Server



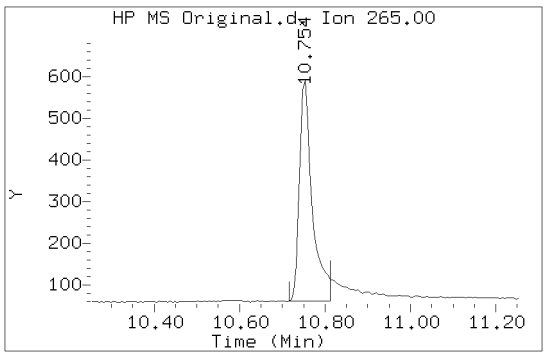
AFTER

MASS
260
AREA
1379
HEIGHT
613
05-Jul-2023
16:03
ALSHS
Se



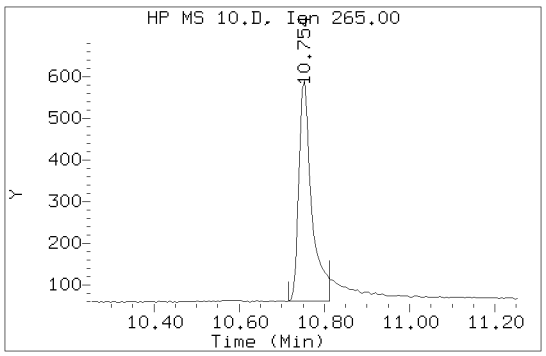
BEFORE

MASS
265
AREA
1106
HEIGHT
528
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
265
AREA
1106
HEIGHT
528
05-Jul-2023
16:03
ALSHS
Se

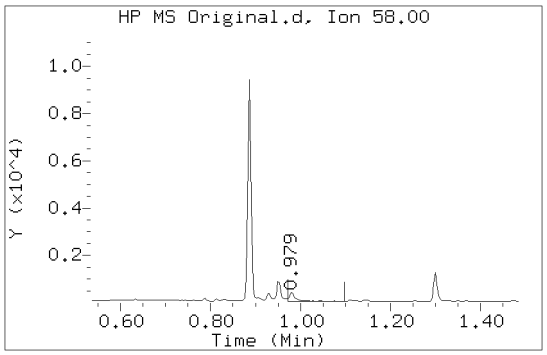


1,4-Dioxane ()

Reason Code:

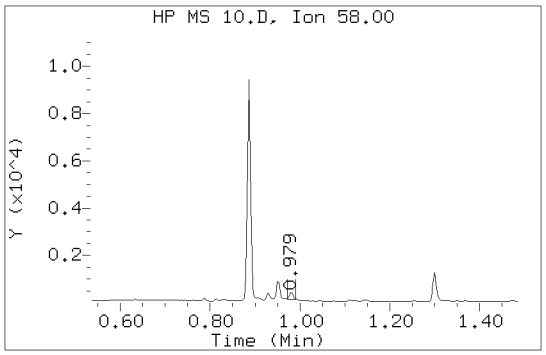
BEFORE

MASS
58
AREA
360
HEIGHT
369
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
58
AREA
172
HEIGHT
298
05-Jul-2023
16:03
ALSHS
Se



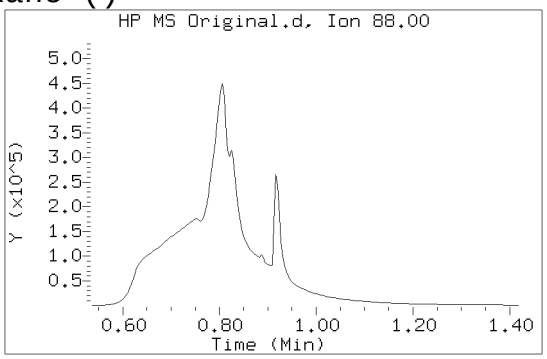
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Inj Date : 05-JUL-2023 13:26
InstruID : SV6.i
LabSampID : HS23061707-04

1,4-Dioxane ()

Reason Code:

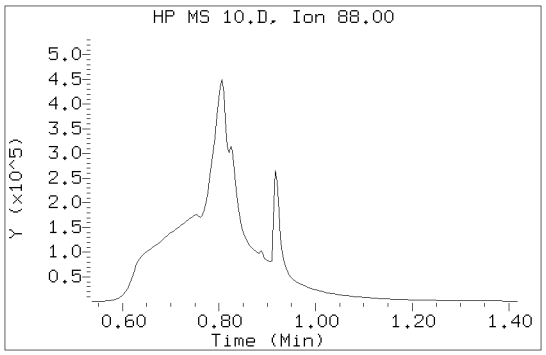
BEFORE

MASS
88
AREA
560222
HEIGHT
265129
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
88
AREA
560222
HEIGHT
265129
05-Jul-2023
16:03
ALSHS
Se

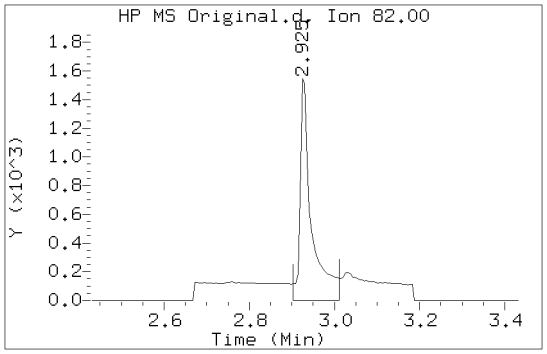


Nitrobenzene-d5 (4165-60-0)

Reason Code:

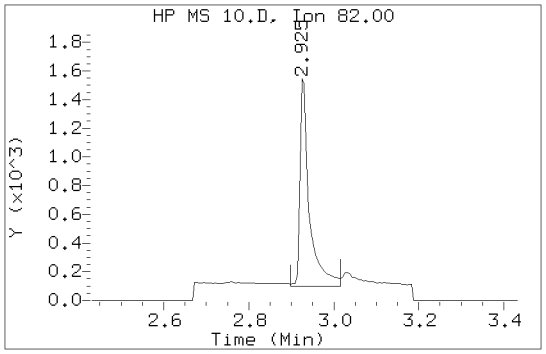
BEFORE

MASS
82
AREA
2874
HEIGHT
1546
05-Jul-2023
13:41
ALSHS
Server



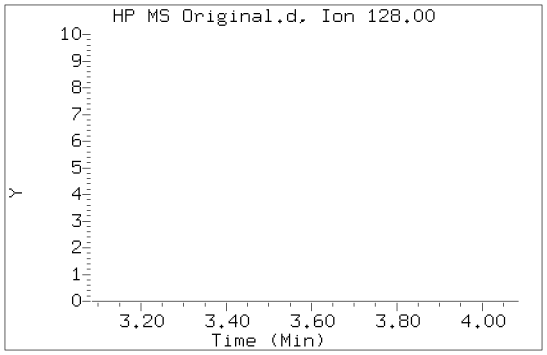
AFTER

MASS
82
AREA
2241
HEIGHT
1449
05-Jul-2023
16:03
ALSHS
Se



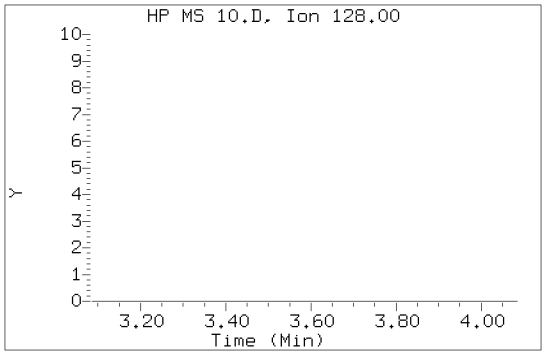
BEFORE

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
13:41
ALSHS
Server



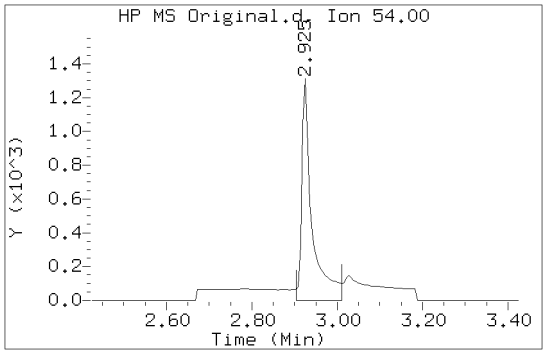
AFTER

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se



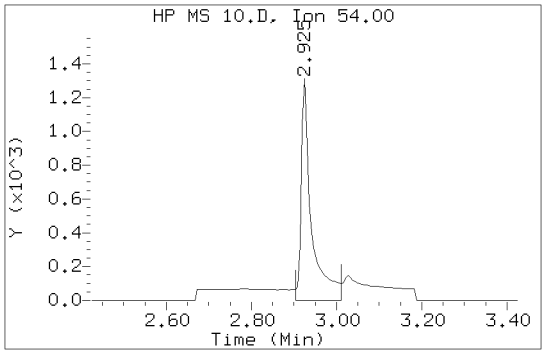
BEFORE

MASS
54
AREA
2173
HEIGHT
1312
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
54
AREA
2173
HEIGHT
1312
05-Jul-2023
16:03
ALSHS
Se



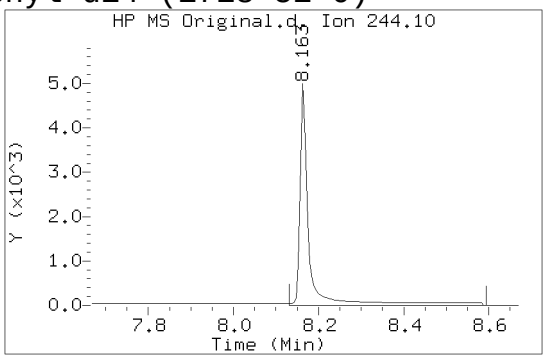
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Inj Date : 05-JUL-2023 13:26
InstruID : SV6.i
LabSampID : HS23061707-04

4-Terphenyl-d14 (1718-51-0)

Reason Code:

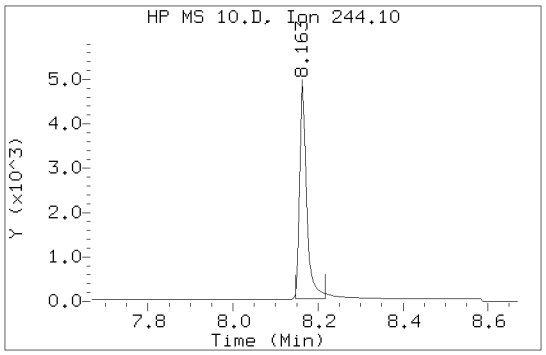
BEFORE

MASS
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AREA
7397
HEIGHT
4997
05-Jul-2023
13:41
ALSHS
Server



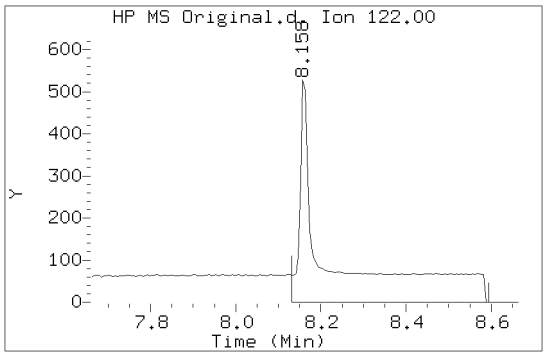
AFTER

MASS
244.1
AREA
5560
HEIGHT
4939
05-Jul-2023
16:03
ALSHS
Se



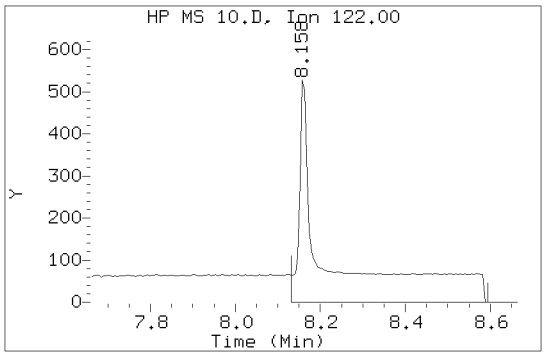
BEFORE

MASS
122
AREA
2374
HEIGHT
528
05-Jul-2023
13:41
ALSHS
Server



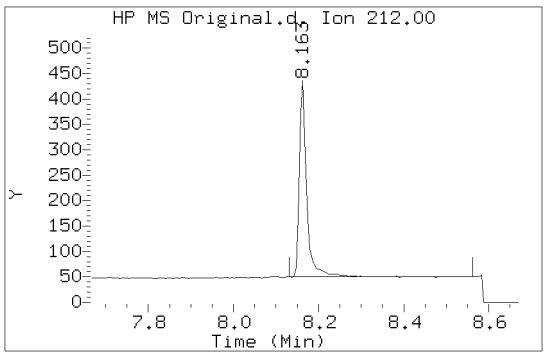
AFTER

MASS
122
AREA
2374
HEIGHT
528
05-Jul-2023
16:03
ALSHS
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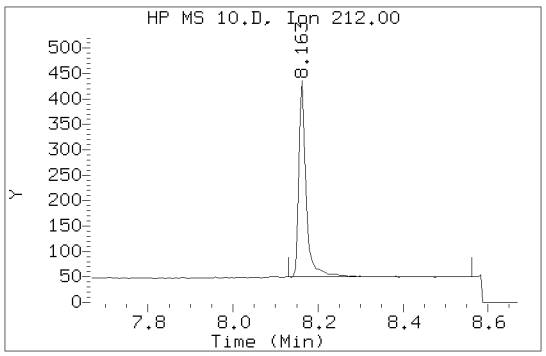
BEFORE

MASS
212
AREA
466
HEIGHT
386
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
212
AREA
466
HEIGHT
386
05-Jul-2023
16:03
ALSHS
Se

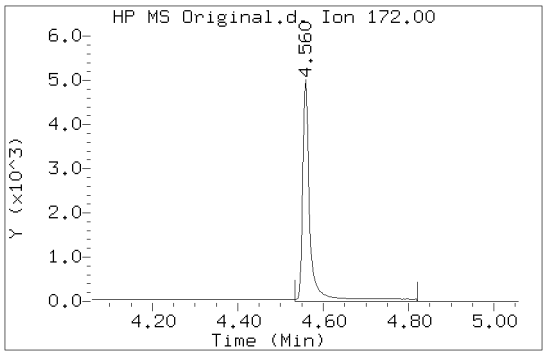


2-Fluorobiphenyl (321-60-8)

Reason Code:

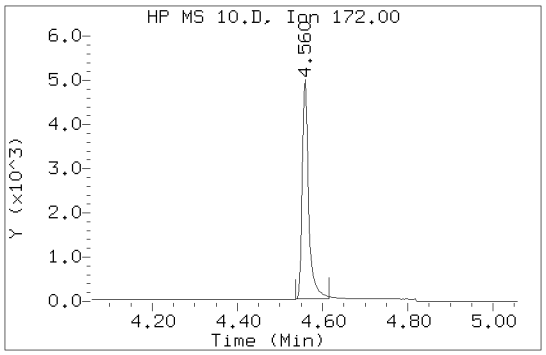
BEFORE

MASS
172
AREA
6216
HEIGHT
5016
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
172
AREA
5227
HEIGHT
4963
05-Jul-2023
16:03
ALSHS
Se



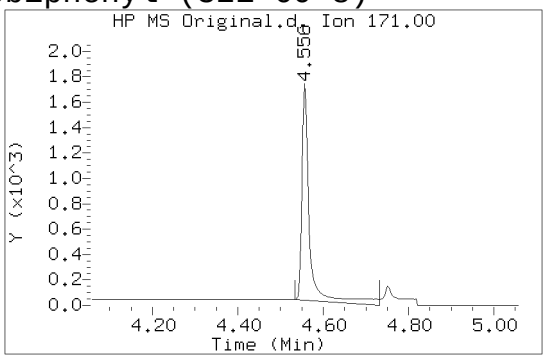
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\10.D
Inj Date : 05-JUL-2023 13:26
InstruID : SV6.i
LabSampID : HS23061707-04

2-Fluorobiphenyl (321-60-8)

Reason Code:

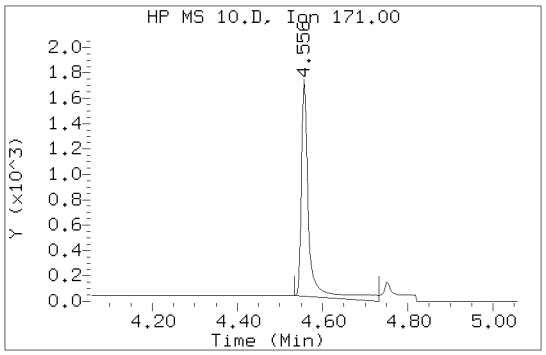
BEFORE

MASS
171
AREA
2110
HEIGHT
1705
05-Jul-2023
13:41
ALSHS
Server



AFTER

MASS
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AREA
2110
HEIGHT
1705
05-Jul-2023
16:03
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\11.D
Lab Smp Id: HS23061707-05 Client Smp ID: HS23061707-05
Inj Date : 05-JUL-2023 13:44
Operator : LG Inst ID: SV6.i
Smp Info : HS23061707-05
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 05-Jul-2023 12:00 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.479	2.484	(1.000)	3178	0.10000	(a)
* 45 Naphthalene-d8	136	3.534	3.538	(1.000)	9313	0.10000	
$ 33 Nitrobenzene-d5	82	2.924	2.930	(0.827)	2157	0.07623	0.07623(M)
* 86 Acenaphthene-d10	164	5.163	5.169	(1.000)	5929	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.559	4.559	(0.883)	5255	0.08667	0.08667(M)
* 126 Phenanthrene-d10	188	6.581	6.581	(1.000)	9447	0.10000	(M)
* 182 Chrysene-d12	240	9.131	9.136	(1.000)	9760	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.168	8.168	(0.895)	5944	0.08255	0.08255(M)
* 198 Perylene-d12	264	10.753	10.753	(1.000)	7103	0.10000	(M)
1 1,4-Dioxane	58	0.986	0.982	(0.398)	168	0.01558	0.01558(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01200856

Data File: \\nahstws005\Target\chem\SV6.i\230705.b\11.D

Date : 05-JUL-2023 13:44

Client ID: HS23061707-05

Instrument: SV6.i

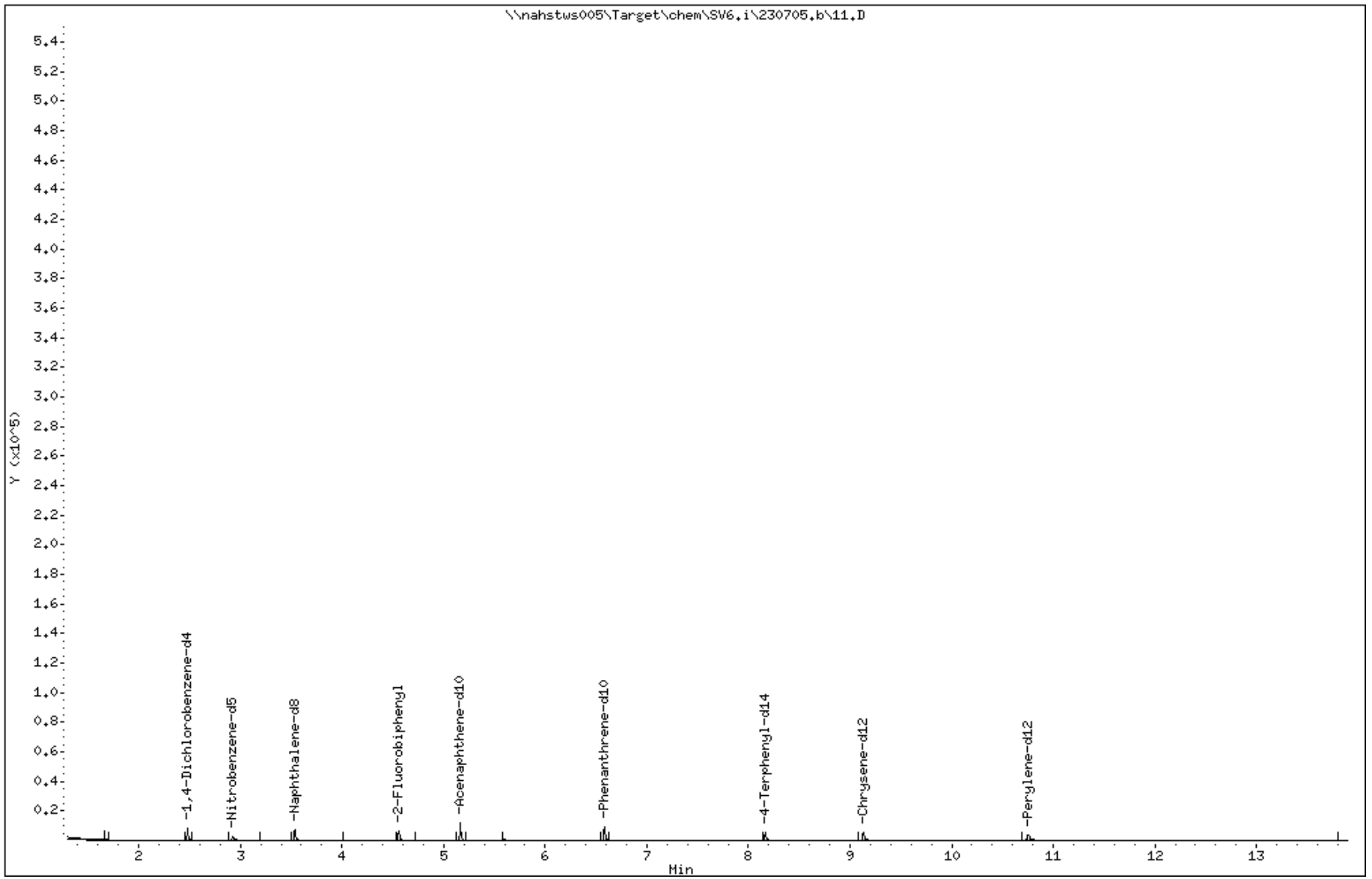
Sample Info: HS23061707-05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230705.b\11.D

Date : 05-JUL-2023 13:44

Client ID: HS23061707-05

Instrument: SV6.i

Sample Info: HS23061707-05

Purge Volume: 1000.0

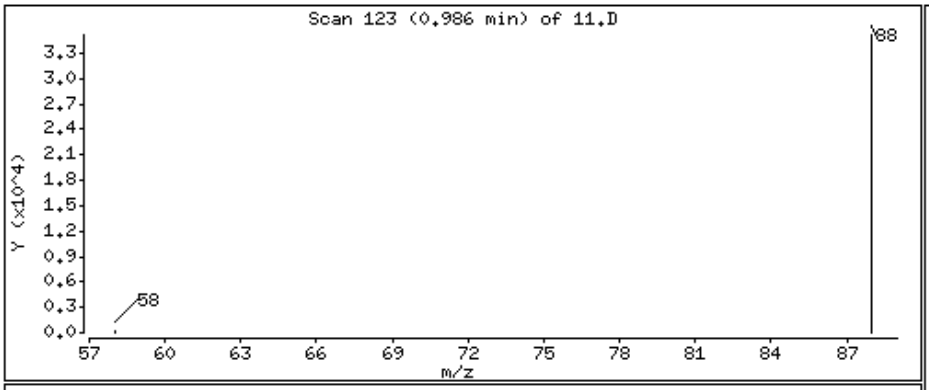
Operator: LG

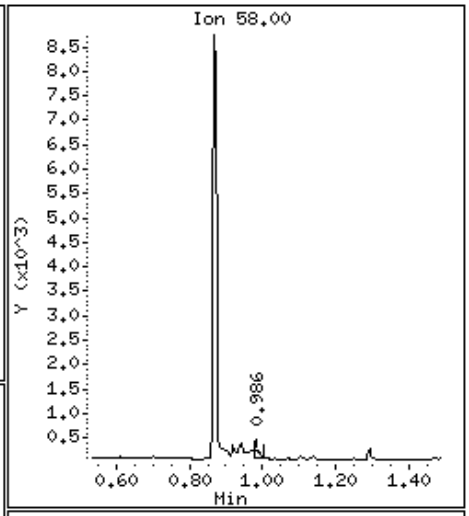
Column phase: RTX-5SIL MS

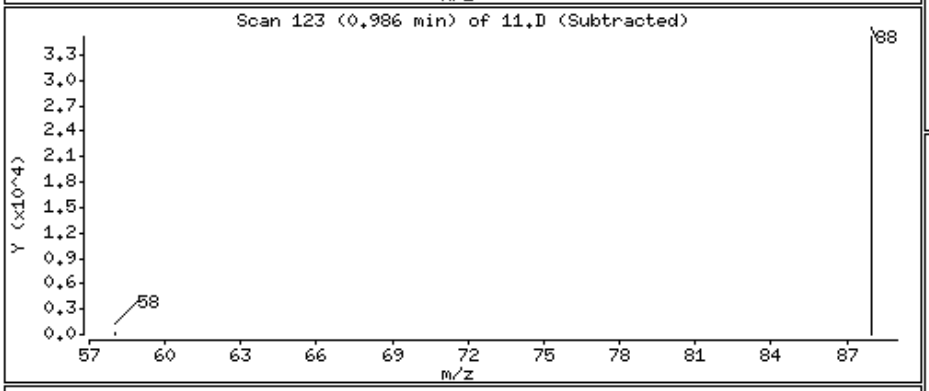
Column diameter: 0.28

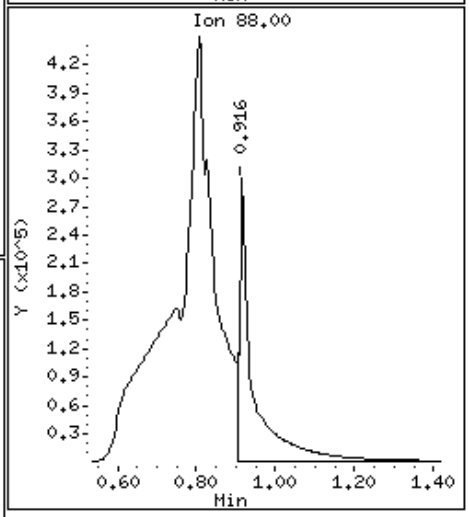
1 1,4-Dioxane

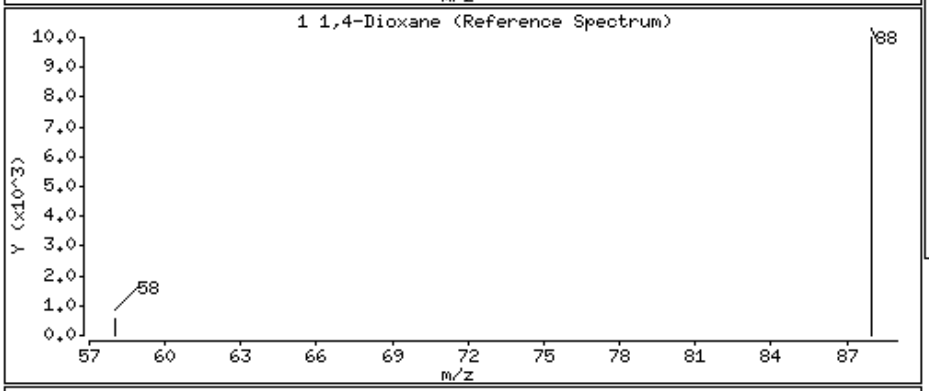
Concentration: 0.01558 ug/L

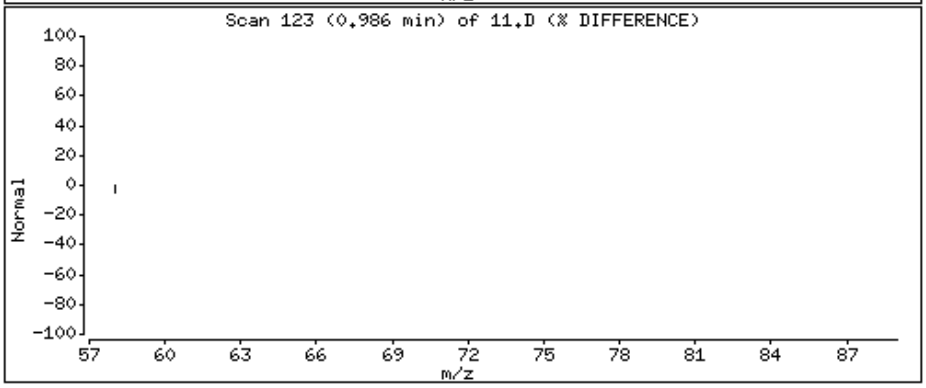












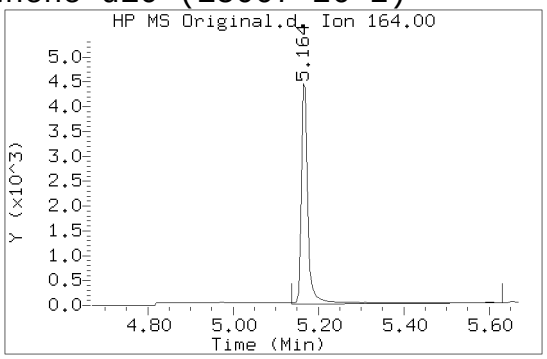
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\11.D
Inj Date : 05-JUL-2023 13:44
InstruID : SV6.i
LabSampID : HS23061707-05

Acenaphthene-d10 (15067-26-2)

Reason Code:

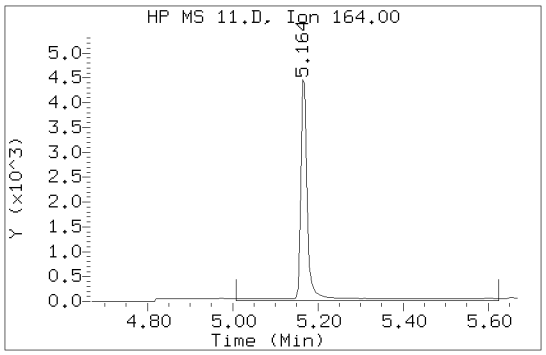
BEFORE

MASS
164
AREA
5137
HEIGHT
4442
05-Jul-2023
14:01
ALSHS
Server



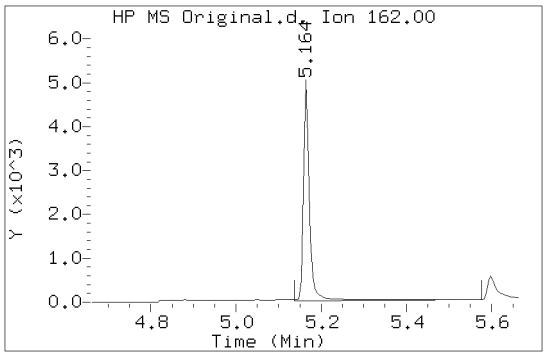
AFTER

MASS
164
AREA
5929
HEIGHT
4447
05-Jul-2023
16:03
ALSHS
Se



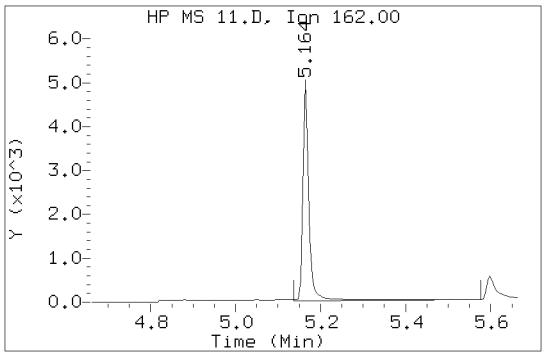
BEFORE

MASS
162
AREA
5163
HEIGHT
5041
05-Jul-2023
14:01
ALSHS
Server



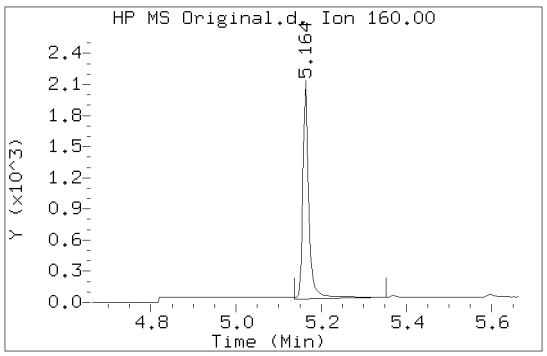
AFTER

MASS
162
AREA
5163
HEIGHT
5041
05-Jul-2023
16:03
ALSHS
Se



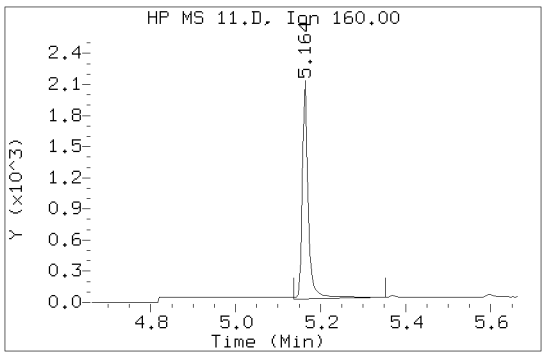
BEFORE

MASS
160
AREA
2082
HEIGHT
2103
05-Jul-2023
14:01
ALSHS
Server



AFTER

MASS
160
AREA
2082
HEIGHT
2103
05-Jul-2023
16:03
ALSHS
Se

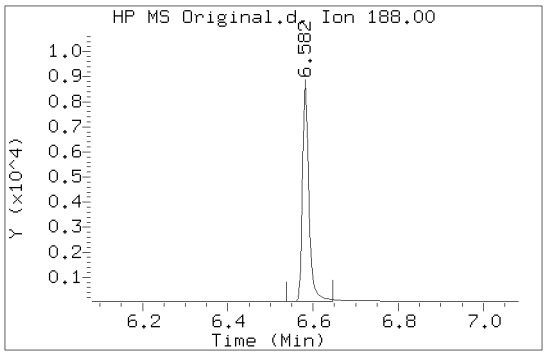


Phenanthrene-d10 (1517-22-2)

Reason Code:

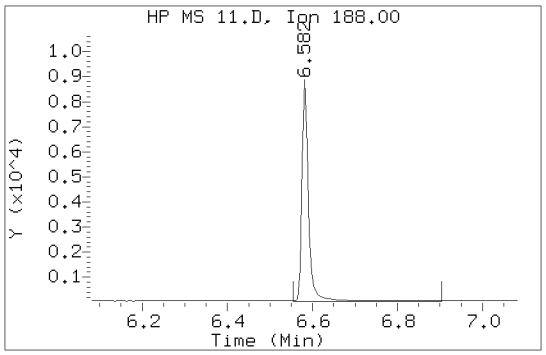
BEFORE

MASS
188
AREA
8921
HEIGHT
8828
05-Jul-2023
14:01
ALSHS
Server



AFTER

MASS
188
AREA
9447
HEIGHT
8843
05-Jul-2023
16:03
ALSHS
Se

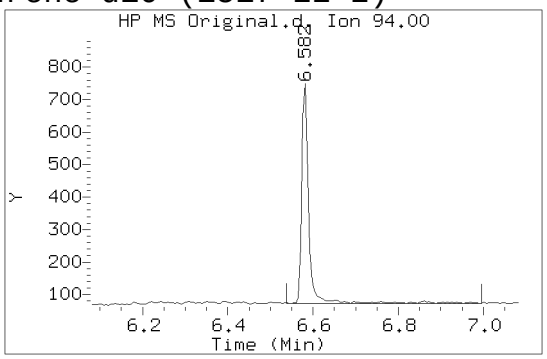


Data File : \\nahstws005\Target\chem\SV6.i\230705.b\11.D
Inj Date : 05-JUL-2023 13:44
InstruID : SV6.i
LabSampID : HS23061707-05

Phenanthrene-d10 (1517-22-2)

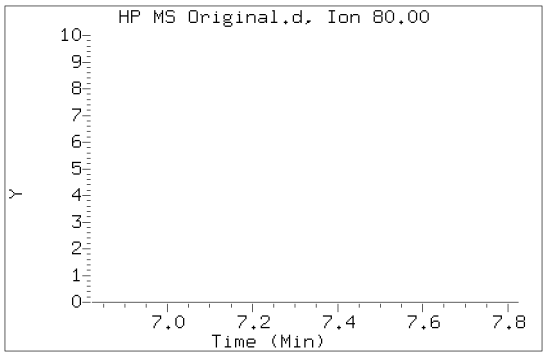
BEFORE

MASS
94
AREA
794
HEIGHT
677
05-Jul-2023
14:01
ALSHS
Server



BEFORE

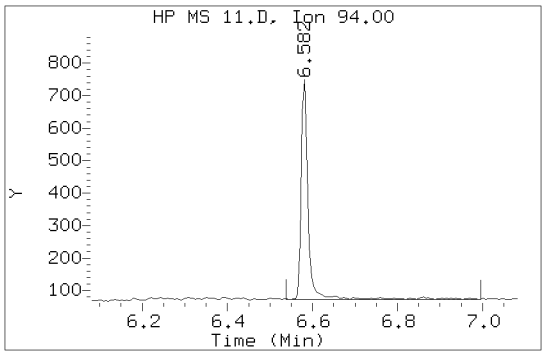
MASS
80
AREA
0
HEIGHT
0
05-Jul-2023
14:01
ALSHS
Server



Reason Code:

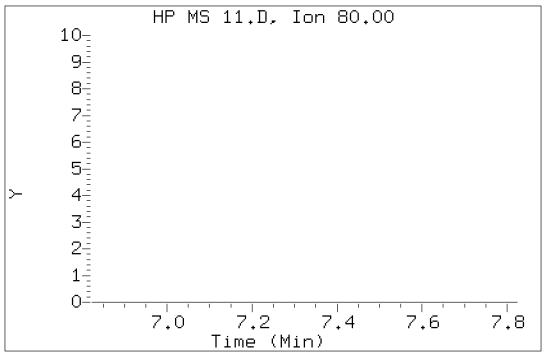
AFTER

MASS
94
AREA
794
HEIGHT
677
05-Jul-2023
16:03
ALSHS
Se



AFTER

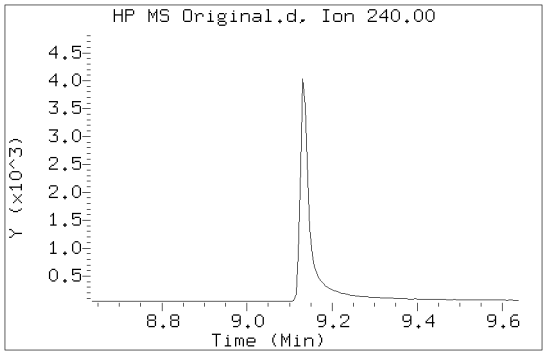
MASS
80
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se



Chrysene-d12 (1719-03-5)

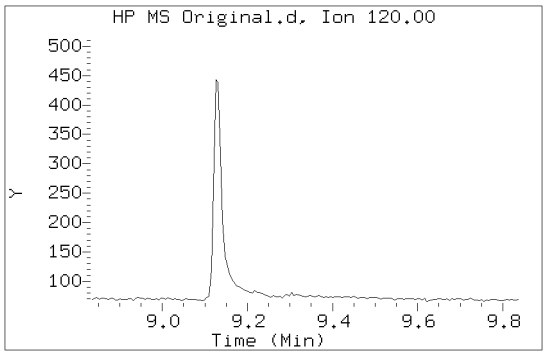
BEFORE

MASS
240
AREA
0
HEIGHT
0
05-Jul-2023
14:01
ALSHS
Server



BEFORE

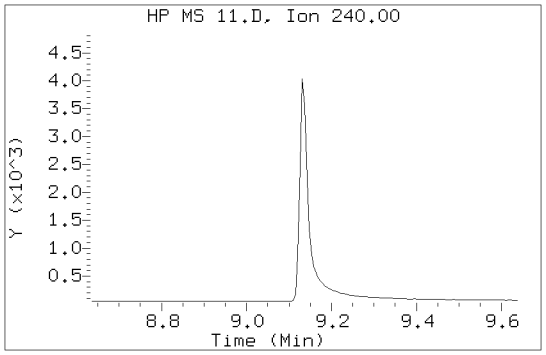
MASS
120
AREA
0
HEIGHT
0
05-Jul-2023
14:01
ALSHS
Server



Reason Code:

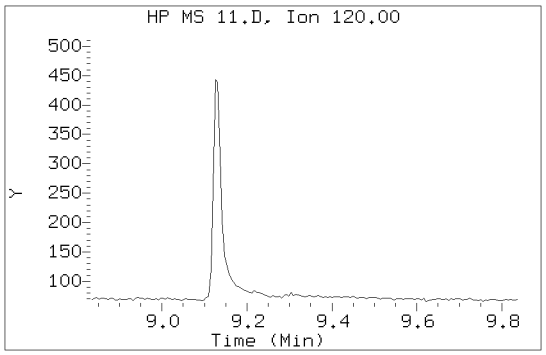
AFTER

MASS
240
AREA
9760
HEIGHT
4012
05-Jul-2023
16:03
ALSHS
Se



AFTER

MASS
120
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se



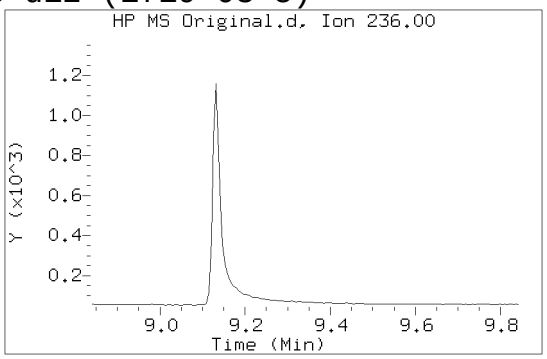
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Inj Date : 05-JUL-2023 13:44
InstruID : SV6.i
LabSampID : HS23061707-05

Chrysene-d12 (1719-03-5)

Reason Code:

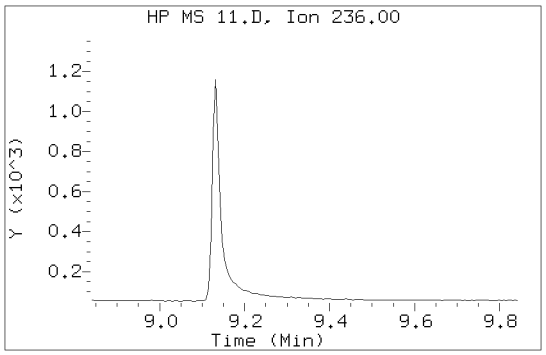
BEFORE

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
14:01
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se

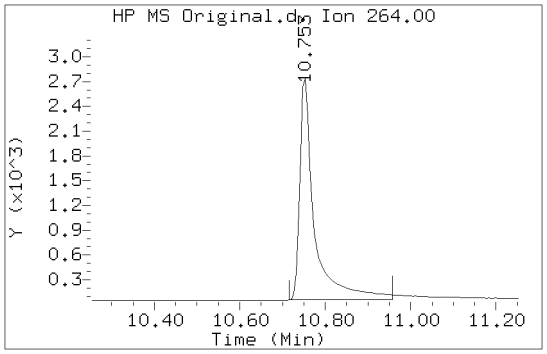


Perylene-d12 (1520-96-3)

Reason Code:

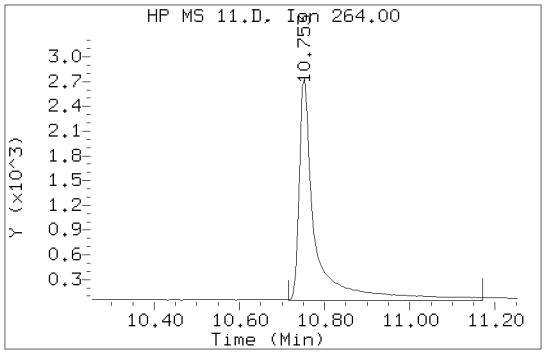
BEFORE

MASS
264
AREA
6425
HEIGHT
2679
05-Jul-2023
14:01
ALSHS
Server



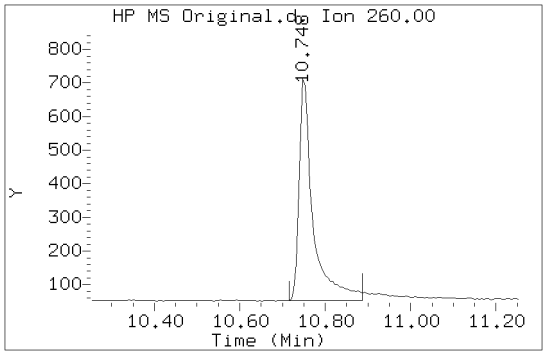
AFTER

MASS
264
AREA
7103
HEIGHT
2686
05-Jul-2023
16:03
ALSHS
Se



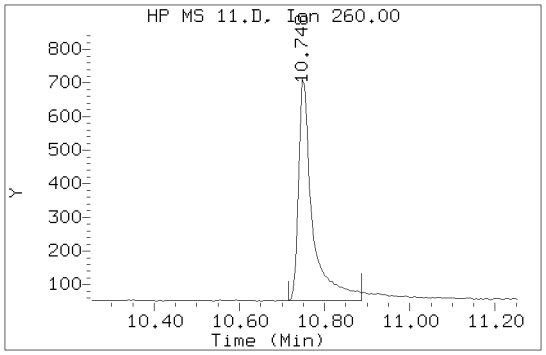
BEFORE

MASS
260
AREA
1493
HEIGHT
659
05-Jul-2023
14:01
ALSHS
Server



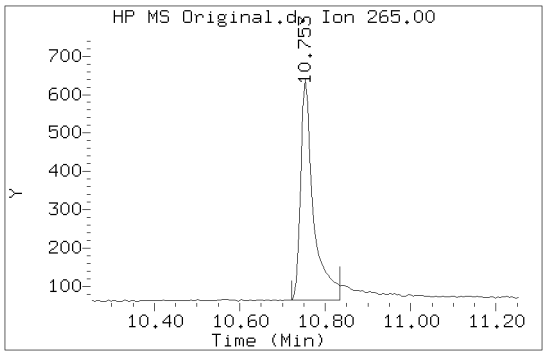
AFTER

MASS
260
AREA
1493
HEIGHT
659
05-Jul-2023
16:03
ALSHS
Se



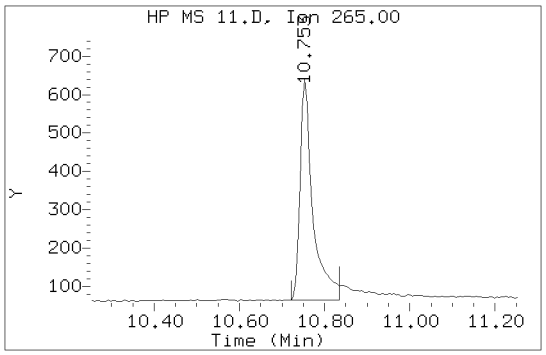
BEFORE

MASS
265
AREA
1189
HEIGHT
574
05-Jul-2023
14:01
ALSHS
Server



AFTER

MASS
265
AREA
1189
HEIGHT
574
05-Jul-2023
16:03
ALSHS
Se



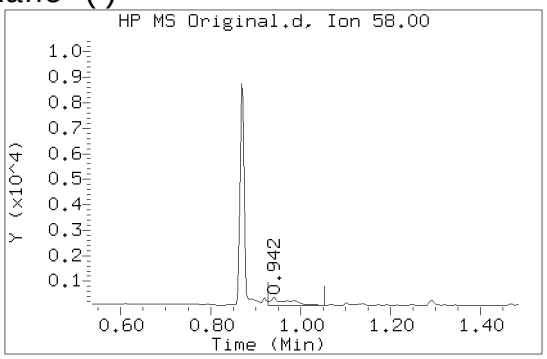
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Inj Date : 05-JUL-2023 13:44
InstruID : SV6.i
LabSampID : HS23061707-05

1,4-Dioxane ()

Reason Code:

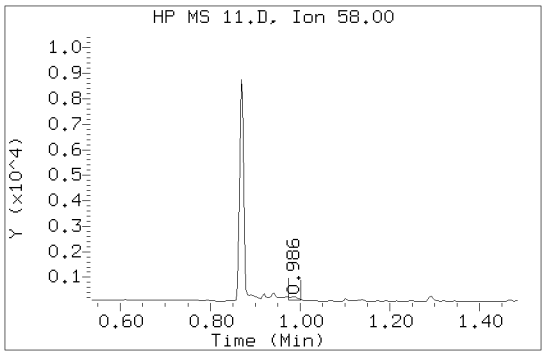
BEFORE

MASS
58
AREA
806
HEIGHT
326
05-Jul-2023
14:01
ALSHS
Server



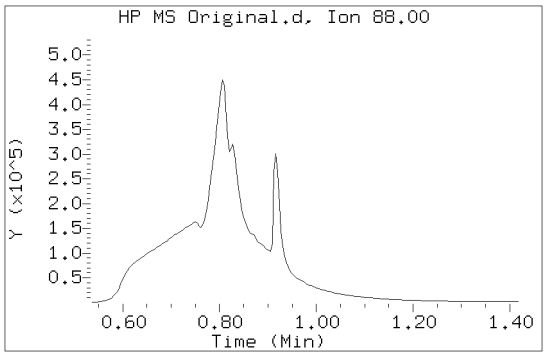
AFTER

MASS
58
AREA
168
HEIGHT
129
05-Jul-2023
16:03
ALSHS
Se



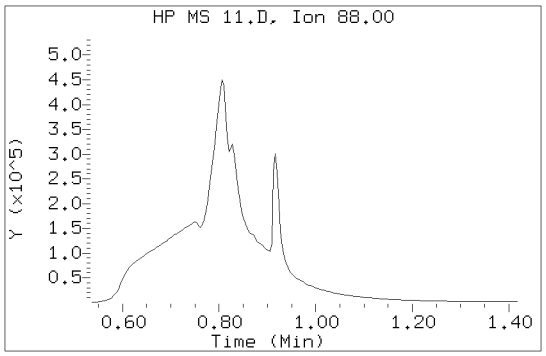
BEFORE

MASS
88
AREA
680283
HEIGHT
299125
05-Jul-2023
14:01
ALSHS
Server



AFTER

MASS
88
AREA
680283
HEIGHT
299125
05-Jul-2023
16:03
ALSHS
Se

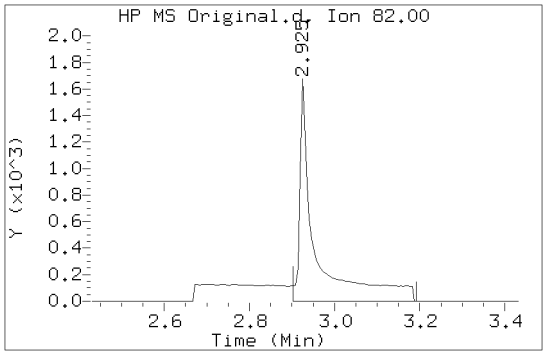


Nitrobenzene-d5 (4165-60-0)

Reason Code:

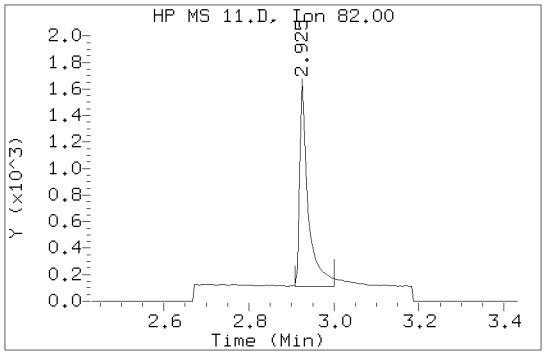
BEFORE

MASS
82
AREA
4219
HEIGHT
1676
05-Jul-2023
14:01
ALSHS
Server



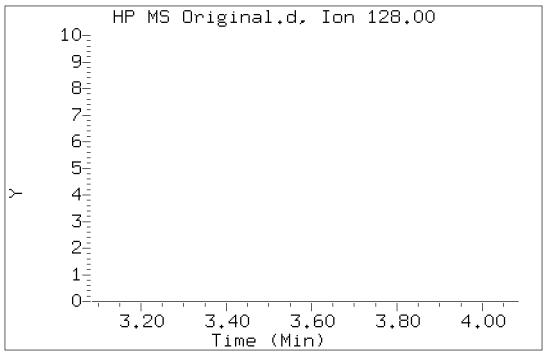
AFTER

MASS
82
AREA
2157
HEIGHT
1564
05-Jul-2023
16:03
ALSHS
Se



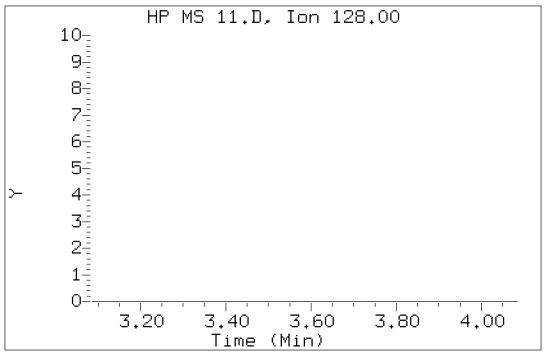
BEFORE

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
14:01
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
16:03
ALSHS
Se



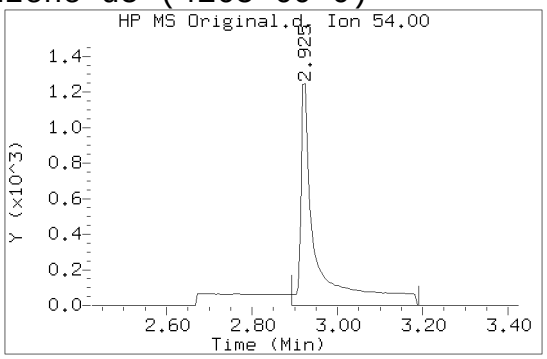
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\11.D
Inj Date : 05-JUL-2023 13:44
InstruID : SV6.i
LabSampID : HS23061707-05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

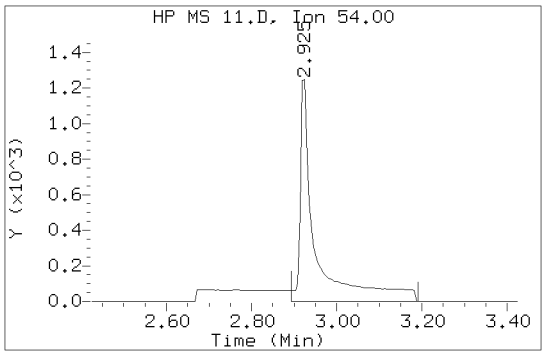
BEFORE

MASS
54
AREA
3046
HEIGHT
1247
05-Jul-2023
14:01
ALSHS
Server



AFTER

MASS
54
AREA
3046
HEIGHT
1247
05-Jul-2023
16:03
ALSHS
Se

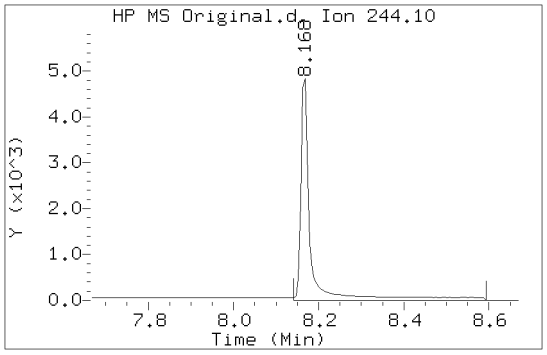


4-Terphenyl-d14 (1718-51-0)

Reason Code:

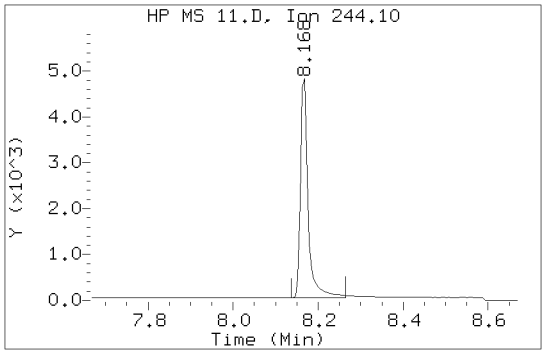
BEFORE

MASS
244.1
AREA
7708
HEIGHT
4835
05-Jul-2023
14:01
ALSHS
Server



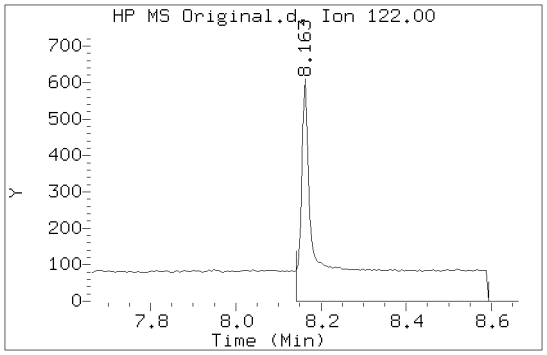
AFTER

MASS
244.1
AREA
5944
HEIGHT
4780
05-Jul-2023
16:03
ALSHS
Se



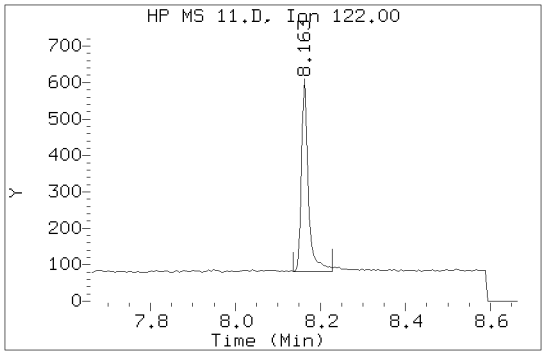
BEFORE

MASS
122
AREA
2876
HEIGHT
610
05-Jul-2023
14:01
ALSHS
Server



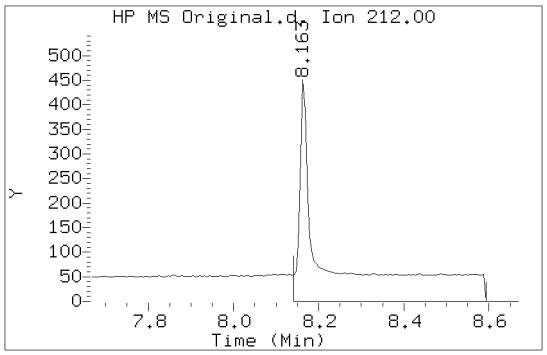
AFTER

MASS
122
AREA
580
HEIGHT
528
05-Jul-2023
16:03
ALSHS
Se



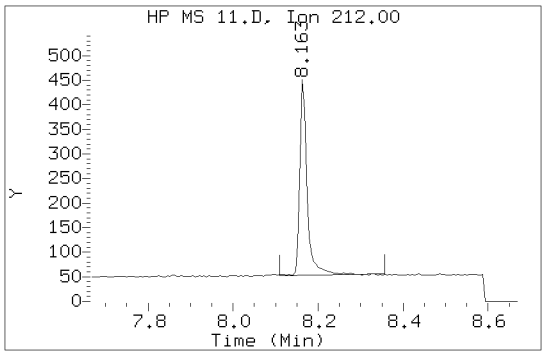
BEFORE

MASS
212
AREA
1942
HEIGHT
451
05-Jul-2023
14:01
ALSHS
Server



AFTER

MASS
212
AREA
473
HEIGHT
398
05-Jul-2023
16:03
ALSHS
Se



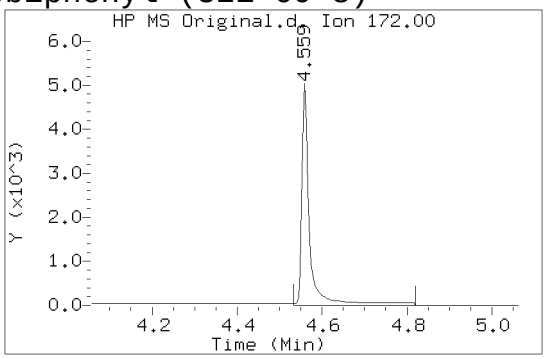
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Inj Date : 05-JUL-2023 13:44
InstruID : SV6.i
LabSampID : HS23061707-05

2-Fluorobiphenyl (321-60-8)

Reason Code:

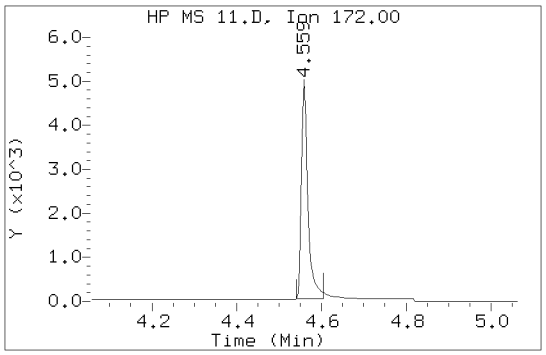
BEFORE

MASS
172
AREA
6419
HEIGHT
5037
05-Jul-2023
14:01
ALSHS
Server



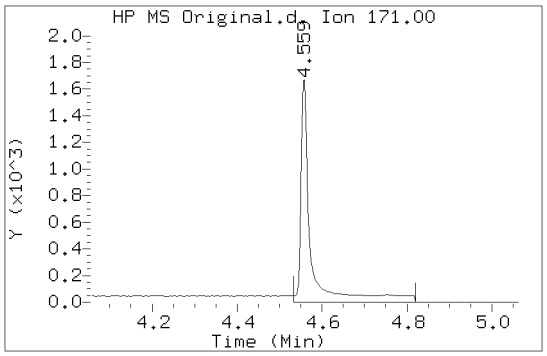
AFTER

MASS
172
AREA
5255
HEIGHT
4983
05-Jul-2023
16:03
ALSHS
Se



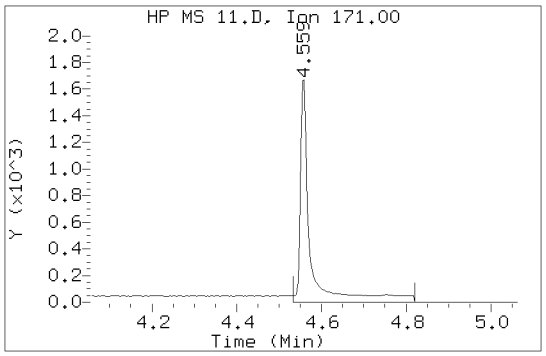
BEFORE

MASS
171
AREA
2719
HEIGHT
1669
05-Jul-2023
14:01
ALSHS
Server



AFTER

MASS
171
AREA
2719
HEIGHT
1669
05-Jul-2023
16:03
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230705.b\12.D Page 1
Report Date: 05-Jul-2023 14:30

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\12.D
Lab Smp Id: HS23061707-06 Client Smp ID: HS23061707-06
Inj Date : 05-JUL-2023 14:02
Operator : LG Inst ID: SV6.i
Smp Info : HS23061707-06
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 05-Jul-2023 12:00 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.484	2.484	(1.000)	3777	0.10000	(a)
* 45 Naphthalene-d8	136	3.534	3.538	(1.000)	11011	0.10000	
$ 33 Nitrobenzene-d5	82	2.930	2.930	(0.829)	2898	0.08663	0.08662(M)
* 86 Acenaphthene-d10	164	5.164	5.169	(1.000)	7492	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	4.559	4.559	(0.883)	6874	0.08972	0.08972(M)
* 126 Phenanthrene-d10	188	6.581	6.581	(1.000)	11105	0.10000	
* 182 Chrysene-d12	240	9.131	9.136	(1.000)	13205	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.163	8.168	(0.894)	7809	0.08016	0.08016(M)
* 198 Perylene-d12	264	10.753	10.753	(1.000)	8757	0.10000	
1 1,4-Dioxane	58	0.990	0.982	(0.399)	318	0.02481	0.02481(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.

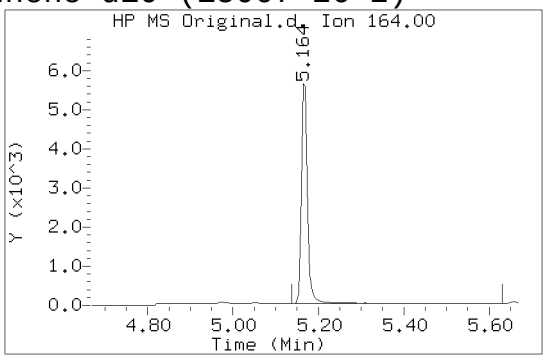
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Inj Date : 05-JUL-2023 14:02
InstruID : SV6.i
LabSampID : HS23061707-06

Acenaphthene-d10 (15067-26-2)

Reason Code:

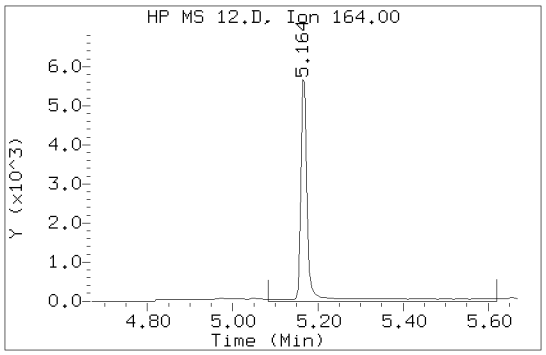
BEFORE

MASS
164
AREA
5702
HEIGHT
5616
05-Jul-2023
14:18
ALSHS
Server



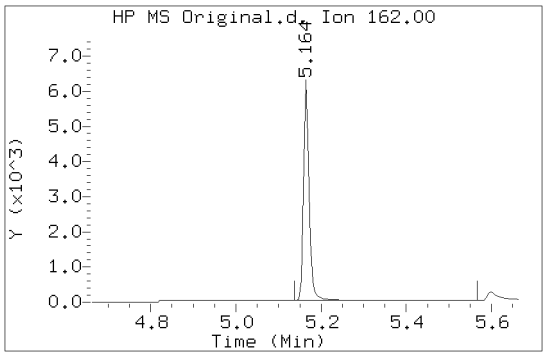
AFTER

MASS
164
AREA
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HEIGHT
5671
05-Jul-2023
14:30
ALSHS
Se



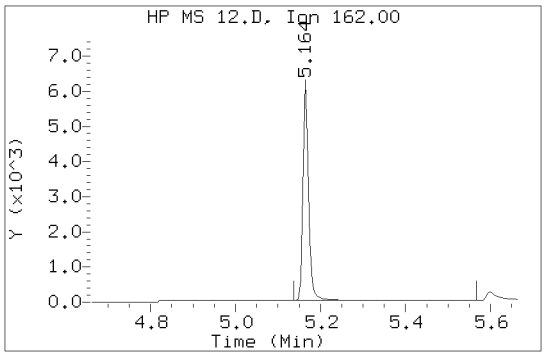
BEFORE

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AREA
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HEIGHT
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05-Jul-2023
14:18
ALSHS
Server



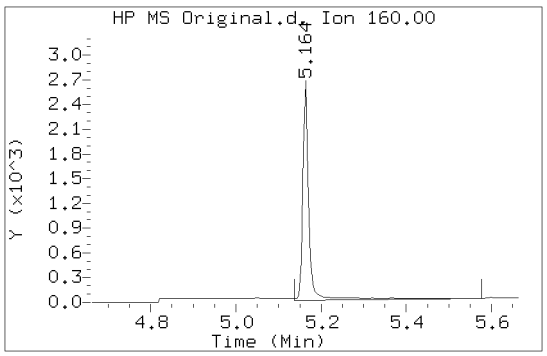
AFTER

MASS
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AREA
5712
HEIGHT
6271
05-Jul-2023
14:30
ALSHS
Se



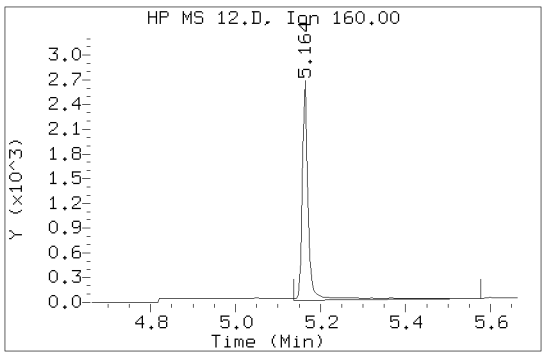
BEFORE

MASS
160
AREA
2758
HEIGHT
2668
05-Jul-2023
14:18
ALSHS
Server



AFTER

MASS
160
AREA
2758
HEIGHT
2668
05-Jul-2023
14:30
ALSHS
Se

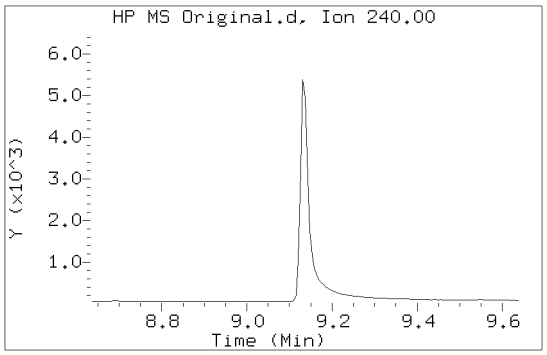


Chrysene-d12 (1719-03-5)

Reason Code:

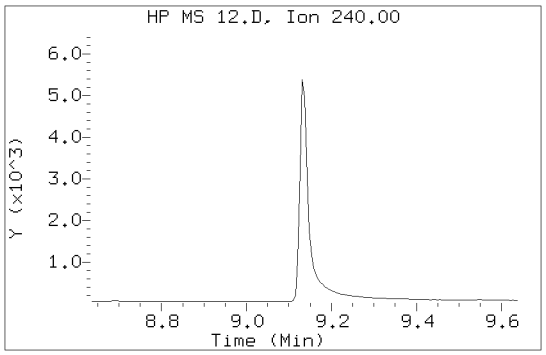
BEFORE

MASS
240
AREA
0
HEIGHT
0
05-Jul-2023
14:18
ALSHS
Server



AFTER

MASS
240
AREA
13205
HEIGHT
5369
05-Jul-2023
14:30
ALSHS
Se



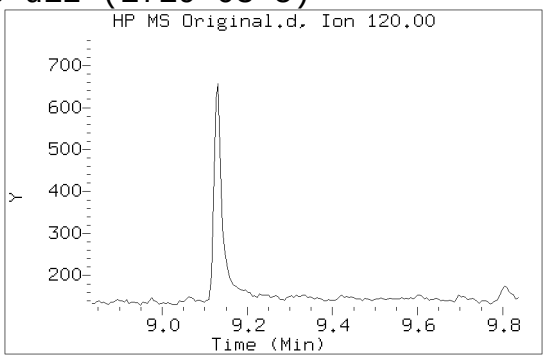
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Inj Date : 05-JUL-2023 14:02
InstruID : SV6.i
LabSampID : HS23061707-06

Chrysene-d12 (1719-03-5)

Reason Code:

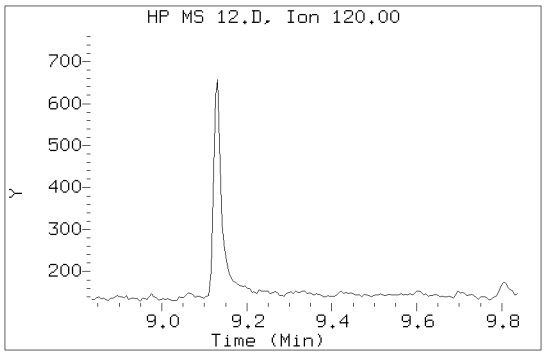
BEFORE

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AREA
0
HEIGHT
0
05-Jul-2023
14:18
ALSHS
Server



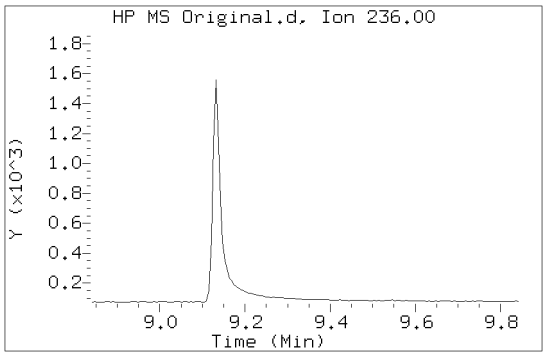
AFTER

MASS
120
AREA
0
HEIGHT
0
05-Jul-2023
14:30
ALSHS
Se



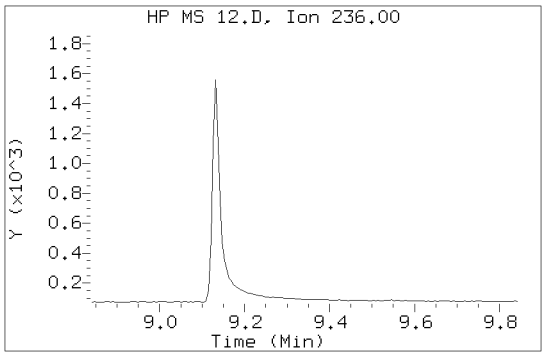
BEFORE

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
14:18
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
14:30
ALSHS
Se

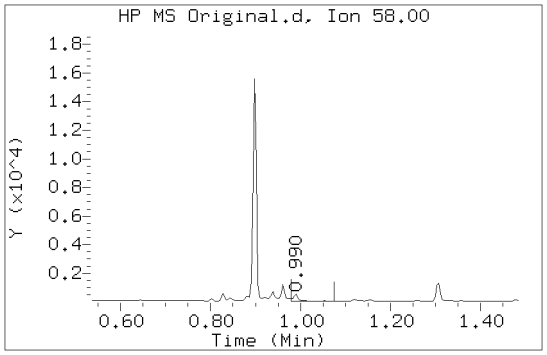


1,4-Dioxane ()

Reason Code:

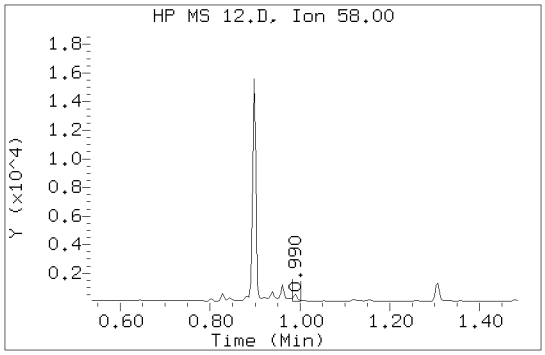
BEFORE

MASS
58
AREA
411
HEIGHT
496
05-Jul-2023
14:18
ALSHS
Server



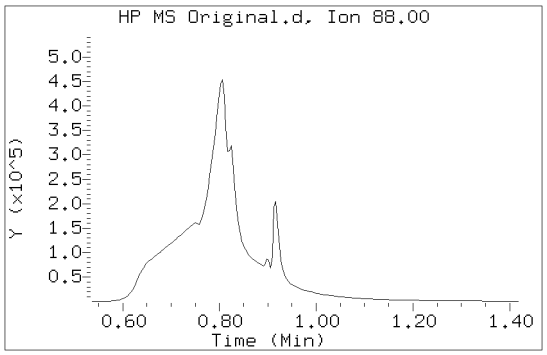
AFTER

MASS
58
AREA
318
HEIGHT
494
05-Jul-2023
14:30
ALSHS
Se



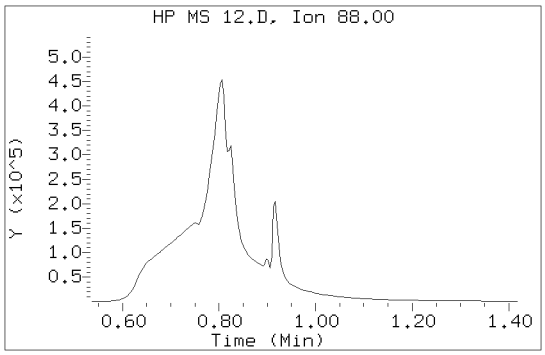
BEFORE

MASS
88
AREA
417727
HEIGHT
204708
05-Jul-2023
14:18
ALSHS
Server



AFTER

MASS
88
AREA
417727
HEIGHT
204708
05-Jul-2023
14:30
ALSHS
Se



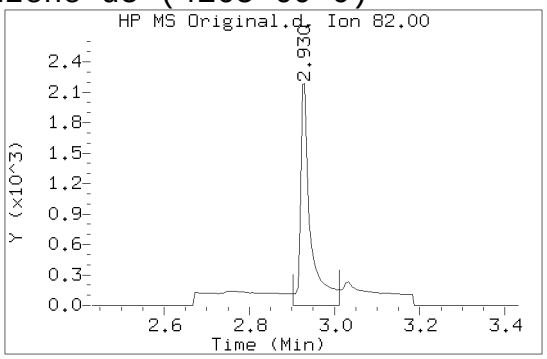
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Inj Date : 05-JUL-2023 14:02
InstruID : SV6.i
LabSampID : HS23061707-06

Nitrobenzene-d5 (4165-60-0)

Reason Code:

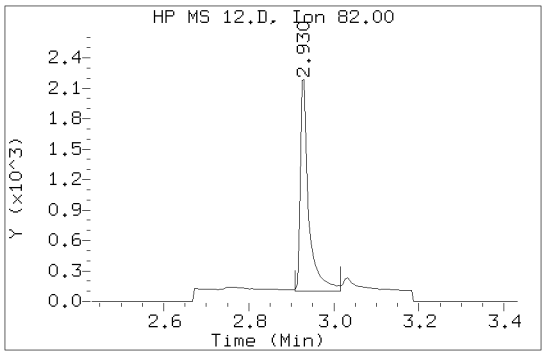
BEFORE

MASS
82
AREA
3568
HEIGHT
2185
05-Jul-2023
14:18
ALSHS
Server



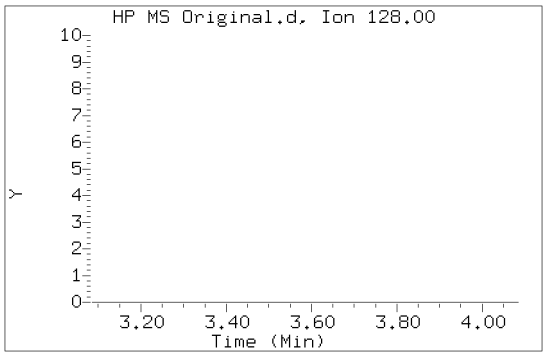
AFTER

MASS
82
AREA
2898
HEIGHT
2084
05-Jul-2023
14:30
ALSHS
Se



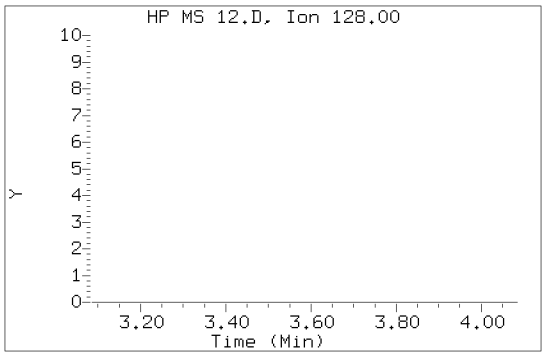
BEFORE

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
14:18
ALSHS
Server



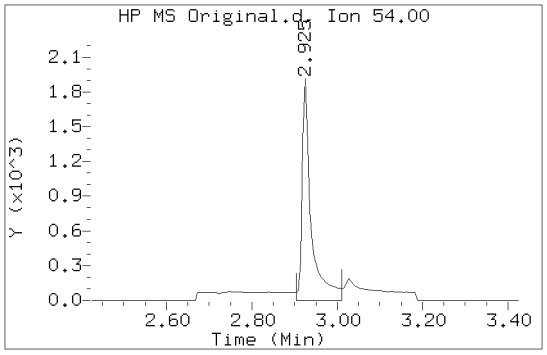
AFTER

MASS
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AREA
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05-Jul-2023
14:30
ALSHS
Se



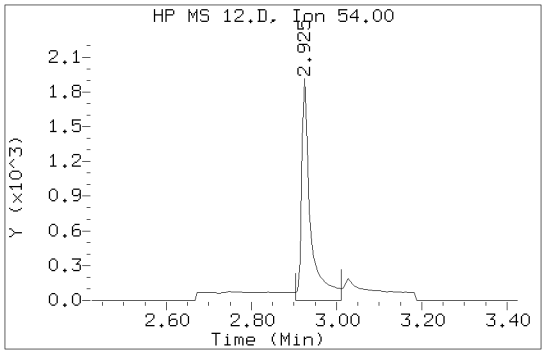
BEFORE

MASS
54
AREA
2785
HEIGHT
1914
05-Jul-2023
14:18
ALSHS
Server



AFTER

MASS
54
AREA
2785
HEIGHT
1914
05-Jul-2023
14:30
ALSHS
Se

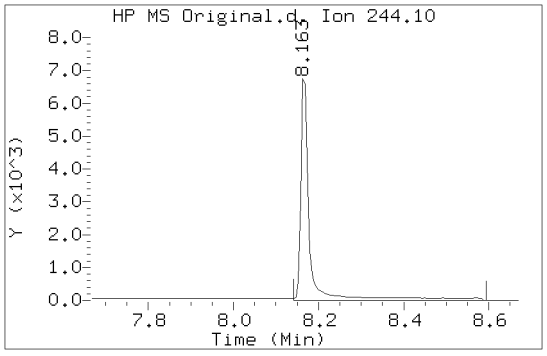


4-Terphenyl-d14 (1718-51-0)

Reason Code:

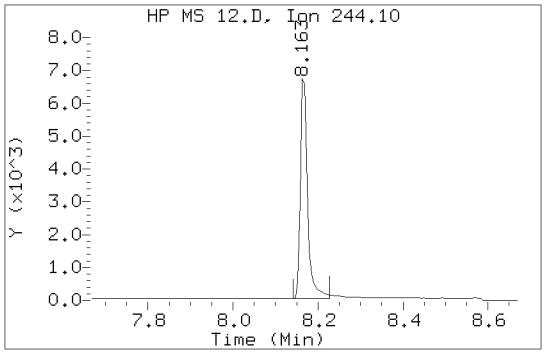
BEFORE

MASS
244.1
AREA
9827
HEIGHT
6748
05-Jul-2023
14:18
ALSHS
Server



AFTER

MASS
244.1
AREA
7809
HEIGHT
6689
05-Jul-2023
14:30
ALSHS
Se



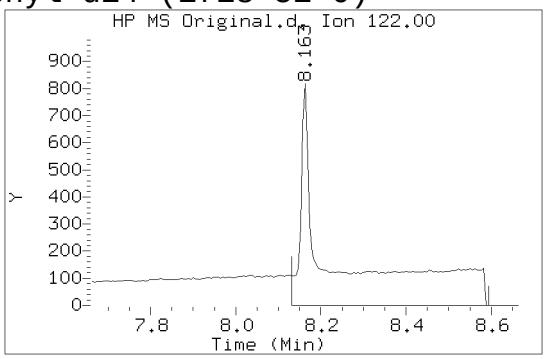
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Inj Date : 05-JUL-2023 14:02
InstruID : SV6.i
LabSampID : HS23061707-06

4-Terphenyl-d14 (1718-51-0)

Reason Code:

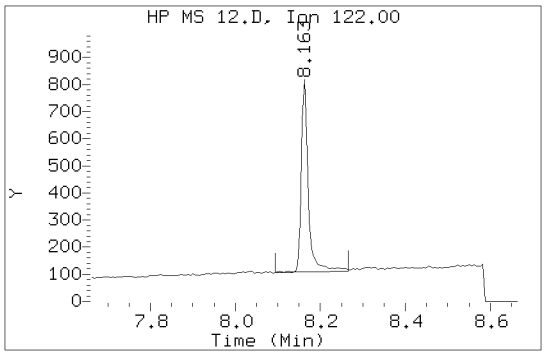
BEFORE

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122
AREA
4100
HEIGHT
818
05-Jul-2023
14:18
ALSHS
Server



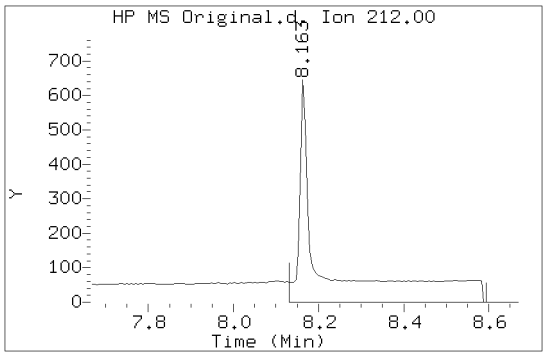
AFTER

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122
AREA
800
HEIGHT
709
05-Jul-2023
14:30
ALSHS
Se



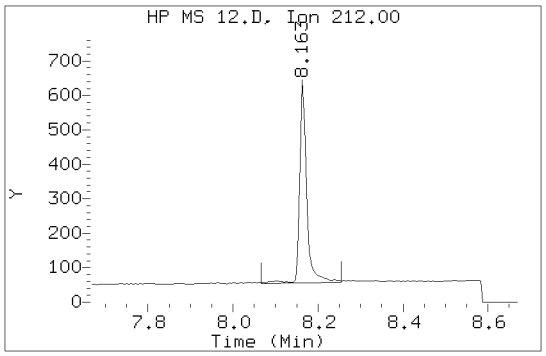
BEFORE

MASS
212
AREA
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HEIGHT
645
05-Jul-2023
14:18
ALSHS
Server



AFTER

MASS
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AREA
664
HEIGHT
588
05-Jul-2023
14:30
ALSHS
Se

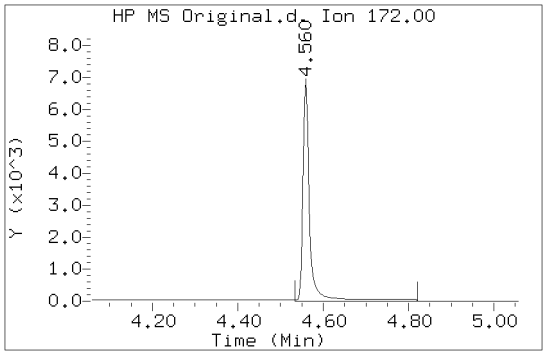


2-Fluorobiphenyl (321-60-8)

Reason Code:

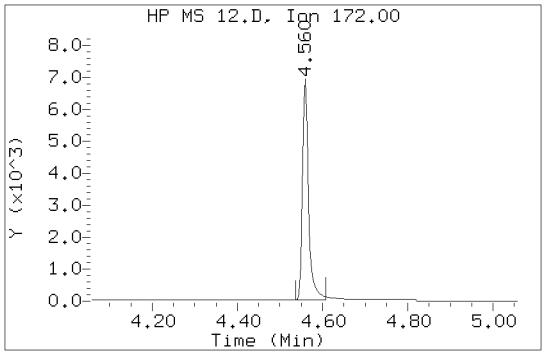
BEFORE

MASS
172
AREA
7884
HEIGHT
6955
05-Jul-2023
14:18
ALSHS
Server



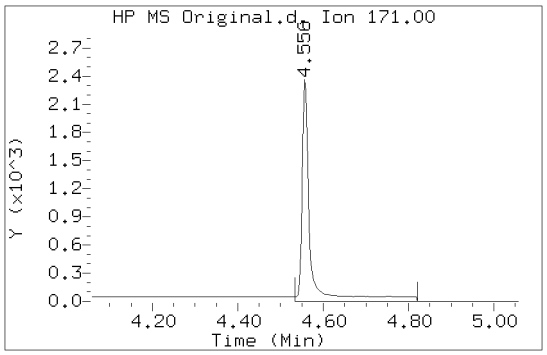
AFTER

MASS
172
AREA
6874
HEIGHT
6911
05-Jul-2023
14:30
ALSHS
Se



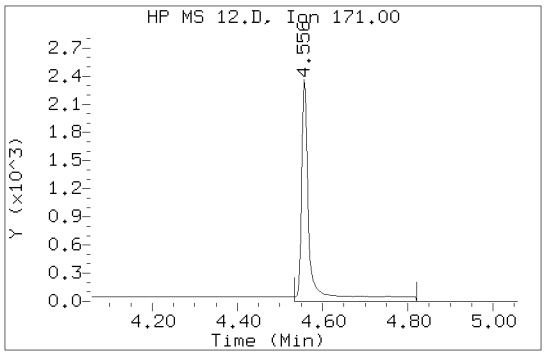
BEFORE

MASS
171
AREA
3200
HEIGHT
2362
05-Jul-2023
14:18
ALSHS
Server



AFTER

MASS
171
AREA
3200
HEIGHT
2362
05-Jul-2023
14:30
ALSHS
Se



Data File: \\nahstws005\Target\chem\SV6.i\230705.b\13.D Page 1
Report Date: 05-Jul-2023 14:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\13.D
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Inj Date : 05-JUL-2023 14:20
Operator : LG Inst ID: SV6.i
Smp Info : HS23061707-07
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 05-Jul-2023 12:00 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.479	2.484	(1.000)	2692	0.10000	(aM)
*	45 Naphthalene-d8	136	3.534	3.538	(1.000)	8499	0.10000	
$	33 Nitrobenzene-d5	82	2.925	2.930	(0.827)	2119	0.08206	0.08206(M)
*	86 Acenaphthene-d10	164	5.169	5.169	(1.000)	6043	0.10000	(QM)
$	69 2-Fluorobiphenyl	172	4.559	4.559	(0.882)	4851	0.07850	0.07850(M)
*	126 Phenanthrene-d10	188	6.582	6.581	(1.000)	9376	0.10000	(M)
*	182 Chrysene-d12	240	9.131	9.136	(1.000)	8908	0.10000	(M)
$	158 4-Terphenyl-d14	244	8.163	8.168	(0.894)	5381	0.08188	0.08188(M)
*	198 Perylene-d12	264	10.753	10.753	(1.000)	6714	0.10000	(M)
	1 1,4-Dioxane	58	0.986	0.982	(0.398)	200	0.02190	0.02190(Q)

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.

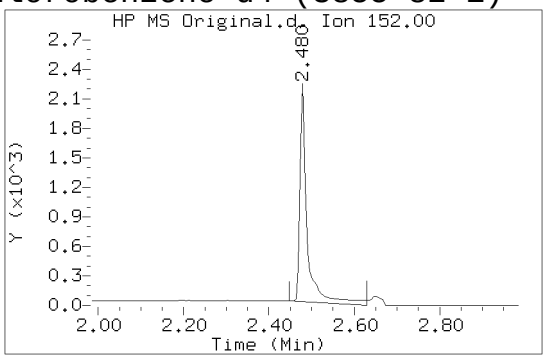
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\13.D
Inj Date : 05-JUL-2023 14:20
InstruID : SV6.i
LabSampID : HS23061707-07

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

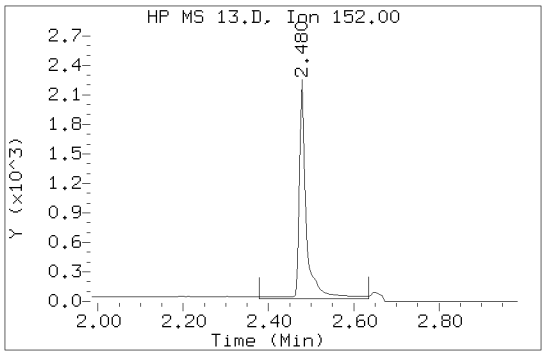
BEFORE

MASS
152
AREA
2575
HEIGHT
2215
05-Jul-2023
14:36
ALSHS
Server



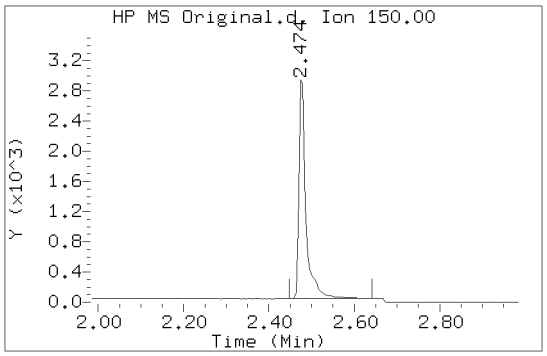
AFTER

MASS
152
AREA
2692
HEIGHT
2231
05-Jul-2023
14:41
ALSHS
Se



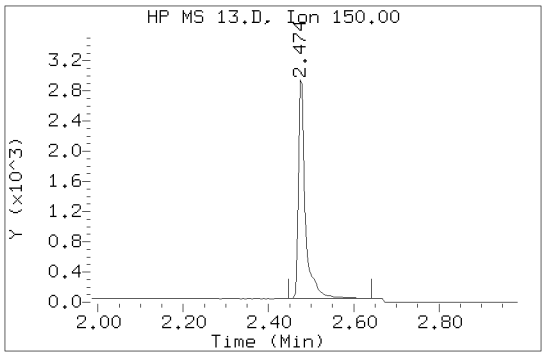
BEFORE

MASS
150
AREA
3322
HEIGHT
2899
05-Jul-2023
14:36
ALSHS
Server



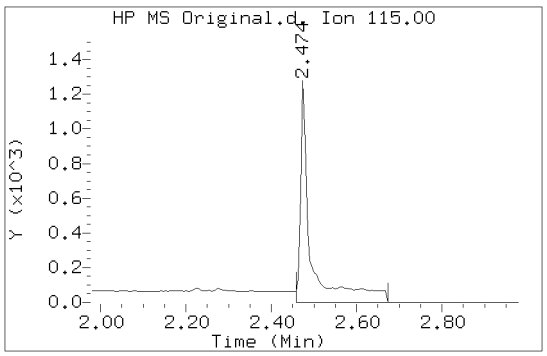
AFTER

MASS
150
AREA
3322
HEIGHT
2899
05-Jul-2023
14:41
ALSHS
Se



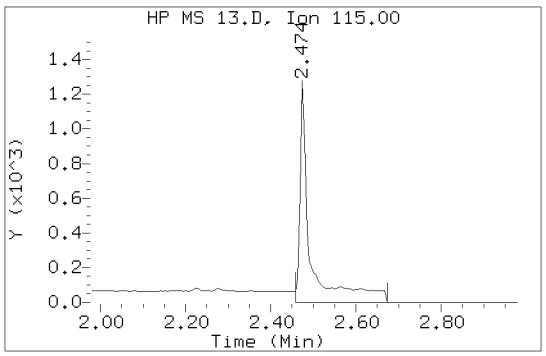
BEFORE

MASS
115
AREA
2113
HEIGHT
1278
05-Jul-2023
14:36
ALSHS
Server



AFTER

MASS
115
AREA
2113
HEIGHT
1278
05-Jul-2023
14:41
ALSHS
Se

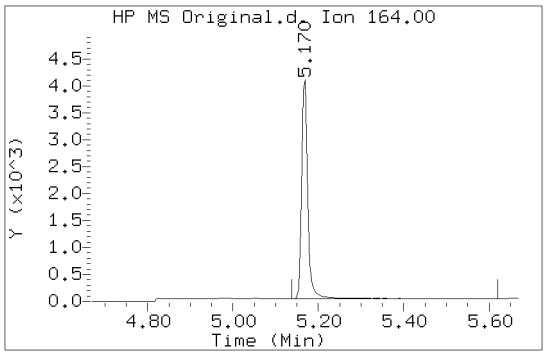


Acenaphthene-d10 (15067-26-2)

Reason Code:

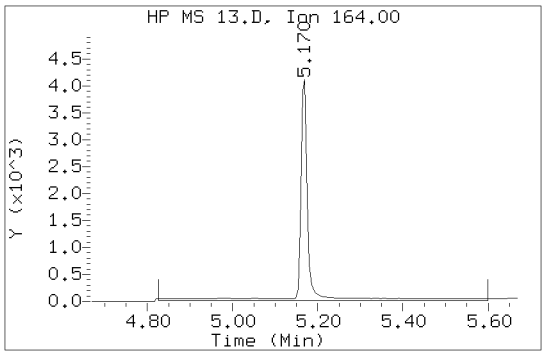
BEFORE

MASS
164
AREA
4125
HEIGHT
4063
05-Jul-2023
14:36
ALSHS
Server



AFTER

MASS
164
AREA
6043
HEIGHT
4104
05-Jul-2023
14:41
ALSHS
Se



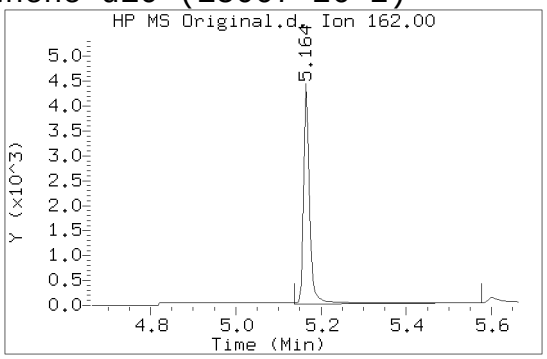
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\13.D
Inj Date : 05-JUL-2023 14:20
InstruID : SV6.i
LabSampID : HS23061707-07

Acenaphthene-d10 (15067-26-2)

Reason Code:

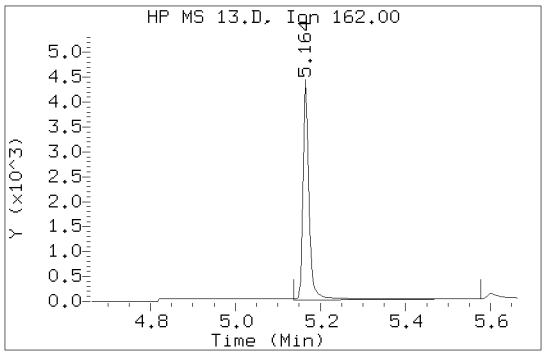
BEFORE

MASS
162
AREA
4599
HEIGHT
4427
05-Jul-2023
14:36
ALSHS
Server



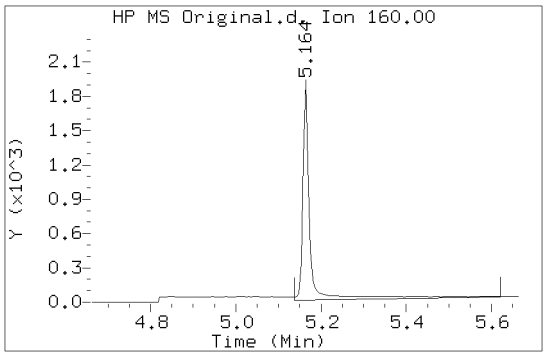
AFTER

MASS
162
AREA
4599
HEIGHT
4427
05-Jul-2023
14:41
ALSHS
Se



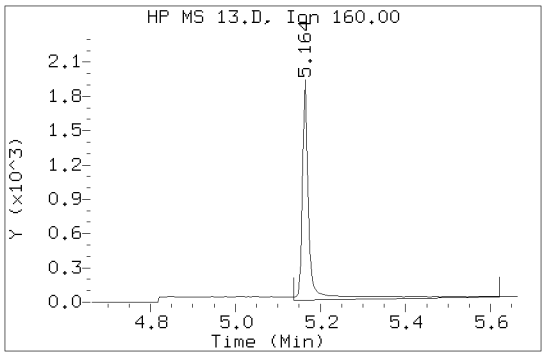
BEFORE

MASS
160
AREA
2191
HEIGHT
1923
05-Jul-2023
14:36
ALSHS
Server



AFTER

MASS
160
AREA
2191
HEIGHT
1923
05-Jul-2023
14:41
ALSHS
Se

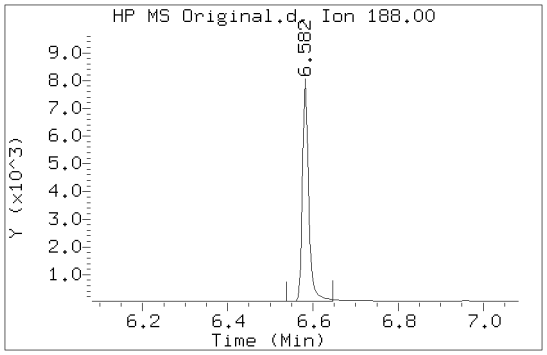


Phenanthrene-d10 (1517-22-2)

Reason Code:

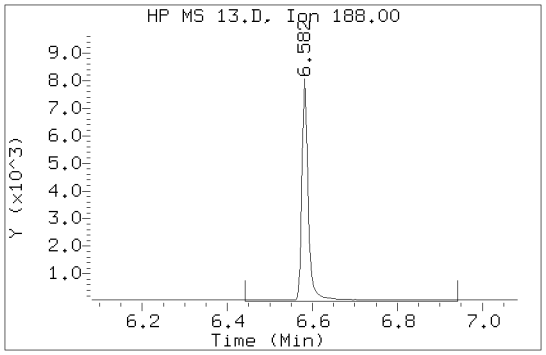
BEFORE

MASS
188
AREA
7933
HEIGHT
8012
05-Jul-2023
14:36
ALSHS
Server



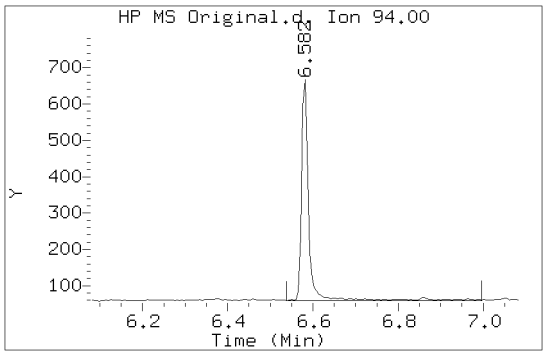
AFTER

MASS
188
AREA
9376
HEIGHT
8054
05-Jul-2023
14:41
ALSHS
Se



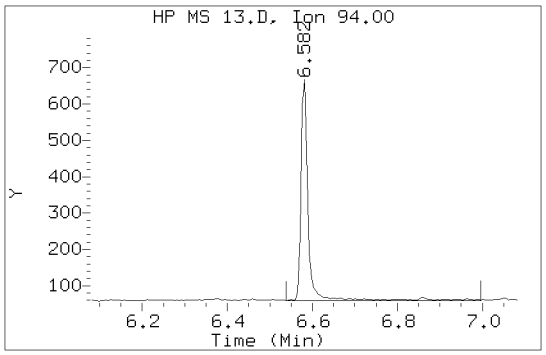
BEFORE

MASS
94
AREA
725
HEIGHT
608
05-Jul-2023
14:36
ALSHS
Server



AFTER

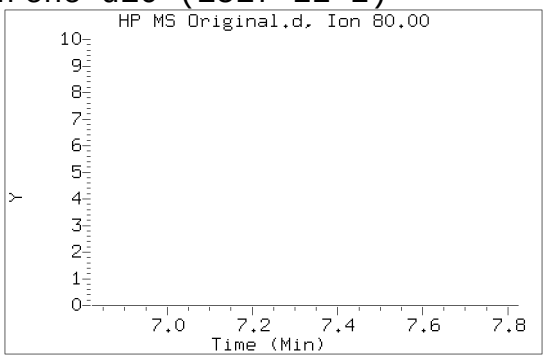
MASS
94
AREA
725
HEIGHT
608
05-Jul-2023
14:41
ALSHS
Se



Data File : \\nahstws005\Target\chem\SV6.i\230705.b\13.D
Inj Date : 05-JUL-2023 14:20
InstruID : SV6.i
LabSampID : HS23061707-07

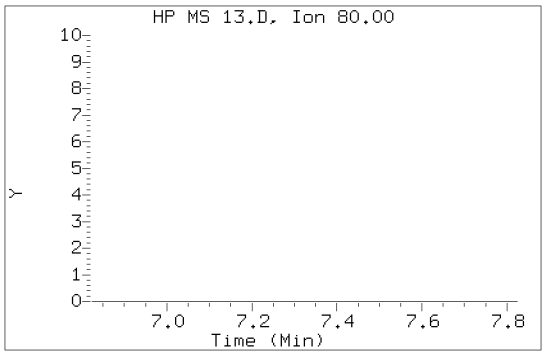
Phenanthrene-d10 (1517-22-2)

BEFORE
MASS
80
AREA
0
HEIGHT
0
05-Jul-2023
14:36
ALSHS
Server



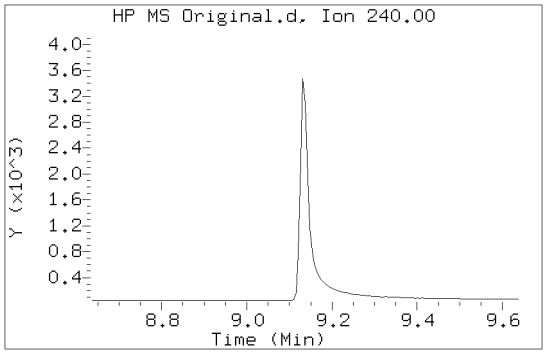
Reason Code:

AFTER
MASS
80
AREA
0
HEIGHT
0
05-Jul-2023
14:41
ALSHS
Se



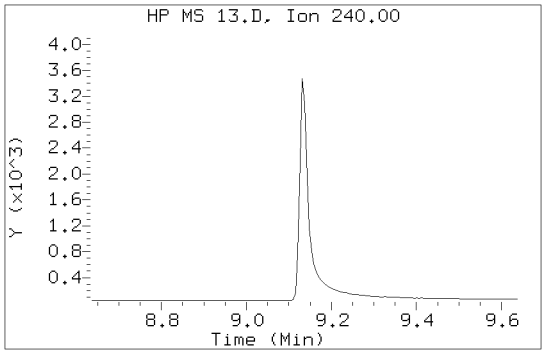
Chrysene-d12 (1719-03-5)

BEFORE
MASS
240
AREA
0
HEIGHT
0
05-Jul-2023
14:36
ALSHS
Server

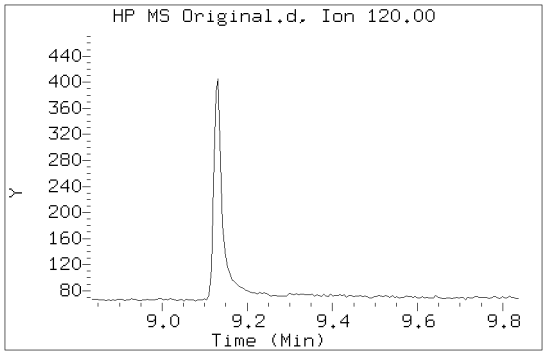


Reason Code:

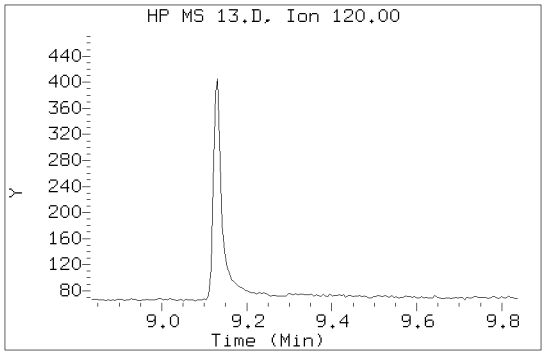
AFTER
MASS
240
AREA
8908
HEIGHT
3453
05-Jul-2023
14:41
ALSHS
Se



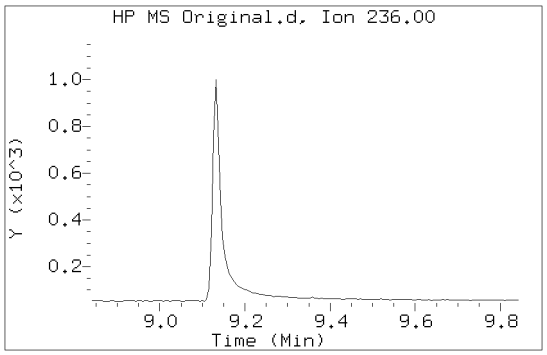
BEFORE
MASS
120
AREA
0
HEIGHT
0
05-Jul-2023
14:36
ALSHS
Server



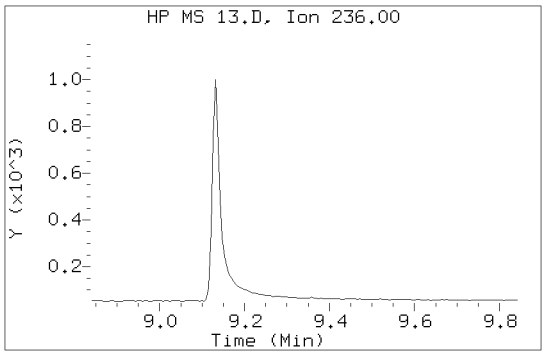
AFTER
MASS
120
AREA
0
HEIGHT
0
05-Jul-2023
14:41
ALSHS
Se



BEFORE
MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
14:36
ALSHS
Server



AFTER
MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
14:41
ALSHS
Se



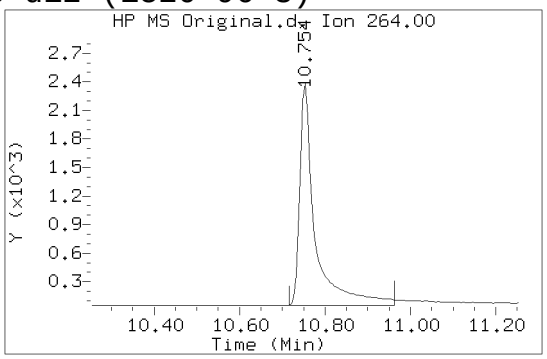
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\13.D
Inj Date : 05-JUL-2023 14:20
InstruID : SV6.i
LabSampID : HS23061707-07

Perylene-d12 (1520-96-3)

Reason Code:

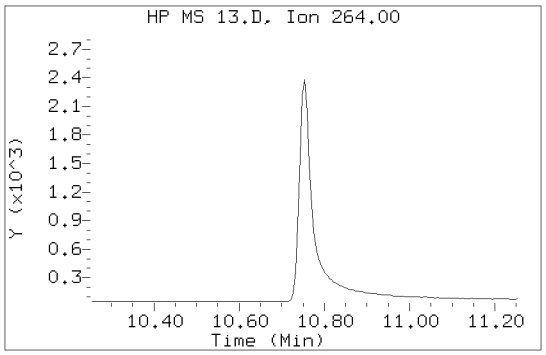
BEFORE

MASS
264
AREA
5748
HEIGHT
2325
05-Jul-2023
14:36
ALSHS
Server



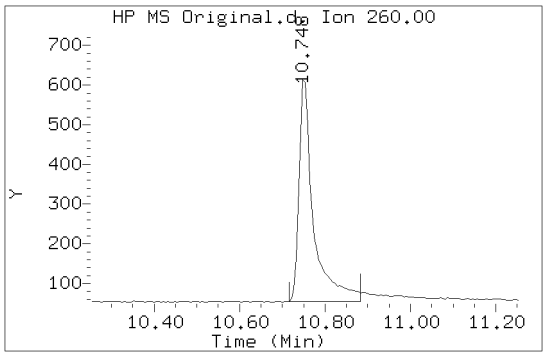
AFTER

MASS
264
AREA
6714
HEIGHT
2336
05-Jul-2023
14:41
ALSHS
Se



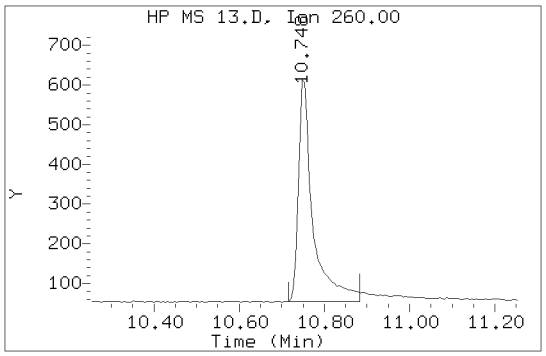
BEFORE

MASS
260
AREA
1310
HEIGHT
558
05-Jul-2023
14:36
ALSHS
Server



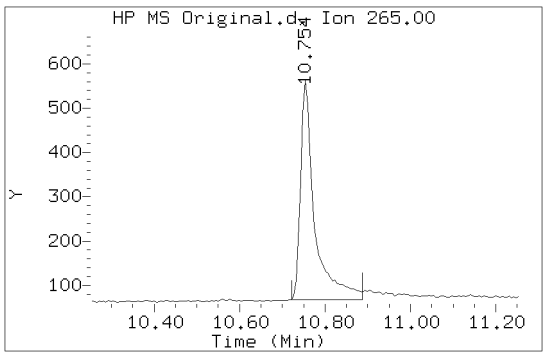
AFTER

MASS
260
AREA
1310
HEIGHT
558
05-Jul-2023
14:41
ALSHS
Se



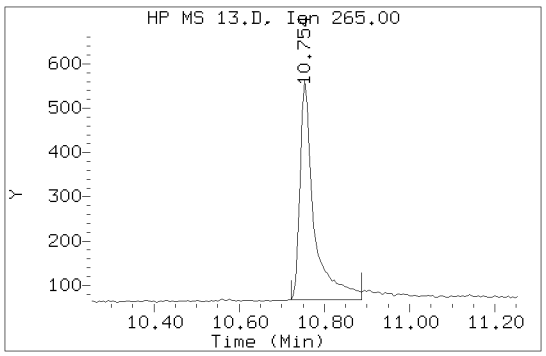
BEFORE

MASS
265
AREA
1128
HEIGHT
494
05-Jul-2023
14:36
ALSHS
Server



AFTER

MASS
265
AREA
1128
HEIGHT
494
05-Jul-2023
14:41
ALSHS
Se

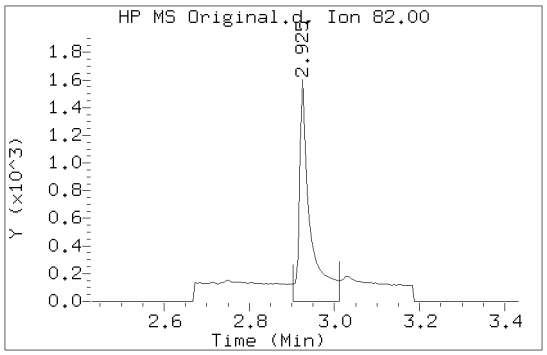


Nitrobenzene-d5 (4165-60-0)

Reason Code:

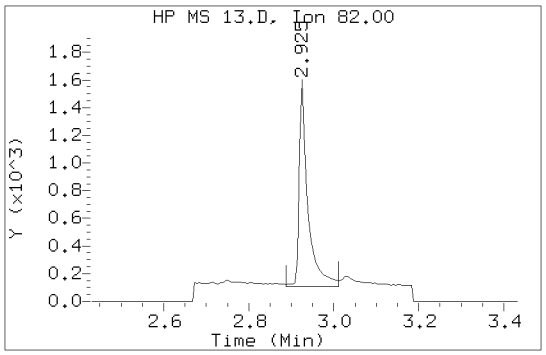
BEFORE

MASS
82
AREA
2835
HEIGHT
1602
05-Jul-2023
14:36
ALSHS
Server



AFTER

MASS
82
AREA
2119
HEIGHT
1494
05-Jul-2023
14:41
ALSHS
Se



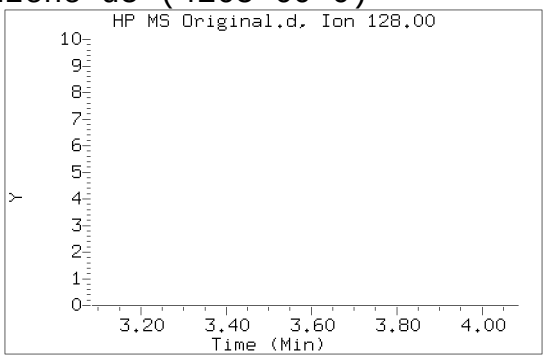
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\13.D
Inj Date : 05-JUL-2023 14:20
InstruID : SV6.i
LabSampID : HS23061707-07

Nitrobenzene-d5 (4165-60-0)

Reason Code:

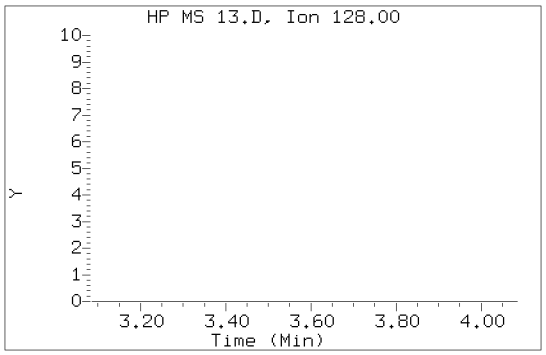
BEFORE

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
14:36
ALSHS
Server



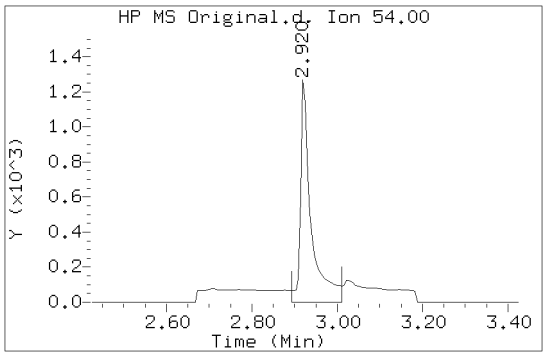
AFTER

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
14:41
ALSHS
Se



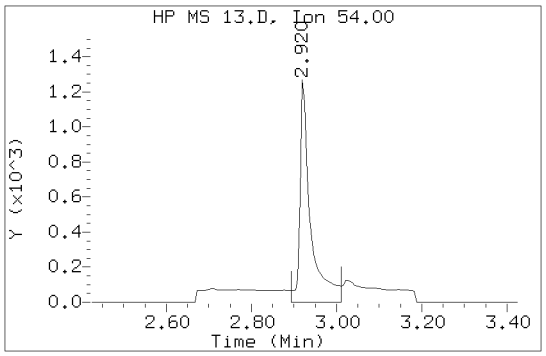
BEFORE

MASS
54
AREA
2177
HEIGHT
1268
05-Jul-2023
14:36
ALSHS
Server



AFTER

MASS
54
AREA
2177
HEIGHT
1268
05-Jul-2023
14:41
ALSHS
Se

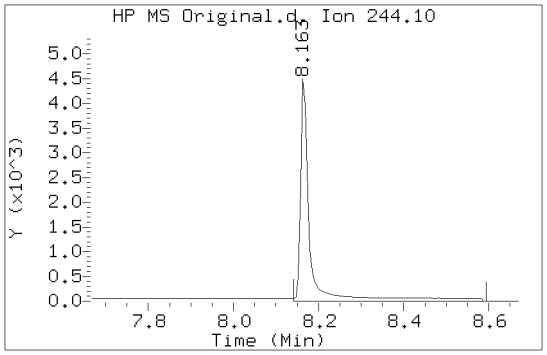


4-Terphenyl-d14 (1718-51-0)

Reason Code:

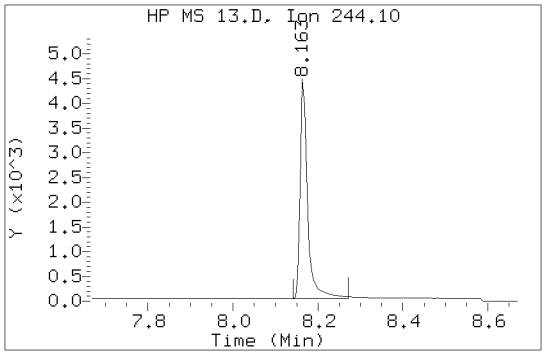
BEFORE

MASS
244.1
AREA
6955
HEIGHT
4495
05-Jul-2023
14:36
ALSHS
Server



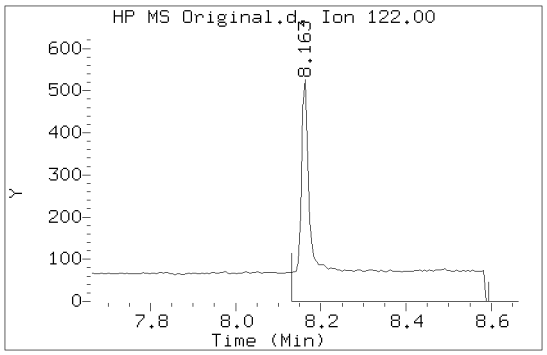
AFTER

MASS
244.1
AREA
5381
HEIGHT
4446
05-Jul-2023
14:41
ALSHS
Se



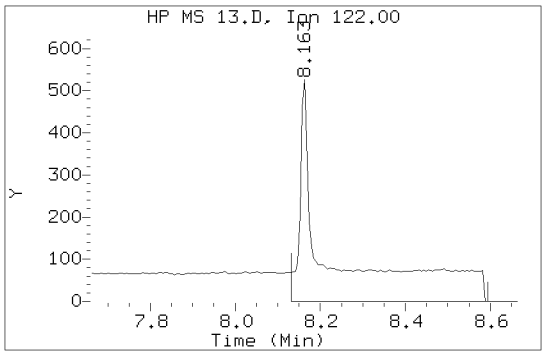
BEFORE

MASS
122
AREA
2491
HEIGHT
526
05-Jul-2023
14:36
ALSHS
Server



AFTER

MASS
122
AREA
2491
HEIGHT
526
05-Jul-2023
14:41
ALSHS
Se



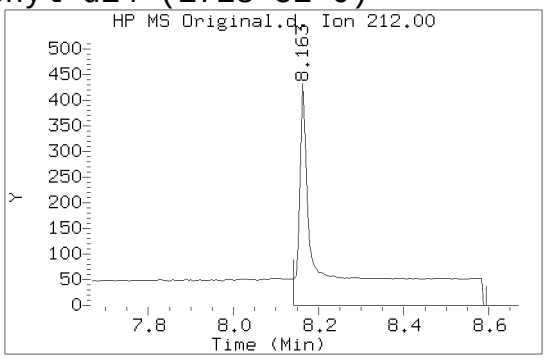
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\13.D
Inj Date : 05-JUL-2023 14:20
InstruID : SV6.i
LabSampID : HS23061707-07

4-Terphenyl-d14 (1718-51-0)

Reason Code:

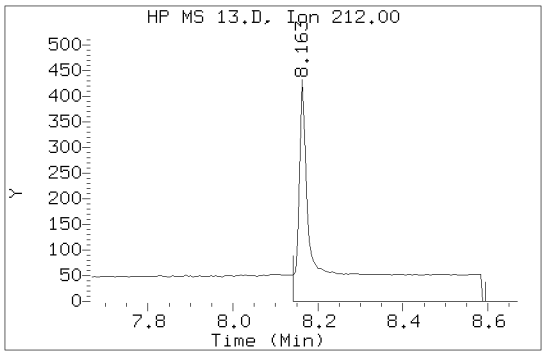
BEFORE

MASS
212
AREA
1819
HEIGHT
432
05-Jul-2023
14:36
ALSHS
Server



AFTER

MASS
212
AREA
1819
HEIGHT
432
05-Jul-2023
14:41
ALSHS
Se

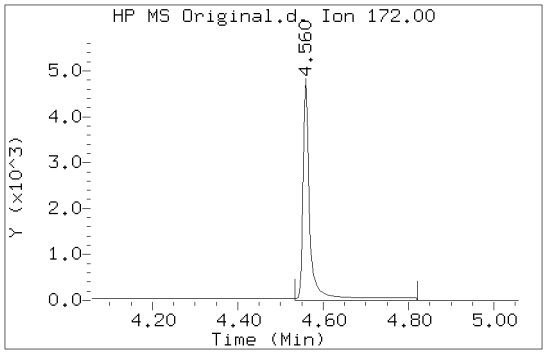


2-Fluorobiphenyl (321-60-8)

Reason Code:

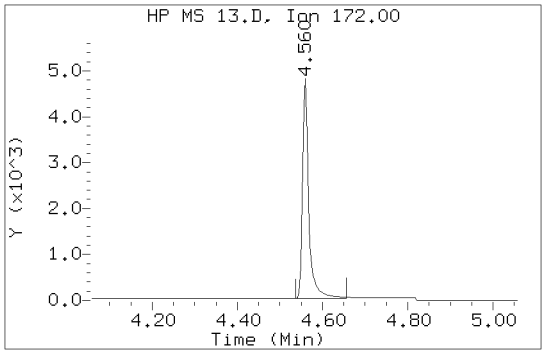
BEFORE

MASS
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AREA
5727
HEIGHT
4830
05-Jul-2023
14:36
ALSHS
Server



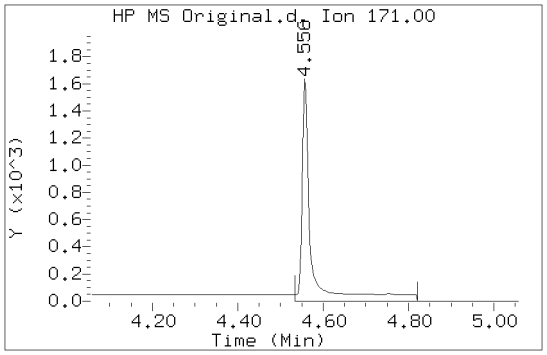
AFTER

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AREA
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4784
05-Jul-2023
14:41
ALSHS
Se



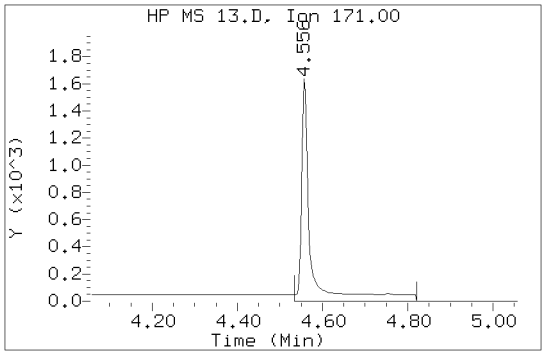
BEFORE

MASS
171
AREA
2472
HEIGHT
1636
05-Jul-2023
14:36
ALSHS
Server



AFTER

MASS
171
AREA
2472
HEIGHT
1636
05-Jul-2023
14:41
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\14.D
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Inj Date : 05-JUL-2023 14:38
Operator : LG Inst ID: SV6.i
Smp Info : HS23061707-10
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 05-Jul-2023 12:00 jiayi.lu Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.479	2.484	(1.000)	3220	0.10000	(a)
* 45 Naphthalene-d8	136	3.534	3.538	(1.000)	9592	0.10000	
$ 33 Nitrobenzene-d5	82	2.924	2.930	(0.827)	2382	0.08173	0.08173(M)
* 86 Acenaphthene-d10	164	5.169	5.169	(1.000)	5463	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.559	4.559	(0.882)	4782	0.08560	0.08560(M)
* 126 Phenanthrene-d10	188	6.581	6.581	(1.000)	9452	0.10000	(M)
* 182 Chrysene-d12	240	9.136	9.136	(1.000)	8644	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.168	8.168	(0.894)	5377	0.08432	0.08432(M)
* 198 Perylene-d12	264	10.753	10.753	(1.000)	6528	0.10000	
1 1,4-Dioxane	58	0.986	0.982	(0.398)	127	0.01162	0.01162(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01200877

Data File: \\nahstws005\Target\chem\SV6.i\230705.b\14.D

Date : 05-JUL-2023 14:38

Client ID: HS23061707-10

Instrument: SV6.i

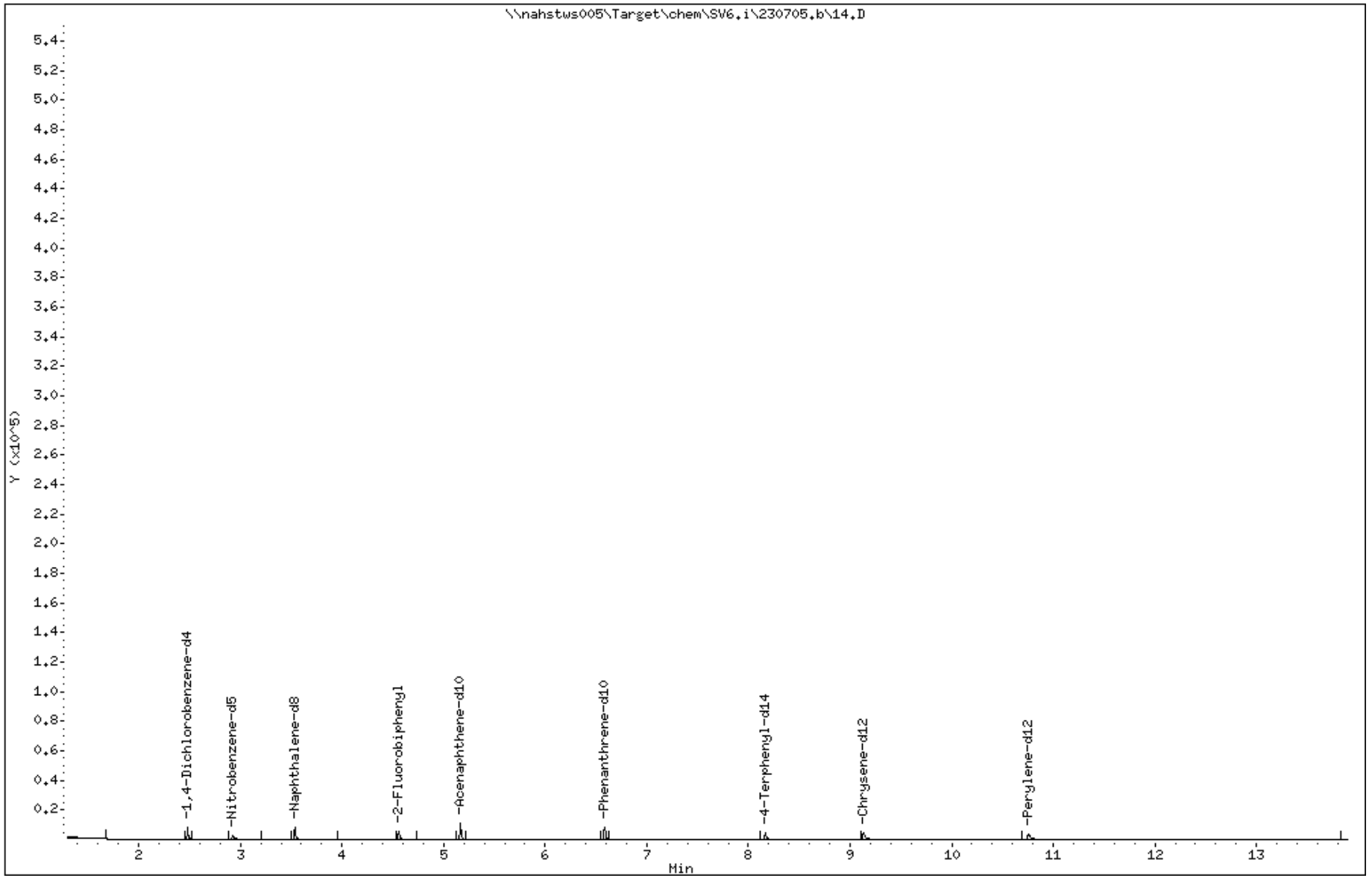
Sample Info: HS23061707-10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\nahstws005\Target\chem\SV6.i\230705.b\14.D

Date : 05-JUL-2023 14:38

Client ID: HS23061707-10

Instrument: SV6.i

Sample Info: HS23061707-10

Purge Volume: 1000.0

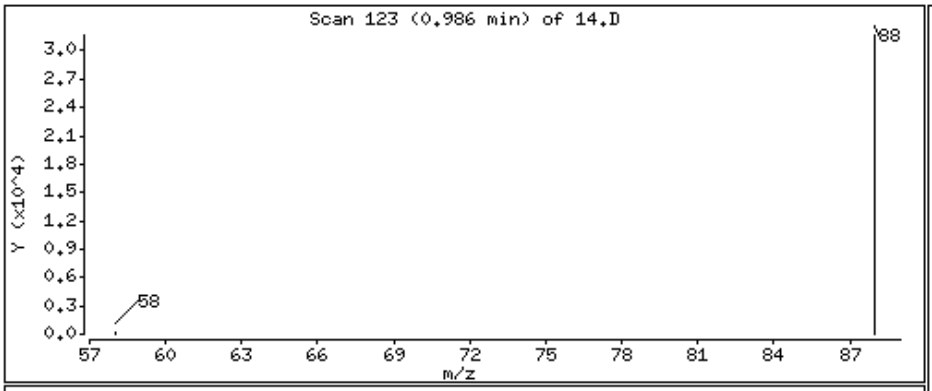
Operator: LG

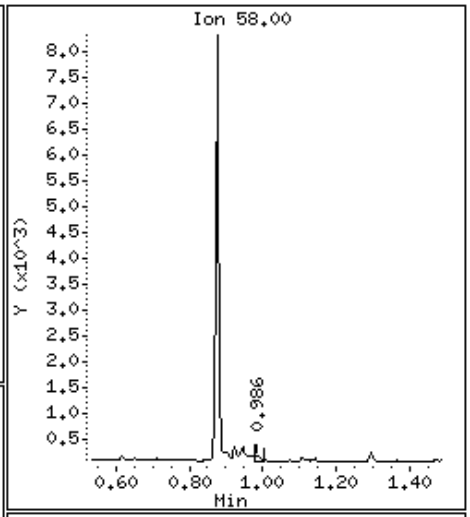
Column phase: RTX-5SIL MS

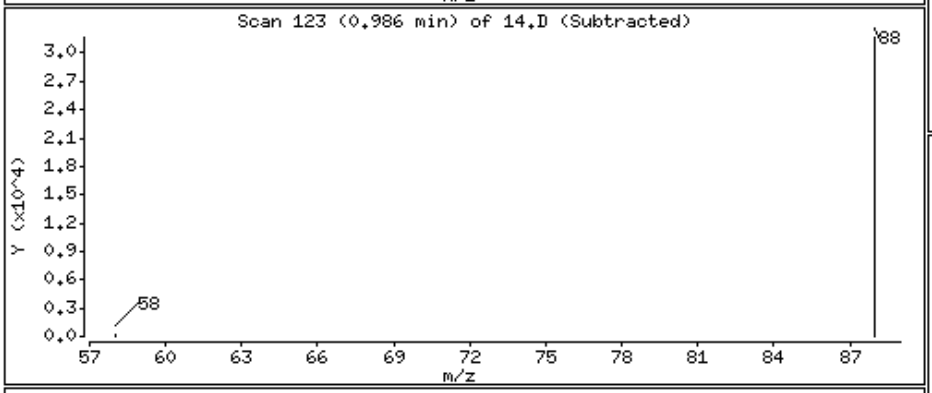
Column diameter: 0.28

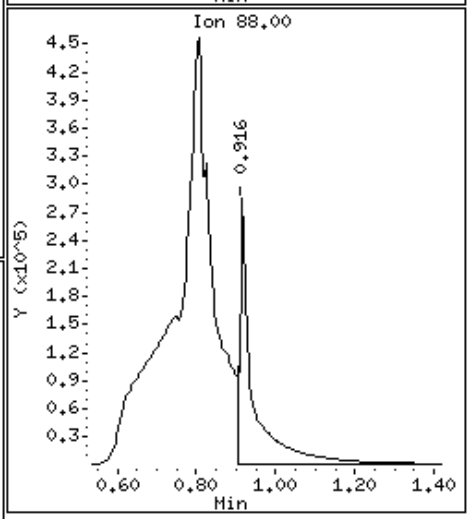
1 1,4-Dioxane

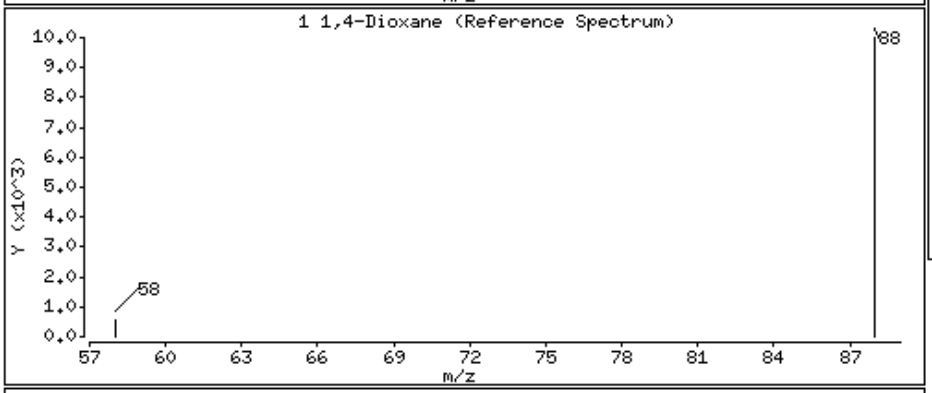
Concentration: 0.01162 ug/L

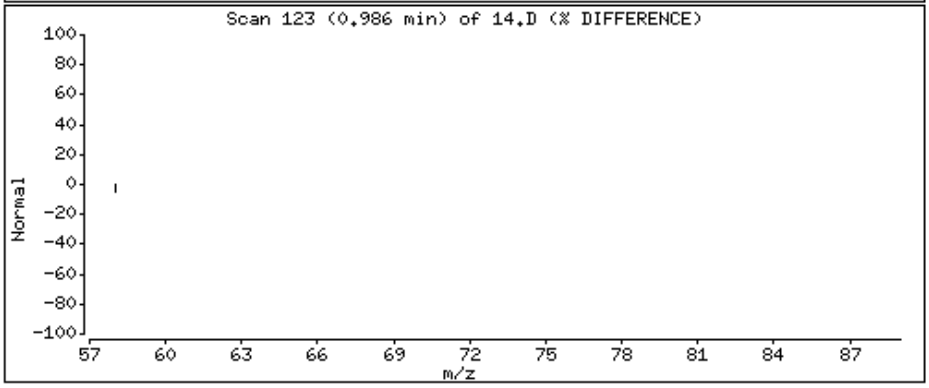












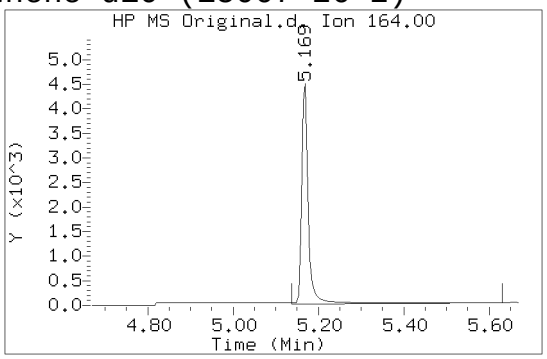
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Inj Date : 05-JUL-2023 14:38
InstruID : SV6.i
LabSampID : HS23061707-10

Acenaphthene-d10 (15067-26-2)

Reason Code:

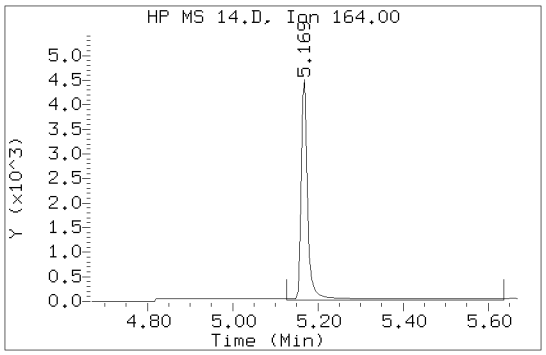
BEFORE

MASS
164
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5139
HEIGHT
4487
05-Jul-2023
14:54
ALSHS
Server



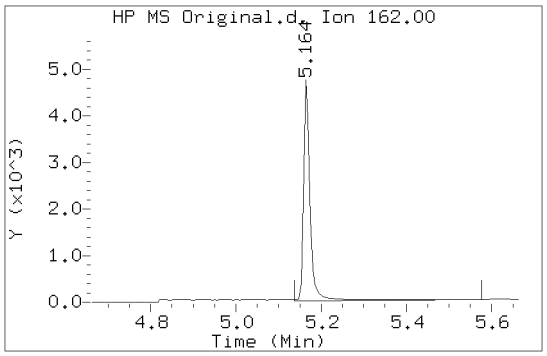
AFTER

MASS
164
AREA
5463
HEIGHT
4484
05-Jul-2023
15:09
ALSHS
Se



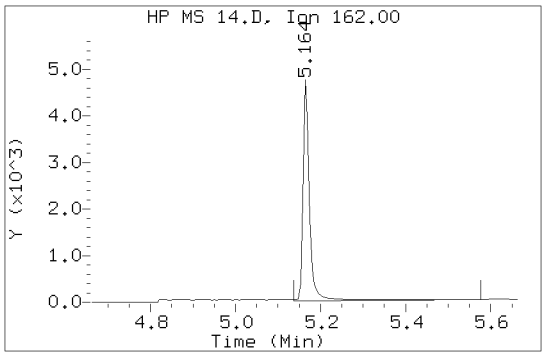
BEFORE

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AREA
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HEIGHT
4749
05-Jul-2023
14:54
ALSHS
Server



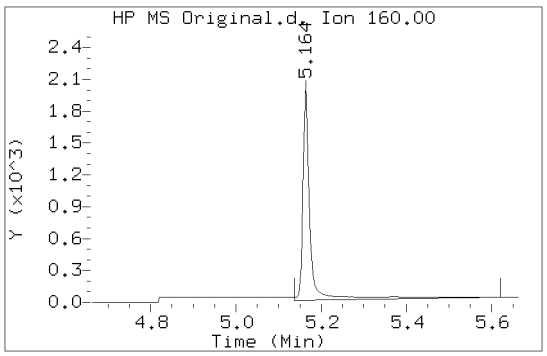
AFTER

MASS
162
AREA
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HEIGHT
4749
05-Jul-2023
15:09
ALSHS
Se



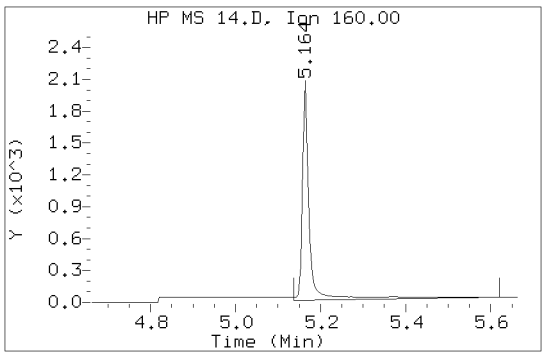
BEFORE

MASS
160
AREA
2430
HEIGHT
2066
05-Jul-2023
14:54
ALSHS
Server



AFTER

MASS
160
AREA
2430
HEIGHT
2066
05-Jul-2023
15:09
ALSHS
Se

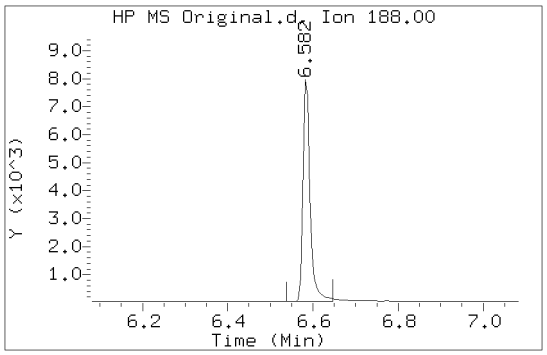


Phenanthrene-d10 (1517-22-2)

Reason Code:

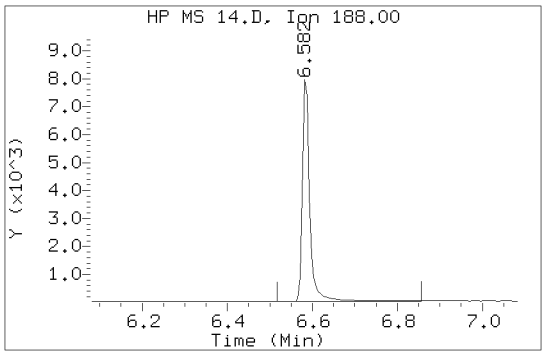
BEFORE

MASS
188
AREA
9022
HEIGHT
7918
05-Jul-2023
14:54
ALSHS
Server



AFTER

MASS
188
AREA
9452
HEIGHT
7928
05-Jul-2023
15:09
ALSHS
Se

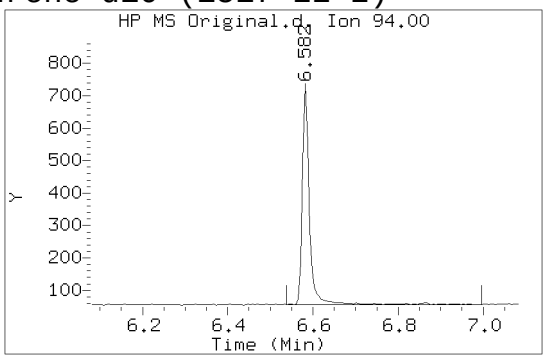


Data File : \\nahstws005\Target\chem\SV6.i\230705.b\14.D
Inj Date : 05-JUL-2023 14:38
InstruID : SV6.i
LabSampID : HS23061707-10

Phenanthrene-d10 (1517-22-2)

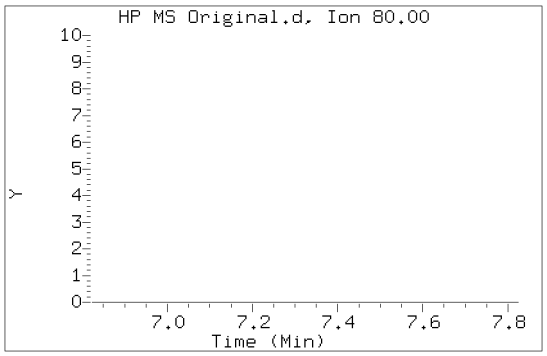
BEFORE

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AREA
776
HEIGHT
681
05-Jul-2023
14:54
ALSHS
Server



BEFORE

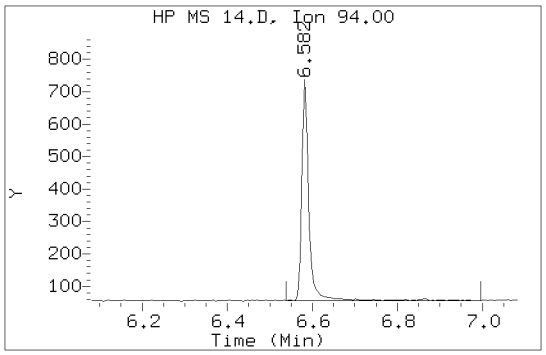
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HEIGHT
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05-Jul-2023
14:54
ALSHS
Server



Reason Code:

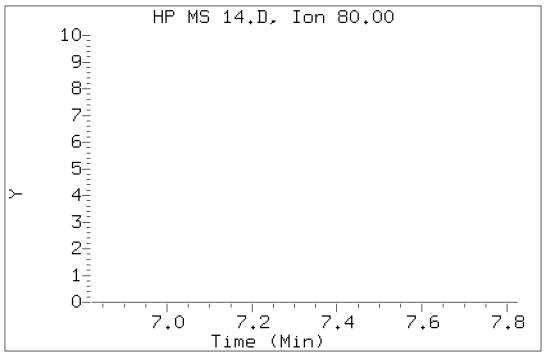
AFTER

MASS
94
AREA
776
HEIGHT
681
05-Jul-2023
15:09
ALSHS
Se



AFTER

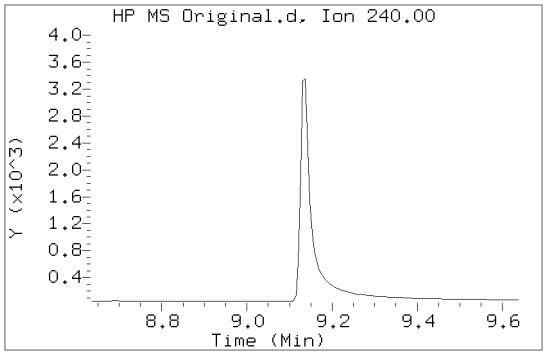
MASS
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AREA
0
HEIGHT
0
05-Jul-2023
15:09
ALSHS
Se



Chrysene-d12 (1719-03-5)

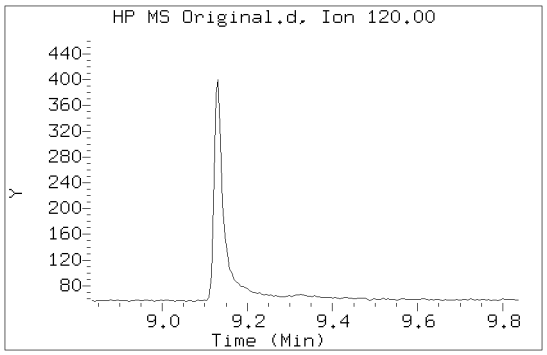
BEFORE

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AREA
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HEIGHT
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05-Jul-2023
14:54
ALSHS
Server



BEFORE

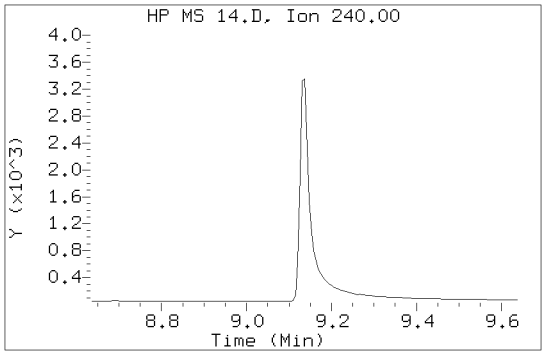
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AREA
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HEIGHT
0
05-Jul-2023
14:54
ALSHS
Server



Reason Code:

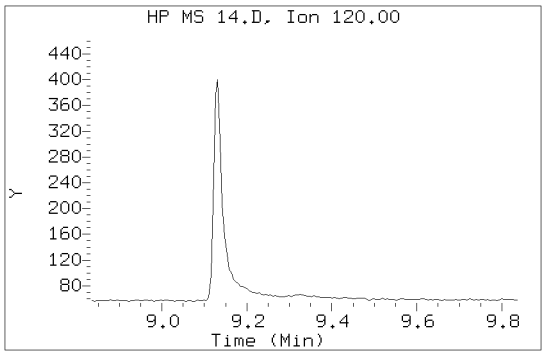
AFTER

MASS
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AREA
8644
HEIGHT
3328
05-Jul-2023
15:09
ALSHS
Se



AFTER

MASS
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AREA
0
HEIGHT
0
05-Jul-2023
15:09
ALSHS
Se



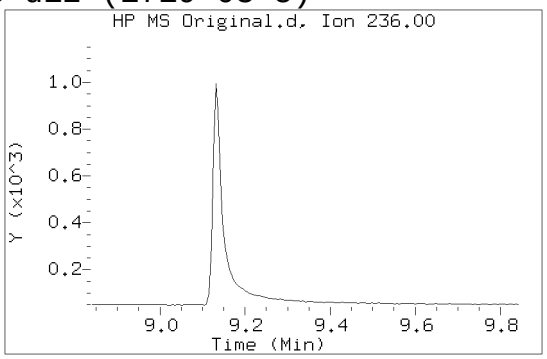
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Inj Date : 05-JUL-2023 14:38
InstruID : SV6.i
LabSampID : HS23061707-10

Chrysene-d12 (1719-03-5)

Reason Code:

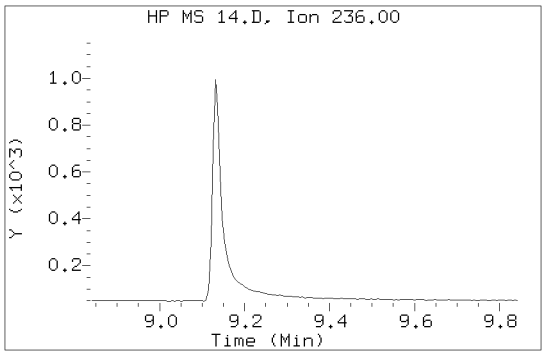
BEFORE

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
14:54
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
15:09
ALSHS
Se

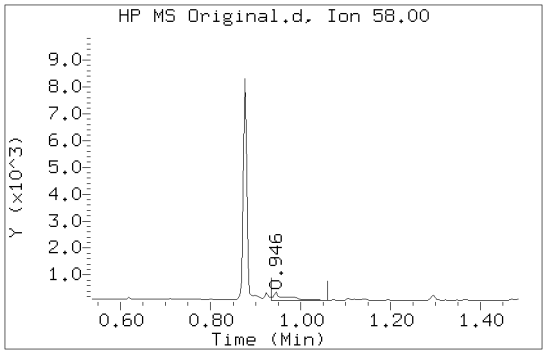


1,4-Dioxane ()

Reason Code:

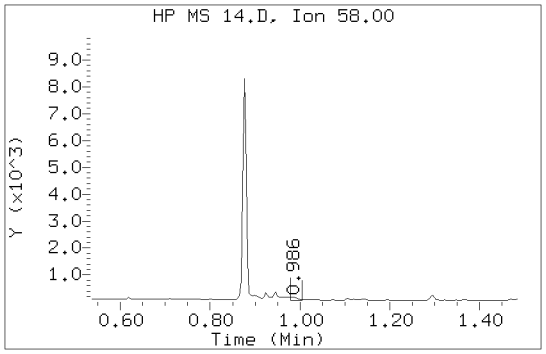
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AREA
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HEIGHT
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05-Jul-2023
14:54
ALSHS
Server



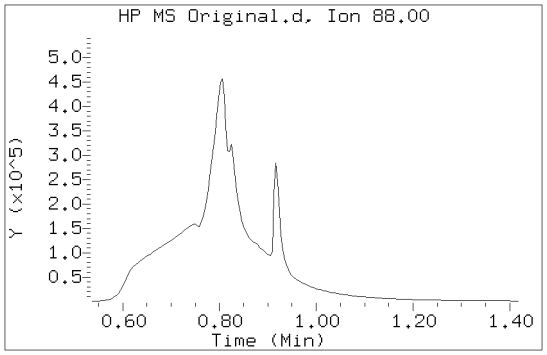
AFTER

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AREA
127
HEIGHT
114
05-Jul-2023
15:09
ALSHS
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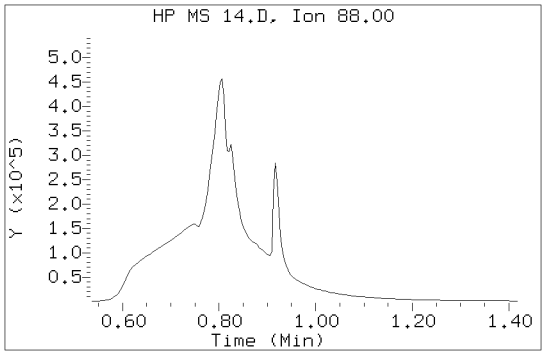
BEFORE

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HEIGHT
283075
05-Jul-2023
14:54
ALSHS
Server



AFTER

MASS
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AREA
614457
HEIGHT
283075
05-Jul-2023
15:09
ALSHS
Se

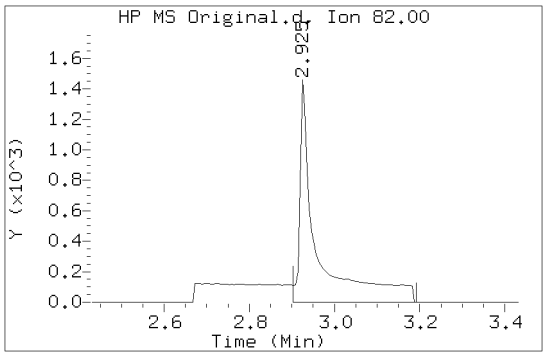


Nitrobenzene-d5 (4165-60-0)

Reason Code:

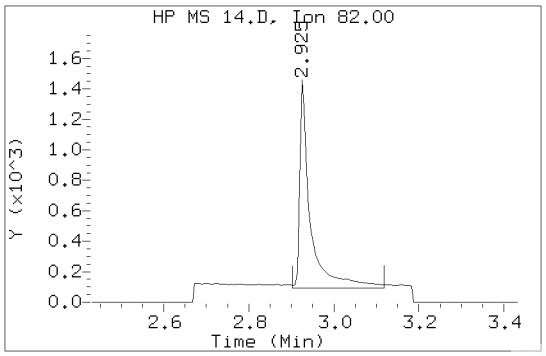
BEFORE

MASS
82
AREA
4002
HEIGHT
1459
05-Jul-2023
14:54
ALSHS
Server



AFTER

MASS
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AREA
2382
HEIGHT
1367
05-Jul-2023
15:09
ALSHS
Se



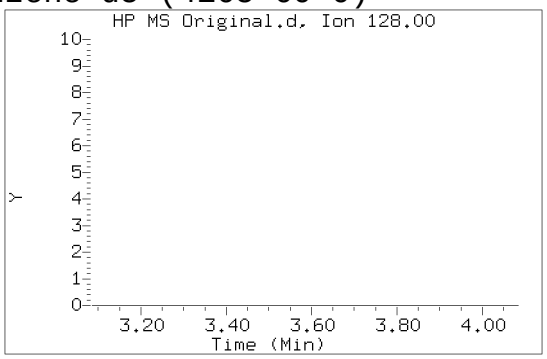
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\14.D
Inj Date : 05-JUL-2023 14:38
InstruID : SV6.i
LabSampID : HS23061707-10

Nitrobenzene-d5 (4165-60-0)

Reason Code:

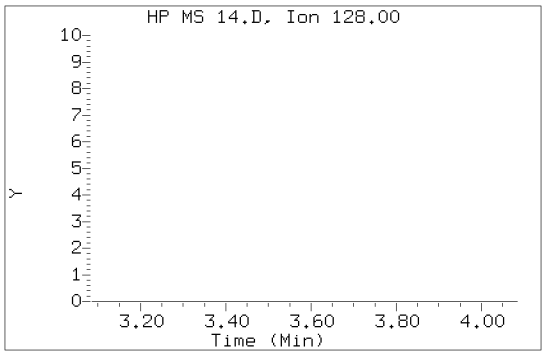
BEFORE

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0
HEIGHT
0
05-Jul-2023
14:54
ALSHS
Server



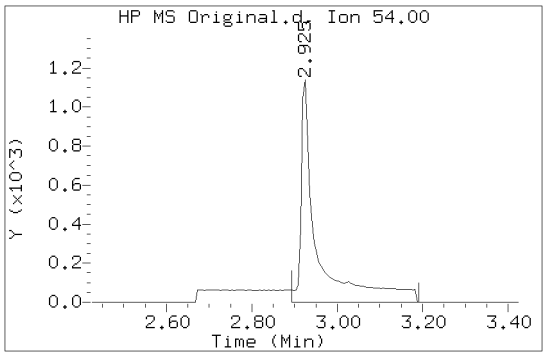
AFTER

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
15:09
ALSHS
Se



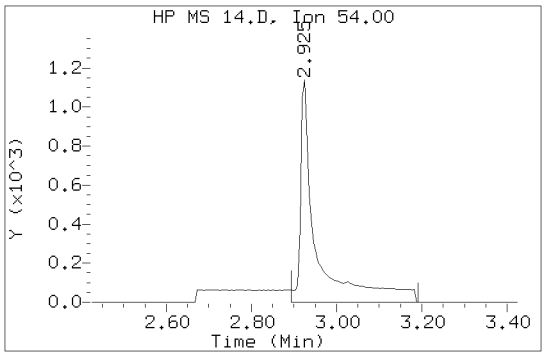
BEFORE

MASS
54
AREA
2908
HEIGHT
1139
05-Jul-2023
14:54
ALSHS
Server



AFTER

MASS
54
AREA
2908
HEIGHT
1139
05-Jul-2023
15:09
ALSHS
Se

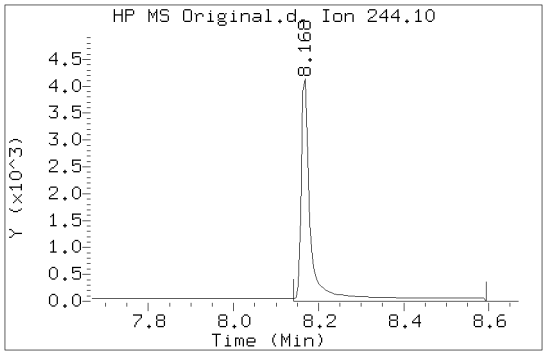


4-Terphenyl-d14 (1718-51-0)

Reason Code:

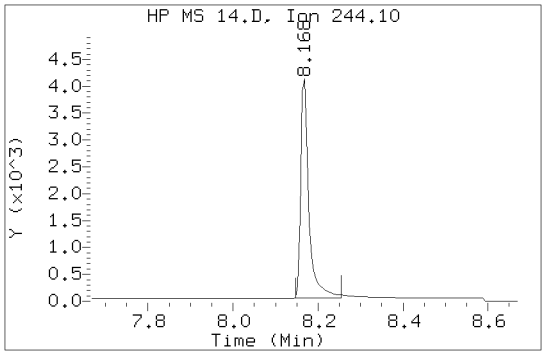
BEFORE

MASS
244.1
AREA
7139
HEIGHT
4138
05-Jul-2023
14:54
ALSHS
Server



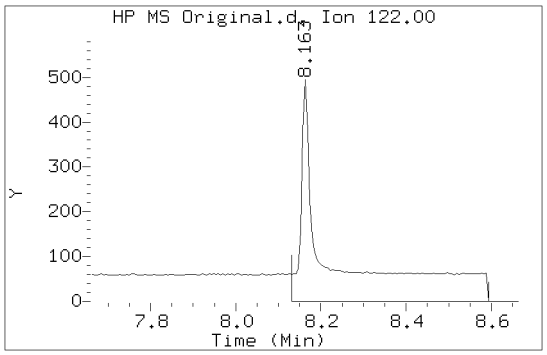
AFTER

MASS
244.1
AREA
5377
HEIGHT
4077
05-Jul-2023
15:09
ALSHS
Se



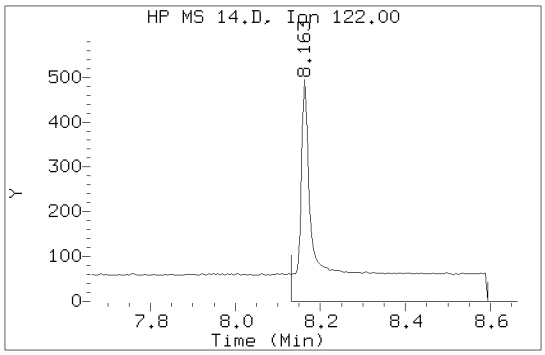
BEFORE

MASS
122
AREA
2259
HEIGHT
495
05-Jul-2023
14:54
ALSHS
Server



AFTER

MASS
122
AREA
2259
HEIGHT
495
05-Jul-2023
15:09
ALSHS
Se



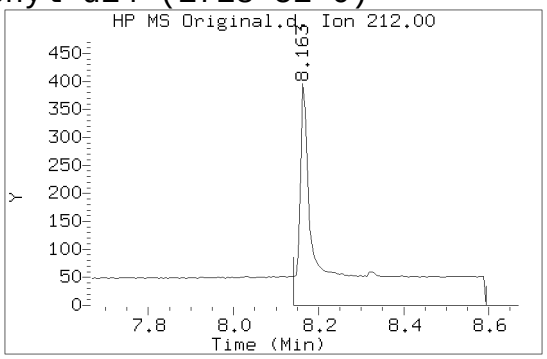
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Inj Date : 05-JUL-2023 14:38
InstruID : SV6.i
LabSampID : HS23061707-10

4-Terphenyl-d14 (1718-51-0)

Reason Code:

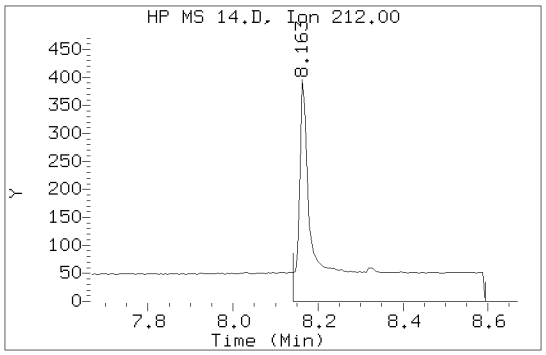
BEFORE

MASS
212
AREA
1839
HEIGHT
396
05-Jul-2023
14:54
ALSHS
Server



AFTER

MASS
212
AREA
1839
HEIGHT
396
05-Jul-2023
15:09
ALSHS
Se

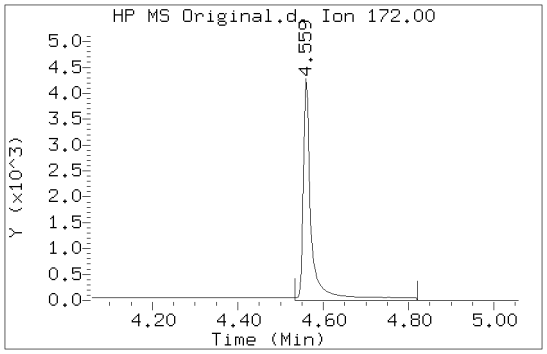


2-Fluorobiphenyl (321-60-8)

Reason Code:

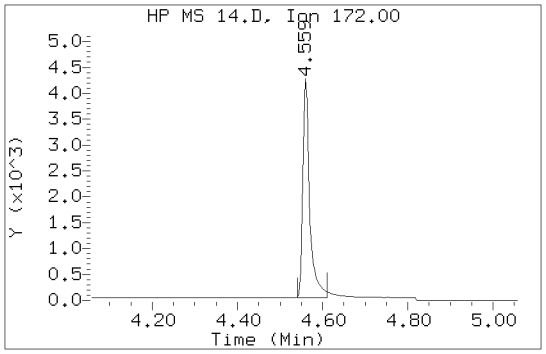
BEFORE

MASS
172
AREA
5866
HEIGHT
4282
05-Jul-2023
14:54
ALSHS
Server



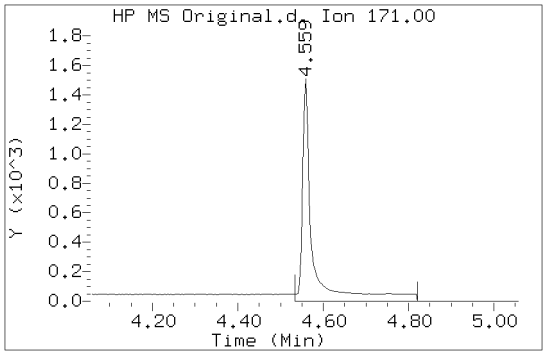
AFTER

MASS
172
AREA
4782
HEIGHT
4231
05-Jul-2023
15:09
ALSHS
Se



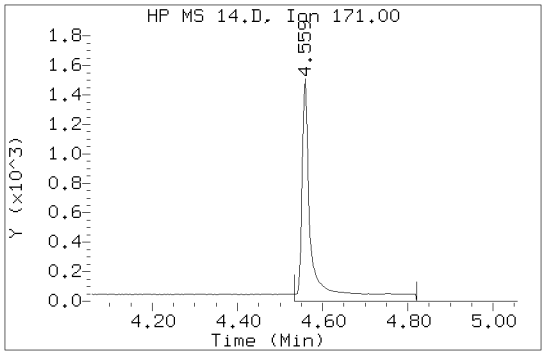
BEFORE

MASS
171
AREA
2514
HEIGHT
1509
05-Jul-2023
14:54
ALSHS
Server



AFTER

MASS
171
AREA
2514
HEIGHT
1509
05-Jul-2023
15:09
ALSHS
Se



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230705.b\21.D
Lab Smp Id: 14DXCCV-END Client Smp ID: 14DXCCV-END
Inj Date : 05-JUL-2023 16:45
Operator : LG Inst ID: SV6.i
Smp Info : 14DXCCV-END
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230705.b\DXSIM.m
Meth Date : 06-Jul-2023 10:15 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

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	2.479	2.479	(1.000)	2698	0.10000	(aM)
* 45 Naphthalene-d8	136	3.534	3.534	(1.000)	8261	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.924	2.924	(0.827)	1758	0.08000	0.07004(QM)
* 86 Acenaphthene-d10	164	5.169	5.169	(1.000)	5896	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.559	4.559	(0.882)	4404	0.08000	0.07304(M)
* 126 Phenanthrene-d10	188	6.587	6.587	(1.000)	9639	0.10000	
* 182 Chrysene-d12	240	9.142	9.142	(1.000)	7334	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.168	8.168	(0.893)	4170	0.08000	0.07707(QM)
* 198 Perylene-d12	264	10.758	10.758	(1.000)	7396	0.10000	(M)
1 1,4-Dioxane	58	0.949	0.949	(0.383)	628	0.08000	0.06860(QM)

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.

01200885

Data File: \\nahstws005\Target\chem\SV6.i\230705.b\21.D

Date : 05-JUL-2023 16:45

Client ID: 14DXCCV-END

Instrument: SV6.i

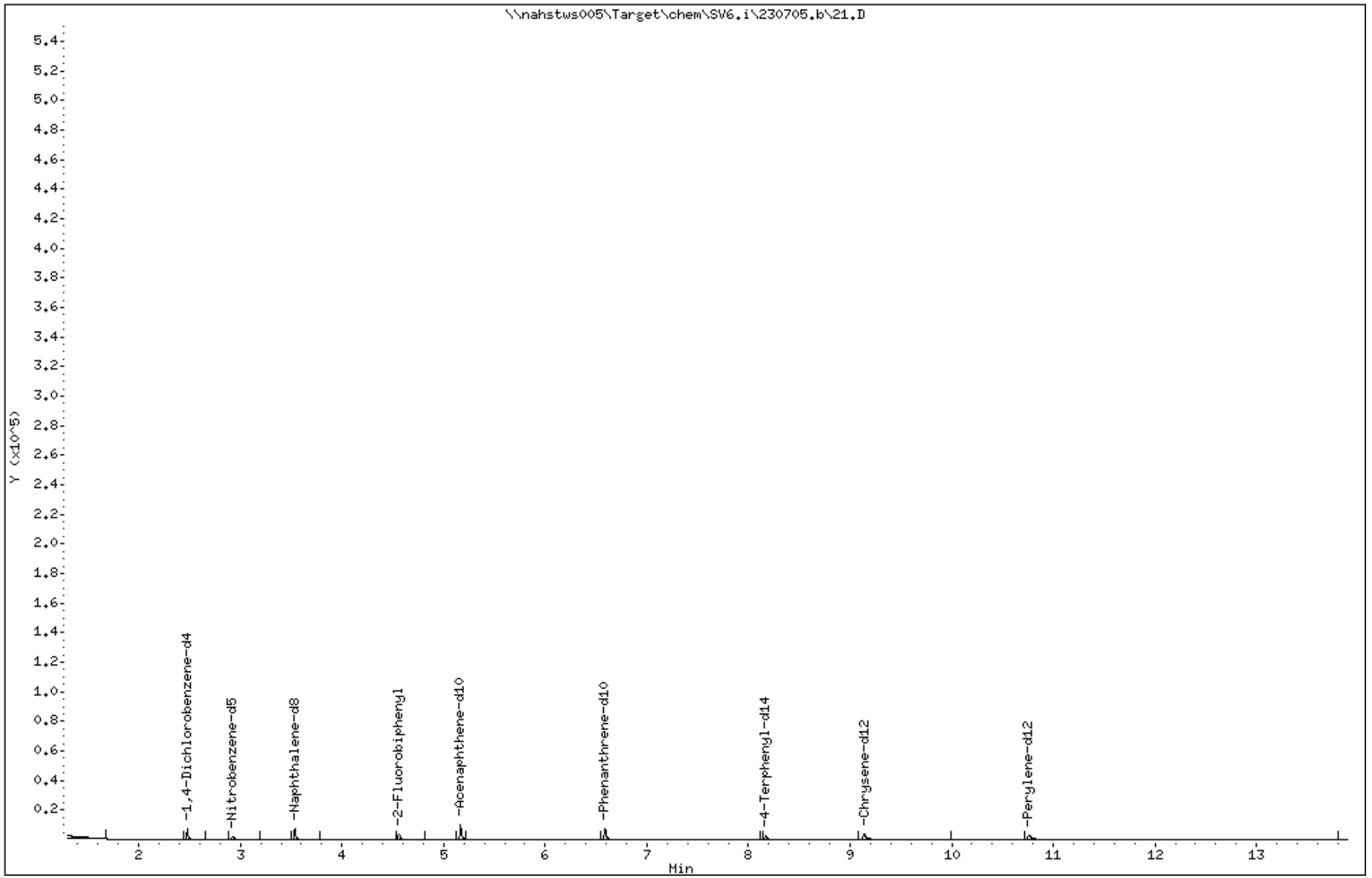
Sample Info: 14DXCCV-END

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



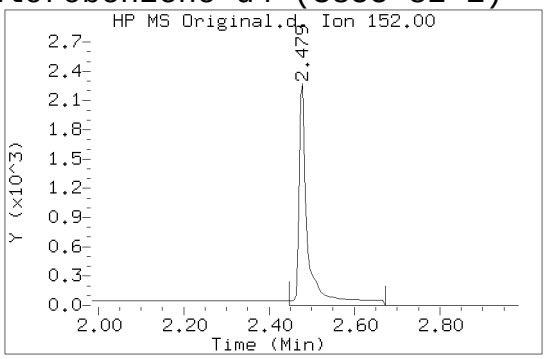
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\21.D
Inj Date : 05-JUL-2023 16:45
InstruID : SV6.i
LabSampID : 14DXCCV-END

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

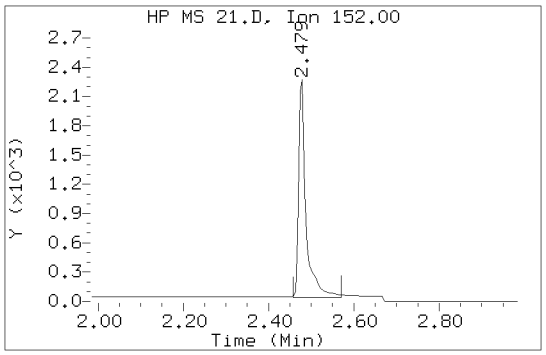
BEFORE

MASS
152
AREA
3309
HEIGHT
2273
05-Jul-2023
17:01
ALSHS
Server



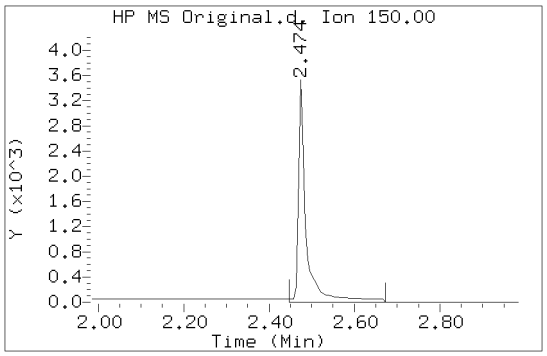
AFTER

MASS
152
AREA
2698
HEIGHT
2236
06-Jul-2023
10:15
ALSHS
Se



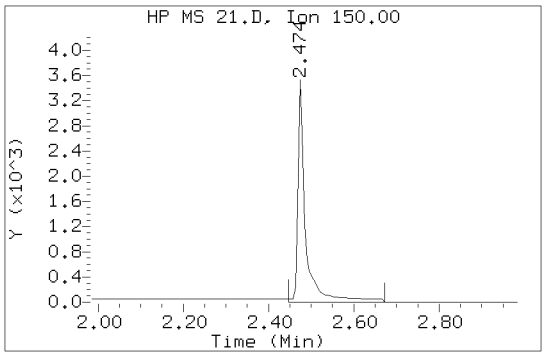
BEFORE

MASS
150
AREA
4459
HEIGHT
3528
05-Jul-2023
17:01
ALSHS
Server



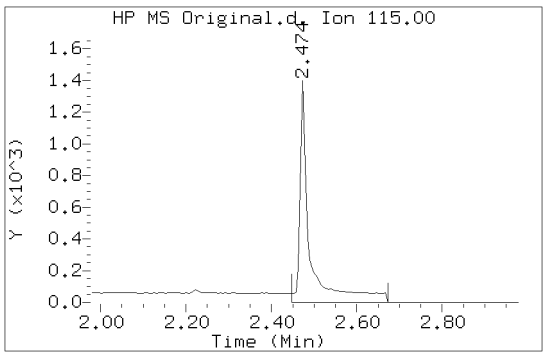
AFTER

MASS
150
AREA
4459
HEIGHT
3528
06-Jul-2023
10:15
ALSHS
Se



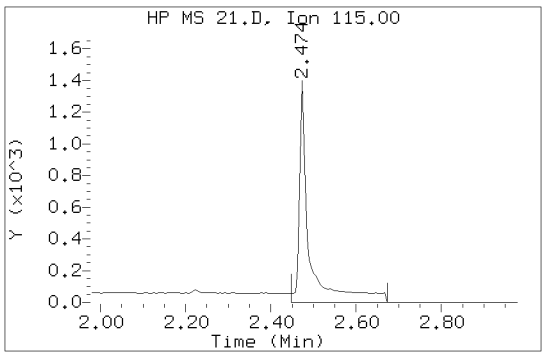
BEFORE

MASS
115
AREA
2224
HEIGHT
1399
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
115
AREA
2224
HEIGHT
1399
06-Jul-2023
10:15
ALSHS
Se

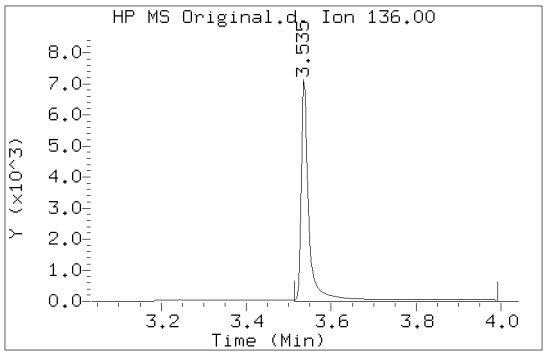


Naphthalene-d8 (1146-65-2)

Reason Code:

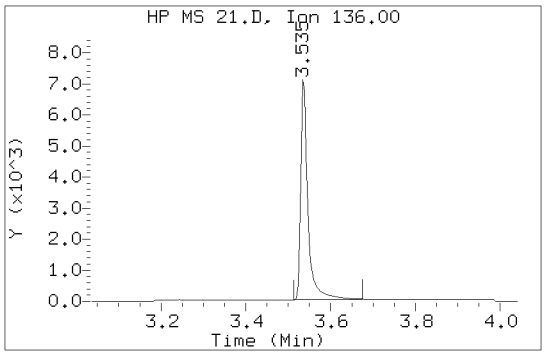
BEFORE

MASS
136
AREA
9869
HEIGHT
7134
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
136
AREA
8261
HEIGHT
7081
06-Jul-2023
10:15
ALSHS
Se



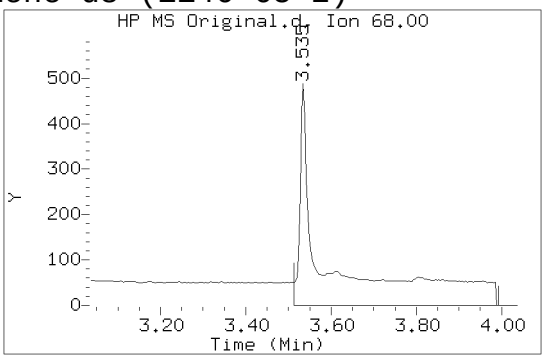
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Inj Date : 05-JUL-2023 16:45
InstruID : SV6.i
LabSampID : 14DXCCV-END

Naphthalene-d8 (1146-65-2)

Reason Code:

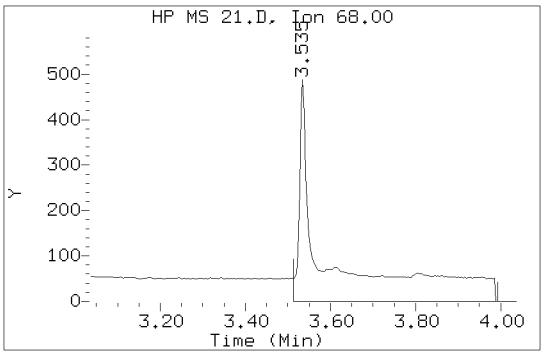
BEFORE

MASS
68
AREA
2072
HEIGHT
488
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
68
AREA
2072
HEIGHT
488
06-Jul-2023
10:15
ALSHS
Se

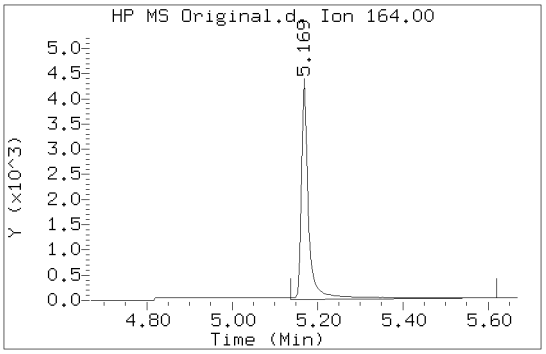


Acenaphthene-d10 (15067-26-2)

Reason Code:

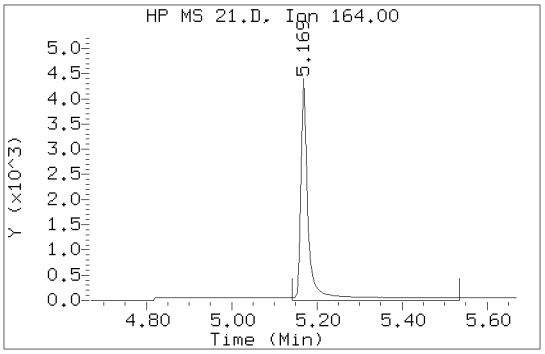
BEFORE

MASS
164
AREA
5316
HEIGHT
4378
05-Jul-2023
17:01
ALSHS
Server



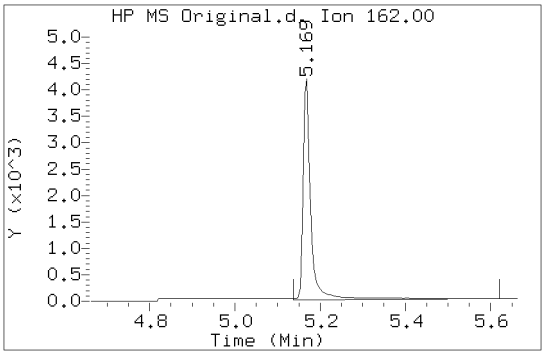
AFTER

MASS
164
AREA
5896
HEIGHT
4393
06-Jul-2023
10:15
ALSHS
Se



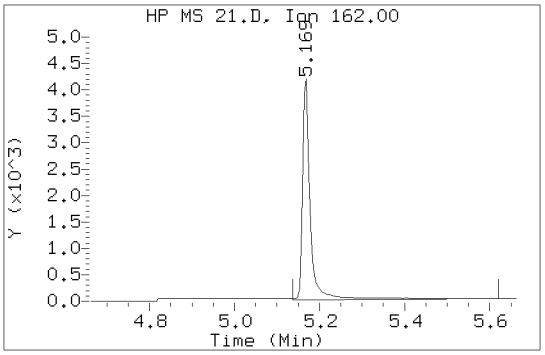
BEFORE

MASS
162
AREA
5414
HEIGHT
4187
05-Jul-2023
17:01
ALSHS
Server



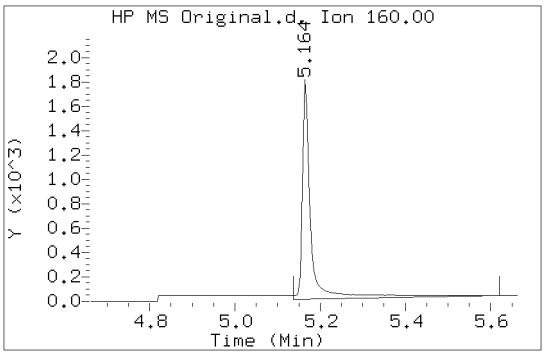
AFTER

MASS
162
AREA
5414
HEIGHT
4187
06-Jul-2023
10:15
ALSHS
Se



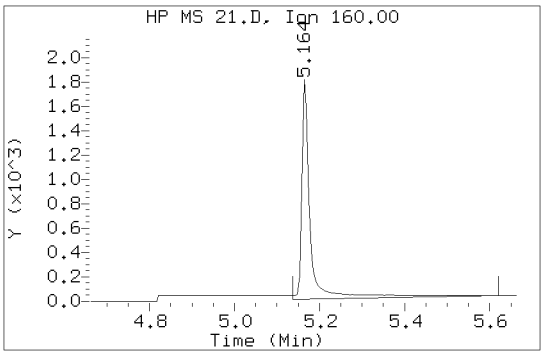
BEFORE

MASS
160
AREA
2505
HEIGHT
1800
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
160
AREA
2505
HEIGHT
1800
06-Jul-2023
10:15
ALSHS
Se



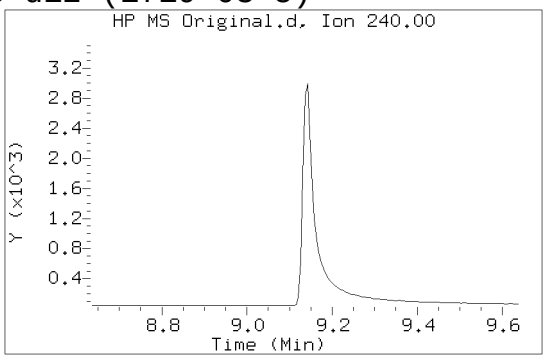
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\21.D
Inj Date : 05-JUL-2023 16:45
InstruID : SV6.i
LabSampID : 14DXCCV-END

Chrysene-d12 (1719-03-5)

Reason Code:

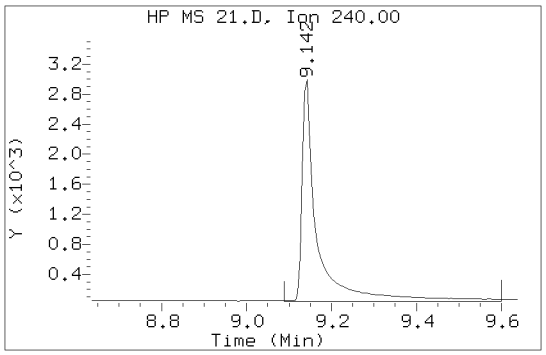
BEFORE

MASS
240
AREA
0
HEIGHT
0
05-Jul-2023
17:01
ALSHS
Server



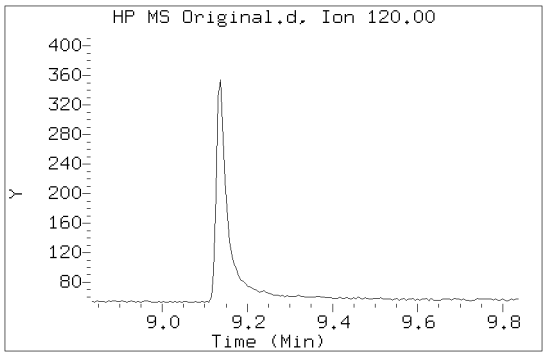
AFTER

MASS
240
AREA
7334
HEIGHT
2950
06-Jul-2023
10:15
ALSHS
Se



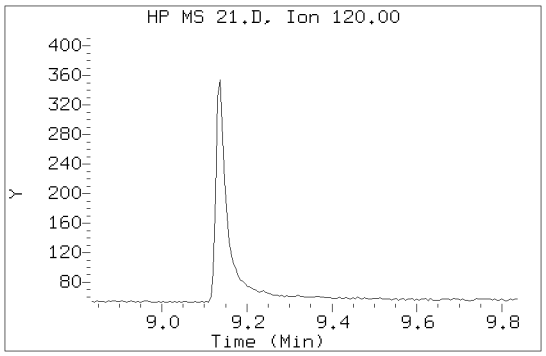
BEFORE

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AREA
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HEIGHT
0
05-Jul-2023
17:01
ALSHS
Server



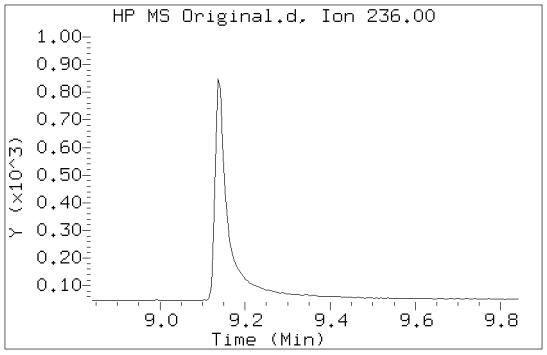
AFTER

MASS
120
AREA
0
HEIGHT
0
06-Jul-2023
10:15
ALSHS
Se



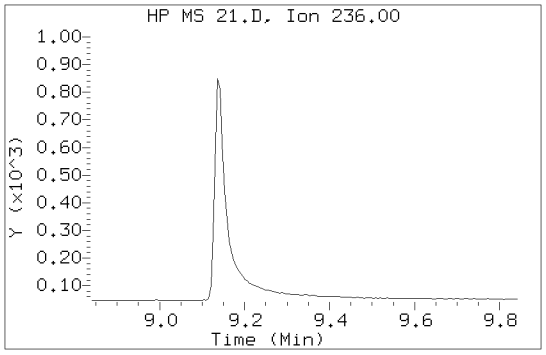
BEFORE

MASS
236
AREA
0
HEIGHT
0
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
06-Jul-2023
10:15
ALSHS
Se

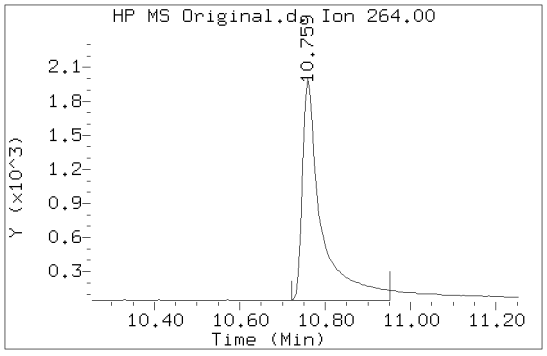


Perylene-d12 (1520-96-3)

Reason Code:

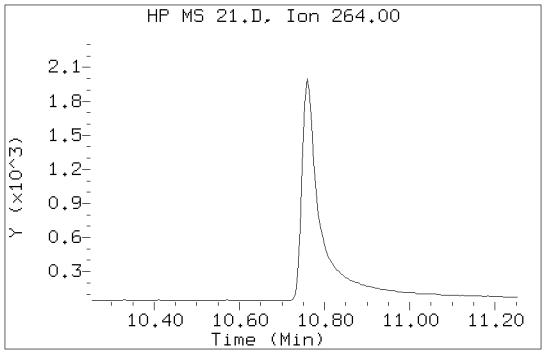
BEFORE

MASS
264
AREA
6008
HEIGHT
1951
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
264
AREA
7396
HEIGHT
1955
06-Jul-2023
10:15
ALSHS
Se



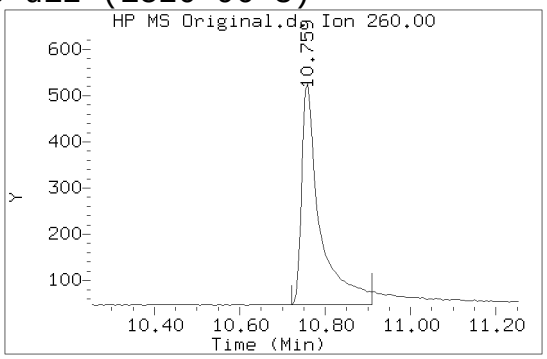
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\21.D
Inj Date : 05-JUL-2023 16:45
InstruID : SV6.i
LabSampID : 14DXCCV-END

Perylene-d12 (1520-96-3)

Reason Code:

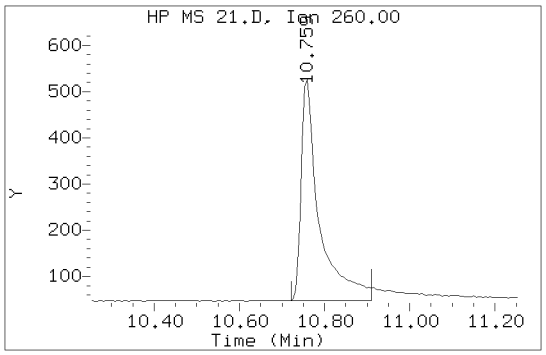
BEFORE

MASS
260
AREA
1416
HEIGHT
479
05-Jul-2023
17:01
ALSHS
Server



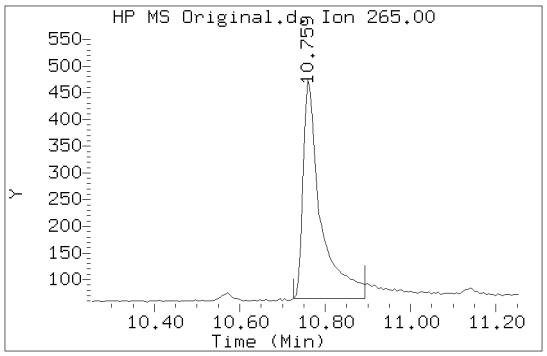
AFTER

MASS
260
AREA
1416
HEIGHT
479
06-Jul-2023
10:15
ALSHS
Se



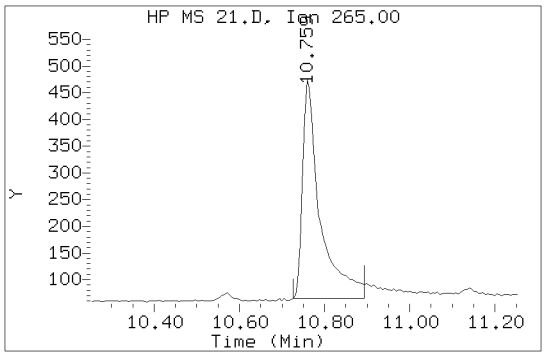
BEFORE

MASS
265
AREA
1164
HEIGHT
409
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
265
AREA
1164
HEIGHT
409
06-Jul-2023
10:15
ALSHS
Se

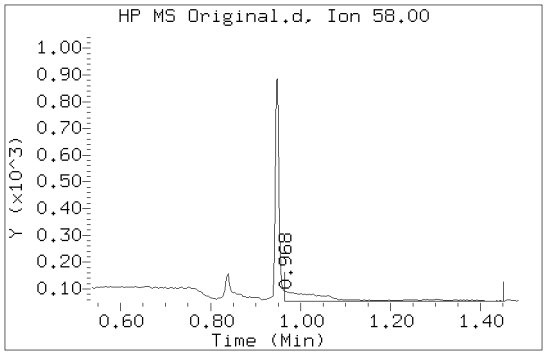


1,4-Dioxane ()

Reason Code:

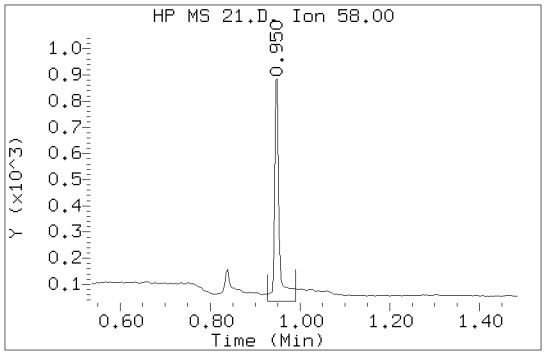
BEFORE

MASS
58
AREA
220
HEIGHT
35
05-Jul-2023
17:01
ALSHS
Server



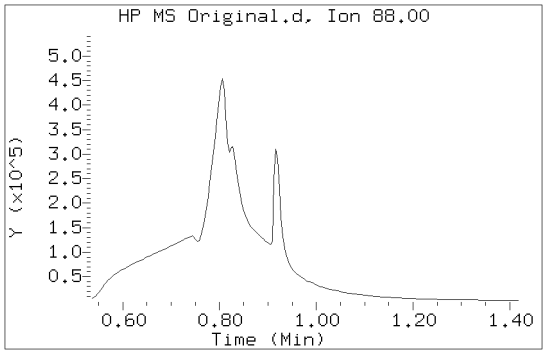
AFTER

MASS
58
AREA
628
HEIGHT
849
06-Jul-2023
10:15
ALSHS
Se



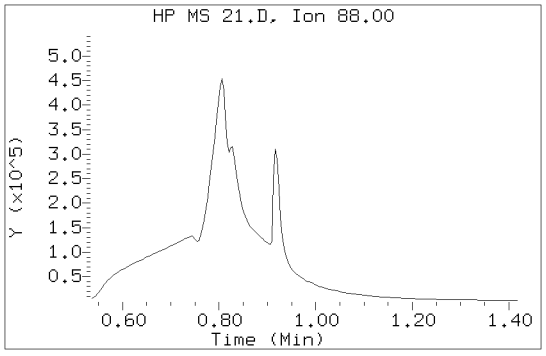
BEFORE

MASS
88
AREA
748004
HEIGHT
308389
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
88
AREA
748004
HEIGHT
308389
06-Jul-2023
10:15
ALSHS
Se



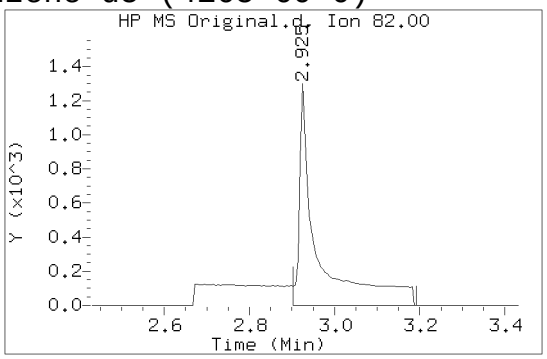
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\21.D
Inj Date : 05-JUL-2023 16:45
InstruID : SV6.i
LabSampID : 14DXCCV-END

Nitrobenzene-d5 (4165-60-0)

Reason Code:

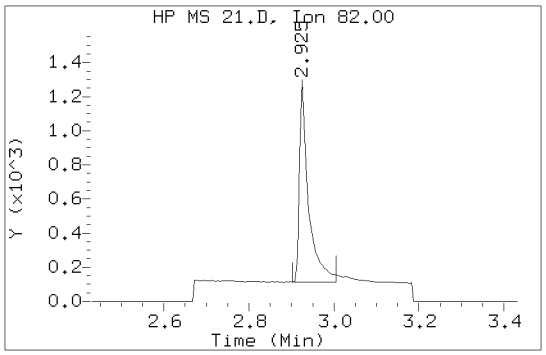
BEFORE

MASS
82
AREA
3744
HEIGHT
1299
05-Jul-2023
17:01
ALSHS
Server



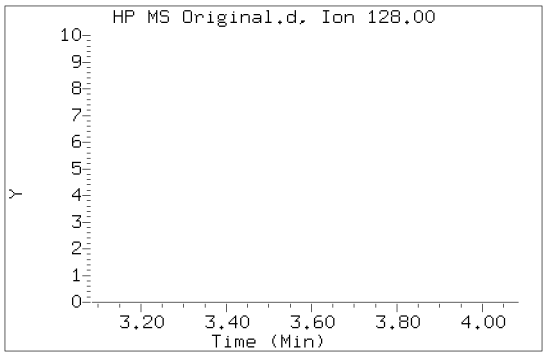
AFTER

MASS
82
AREA
1758
HEIGHT
1186
06-Jul-2023
10:15
ALSHS
Se



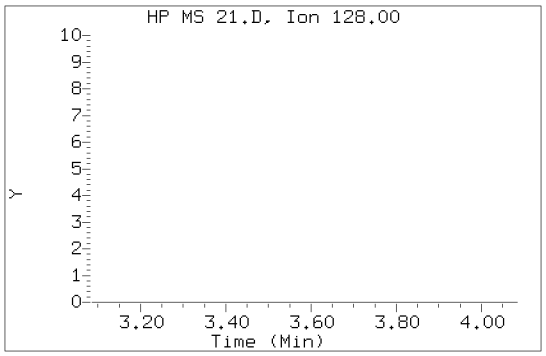
BEFORE

MASS
128
AREA
0
HEIGHT
0
05-Jul-2023
17:01
ALSHS
Server



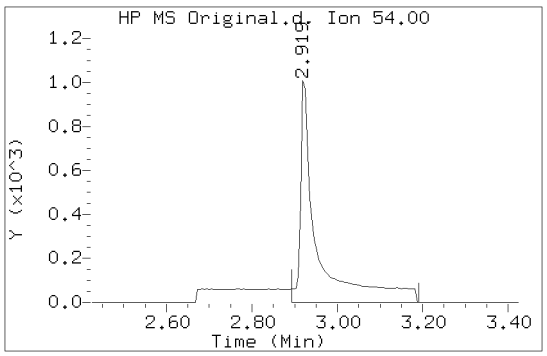
AFTER

MASS
128
AREA
0
HEIGHT
0
06-Jul-2023
10:15
ALSHS
Se



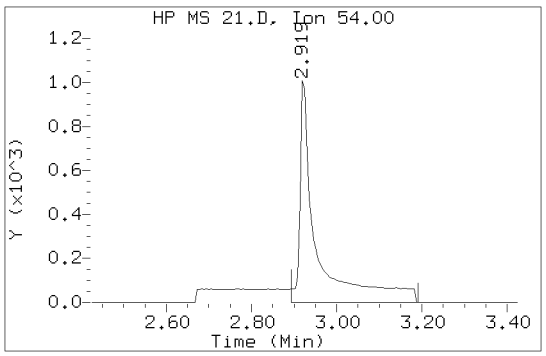
BEFORE

MASS
54
AREA
2696
HEIGHT
1008
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
54
AREA
2696
HEIGHT
1008
06-Jul-2023
10:15
ALSHS
Se

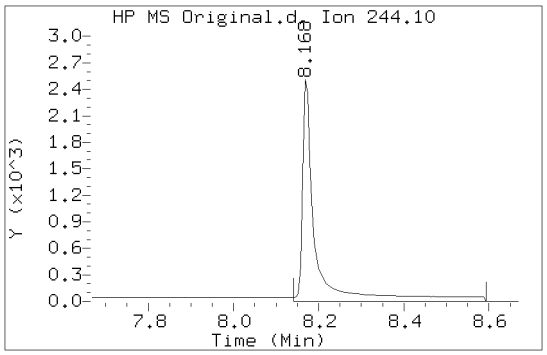


4-Terphenyl-d14 (1718-51-0)

Reason Code:

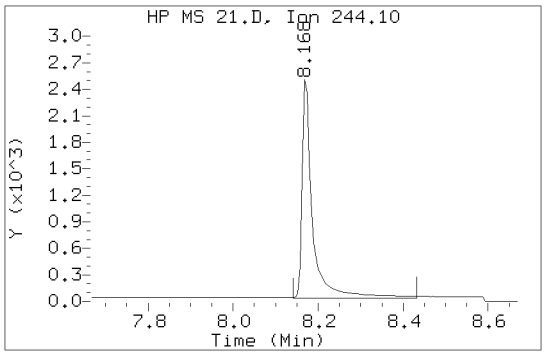
BEFORE

MASS
244.1
AREA
5363
HEIGHT
2509
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
244.1
AREA
4170
HEIGHT
2470
06-Jul-2023
10:15
ALSHS
Se



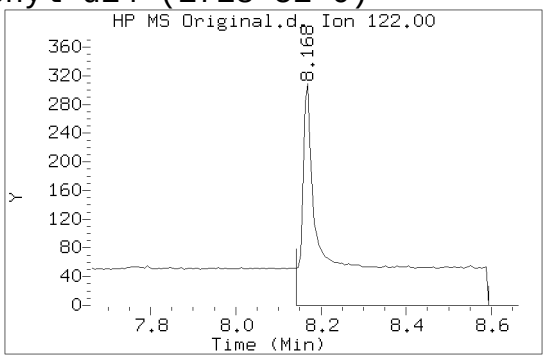
Data File : \\nahstws005\Target\chem\SV6.i\230705.b\21.D
Inj Date : 05-JUL-2023 16:45
InstruID : SV6.i
LabSampID : 14DXCCV-END

4-Terphenyl-d14 (1718-51-0)

Reason Code:

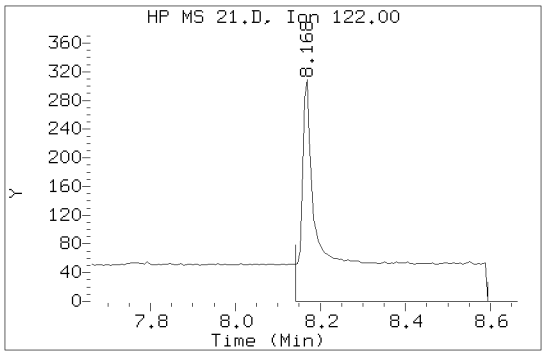
BEFORE

MASS
122
AREA
1819
HEIGHT
309
05-Jul-2023
17:01
ALSHS
Server



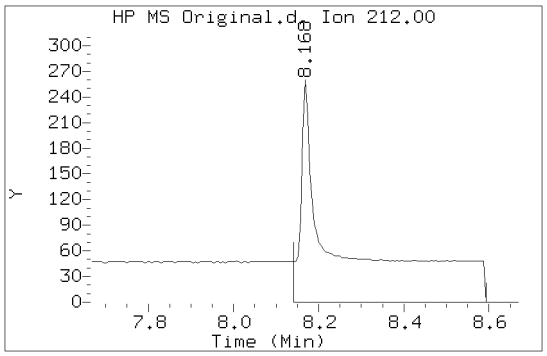
AFTER

MASS
122
AREA
1819
HEIGHT
309
06-Jul-2023
10:15
ALSHS
Se



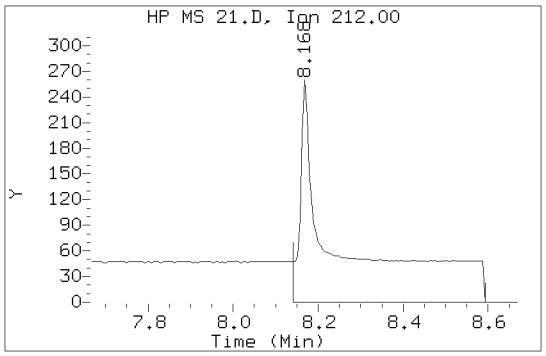
BEFORE

MASS
212
AREA
1623
HEIGHT
260
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
212
AREA
1623
HEIGHT
260
06-Jul-2023
10:15
ALSHS
Se

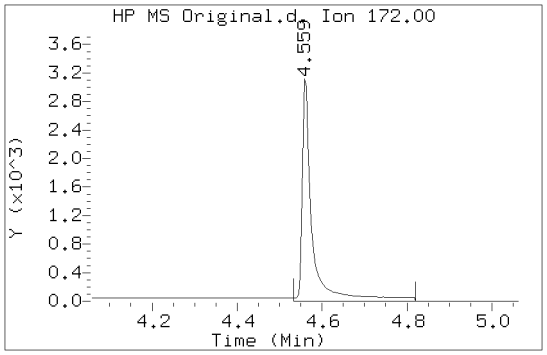


2-Fluorobiphenyl (321-60-8)

Reason Code:

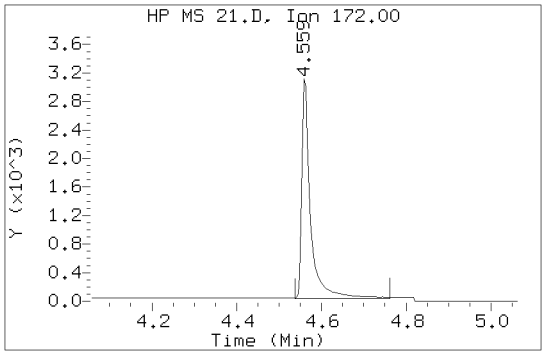
BEFORE

MASS
172
AREA
5088
HEIGHT
3116
05-Jul-2023
17:01
ALSHS
Server



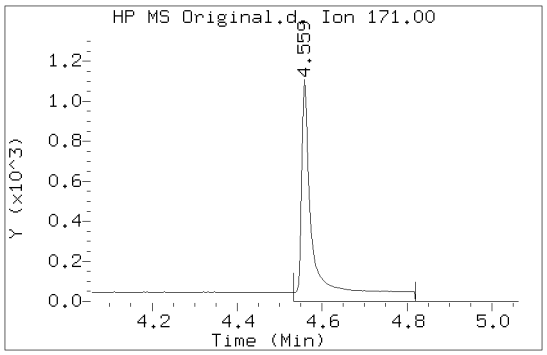
AFTER

MASS
172
AREA
4404
HEIGHT
3080
06-Jul-2023
10:15
ALSHS
Se



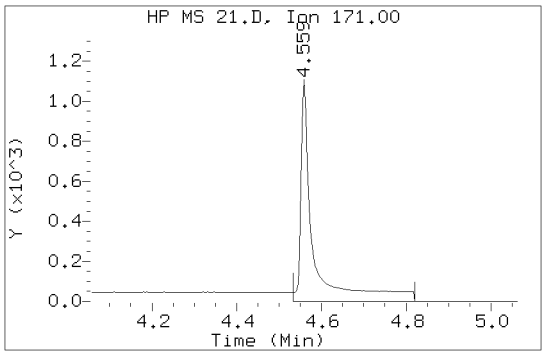
BEFORE

MASS
171
AREA
2252
HEIGHT
1108
05-Jul-2023
17:01
ALSHS
Server



AFTER

MASS
171
AREA
2252
HEIGHT
1108
06-Jul-2023
10:15
ALSHS
Se



HS23061707 - ME - HG_W_DODICP_W_DOD

ALS WO# HS23061707

ALS Houston, US Date: 24-Jul-23

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc. Instrument:ICPMS06
Project: LHAAP Site18/24
WorkOrder: HS23061707

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

ALS Houston, US Date: 24-Jul-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707
Start Date: 19-Jul-2023 End Date: 19-Jul-2023

Run ID:HG04_441752
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICCV 1	1	19-Jul-2023 12:50	_7437732	HG
ICV	1	19-Jul-2023 12:52	_7437733	HG
ICB	1	19-Jul-2023 12:54	_7437734	HG
CRA	1	19-Jul-2023 12:55	_7437735	HG
CCV 2	1	19-Jul-2023 12:58	_7437736	HG
CCB 1	1	19-Jul-2023 13:00	HG04_441752 Raw Data_7437709	HG
CCV 3	1	19-Jul-2023 13:25	_7437720	HG
CCB 2	1	19-Jul-2023 13:27	_7437721	HG
CCV 4	1	19-Jul-2023 14:01	_7437737	HG
CCB 3	1	19-Jul-2023 14:02	_7437738	HG
CCV 5	1	19-Jul-2023 14:26	_7437744	HG
CCB 4	1	19-Jul-2023 14:33	_7437745	HG
CCV 6	1	19-Jul-2023 14:58	_7437916	HG
CCB 5	1	19-Jul-2023 15:00	_7437917	HG
CCV 7	1	19-Jul-2023 15:25	_7437936	HG
CCB 6	1	19-Jul-2023 15:27	_7437937	HG
CCV 8	1	19-Jul-2023 15:53	_7437946	HG
CCB 7	1	19-Jul-2023 15:54	_7437947	HG
MBLK-197746	1	19-Jul-2023 16:03	_7438123	HG
LCS-197746	1	19-Jul-2023 16:05	_7438124	HG
18WW19_062323	1	19-Jul-2023 16:06	_7438125	HG
18WW19_062323MS	1	19-Jul-2023 16:08	_7438126	HG
18WW19_062323MSD	1	19-Jul-2023 16:12	_7438127	HG
18WW19_062323_a	1	19-Jul-2023 16:14	_7438128	HG
18WW20_062323	1	19-Jul-2023 16:16	_7438129	HG
18WW09_062323	1	19-Jul-2023 16:17	_7438130	HG
MW19_062323	1	19-Jul-2023 16:19	_7438131	HG
CCV 9	1	19-Jul-2023 16:24	_7438132	HG
CCB 8	1	19-Jul-2023 16:26	_7438133	HG
CCV 10	1	19-Jul-2023 16:57	_7438144	HG
CCB 9	1	19-Jul-2023 16:59	_7438145	HG
CCV 11	1	19-Jul-2023 17:24	_7438287	HG
CCB 10	1	19-Jul-2023 17:25	_7438288	HG
CCV 12	1	19-Jul-2023 17:37	_7438291	HG
CCB 11	1	19-Jul-2023 17:39	_7438292	HG

ALS Houston, US

Date: 24-Jul-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707
Start Date: 07-Jul-2023 End Date: 07-Jul-2023

Run ID:ICPMS06_440735
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS06_440735_Tune	1	07-Jul-2023 00:00	ICPMS06_440735_Tune_1	
CAL BLK	1	07-Jul-2023 11:02	015CALB.d_7406350	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	07-Jul-2023 11:04	016CALS.d_7406351	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	07-Jul-2023 11:06	017CALS.d_7406352	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	07-Jul-2023 11:08	018CALS.d_7406353	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	07-Jul-2023 11:10	019CALS.d_7406354	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	07-Jul-2023 11:12	020CALS.d_7406355	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	07-Jul-2023 11:18	022_ICV.d_7406357	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	07-Jul-2023 11:22	024LCV2.d_7406359	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	07-Jul-2023 11:24	025LCV5.d_7406360	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	07-Jul-2023 11:26	026_ICB.d_7406361	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	07-Jul-2023 11:34	028ICSA.d_7406363	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	07-Jul-2023 11:36	029ICSB.d_7406364	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	07-Jul-2023 16:51	146_CCV.d_7407789	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	07-Jul-2023 16:52	147_CCB.d_7407790	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-197198	1	07-Jul-2023 16:55	148SMPL.d_7407791	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-197198	1	07-Jul-2023 16:57	149SMPL.d_7407792	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI SB SE V ZN
ZZZZZZSD	5	07-Jul-2023 17:01	151SMPL.d_7407794	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
ZZZZZZMS	1	07-Jul-2023 17:03	152SMPL.d_7407795	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI SB SE V ZN
ZZZZZZMSD	1	07-Jul-2023 17:05	153SMPL.d_7407796	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZPDS	1	07-Jul-2023 17:07	154SMPL.d_7407797	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
CCV 2	1	07-Jul-2023 17:09	155_CCV.d_7407798	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	07-Jul-2023 17:11	156_CCB.d_7407799	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW19_062323	1	07-Jul-2023 17:29	161SMPL.d_7407804	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW19_062323_a	1	07-Jul-2023 17:31	162SMPL.d_7407805	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW20_062323	1	07-Jul-2023 17:33	163SMPL.d_7407806	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW09_062323	1	07-Jul-2023 17:35	164SMPL.d_7407807	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MW19_062323	1	07-Jul-2023 17:37	165SMPL.d_7407808	AG AL AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V ZN
CCV 3	1	07-Jul-2023 17:41	167_CCV.d_7407810	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	07-Jul-2023 17:43	168_CCB.d_7407811	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMS	1	07-Jul-2023 18:09	175SMPL.d_7407889	PB TL
CCV 4	1	07-Jul-2023 18:17	179_CCV.d_7407890	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 24-Jul-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707
Start Date: 07-Jul-2023 End Date: 07-Jul-2023

Run ID:ICPMS06_440735
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
CCB 4	1	07-Jul-2023 18:19	180_CCB.d_7407891	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 5	1	07-Jul-2023 18:24	182_CCV.d_7407893	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 6	1	07-Jul-2023 18:26	183_CCV.d_7407894	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-197198	1	07-Jul-2023 18:28	184SMPL.d_7407895	PB TL
ZZZZZZSD	100	07-Jul-2023 18:34	187SMPL.d_7407898	NA
ZZZZZZPDS	20	07-Jul-2023 18:36	188SMPL.d_7407899	NA
MW19_062323	20	07-Jul-2023 18:42	191SMPL.d_7407902	MN NA
CCV 7	1	07-Jul-2023 18:46	193_CCV.d_7407904	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	07-Jul-2023 18:48	194_CCB.d_7407905	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID: HG04_441752
Instrument: HG04
Method: SW7470A

ICCV1	Date: 19-Jul-2023 12:50	Seq: 7437732	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5	100	90-110	

ICV	Date: 19-Jul-2023 12:52	Seq: 7437733	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.03	101	90-110	

CCV2	Date: 19-Jul-2023 12:58	Seq: 7437736	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.77	95	90-110	

CCV3	Date: 19-Jul-2023 13:25	Seq: 7437720	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.73	95	90-110	

CCV4	Date: 19-Jul-2023 14:01	Seq: 7437737	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.74	95	90-110	

CCV5	Date: 19-Jul-2023 14:26	Seq: 7437744	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.8	96	90-110	

CCV6	Date: 19-Jul-2023 14:58	Seq: 7437916	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.91	98	90-110	

CCV7	Date: 19-Jul-2023 15:25	Seq: 7437936	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.94	99	90-110	

CCV8	Date: 19-Jul-2023 15:53	Seq: 7437946	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.9	98	90-110	

CCV9	Date: 19-Jul-2023 16:24	Seq: 7438132	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.92	98	90-110	

CCV10	Date: 19-Jul-2023 16:57	Seq: 7438144	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.93	99	90-110	

CCV11	Date: 19-Jul-2023 17:24	Seq: 7438287	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.92	98	90-110	

CCV12	Date: 19-Jul-2023 17:37	Seq: 7438291	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.9	98	90-110	

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

ICV Date: 07-Jul-2023 11:18 Seq: 7406357 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	95.928	96	90-110	
Antimony	100	95.85	96	90-110	
Arsenic	100	96.027	96	90-110	
Barium	100	97.543	98	90-110	
Beryllium	100	99.339	99	90-110	
Cadmium	100	97.941	98	90-110	
Calcium	10000	9845.519	99	90-110	
Chromium	100	96.572	97	90-110	
Cobalt	100	95.214	95	90-110	
Copper	100	95.769	96	90-110	
Iron	10000	9757.482	98	90-110	
Lead	100	97.048	97	90-110	
Magnesium	10000	9692.126	97	90-110	
Manganese	100	98.222	98	90-110	
Nickel	100	98.251	98	90-110	
Potassium	10000	9775.407	98	90-110	
Selenium	100	94.041	94	90-110	
Silver	100	100.798	101	90-110	
Sodium	10000	9600.424	96	90-110	
Thallium	100	99.697	100	90-110	
Vanadium	100	96.536	97	90-110	
Zinc	100	98.521	99	90-110	

CCV1 Date: 07-Jul-2023 16:51 Seq: 7407789 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.967	97	90-110	
Antimony	100	93.554	94	90-110	
Arsenic	100	96.259	96	90-110	
Barium	100	97.146	97	90-110	
Beryllium	100	100.306	100	90-110	
Cadmium	100	96.943	97	90-110	
Calcium	10000	10024.796	100	90-110	
Chromium	100	96.647	97	90-110	
Cobalt	100	94.194	94	90-110	
Copper	100	95.241	95	90-110	
Iron	10000	9933.997	99	90-110	
Lead	100	97.123	97	90-110	
Magnesium	10000	9949.105	100	90-110	
Manganese	100	97.648	98	90-110	
Nickel	100	96.737	97	90-110	
Potassium	10000	9992.364	100	90-110	
Selenium	100	96.132	96	90-110	
Silver	100	97.479	98	90-110	
Sodium	10000	9842.163	98	90-110	
Thallium	100	104.859	105	90-110	
Vanadium	100	96.032	96	90-110	
Zinc	100	97.806	98	90-110	

CCV2 Date: 07-Jul-2023 17:09 Seq: 7407798 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.486	97	90-110	
Antimony	100	94.88	95	90-110	
Arsenic	100	94.863	95	90-110	
Barium	100	96.72	97	90-110	
Beryllium	100	98.015	98	90-110	

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCV2 Date: 07-Jul-2023 17:09 Seq: 7407798 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	96.67	97	90-110	
Calcium	10000	9911.426	99	90-110	
Chromium	100	95.431	95	90-110	
Cobalt	100	94.073	94	90-110	
Copper	100	94.639	95	90-110	
Iron	10000	9743.424	97	90-110	
Lead	100	95.099	95	90-110	
Magnesium	10000	9860.753	99	90-110	
Manganese	100	98.051	98	90-110	
Nickel	100	95.948	96	90-110	
Potassium	10000	9854.869	99	90-110	
Selenium	100	96.268	96	90-110	
Silver	100	98.173	98	90-110	
Sodium	10000	9610.457	96	90-110	
Thallium	100	101.923	102	90-110	
Vanadium	100	95.312	95	90-110	
Zinc	100	96.096	96	90-110	

CCV3 Date: 07-Jul-2023 17:41 Seq: 7407810 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.082	96	90-110	
Antimony	100	94.381	94	90-110	
Arsenic	100	95.525	96	90-110	
Barium	100	96.312	96	90-110	
Beryllium	100	93.775	94	90-110	
Cadmium	100	95.693	96	90-110	
Calcium	10000	9905.042	99	90-110	
Chromium	100	95.844	96	90-110	
Cobalt	100	93.748	94	90-110	
Copper	100	94.585	95	90-110	
Iron	10000	9696.028	97	90-110	
Lead	100	94.464	95	90-110	
Magnesium	10000	9789.42	98	90-110	
Manganese	100	97.164	97	90-110	
Nickel	100	96.989	97	90-110	
Potassium	10000	9893.658	99	90-110	
Selenium	100	96.295	96	90-110	
Silver	100	99.577	100	90-110	
Sodium	10000	9766.464	98	90-110	
Thallium	100	102.411	102	90-110	
Vanadium	100	95.574	96	90-110	
Zinc	100	96.182	96	90-110	

CCV4 Date: 07-Jul-2023 18:17 Seq: 7407890 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	154.727	155	90-110	S
Antimony	100	75.521	76	90-110	S
Arsenic	100	118.911	119	90-110	S
Barium	100	96.775	97	90-110	
Beryllium	100	98.513	99	90-110	
Cadmium	100	97.962	98	90-110	
Calcium	10000	87836.149	878	90-110	S
Chromium	100	144.273	144	90-110	S
Cobalt	100	80.013	80	90-110	S
Copper	100	105.454	105	90-110	

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCV4 Date: 07-Jul-2023 18:17 Seq: 7407890 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	8681.63	87	90-110	S
Lead	100	97.643	98	90-110	
Magnesium	10000	34834.915	348	90-110	S
Manganese	100	93.109	93	90-110	
Nickel	100	92.05	92	90-110	
Potassium	10000	69075.191	691	90-110	S
Selenium	100	609.697	610	90-110	S
Silver	100	98.823	99	90-110	
Sodium	10000	111559.603	1120	90-110	S
Thallium	100	98.951	99	90-110	
Vanadium	100	83.099	83	90-110	S
Zinc	100	66.786	67	90-110	S

CCV5 Date: 07-Jul-2023 18:24 Seq: 7407893 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.309	97	90-110	
Antimony	100	95.06	95	90-110	
Arsenic	100	92.38	92	90-110	
Barium	100	94.656	95	90-110	
Beryllium	100	95.36	95	90-110	
Cadmium	100	96.008	96	90-110	
Calcium	10000	9720.91	97	90-110	
Chromium	100	93.631	94	90-110	
Cobalt	100	91.237	91	90-110	
Copper	100	93.291	93	90-110	
Iron	10000	9468.719	95	90-110	
Lead	100	94.516	95	90-110	
Magnesium	10000	9581.234	96	90-110	
Manganese	100	95.1	95	90-110	
Nickel	100	94.899	95	90-110	
Potassium	10000	9627.413	96	90-110	
Selenium	100	94.187	94	90-110	
Silver	100	97.636	98	90-110	
Sodium	10000	9492.555	95	90-110	
Thallium	100	94.775	95	90-110	
Vanadium	100	93.469	94	90-110	
Zinc	100	93.922	94	90-110	

CCV6 Date: 07-Jul-2023 18:26 Seq: 7407894 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.84	98	90-110	
Antimony	100	94.709	95	90-110	
Arsenic	100	94.172	94	90-110	
Barium	100	94.451	95	90-110	
Beryllium	100	95.589	96	90-110	
Cadmium	100	95.251	95	90-110	
Calcium	10000	9795.53	98	90-110	
Chromium	100	95.1	95	90-110	
Cobalt	100	93.122	93	90-110	
Copper	100	93.956	94	90-110	
Iron	10000	9558.84	96	90-110	
Lead	100	94.956	95	90-110	
Magnesium	10000	9725.778	97	90-110	
Manganese	100	96.071	96	90-110	
Nickel	100	95.413	95	90-110	

ALS Houston, US Date: 24-Jul-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCV6 Date: 07-Jul-2023 18:26 Seq: 7407894 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9586.907	96	90-110	
Selenium	100	94.961	95	90-110	
Silver	100	97.389	97	90-110	
Sodium	10000	9486.701	95	90-110	
Thallium	100	97.218	97	90-110	
Vanadium	100	94.202	94	90-110	
Zinc	100	95.54	96	90-110	

CCV7 Date: 07-Jul-2023 18:46 Seq: 7407904 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.052	98	90-110	
Antimony	100	95.655	96	90-110	
Arsenic	100	94.22	94	90-110	
Barium	100	96.256	96	90-110	
Beryllium	100	98.245	98	90-110	
Cadmium	100	95.629	96	90-110	
Calcium	10000	9885.781	99	90-110	
Chromium	100	94.781	95	90-110	
Cobalt	100	93.674	94	90-110	
Copper	100	94.182	94	90-110	
Iron	10000	9645.921	97	90-110	
Lead	100	96.017	96	90-110	
Magnesium	10000	9705.563	97	90-110	
Manganese	100	97.002	97	90-110	
Nickel	100	95.074	95	90-110	
Potassium	10000	9625.947	96	90-110	
Selenium	100	95.087	95	90-110	
Silver	100	96.816	97	90-110	
Sodium	10000	9566.744	96	90-110	
Thallium	100	97.186	97	90-110	
Vanadium	100	94.518	95	90-110	
Zinc	100	96.421	96	90-110	

ALS Houston, US Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID: HG04_441752
Instrument: HG04
Method: SW7470A

ICB	Date: 19-Jul-2023 12:54	Seq: 7437734	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB1	Date: 19-Jul-2023 13:00	Seq: 7437709	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB2	Date: 19-Jul-2023 13:27	Seq: 7437721	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB3	Date: 19-Jul-2023 14:02	Seq: 7437738	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB4	Date: 19-Jul-2023 14:33	Seq: 7437745	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB5	Date: 19-Jul-2023 15:00	Seq: 7437917	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB6	Date: 19-Jul-2023 15:27	Seq: 7437937	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB7	Date: 19-Jul-2023 15:54	Seq: 7437947	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

MBLK-197746	Date: 19-Jul-2023 16:03	Seq: 7438123	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.061	0.03	0.2	J

CCB8	Date: 19-Jul-2023 16:26	Seq: 7438133	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB9	Date: 19-Jul-2023 16:59	Seq: 7438145	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB10	Date: 19-Jul-2023 17:25	Seq: 7438288	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

CCB11	Date: 19-Jul-2023 17:39	Seq: 7438292	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Mercury	0.2	0.03	0.2	U

ALS Houston, US

Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

ICB	Date: 07-Jul-2023 11:26		Seq: 7406361	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	0.746	0.7	5	J	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB1	Date: 07-Jul-2023 16:52		Seq: 7407790	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	22.18	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-197198	Date: 07-Jul-2023 16:55		Seq: 7407791	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	

ALS Houston, US

Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

MBLK-197198	Date: 07-Jul-2023 16:55		Seq: 7407791	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	0.737	0.7	5	J	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	26.11	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB2	Date: 07-Jul-2023 17:11		Seq: 7407799	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.422	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	19.59	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	40.23	14	200	J	
Thallium	0.238	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB3	Date: 07-Jul-2023 17:43		Seq: 7407811	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

ALS Houston, US

Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCB3	Date: 07-Jul-2023 17:43		Seq: 7407811	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	36.07	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	75.66	14	200	J	
Thallium	0.231	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 07-Jul-2023 18:19		Seq: 7407891	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	17.55	14	200	J	
Thallium	0.599	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 07-Jul-2023 18:48		Seq: 7407905	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	

ALS Houston, US Date: 24-Jul-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID: ICPMS06_440735
Instrument: ICPMS06
Method: SW6020A

CCB5 Date: 07-Jul-2023 18:48 Seq: 7407905 CCB Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Potassium	200	18	200	U
Selenium	2	1.1	2	U
Silver	2	0.2	2	U
Sodium	200	14	200	U
Thallium	0.805	0.2	2	J
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US Date: 24-Jul-23

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Run ID:ICPMS06_440735
Instrument:ICPMS06
Method:SW6020A

ICSA	Date: 07-Jul-2023 11:34	Seq: 7406363	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	90970	91.0	
Antimony		0.248	0	
Arsenic		0.305	0	
Barium		0.611	0	
Beryllium		0	0	
Cadmium		0.344	0	
Calcium	100000	95450	95.4	
Chromium		1.563	0	
Cobalt		0.516	0	
Copper		0.153	0	
Iron	100000	98720	98.7	
Lead		0.158	0	
Magnesium	100000	98790	98.8	
Manganese		1.062	0	
Nickel		0.874	0	
Potassium	100000	99550	99.6	
Selenium		-0.158	0	
Silver		0.156	0	
Sodium	100000	97060	97.1	
Thallium		0.014	0	
Vanadium		0.174	0	
Zinc		2.591	0	

ICSAB	Date: 07-Jul-2023 11:36	Seq: 7406364	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	90290	89.8	
Antimony	100	98.35	98.4	
Arsenic	100	98.97	99.0	
Barium	100	100.3	100	
Beryllium	100	99.92	99.9	
Cadmium	100	98.91	98.9	
Calcium	110000	103400	94.0	
Chromium	100	99.43	99.4	
Cobalt	100	96.62	96.6	
Copper	100	95.98	96.0	
Iron	110000	108100	98.2	
Lead	100	101.2	101	
Magnesium	110000	107800	98.0	
Manganese	100	99.86	99.9	
Nickel	100	96.7	96.7	
Potassium	110000	108100	98.2	
Selenium	100	97.5	97.5	
Silver	100	98.18	98.2	
Sodium	110000	106700	97.0	
Thallium	100	100.3	100	
Vanadium	100	98.73	98.7	
Zinc	100	100.2	100	

ALS Houston, US Date: 24-Jul-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Date Analyzed: 19-Jul-2023 16:12
Date Extracted: 19-Jul-2023 09:00
Units: ug/L

Matrix Spike: HS23061707-01MS
Client Sample ID: 18WW19_062323

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.04200	4.610	5.000	91.4	4.450	5.000	88.2	82-119	3.53	20

ALS Houston, US Date: 24-Jul-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Date Analyzed: 07-Jul-2023 17:05
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Matrix Spike: HS23061712-08MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	5.422	95.09	100.0	89.7	96.07	100.0	90.7	84-117	1.03	20
Antimony	5.000	45.05	50.00	89.9	45.92	50.00	91.6	85-117	1.91	20
Arsenic	5.000	45.42	50.00	90.5	46.24	50.00	92.2	84-116	1.79	20
Barium	493.7	517.8	50.00	48.1	533.1	50.00	78.8	86-114	2.92	20
Beryllium	2.000	47.78	50.00	95.6	47.02	50.00	94.0	83-121	1.61	20
Cadmium	2.000	44.69	50.00	89.1	46.00	50.00	91.8	87-115	2.90	20
Calcium	24200	28510	5000	86.1	29100	5000	97.9	87-118	2.05	20
Chromium	21.75	65.21	50.00	86.9	65.80	50.00	88.1	85-116	0.893	20
Cobalt	18.69	60.97	50.00	84.6	61.14	50.00	84.9	86-115	0.280	20
Copper	1.373	44.22	50.00	85.7	45.03	50.00	87.3	85-118	1.82	20
Iron	923.8	5463	5000	90.8	5518	5000	91.9	87-118	1.02	20
Lead	5.000	43.80	50.00	87.6	44.84	50.00	89.6	88-115	2.34	20
Magnesium	20720	25040	5000	86.3	25170	5000	88.9	83-118	0.508	20
Manganese	670.7	686.7	50.00	32.0	694.5	50.00	47.6	87-115	1.13	20
Nickel	1357	1381	50.00	49.1	1389	50.00	64.4	85-117	0.552	20
Potassium	2144	6671	5000	90.5	6734	5000	91.8	87-115	0.936	20
Selenium	5.000	44.58	50.00	89.3	45.70	50.00	91.5	80-120	2.47	20
Silver	5.000	43.85	50.00	87.7	44.09	50.00	88.2	85-116	0.539	20
Sodium	194000	195600	5000	31.6	197300	5000	67.0	85-117	0.902	20
Thallium	0.6360	40.61	50.00	80.0	42.40	50.00	83.5	82-116	4.31	20
Vanadium	5.000	44.48	50.00	88.7	44.68	50.00	89.1	86-115	0.437	20
Zinc	5.000	46.51	50.00	89.2	47.47	50.00	91.2	83-119	2.04	20

ALS Houston, US Date: 24-Jul-23

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Date Analyzed: 07-Jul-2023 17:07
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Lab Sample ID: HS23061712-08PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	5.422	101.2	100	96	80-120
Antimony	0	90.21	100	90	80-120
Arsenic	0	95.31	100	95	80-120
Barium	493.7	586.3	100	93	80-120
Beryllium	0	97.68	100	98	80-120
Cadmium	0	96.95	100	97	80-120
Calcium	24200	33270	10000	91	80-120
Chromium	21.75	113.1	100	91	80-120
Cobalt	18.69	111.6	100	93	80-120
Copper	1.373	91.21	100	90	80-120
Iron	923.8	10480	10000	96	80-120
Lead	0	92.66	100	93	80-120
Magnesium	20720	30570	10000	99	80-120
Manganese	670.7	746.1	100	75	80-120
Nickel	1357	1422	100	65	80-120
Potassium	2144	11870	10000	97	80-120
Selenium	0	95.44	100	96	80-120
Silver	0	96.28	100	96	80-120
Thallium	0.636	103.7	100	103	80-120
Vanadium	0	92.73	100	93	80-120
Zinc	0	95.99	100	94	80-120
Sodium	190400	377800	200000	94	80-120

ALS Houston, US

Date: 24-Jul-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Date Analyzed: 19-Jul-2023 16:05
Date Extracted: 19-Jul-2023 09:00
Units: ug/L

Lab Sample ID: LCS-197746
Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.52	90	82-119

ALS Houston, US Date: 24-Jul-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Date Analyzed: 07-Jul-2023 16:57
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Lab Sample ID: LCS-197198 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	101.6	102	84-117
Antimony	50	45.62	91	85-117
Arsenic	50	44.75	90	84-116
Barium	50	43.51	87	86-114
Beryllium	50	45.95	92	83-121
Cadmium	50	44.46	89	87-115
Calcium	5000	4857	97	87-118
Chromium	50	44.28	89	85-116
Cobalt	50	44.16	88	86-115
Copper	50	45.32	91	85-118
Iron	5000	4675	94	87-118
Magnesium	5000	4840	97	83-118
Manganese	50	45.25	91	87-115
Nickel	50	45.68	91	85-117
Potassium	5000	4797	96	87-115
Selenium	50	44.97	90	80-120
Silver	50	44.57	89	85-116
Sodium	5000	4773	96	85-117
Vanadium	50	44.33	89	86-115
Zinc	50	47.19	94	83-119
Lead	50	47.4	95	88-115
Thallium	50	44.74	90	82-116

ALS Houston, US Date: 24-Jul-23

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site18/24
WorkOrder: HS23061707

Date Analyzed: 07-Jul-2023 17:01
Date Extracted: 06-Jul-2023 14:00
Units: ug/L

Lab Sample ID: HS23061712-08SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	5.422	J	11.17	J	106	
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	493.7		480.3		3	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	24200		23480		3	
Chromium	21.75		21.3	J	2	
Cobalt	18.69		18.22	J	2	
Copper	1.373	J	0	U	0	
Iron	923.8		923.8	J	0	
Lead	0	U	0	U	0	
Magnesium	20720		20140		3	
Manganese	670.7		667		1	
Nickel	1357		1355		0	
Potassium	2144		2095		2	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Thallium	0.636	J	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	0	U	0	U	0	
Sodium	190400		197100		4	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\071923E.wszf

Creation Date: 7/19/2023 12:33:21 PM

Comment:

Results

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank		STD	07/19/23 12:39:06 pm	0.000	73	21.57		
Replicates	86.7	51.3	81.5	70.7				
Standard #1 (0.2 ppb)		STD	07/19/23 12:40:48 pm	0.200	1401	2.85	-1.66%	
Replicates	1363.2	1384.4	1398.9	1456.4				
Standard #2 (0.5 ppb)		STD	07/19/23 12:42:31 pm	0.500	3481	0.97	-1.04%	
Replicates	3440.9	3464.8	3509.9	3507.4				
Standard #3 (2.0 ppb)		STD	07/19/23 12:44:13 pm	2.000	13786	0.75	-1.40%	
Replicates	13657.8	13756.3	13833.3	13897.8				
Standard #4 (5.0 ppb)		STD	07/19/23 12:45:56 pm	5.000	35097	0.90	0.53%	
Replicates	34694.5	35007.6	35278.9	35406.2				
Standard #5 (10.0 ppb)		STD	07/19/23 12:47:39 pm	10.000	69889	0.90	0.14%	
Replicates	69071.2	69752.2	70223.0	70510.4				

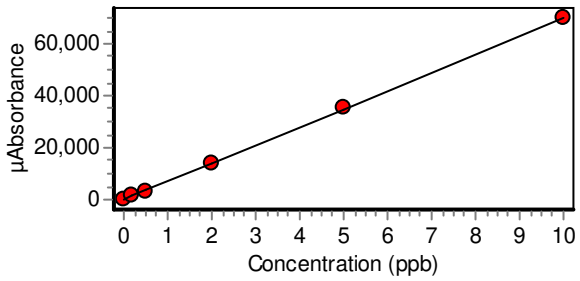
Calibration

Equation: Abs = 6976.616x + 28.596

R2: 0.99998 RSE: 1.43%

SEE: 145.9573

Flags:



ICCV		UNK	07/19/23 12:50:53 pm	5.000	34907	0.65		
Replicates	34611.5	34860.7	35028.4	35125.7				
ICV		UNK	07/19/23 12:52:35 pm	5.030	35145	0.53		
Replicates	34878.9	35156.6	35257.9	35284.8				
ICB		UNK	07/19/23 12:54:16 pm	0.011	107	30.08		
Replicates	118.9	80.9	133.7	95.2				
CRA		UNK	07/19/23 12:55:58 pm	0.185	1318	1.17		
Replicates	1299.7	1336.1	1320.6	1314.3				
CCV		UNK	07/19/23 12:58:46 pm	4.770	33287	0.71		
Replicates	32975.1	33252.7	33397.3	33521.2				
CCB		UNK	07/19/23 01:00:29 pm	0.001	37	182.54		
Replicates	17.7	39.4	35.7	56.5				
MBLK-197734		UNK	07/19/23 01:03:31 pm	0.024	193	14.58		
Replicates	157.6	204.1	210.7	198.7				

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
MBLKT1-197324					UNK	07/19/23 01:05:13 pm	0.029	228	15.34		
Replicates	184.3	243.6	229.9	253.4							
MBLKT2-197529					UNK	07/19/23 01:06:56 pm	0.026	210	5.30		
Replicates	197.1	217.8	209.3	217.1							
MBLKT3-197527					UNK	07/19/23 01:08:38 pm	0.012	114	23.77		
Replicates	127.3	122.4	123.8	83.9							
MBLKT4-197300					UNK	07/19/23 01:10:21 pm	0.021	173	14.06		
Replicates	152.6	170.9	200.8	166.6							
LCS-197734					UNK	07/19/23 01:12:03 pm	4.670	32602	0.69		
Replicates	32316.3	32539.2	32727.9	32825.7							
HS23070491-01					UNK	07/19/23 01:15:25 pm	0.094	682	2.10		
Replicates	681.1	675.7	701.9	670.6							
HS23070491-01MS					UNK	07/19/23 01:17:08 pm	4.510	31474	0.82		
Replicates	31135.7	31418.2	31612.3	31728.3							
HS23070491-01MSD					UNK	07/19/23 01:18:49 pm	4.620	32295	0.67		
Replicates	31997.5	32283.2	32419.7	32479.9							
HS23070147-01					UNK	07/19/23 01:20:31 pm	0.016	140	15.07		
Replicates	125.0	137.0	133.7	163.9							
CCV					UNK	07/19/23 01:25:51 pm	4.730	33010	0.85		
Replicates	32647.3	32942.3	33172.6	33276.0							
CCB					UNK	07/19/23 01:27:35 pm	-0.001	23	115.91		
Replicates	29.2	15.1	20.6	27.2							
HS23070221-01					UNK	07/19/23 01:29:17 pm	0.051	385	3.67		
Replicates	368.4	385.7	386.5	400.4							
HS23070564-01					UNK	07/19/23 01:30:59 pm	0.009	95	20.56		
Replicates	88.5	80.6	98.2	112.2							
HS23070565-01					UNK	07/19/23 01:32:41 pm	0.034	267	3.88		
Replicates	266.4	276.1	270.3	254.3							
HS23070566-01					UNK	07/19/23 01:34:23 pm	0.070	516	8.05		
Replicates	462.6	550.3	540.0	511.5							
HS23070567-01					UNK	07/19/23 01:36:05 pm	0.025	202	16.68		
Replicates	168.4	201.9	239.3	200.1							
HS23070568-01					UNK	07/19/23 01:37:48 pm	0.053	401	2.33		
Replicates	408.2	408.2	390.8	396.5							
HS23070569-01					UNK	07/19/23 01:39:30 pm	0.029	229	7.24		
Replicates	229.2	209.6	244.3	233.8							
HS23070571-01					UNK	07/19/23 01:41:13 pm	0.026	210	7.41		
Replicates	200.4	196.3	220.1	222.6							

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23070573-01					UNK	07/19/23 01:42:56 pm	0.026	210	9.32		
	Replicates	207.0	227.2	187.5	216.7						
HS23070575-01					UNK	07/19/23 01:44:39 pm	0.020	167	12.80		
	Replicates	156.1	160.8	193.8	158.6						
CCV					UNK	07/19/23 02:01:08 pm	4.740	33071	0.70		
	Replicates	32778.3	33014.3	33169.1	33320.5						
CCB					UNK	07/19/23 02:02:52 pm	0.000	28	169.90		
	Replicates	8.6	32.6	33.4	35.4						
HS23070576-01					UNK	07/19/23 02:07:16 pm	0.011	105	36.01		
	Replicates	89.2	78.7	140.9	110.5						
HS23070660-01					UNK	07/19/23 02:08:58 pm	-0.023	-129	25.03		
	Replicates	-174.4	-148.0	-104.8	-88.3						
HS23070669-01 X2					UNK	07/19/23 02:15:11 pm	-0.017	-89	39.62		
	Replicates	-152.8	-94.9	-59.9	-49.2						
HS23070669-02					UNK	07/19/23 02:16:52 pm	-0.035	-217	20.29		
	Replicates	-270.9	-247.0	-181.3	-168.3						
HS23070669-03 X2					UNK	07/19/23 02:18:34 pm	-0.067	-439	19.39		
	Replicates	-562.8	-451.0	-381.1	-362.3						
CCV					UNK	07/19/23 02:26:26 pm	4.800	33533	1.29		
	Replicates	32952.1	33473.1	33770.6	33936.1						
CCB					UNK	07/19/23 02:33:36 pm	-0.007	-23	77.53		
	Replicates	-56.9	-35.4	35.3	-36.7						
MBLK-197744					UNK	07/19/23 02:37:31 pm	0.002	42	245.98		
	Replicates	4.6	40.5	37.7	86.2						
LCS-197744					UNK	07/19/23 02:39:14 pm	4.620	32240	0.79		
	Replicates	31913.5	32180.3	32361.1	32503.4						
HS23070536-01					UNK	07/19/23 02:40:56 pm	0.002	41	114.41		
	Replicates	23.3	40.9	41.9	58.3						
HS23070705-01					UNK	07/19/23 02:42:39 pm	0.014	126	37.50		
	Replicates	75.5	122.0	152.8	152.2						
HS23070705-01MS					UNK	07/19/23 02:46:39 pm	4.540	31707	0.72		
	Replicates	31406.2	31675.4	31798.9	31946.0						
HS23070705-01MSD					UNK	07/19/23 02:48:22 pm	4.600	32100	0.61		
	Replicates	31832.3	32091.1	32197.1	32278.6						
HS23070705-02					UNK	07/19/23 02:50:05 pm	0.020	167	18.98		
	Replicates	171.6	128.9	184.6	184.4						
HS23070749-01					UNK	07/19/23 02:51:47 pm	0.014	128	24.58		
	Replicates	122.7	103.8	123.3	162.0						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23070749-02					UNK	07/19/23 02:53:28 pm	0.024	196	11.87		
	Replicates	171.0	202.3	192.1	218.5						
HS23070751-01					UNK	07/19/23 02:55:10 pm	0.022	184	3.90		
	Replicates	188.9	188.7	180.7	176.7						
CCV					UNK	07/19/23 02:58:17 pm	4.910	34294	0.93		
	Replicates	33860.5	34260.4	34471.2	34584.0						
CCB					UNK	07/19/23 03:00:01 pm	0.018	157	9.64		
	Replicates	162.5	157.9	140.1	169.1						
HS23070751-02					UNK	07/19/23 03:03:38 pm	0.035	276	4.31		
	Replicates	273.6	278.6	288.9	263.2						
HS23070764-01					UNK	07/19/23 03:05:20 pm	0.036	282	7.80		
	Replicates	302.0	262.8	266.8	295.2						
MBLK-197745					UNK	07/19/23 03:09:02 pm	0.058	431	6.49		
	Replicates	403.4	450.3	456.8	415.1						
LOQ-197745					UNK	07/19/23 03:10:44 pm	0.209	1490	1.31		
	Replicates	1487.2	1490.6	1467.8	1514.5						
LCS-197745					UNK	07/19/23 03:12:27 pm	4.580	32011	1.18		
	Replicates	31516.9	31929.2	32219.0	32379.7						
LCSD-197745					UNK	07/19/23 03:14:09 pm	4.600	32087	0.76		
	Replicates	31733.4	32129.2	32221.7	32265.6						
HS23070725-01					UNK	07/19/23 03:15:52 pm	0.067	499	2.92		
	Replicates	480.5	496.2	507.2	511.1						
HS23070725-01MS					UNK	07/19/23 03:17:35 pm	4.710	32864	0.84		
	Replicates	32477.4	32853.3	33038.8	33088.1						
HS23070725-01MSD					UNK	07/19/23 03:19:18 pm	4.680	32686	0.76		
	Replicates	32388.0	32600.9	32793.3	32963.6						
HS23070579-01					UNK	07/19/23 03:20:59 pm	0.039	303	3.29		
	Replicates	314.6	293.5	304.6	299.0						
CCV					UNK	07/19/23 03:25:46 pm	4.940	34464	0.79		
	Replicates	34132.8	34374.0	34580.3	34769.0						
CCB					UNK	07/19/23 03:27:30 pm	0.002	44	105.21		
	Replicates	38.5	39.0	67.4	30.7						
HS23070579-02					UNK	07/19/23 03:29:12 pm	0.091	667	2.87		
	Replicates	647.3	669.8	660.8	690.9						
HS23070579-03					UNK	07/19/23 03:30:54 pm	0.062	459	3.66		
	Replicates	478.9	440.4	459.6	458.2						
HS23070661-01					UNK	07/19/23 03:32:36 pm	0.605	4248	1.58		
	Replicates	4157.5	4253.9	4261.9	4318.4						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23070699-03 2X					UNK	07/19/23 03:34:18 pm	-0.018	-96	10.01		
	Replicates	-114.5	-87.8	-89.6	-92.1						
HS23070725-02					UNK	07/19/23 03:41:59 pm	0.025	206	12.33		
	Replicates	197.4	188.6	198.6	237.6						
HS23070772-07					UNK	07/19/23 03:43:41 pm	0.030	242	16.12		
	Replicates	208.5	234.7	233.6	289.9						
HS23070793-01					UNK	07/19/23 03:45:24 pm	0.025	200	20.71		
	Replicates	148.9	202.0	222.2	225.7						
HS23070793-02					UNK	07/19/23 03:47:06 pm	0.035	275	6.17		
	Replicates	273.4	253.9	283.1	288.4						
CCV					UNK	07/19/23 03:53:09 pm	4.900	34208	1.81		
	Replicates	33371.9	34127.0	34565.8	34766.1						
CCB					UNK	07/19/23 03:54:52 pm	0.009	89	56.79		
	Replicates	44.6	82.7	125.2	103.0						
MBLK-197746					UNK	07/19/23 04:03:21 pm	0.061	451	5.82		
	Replicates	421.9	445.8	481.2	456.7						
LCS-197746					UNK	07/19/23 04:05:04 pm	4.520	31551	1.06		
	Replicates	31114.2	31484.0	31716.9	31887.9						
HS23061707-01					UNK	07/19/23 04:06:47 pm	0.042	323	5.33		
	Replicates	306.8	340.2	313.0	332.0						
HS23061707-01MS					UNK	07/19/23 04:08:29 pm	4.610	32156	0.71		
	Replicates	31826.5	32177.7	32287.8	32332.5						
HS23061707-01MSD					UNK	07/19/23 04:12:51 pm	4.450	31089	0.80		
	Replicates	30759.8	31059.9	31196.6	31338.9						
HS23061707-02					UNK	07/19/23 04:14:33 pm	0.019	161	15.53		
	Replicates	138.0	180.9	149.5	175.5						
HS23061707-03					UNK	07/19/23 04:16:16 pm	0.021	176	11.77		
	Replicates	183.3	188.8	150.3	181.0						
HS23061707-05					UNK	07/19/23 04:17:58 pm	0.020	170	8.93		
	Replicates	154.7	172.1	185.3	167.4						
HS23061707-09					UNK	07/19/23 04:19:40 pm	0.023	191	6.97		
	Replicates	190.1	207.4	185.6	181.7						
CCV					UNK	07/19/23 04:24:17 pm	4.920	34374	0.83		
	Replicates	33979.0	34366.2	34524.2	34624.7						
CCB					UNK	07/19/23 04:26:01 pm	-0.001	23	518.88		
	Replicates	17.5	66.4	3.3	4.3						
MBLK-197747					UNK	07/19/23 04:30:09 pm	0.046	348	8.84		
	Replicates	381.6	312.5	348.0	351.5						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-197747				UNK	07/19/23 04:31:51 pm	4.550	31779	0.82		
Replicates	31469.1	31661.6	31952.7	32031.4						
HS23070750-01				UNK	07/19/23 04:33:34 pm	0.059	444	7.44		
Replicates	415.3	423.0	482.3	455.6						
HS23070750-01MS				UNK	07/19/23 04:35:16 pm	4.460	31168	0.87		
Replicates	30810.4	31137.8	31276.5	31446.7						
HS23070750-01MSD				UNK	07/19/23 04:36:59 pm	4.480	31255	0.98		
Replicates	30836.7	31220.5	31458.3	31503.8						
MBLK-197767				UNK	07/19/23 04:41:16 pm	0.048	364	5.91		
Replicates	343.3	389.8	368.6	356.0						
LCS-197767				UNK	07/19/23 04:42:59 pm	4.900	34213	0.53		
Replicates	33944.9	34259.6	34349.4	34296.2						
HS23070252-01				UNK	07/19/23 04:44:41 pm	0.053	398	3.87		
Replicates	386.7	384.9	405.6	414.1						
HS23070252-01MS				UNK	07/19/23 04:46:23 pm	5.480	38279	0.48		
Replicates	38032.4	38370.2	38457.4	38255.9						
HS23070252-01MSD				UNK	07/19/23 04:50:27 pm	4.440	31035	0.40		
Replicates	30851.1	31094.8	31121.5	31073.8						
HS23070252-01MS				UNK	07/19/23 04:53:58 pm	4.520	31538	0.52		
Replicates	31326.6	31513.3	31598.9	31714.8						
CCV				UNK	07/19/23 04:57:54 pm	4.930	34449	0.76		
Replicates	34083.7	34441.6	34585.8	34683.8						
CCB				UNK	07/19/23 04:59:38 pm	0.004	57	59.15		
Replicates	54.3	78.5	37.5	57.8						
HS23070252-02				UNK	07/19/23 05:01:20 pm	0.054	403	4.90		
Replicates	406.6	417.1	411.6	376.1						
HS23070252-03				UNK	07/19/23 05:03:02 pm	0.055	409	3.79		
Replicates	422.4	394.9	399.4	421.4						
HS23070252-04				UNK	07/19/23 05:04:45 pm	0.046	352	3.41		
Replicates	363.9	358.2	340.7	344.6						
MBLK-197768				UNK	07/19/23 05:09:31 pm	0.048	366	5.59		
Replicates	351.9	392.7	353.5	366.4						
LCS-197768				UNK	07/19/23 05:11:14 pm	4.570	31935	0.92		
Replicates	31525.4	31922.2	32106.8	32185.2						
HS23070252-01				UNK	07/19/23 05:12:57 pm	0.045	345	10.47		
Replicates	298.5	345.8	359.2	375.3						
HS23070252-01MS				UNK	07/19/23 05:14:39 pm	4.910	34271	0.68		
Replicates	33939.1	34289.7	34408.9	34447.7						

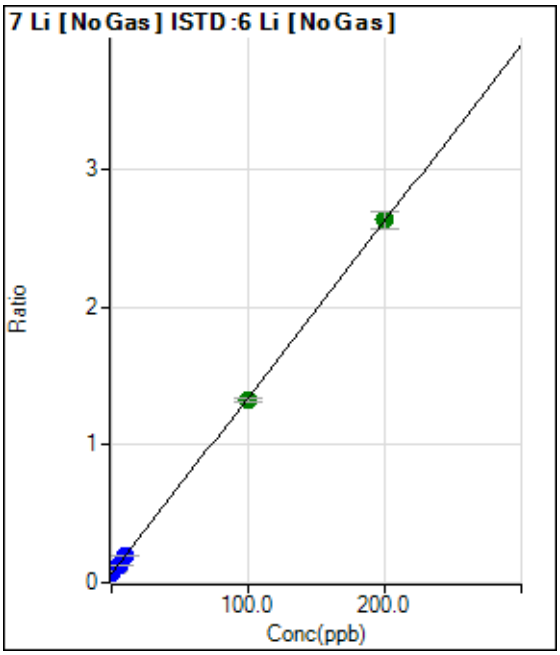
Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23070252-01MSD					UNK	07/19/23 05:16:22 pm	4.420	30889	1.02		
	Replicates	30459.0	30853.6	31094.6	31149.5						
HS23070252-01MS					UNK	07/19/23 05:20:35 pm	4.390	30662	1.49		
	Replicates	30047.2	30593.6	30942.3	31066.8						
HS23070252-02					UNK	07/19/23 05:22:18 pm	0.042	323	7.42		
	Replicates	329.4	290.8	338.3	333.9						
CCV					UNK	07/19/23 05:24:02 pm	4.920	34356	0.61		
	Replicates	34059.6	34363.6	34468.9	34533.7						
CCB					UNK	07/19/23 05:25:45 pm	0.005	66	68.21		
	Replicates	38.5	87.0	88.2	50.0						
HS23070252-03					UNK	07/19/23 05:27:28 pm	0.054	404	1.07		
	Replicates	402.0	405.9	399.9	408.9						
HS23070252-04					UNK	07/19/23 05:29:11 pm	0.056	417	3.96		
	Replicates	410.9	435.8	423.1	400.1						
HS23070639-02					UNK	07/19/23 05:30:53 pm	0.046	348	5.54		
	Replicates	339.5	332.0	346.5	372.7						
HS23070639-03					UNK	07/19/23 05:32:36 pm	0.051	386	2.07		
	Replicates	376.9	391.1	384.4	393.3						
HS23070639-04					UNK	07/19/23 05:34:18 pm	0.052	392	4.19		
	Replicates	374.8	385.2	399.7	409.2						
HS23070639-09					UNK	07/19/23 05:36:01 pm	0.075	550	1.86		
	Replicates	560.5	555.1	539.3	544.4						
CCV					UNK	07/19/23 05:37:45 pm	4.900	34237	1.25		
	Replicates	33651.7	34207.3	34466.3	34624.6						
CCB					UNK	07/19/23 05:39:28 pm	0.006	74	80.90		
	Replicates	22.3	104.3	74.3	93.8						

Calibration for 315_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070723A.b\
Analysis File: 070723A.batch.bin
DA Date-Time: 7/7/2023 11:52:35 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	308CALB.d	CAL BLK	7/7/2023 11:31:27 PM
2	309CALS.d	2/10/200	7/7/2023 11:33:35 PM
3	310CALS.d	5/25/500	7/7/2023 11:35:43 PM
4	311CALS.d	10/50/100	7/7/2023 11:37:39 PM
5	312CALS.d	100/500/10K	7/7/2023 11:39:37 PM
6	313CALS.d	200/1000/20K	7/7/2023 11:41:27 PM

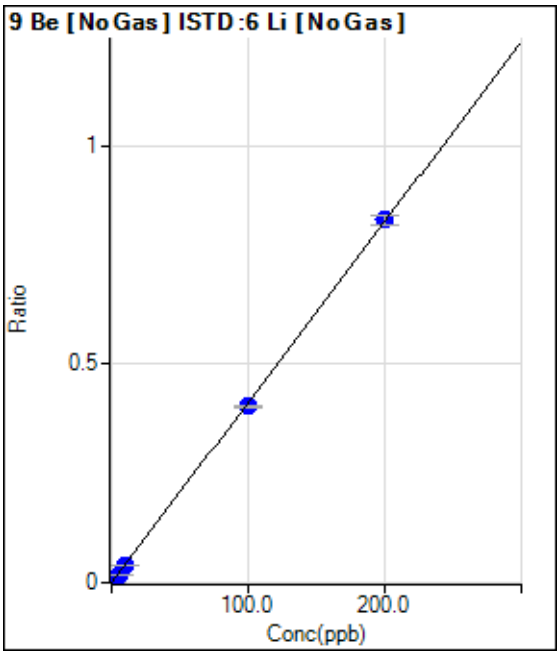
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56678.82	0.0653	P	2.6
2	☐	2.000	2.033	79061.00	0.0914	P	2.7
3	☐	5.000	4.925	112946.25	0.1284	P	2.6
4	☐	10.000	10.133	168350.11	0.1951	P	0.9
5	☐	100.000	98.350	1108667.56	1.3243	A	1.9
6	☐	200.000	200.820	2139713.67	2.6359	A	5.1

y = 0.0128 * x + 0.0653
R = 1.0000
DL = 0.4023
BEC = 5.105

Weight: <None>
Min Conc: <None>

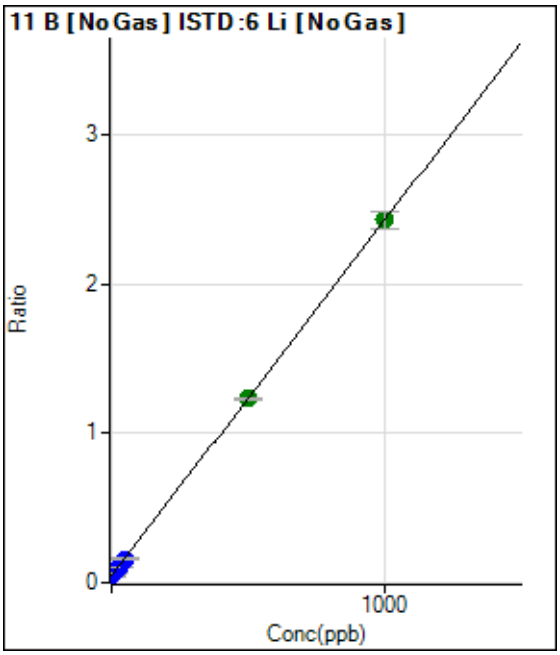


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	97.1
2	☐	2.000	1.990	7126.88	0.0082	P	2.3
3	☐	5.000	4.733	17213.97	0.0196	P	2.1
4	☐	10.000	9.713	34642.63	0.0401	P	1.4
5	☐	100.000	97.716	337940.89	0.4037	P	0.5
6	☐	200.000	201.163	674818.64	0.8310	P	2.9

y = 0.0041 * x + 1.5495E-005
R = 0.9999
DL = 0.01093
BEC = 0.003751

Weight: <None>
Min Conc: <None>

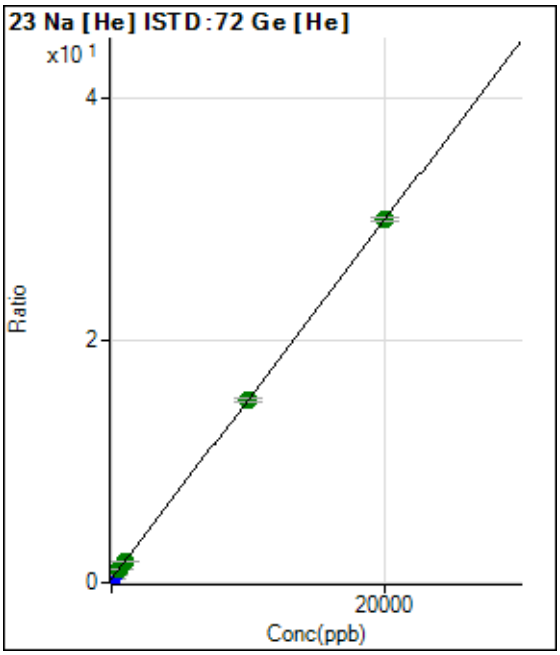
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39856.53	0.0460	P	3.8
2	☐	10.000	9.344	59053.68	0.0682	P	3.2
3	☐	25.000	22.423	87452.05	0.0994	P	4.0
4	☐	50.000	48.305	139065.12	0.1611	P	1.5
5	☐	500.000	497.986	1032385.72	1.2331	A	0.8
6	☐	1000.000	1001.163	1974635.18	2.4326	A	5.1

y = 0.0024 * x + 0.0460
R = 1.0000
DL = 2.172
BEC = 19.28

Weight: <None>
Min Conc: <None>

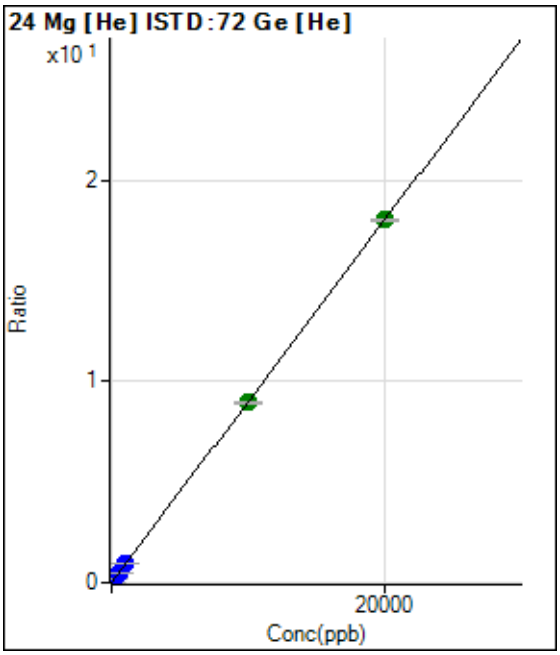


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244697.51	0.3027	P	1.2
2	☐	200.000	207.161	489371.87	0.6096	P	0.1
3	☐	500.000	514.247	853165.54	1.0646	A	0.8
4	☐	1000.000	981.918	1404877.22	1.7574	A	0.6
5	☐	10000.00	9967.165	11905974.82	15.0684	A	1.7
6	☐	20000.00	20016.89	23503362.15	29.9563	A	0.9

y = 0.0015 * x + 0.3027
R = 1.0000
DL = 7.492
BEC = 204.4

Weight: <None>
Min Conc: <None>

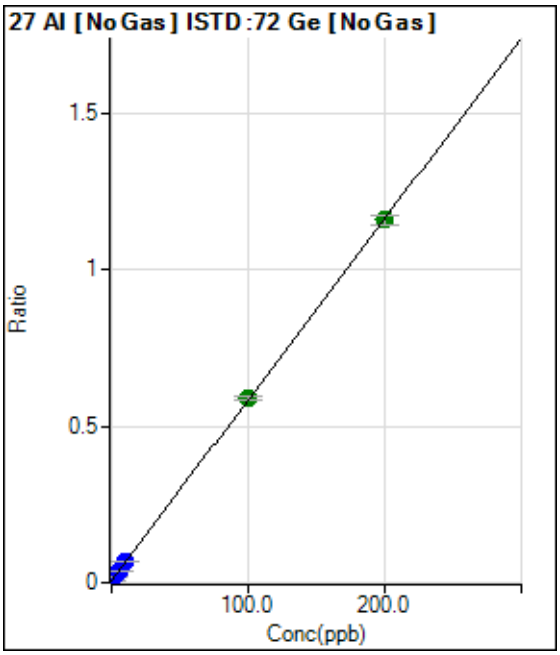
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	746.70	0.0009	P	8.1
2	☐	200.000	213.119	154863.68	0.1929	P	0.8
3	☐	500.000	534.151	386371.55	0.4821	P	1.5
4	☐	1000.000	1052.283	758559.70	0.9489	P	1.2
5	☐	10000.00	9946.054	7081273.23	8.9614	A	1.5
6	☐	20000.00	20023.37	14153564.79	18.0401	A	0.5

y = 9.0091E-004 * x + 9.2385E-004
R = 1.0000
DL = 0.2506
BEC = 1.025

Weight: <None>
Min Conc: <None>

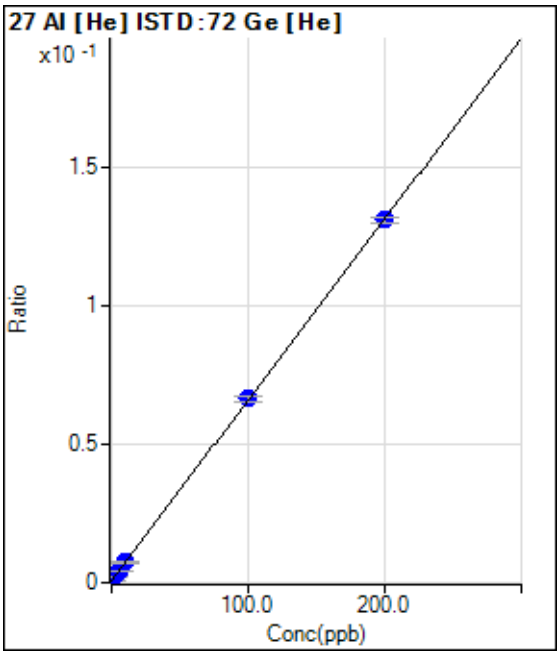


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16983.92	0.0065	P	2.8
2	☐	2.000	1.828	44799.18	0.0171	P	0.6
3	☐	5.000	5.417	97524.04	0.0378	P	0.7
4	☐	10.000	10.466	172439.57	0.0669	P	0.8
5	☐	100.000	100.724	1492936.90	0.5875	A	1.6
6	☐	200.000	199.606	2891043.81	1.1579	A	2.4

y = 0.0058 * x + 0.0065
R = 1.0000
DL = 0.09575
BEC = 1.129

Weight: <None>
Min Conc: <None>

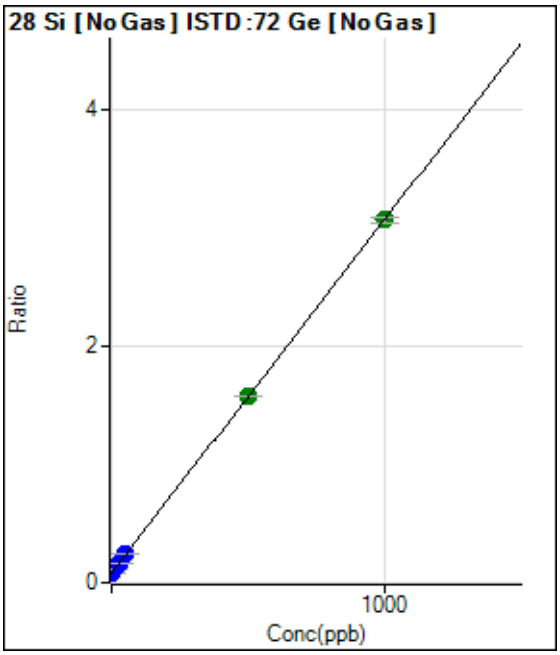
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	573.36	0.0007	P	10.2
2	☐	2.000	1.945	1586.79	0.0020	P	3.1
3	☐	5.000	5.501	3440.49	0.0043	P	7.1
4	☐	10.000	10.213	5888.00	0.0074	P	2.9
5	☐	100.000	100.637	52379.00	0.0663	P	2.5
6	☐	200.000	199.659	102630.55	0.1308	P	1.8

y = 6.5163E-004 * x + 7.0933E-004
R = 1.0000
DL = 0.3317
BEC = 1.089

Weight: <None>
Min Conc: <None>

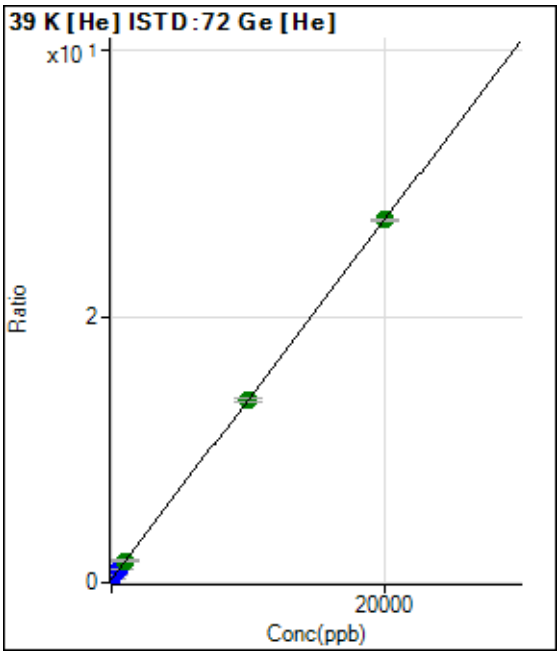


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	212774.65	0.0816	P	1.6
2	☐	10.000	9.549	289084.52	0.1101	P	1.1
3	☐	25.000	25.915	410562.71	0.1590	P	0.8
4	☐	50.000	52.553	614865.90	0.2385	P	0.8
5	☐	500.000	500.323	4002926.09	1.5753	A	0.2
6	☐	1000.000	999.693	7656643.22	3.0663	A	1.7

y = 0.0030 * x + 0.0816
R = 1.0000
DL = 1.324
BEC = 27.33

Weight: <None>
Min Conc: <None>

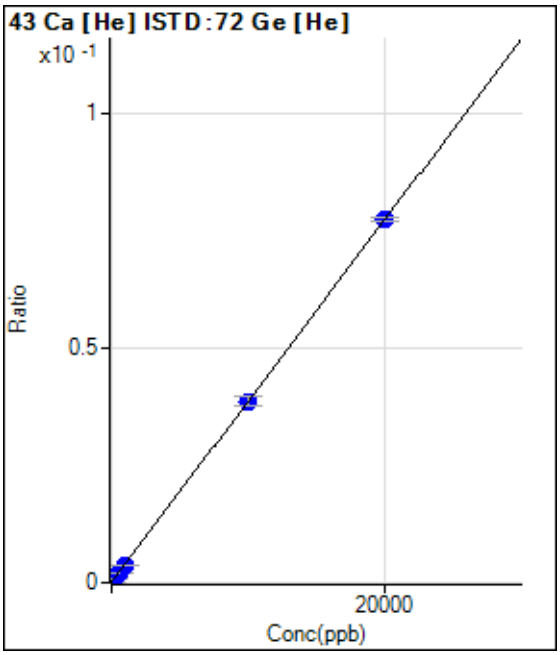
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206000.90	0.2549	P	1.1
2	☐	200.000	207.058	429244.49	0.5347	P	0.1
3	☐	500.000	520.155	767566.68	0.9579	P	1.4
4	☐	1000.000	1037.918	1325387.30	1.6578	A	2.9
5	☐	10000.00	9996.451	10877302.76	13.7664	A	1.9
6	☐	20000.00	19999.30	21408687.18	27.2866	A	0.6

y = 0.0014 * x + 0.2549
R = 1.0000
DL = 6.114
BEC = 188.6

Weight: <None>
Min Conc: <None>

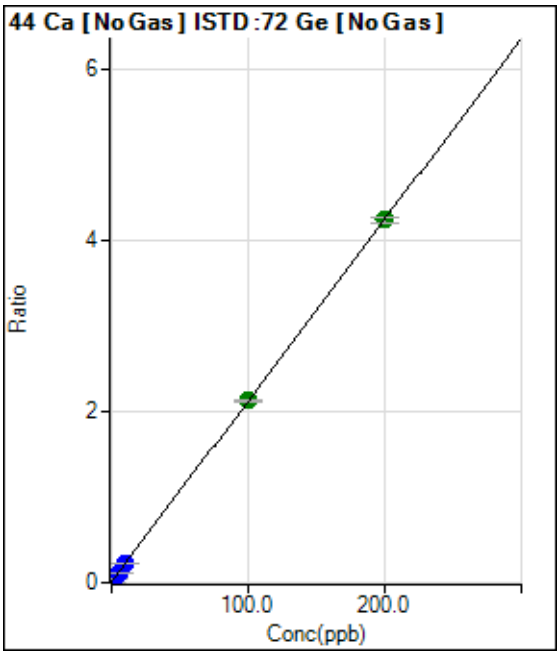


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0001	P	36.4
2	☐	200.000	170.231	590.02	0.0007	P	10.5
3	☐	500.000	500.720	1610.12	0.0020	P	3.5
4	☐	1000.000	937.854	2953.70	0.0037	P	4.2
5	☐	10000.00	9982.829	30474.25	0.0386	P	5.3
6	☐	20000.00	20011.97	60623.58	0.0773	P	1.0

y = 3.8573E-006 * x + 7.8353E-005
R = 1.0000
DL = 22.21
BEC = 20.31

Weight: <None>
Min Conc: <None>

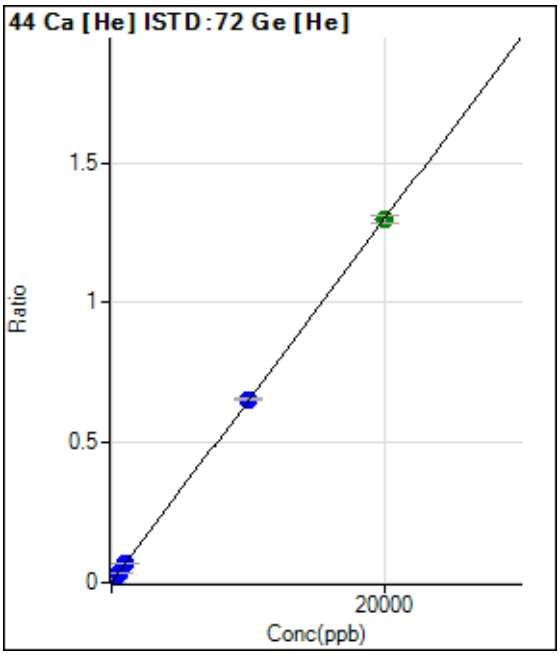
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26812.99	0.0103	P	1.6
2	☐	2.000	2.058	141360.70	0.0538	P	1.8
3	☐	5.000	5.250	313560.08	0.1214	P	1.3
4	☐	10.000	10.523	600670.13	0.2330	P	1.5
5	☐	100.000	100.051	5406885.75	2.1279	A	1.2
6	☐	200.000	199.942	10592525.26	4.2421	A	1.8

y = 0.0212 * x + 0.0103
R = 1.0000
DL = 0.02335
BEC = 0.4857

Weight: <None>
Min Conc: <None>

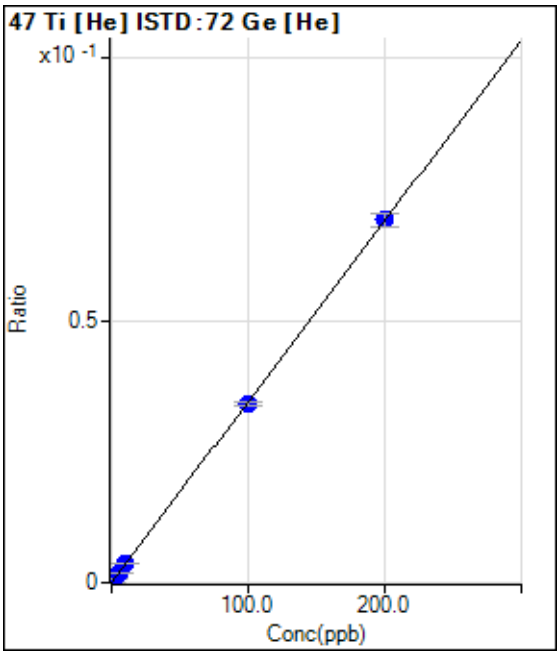


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	826.71	0.0010	P	14.2
2	☐	200.000	205.051	11508.37	0.0143	P	2.8
3	☐	500.000	513.164	27527.90	0.0343	P	3.9
4	☐	1000.000	1023.008	53919.08	0.0674	P	1.8
5	☐	10000.00	10090.29	518464.16	0.6562	P	1.5
6	☐	20000.00	19953.32	1017243.66	1.2965	A	2.2

y = 6.4928E-005 * x + 0.0010
R = 1.0000
DL = 6.7
BEC = 15.75

Weight: <None>
Min Conc: <None>

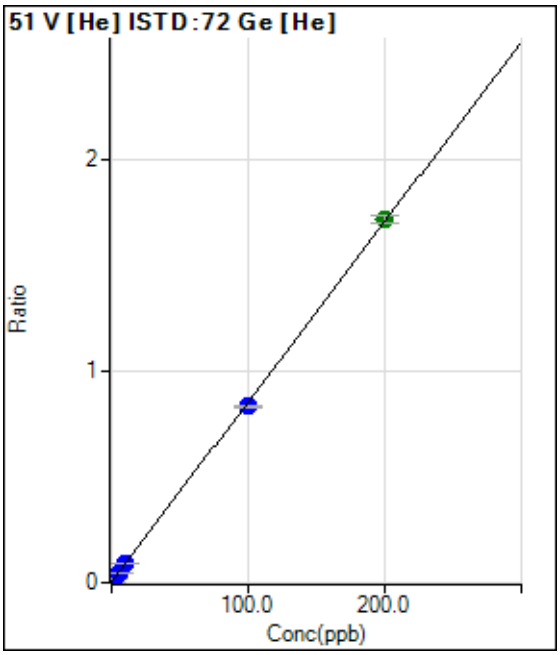
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	125.0
2	☐	2.000	1.892	540.02	0.0007	P	4.6
3	☐	5.000	4.900	1370.09	0.0017	P	4.4
4	☐	10.000	10.447	2893.69	0.0036	P	4.6
5	☐	100.000	98.604	26866.59	0.0340	P	2.5
6	☐	200.000	200.679	54264.13	0.0692	P	3.5

y = 3.4457E-004 * x + 2.0633E-005
R = 1.0000
DL = 0.2245
BEC = 0.05988

Weight: <None>
Min Conc: <None>

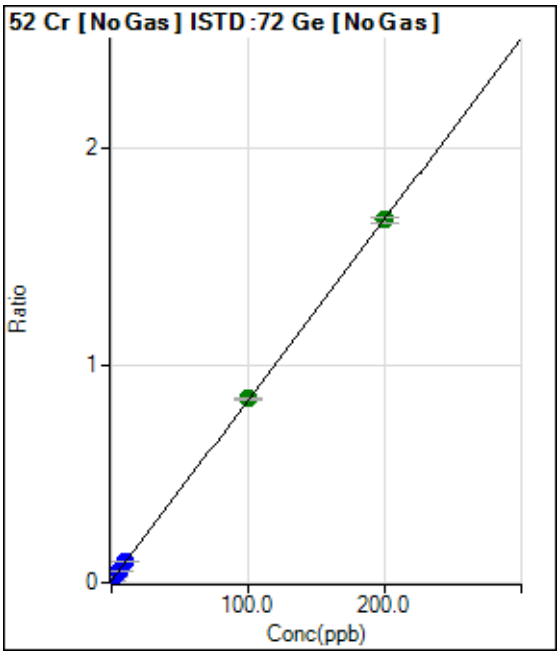


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3130.37	0.0039	P	2.3
2	☐	2.000	1.954	16446.54	0.0205	P	1.4
3	☐	5.000	4.945	36802.60	0.0459	P	1.9
4	☐	10.000	9.760	69456.27	0.0869	P	1.1
5	☐	100.000	97.661	659459.11	0.8345	P	1.0
6	☐	200.000	201.183	1345460.99	1.7150	A	2.1

y = 0.0085 * x + 0.0039
R = 0.9999
DL = 0.03121
BEC = 0.4554

Weight: <None>
Min Conc: <None>

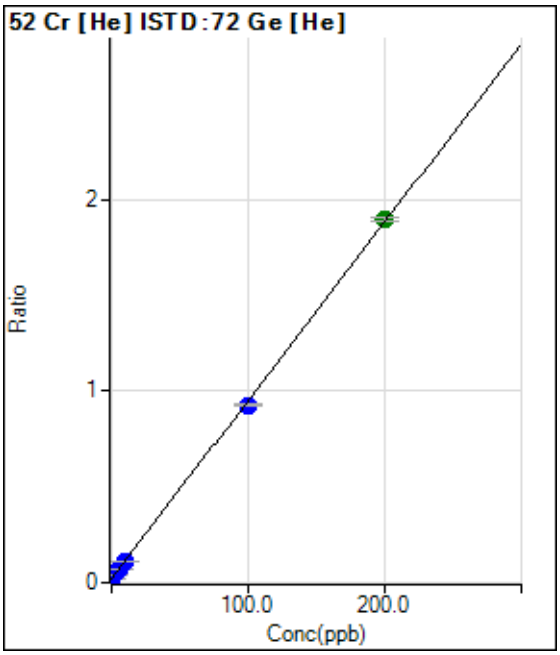
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22515.42	0.0086	P	0.8
2	☐	2.000	2.068	67925.47	0.0259	P	2.0
3	☐	5.000	5.202	134280.38	0.0520	P	1.0
4	☐	10.000	10.386	245435.89	0.0952	P	0.2
5	☐	100.000	100.626	2153070.07	0.8474	A	1.6
6	☐	200.000	199.662	4177343.58	1.6728	A	1.3

y = 0.0083 * x + 0.0086
R = 1.0000
DL = 0.02363
BEC = 1.036

Weight: <None>
Min Conc: <None>

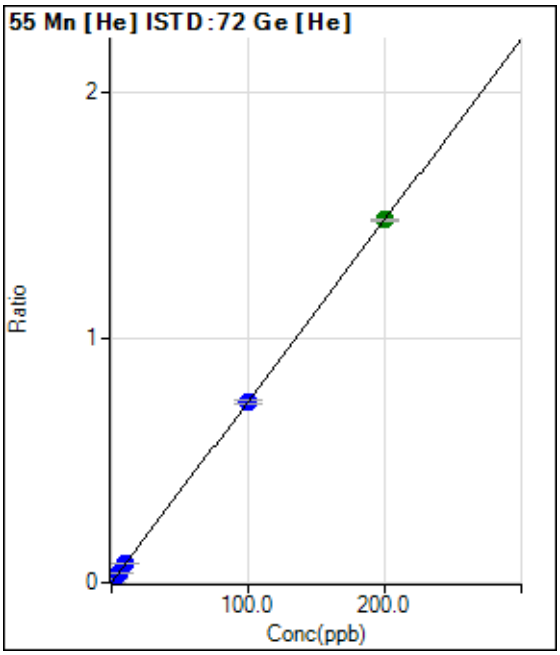


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17241.19	0.0213	P	4.1
2	☐	2.000	1.991	31974.35	0.0398	P	0.8
3	☐	5.000	5.120	55228.42	0.0689	P	0.4
4	☐	10.000	9.955	91001.34	0.1138	P	1.7
5	☐	100.000	97.336	731711.94	0.9259	P	0.9
6	☐	200.000	201.332	1484684.93	1.8924	A	1.0

y = 0.0093 * x + 0.0213
R = 0.9999
DL = 0.2805
BEC = 2.295

Weight: <None>
Min Conc: <None>

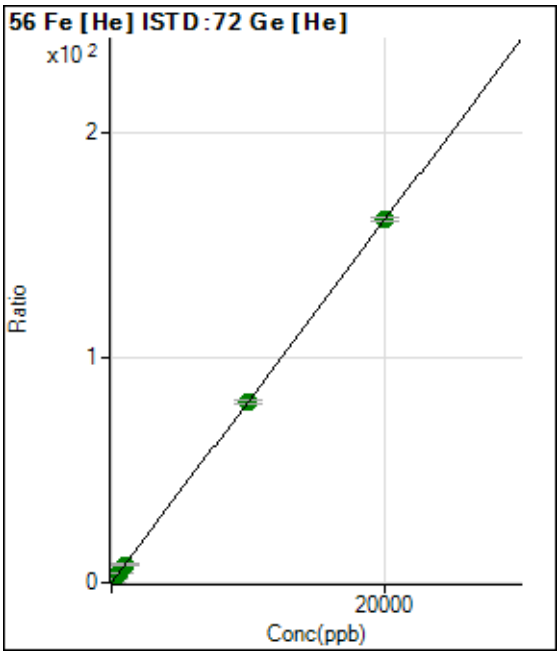
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	506.69	0.0006	P	32.2
2	☐	2.000	2.068	12779.54	0.0159	P	5.2
3	☐	5.000	5.066	30524.47	0.0381	P	1.3
4	☐	10.000	10.202	60812.07	0.0761	P	0.6
5	☐	100.000	99.679	582999.90	0.7377	P	1.8
6	☐	200.000	200.148	1161729.31	1.4807	A	0.8

y = 0.0074 * x + 6.2691E-004
R = 1.0000
DL = 0.08184
BEC = 0.08478

Weight: <None>
Min Conc: <None>

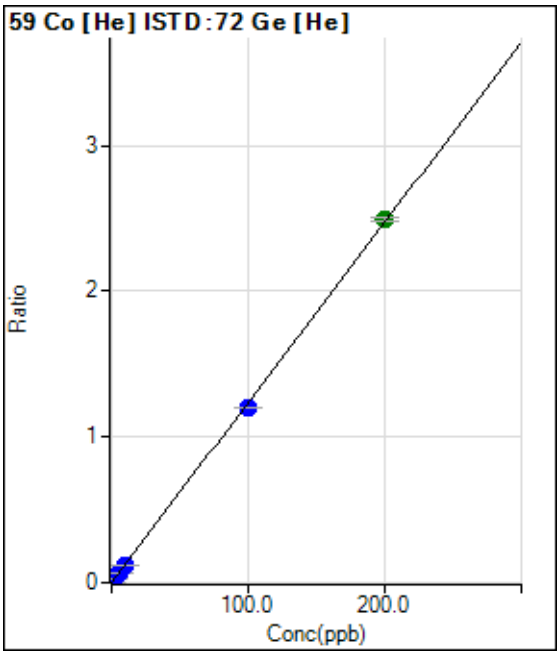


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19761.17	0.0244	P	2.0
2	☐	200.000	205.990	1351641.02	1.6838	A	2.5
3	☐	500.000	505.388	3281905.16	4.0955	A	0.8
4	☐	1000.000	995.815	6432466.78	8.0460	A	2.0
5	☐	10000.00	9949.562	63360370.72	80.1709	A	1.8
6	☐	20000.00	20025.23	126573784.7	161.333	A	1.2

y = 0.0081 * x + 0.0244
R = 1.0000
DL = 0.1831
BEC = 3.035

Weight: <None>
Min Conc: <None>

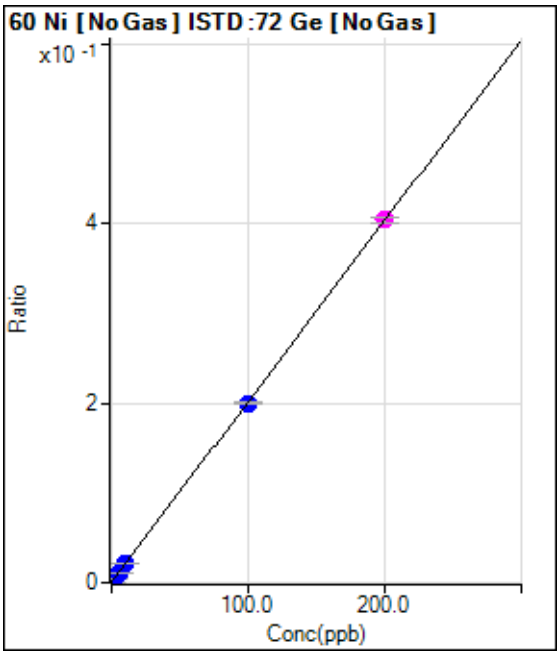
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0001	P	39.7
2	☐	2.000	1.944	19340.81	0.0241	P	2.5
3	☐	5.000	4.967	49229.36	0.0614	P	1.7
4	☐	10.000	9.863	97460.90	0.1219	P	1.0
5	☐	100.000	97.124	948171.42	1.1999	P	0.6
6	☐	200.000	201.446	1952403.93	2.4886	A	1.1

y = 0.0124 * x + 7.8345E-005
R = 0.9999
DL = 0.007554
BEC = 0.006342

Weight: <None>
Min Conc: <None>

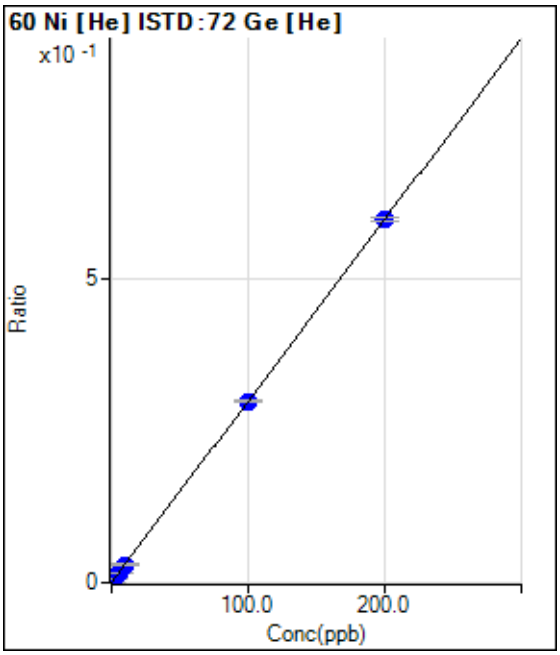


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1350.09	0.0005	P	11.6
2	☐	2.000	1.997	11902.08	0.0045	P	1.7
3	☐	5.000	5.078	27701.92	0.0107	P	1.7
4	☐	10.000	10.108	53716.11	0.0208	P	1.7
5	☐	100.000	98.917	506521.97	0.1993	P	1.2
6	☐	200.000	200.534	1007904.41	0.4036	M	1.7

y = 0.0020 * x + 5.1809E-004
R = 1.0000
DL = 0.08992
BEC = 0.2578

Weight: <None>
Min Conc: <None>

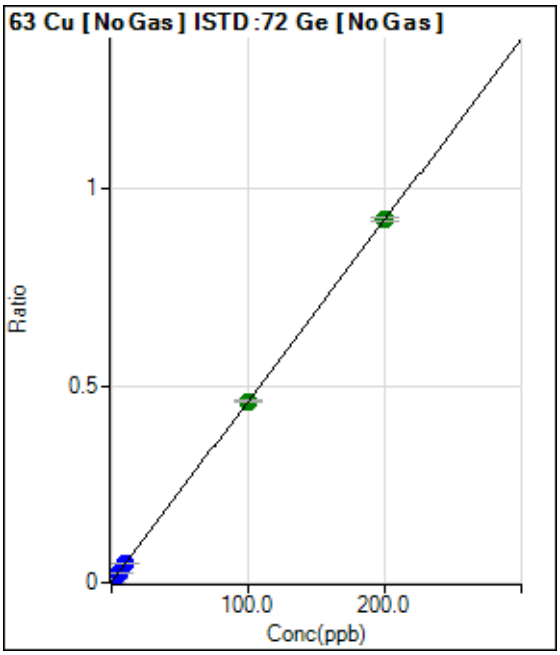
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	316.68	0.0004	P	26.8
2	☐	2.000	2.111	5384.50	0.0067	P	2.8
3	☐	5.000	4.901	12068.89	0.0151	P	3.8
4	☐	10.000	9.920	24044.80	0.0301	P	3.3
5	☐	100.000	100.075	236963.56	0.2999	P	0.7
6	☐	200.000	199.968	469777.15	0.5988	P	0.9

y = 0.0030 * x + 3.9177E-004
R = 1.0000
DL = 0.1053
BEC = 0.1309

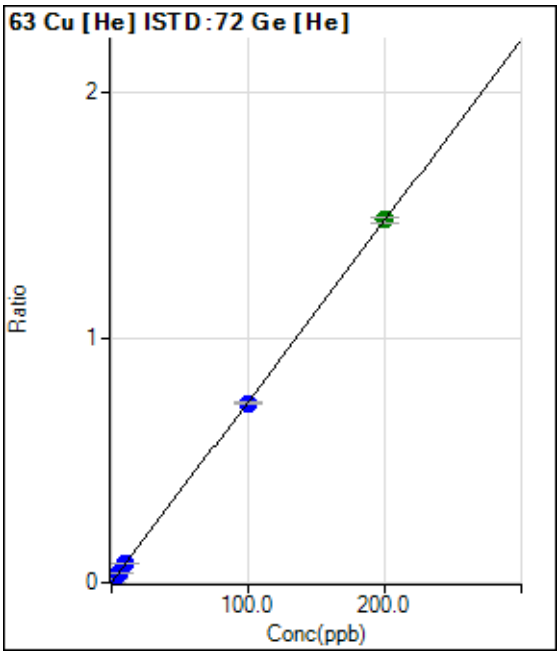
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3383.83	0.0013	P	1.7
2	☐	2.000	2.062	28293.22	0.0108	P	3.4
3	☐	5.000	5.091	63800.12	0.0247	P	0.2
4	☐	10.000	10.213	124379.58	0.0482	P	1.5
5	☐	100.000	99.710	1167937.64	0.4597	A	1.1
6	☐	200.000	200.132	2300609.60	0.9213	A	1.2

y = 0.0046 * x + 0.0013
R = 1.0000
DL = 0.01429
BEC = 0.2822

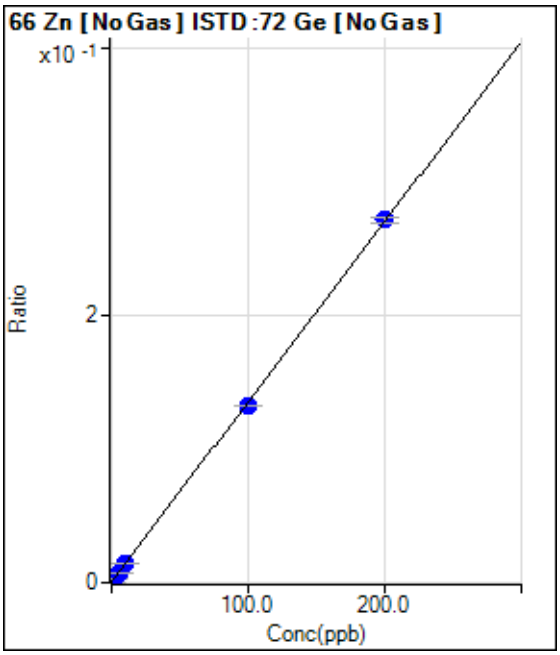
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	843.38	0.0010	P	6.8
2	☐	2.000	1.967	12499.27	0.0156	P	4.3
3	☐	5.000	5.009	30477.96	0.0380	P	2.4
4	☐	10.000	10.115	60554.86	0.0758	P	1.3
5	☐	100.000	99.173	579621.42	0.7336	P	1.5
6	☐	200.000	200.408	1162183.11	1.4813	A	1.3

y = 0.0074 * x + 0.0010
R = 1.0000
DL = 0.02871
BEC = 0.1413

Weight: <None>
Min Conc: <None>

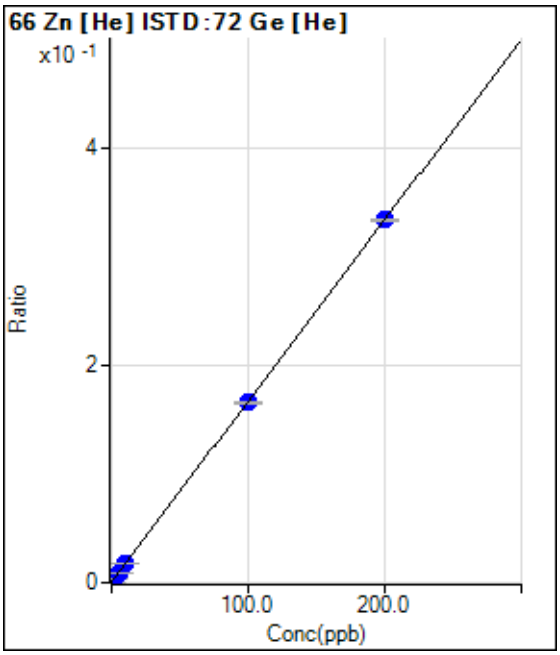


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1033.39	0.0004	P	7.2
2	☐	2.000	1.930	7885.77	0.0030	P	3.8
3	☐	5.000	5.091	18776.61	0.0073	P	2.4
4	☐	10.000	10.114	36218.68	0.0141	P	2.7
5	☐	100.000	97.892	336822.47	0.1326	P	0.6
6	☐	200.000	201.047	678761.16	0.2718	P	1.9

y = 0.0014 * x + 3.9611E-004
R = 0.9999
DL = 0.06366
BEC = 0.2934

Weight: <None>
Min Conc: <None>

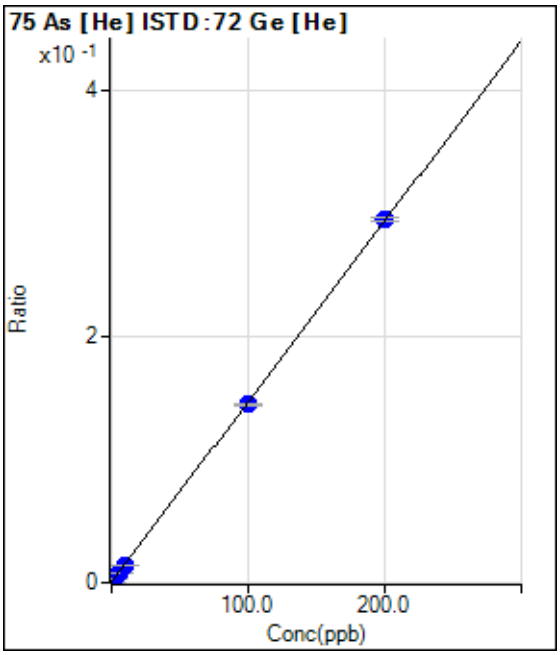
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	430.02	0.0005	P	13.0
2	☐	2.000	2.081	3210.44	0.0040	P	4.1
3	☐	5.000	5.153	7308.75	0.0091	P	1.0
4	☐	10.000	10.035	13790.57	0.0173	P	2.6
5	☐	100.000	99.454	131364.89	0.1662	P	0.8
6	☐	200.000	200.267	262209.50	0.3342	P	0.8

y = 0.0017 * x + 5.3204E-004
R = 1.0000
DL = 0.1246
BEC = 0.3193

Weight: <None>
Min Conc: <None>

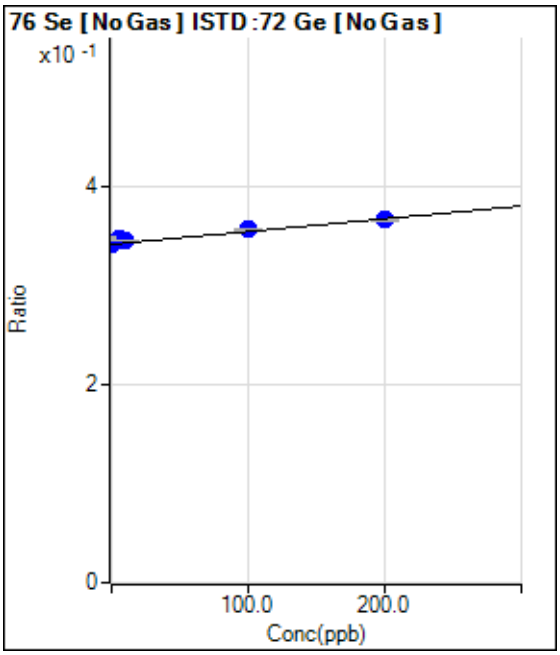


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	331.12	0.0004	P	9.1
2	☐	2.000	2.015	2701.40	0.0034	P	1.6
3	☐	5.000	4.969	6167.00	0.0077	P	4.2
4	☐	10.000	9.620	11608.38	0.0145	P	0.4
5	☐	100.000	98.573	114586.71	0.1450	P	0.7
6	☐	200.000	200.733	231334.69	0.2949	P	0.9

y = 0.0015 * x + 4.0964E-004
R = 1.0000
DL = 0.07589
BEC = 0.2793

Weight: <None>
Min Conc: <None>

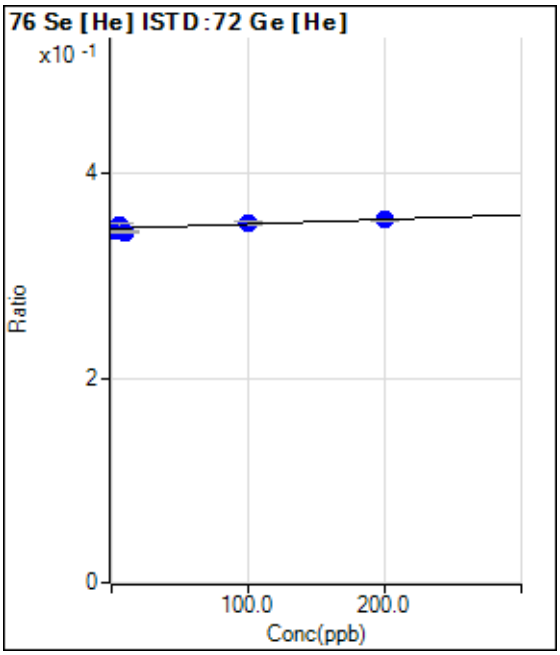
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	892034.26	0.3421	P	2.8
2	☐	2.000	13.717	902928.35	0.3438	P	0.6
3	☐	5.000	50.548	900357.85	0.3486	P	0.5
4	☐	10.000	26.961	890873.84	0.3455	P	0.1
5	☐	100.000	114.610	906780.43	0.3569	P	0.7
6	☐	200.000	190.591	915725.30	0.3667	P	0.8

y = 1.2902E-004 * x + 0.3421
R = 0.9769
DL = 225.9
BEC = 2651

Weight: <None>
Min Conc: <None>

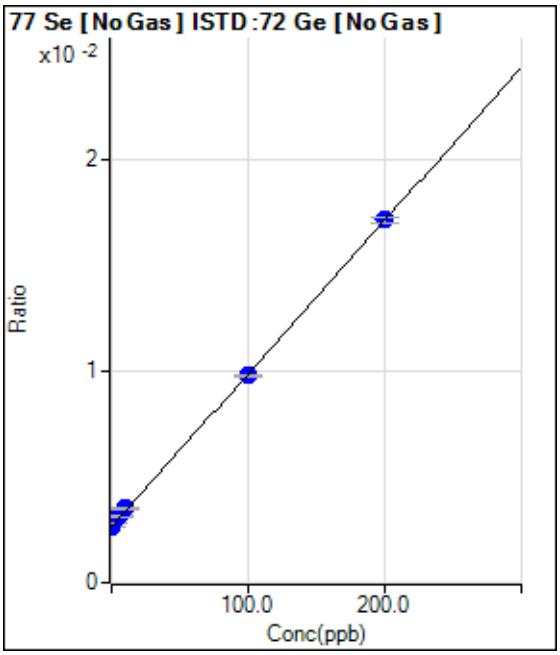


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	279617.80	0.3459	P	0.4
2	☐	2.000	-43.624	276117.55	0.3440	P	1.0
3	☐	5.000	60.936	279427.92	0.3487	P	1.2
4	☐	10.000	-74.599	273852.90	0.3426	P	0.9
5	☐	100.000	130.283	278032.89	0.3518	P	0.9
6	☐	200.000	188.146	278106.48	0.3545	P	0.8

y = 4.5277E-005 * x + 0.3459
R = 0.8705
DL = 91.71
BEC = 7641

Weight: <None>
Min Conc: <None>

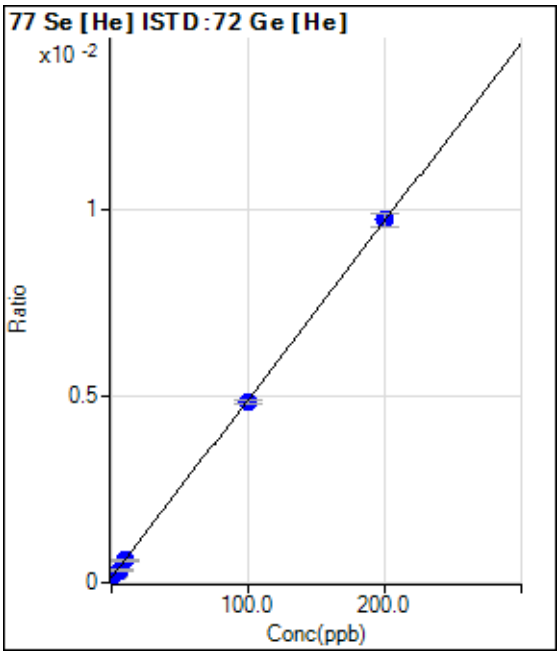
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6885.20	0.0026	P	1.7
2	☐	2.000	4.348	7759.05	0.0030	P	7.1
3	☐	5.000	6.874	8105.91	0.0031	P	4.6
4	☐	10.000	12.064	9059.85	0.0035	P	1.1
5	☐	100.000	98.902	24913.41	0.0098	P	1.1
6	☐	200.000	200.375	42835.01	0.0172	P	1.9

y = 7.2440E-005 * x + 0.0026
R = 0.9999
DL = 1.838
BEC = 36.44

Weight: <None>
Min Conc: <None>

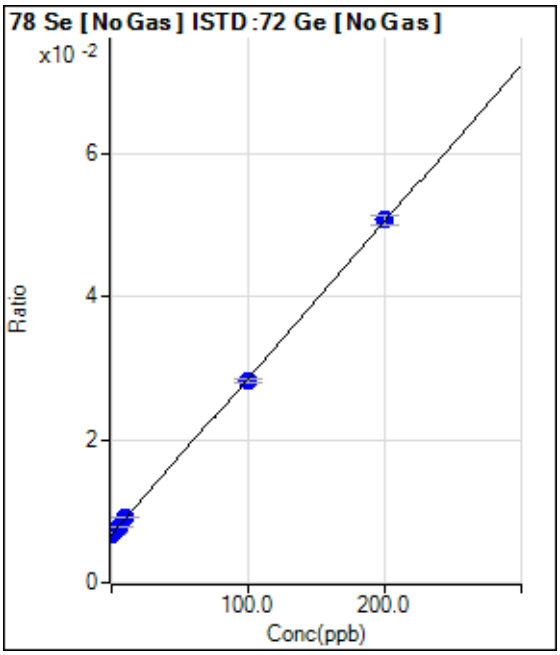


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0001	P	67.9
2	☐	2.000	1.326	156.67	0.0002	P	26.0
3	☐	5.000	4.118	263.34	0.0003	P	6.9
4	☐	10.000	9.656	473.35	0.0006	P	6.8
5	☐	100.000	98.590	3817.28	0.0048	P	3.1
6	☐	200.000	200.751	7612.26	0.0097	P	3.5

y = 4.7670E-005 * x + 1.3203E-004
R = 1.0000
DL = 5.643
BEC = 2.77

Weight: <None>
Min Conc: <None>

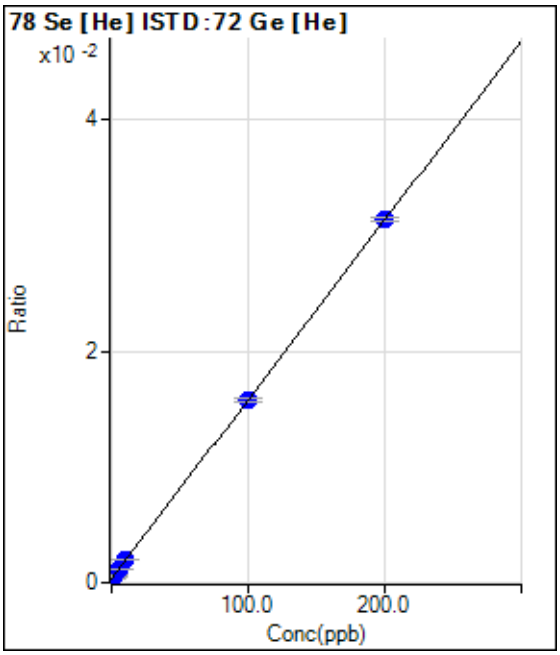
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17558.40	0.0067	P	0.4
2	☐	2.000	1.256	18396.06	0.0070	P	1.8
3	☐	5.000	4.752	20068.51	0.0078	P	1.2
4	☐	10.000	10.499	23270.42	0.0090	P	0.6
5	☐	100.000	97.924	71476.16	0.0281	P	2.0
6	☐	200.000	201.027	126517.42	0.0507	P	2.8

y = 2.1852E-004 * x + 0.0067
R = 0.9999
DL = 0.4033
BEC = 30.81

Weight: <None>
Min Conc: <None>

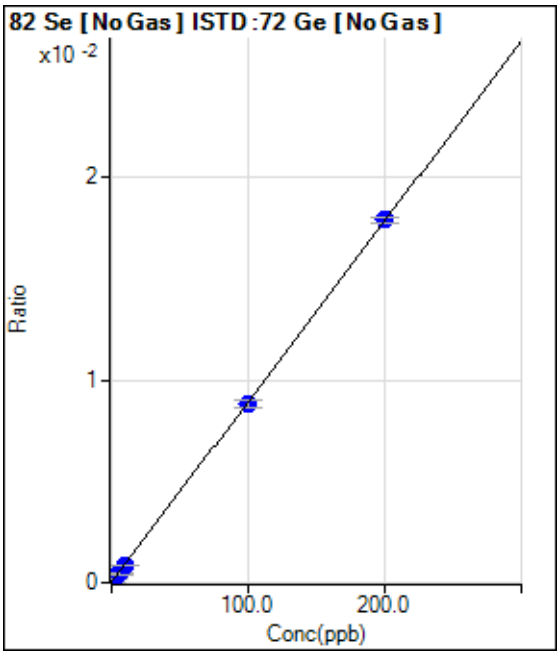


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	264.00	0.0003	P	6.0
2	☐	2.000	1.576	458.01	0.0006	P	5.4
3	☐	5.000	5.247	912.70	0.0011	P	2.9
4	☐	10.000	10.620	1575.43	0.0020	P	3.8
5	☐	100.000	99.410	12417.73	0.0157	P	2.1
6	☐	200.000	200.262	24576.39	0.0313	P	1.2

y = 1.5479E-004 * x + 3.2663E-004
R = 1.0000
DL = 0.3786
BEC = 2.11

Weight: <None>
Min Conc: <None>

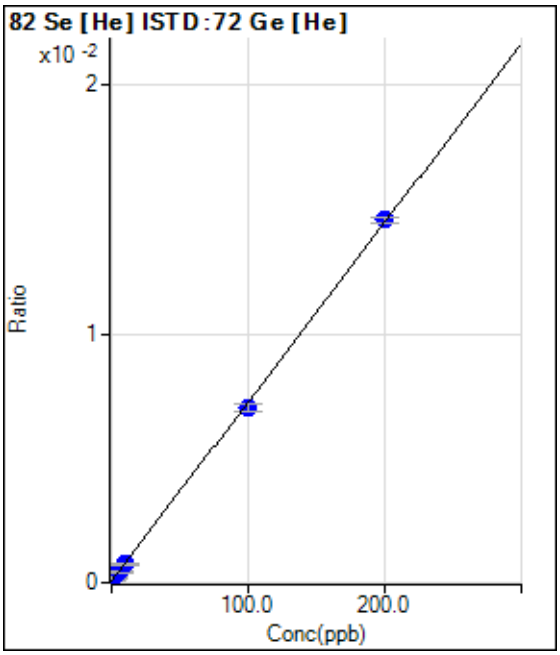
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.72	0.0000	P	37.9
2	☐	2.000	1.717	477.90	0.0002	P	16.6
3	☐	5.000	4.593	1131.44	0.0004	P	5.2
4	☐	10.000	9.240	2197.90	0.0009	P	4.9
5	☐	100.000	98.601	22404.18	0.0088	P	3.8
6	☐	200.000	200.750	44757.15	0.0179	P	1.5

y = 8.9143E-005 * x + 2.8581E-005
R = 1.0000
DL = 0.3643
BEC = 0.3206

Weight: <None>
Min Conc: <None>

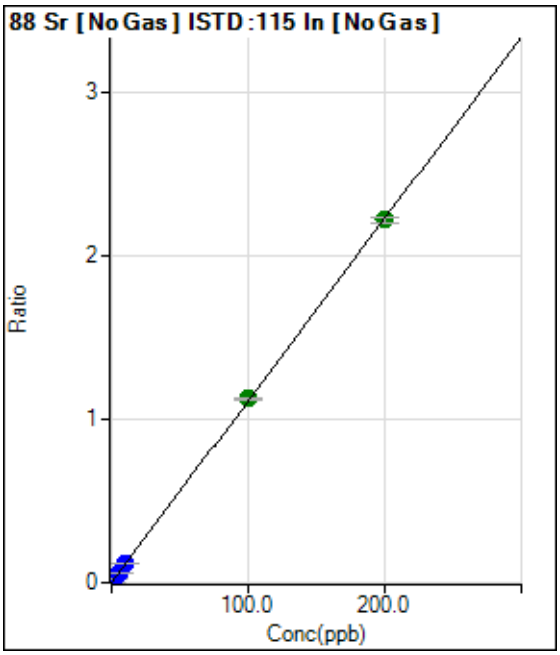


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	21.7
2	☐	2.000	1.966	166.67	0.0002	P	22.4
3	☐	5.000	5.029	343.34	0.0004	P	7.5
4	☐	10.000	9.344	590.02	0.0007	P	12.9
5	☐	100.000	96.752	5557.92	0.0070	P	5.4
6	☐	200.000	201.656	11441.73	0.0146	P	1.4

y = 7.1994E-005 * x + 6.5991E-005
R = 0.9998
DL = 0.597
BEC = 0.9166

Weight: <None>
Min Conc: <None>

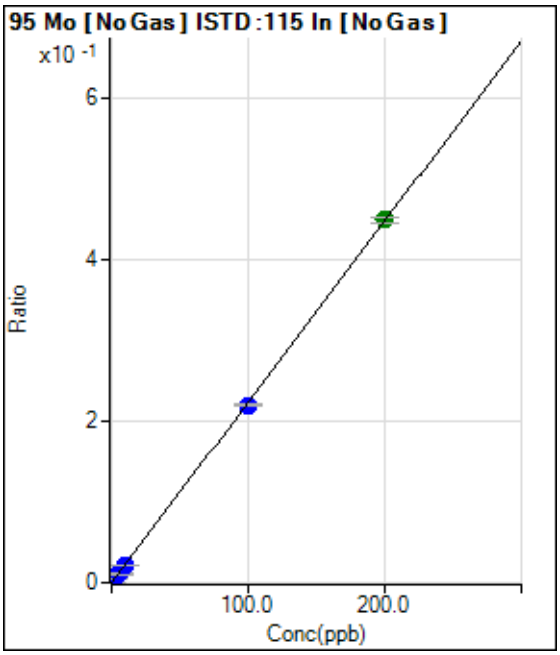
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1516.78	0.0005	P	9.8
2	☐	2.000	2.078	65804.98	0.0236	P	2.7
3	☐	5.000	5.099	160984.74	0.0573	P	4.6
4	☐	10.000	10.487	323246.44	0.1172	P	2.3
5	☐	100.000	101.050	3077770.16	1.1244	A	1.6
6	☐	200.000	199.448	5970422.62	2.2188	A	1.9

y = 0.0111 * x + 5.4232E-004
R = 1.0000
DL = 0.01429
BEC = 0.04876

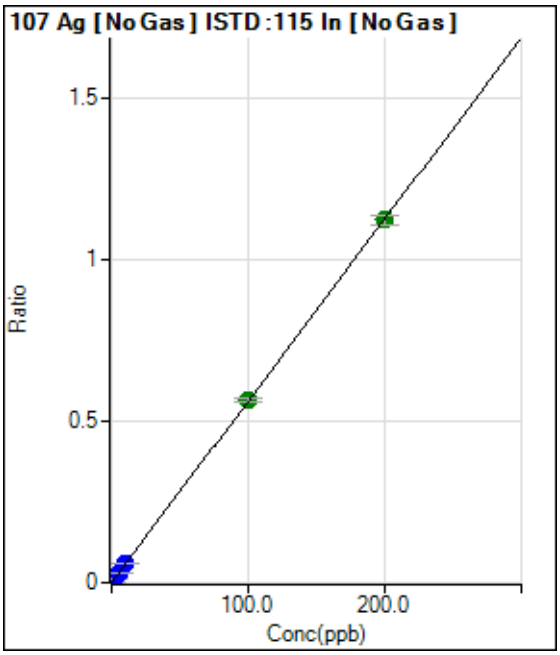
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0001	P	9.2
2	☐	2.000	1.941	12395.99	0.0045	P	3.4
3	☐	5.000	4.815	30582.11	0.0109	P	5.4
4	☐	10.000	9.828	60895.82	0.0221	P	3.3
5	☐	100.000	98.298	601568.53	0.2198	P	1.4
6	☐	200.000	200.865	1208005.95	0.4490	A	1.8

y = 0.0022 * x + 1.1911E-004
R = 1.0000
DL = 0.01478
BEC = 0.05331

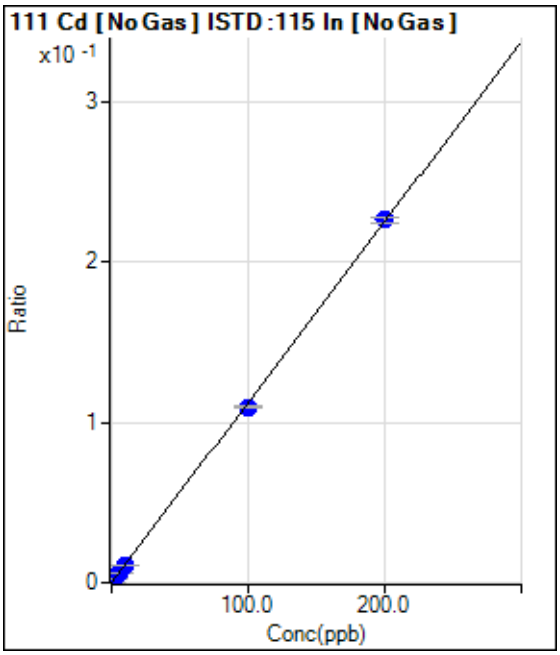
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	41.3
2	☐	2.000	2.003	31421.15	0.0113	P	3.8
3	☐	5.000	4.997	79143.06	0.0281	P	3.6
4	☐	10.000	10.227	158790.02	0.0576	P	2.0
5	☐	100.000	100.451	1546948.21	0.5651	A	1.4
6	☐	200.000	199.763	3023730.37	1.1239	A	2.4

y = 0.0056 * x + 2.3741E-005
R = 1.0000
DL = 0.005231
BEC = 0.00422

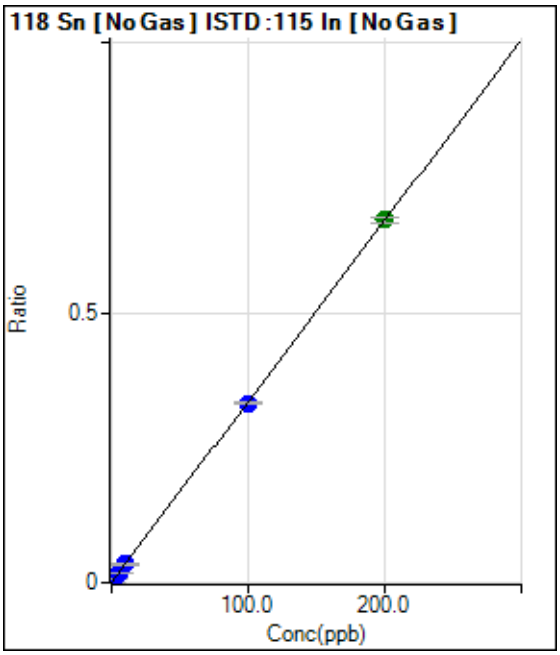
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-3.82	0.0000	P	-157.6
2	☐	2.000	1.959	6115.33	0.0022	P	5.0
3	☐	5.000	4.971	15699.28	0.0056	P	4.4
4	☐	10.000	9.948	30827.07	0.0112	P	1.6
5	☐	100.000	97.523	299757.40	0.1095	P	1.0
6	☐	200.000	201.242	608024.64	0.2260	P	1.8

y = 0.0011 * x - 1.3980E-006
R = 0.9999
DL = 0.005886
BEC = -0.001245

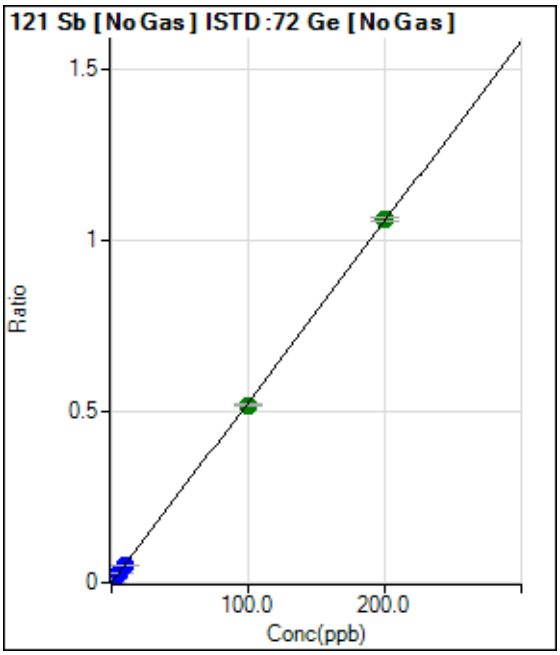
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1473.45	0.0005	P	13.0
2	☐	2.000	1.945	19618.35	0.0070	P	1.1
3	☐	5.000	4.830	47024.56	0.0167	P	3.1
4	☐	10.000	9.973	93645.98	0.0339	P	2.0
5	☐	100.000	98.979	909262.38	0.3322	P	0.9
6	☐	200.000	200.517	1809468.62	0.6724	A	1.5

y = 0.0034 * x + 5.2827E-004
R = 1.0000
DL = 0.06169
BEC = 0.1577

Weight: <None>
Min Conc: <None>

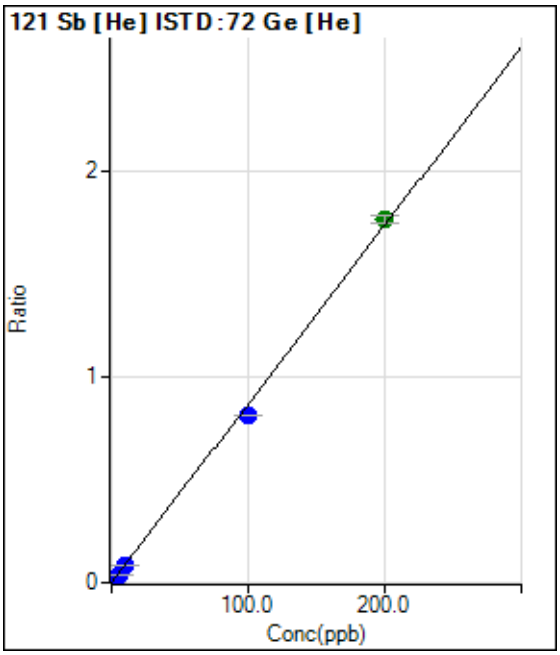


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	226.67	0.0001	P	34.3
2	☐	2.000	1.886	26326.80	0.0100	P	5.1
3	☐	5.000	4.858	66354.67	0.0257	P	0.9
4	☐	10.000	9.854	134128.97	0.0520	P	0.1
5	☐	100.000	98.233	1315758.16	0.5178	A	1.4
6	☐	200.000	200.895	2644361.63	1.0589	A	1.1

y = 0.0053 * x + 8.6679E-005
R = 0.9999
DL = 0.01694
BEC = 0.01645

Weight: <None>
Min Conc: <None>

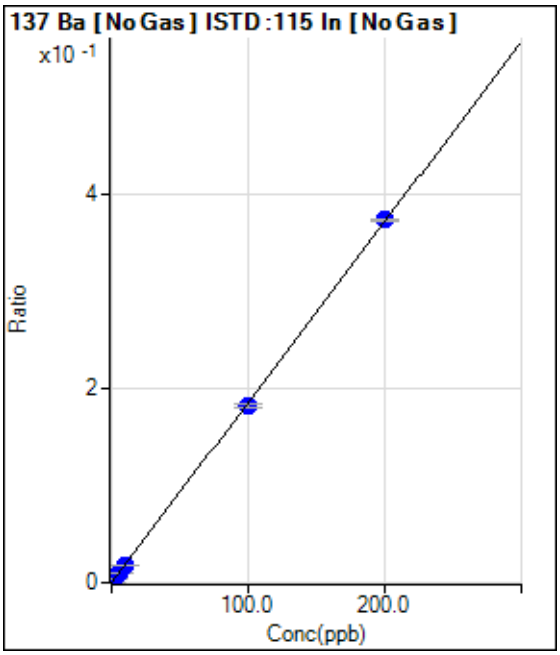
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0001	P	20.0
2	☐	2.000	1.851	12996.66	0.0162	P	2.1
3	☐	5.000	4.665	32547.47	0.0406	P	0.5
4	☐	10.000	9.347	64947.28	0.0812	P	1.4
5	☐	100.000	93.746	643023.66	0.8138	P	1.0
6	☐	200.000	203.170	1383458.89	1.7634	A	2.1

y = 0.0087 * x + 1.2372E-004
R = 0.9993
DL = 0.008562
BEC = 0.01426

Weight: <None>
Min Conc: <None>

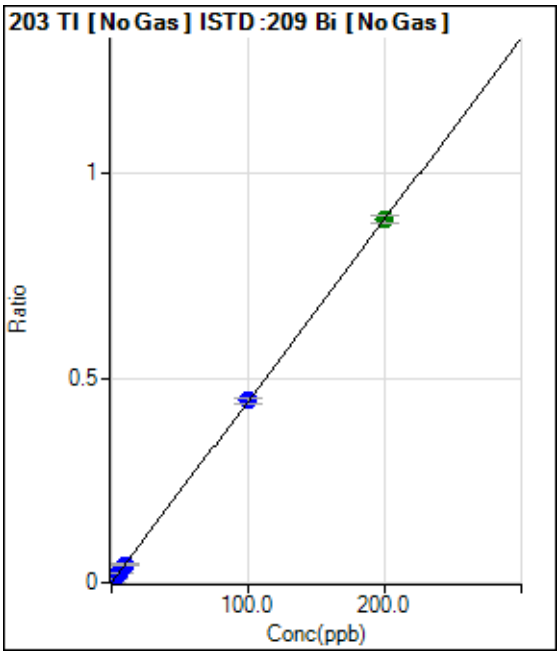


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	393.35	0.0001	P	21.1
2	☐	2.000	1.978	10604.54	0.0038	P	0.5
3	☐	5.000	4.961	26280.23	0.0093	P	1.6
4	☐	10.000	9.975	51412.12	0.0186	P	0.3
5	☐	100.000	97.883	496959.16	0.1816	P	1.5
6	☐	200.000	201.061	1003250.77	0.3728	P	0.6

y = 0.0019 * x + 1.4074E-004
R = 0.9999
DL = 0.04796
BEC = 0.07593

Weight: <None>
Min Conc: <None>

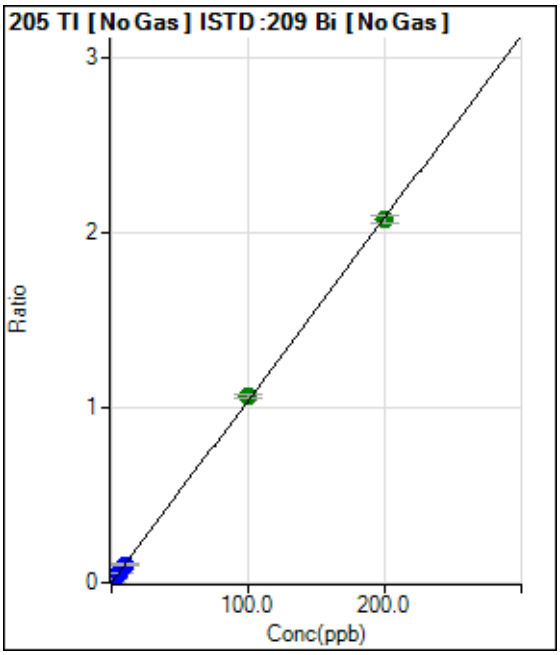
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	67.8
2	☐	2.000	2.072	21642.48	0.0092	P	2.9
3	☐	5.000	5.096	52336.69	0.0226	P	4.6
4	☐	10.000	9.891	101507.42	0.0439	P	4.5
5	☐	100.000	100.270	996888.69	0.4447	P	2.7
6	☐	200.000	199.867	1955471.85	0.8864	A	2.2

y = 0.0044 * x + 2.8502E-005
R = 1.0000
DL = 0.01307
BEC = 0.006427

Weight: <None>
Min Conc: <None>

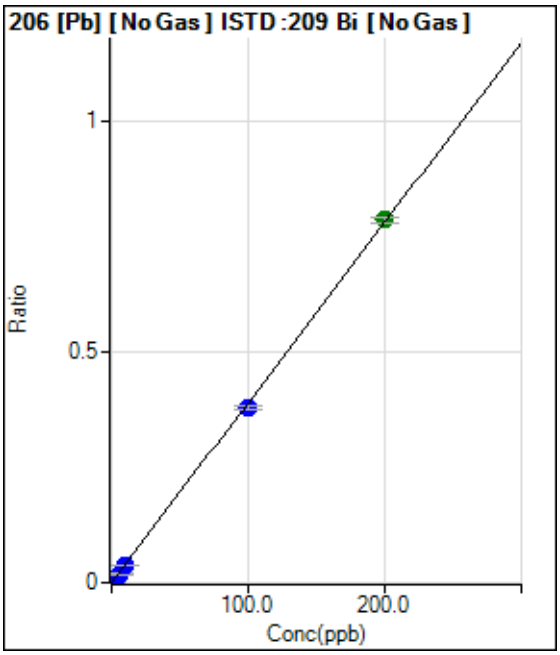


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	210.00	0.0001	P	23.9
2	☐	2.000	2.066	50827.42	0.0216	P	3.2
3	☐	5.000	5.188	125367.09	0.0542	P	3.9
4	☐	10.000	10.006	241646.33	0.1044	P	2.5
5	☐	100.000	102.074	2386797.62	1.0647	A	2.5
6	☐	200.000	198.957	4578033.16	2.0751	A	2.2

y = 0.0104 * x + 9.0149E-005
R = 0.9999
DL = 0.006199
BEC = 0.008644

Weight: <None>
Min Conc: <None>

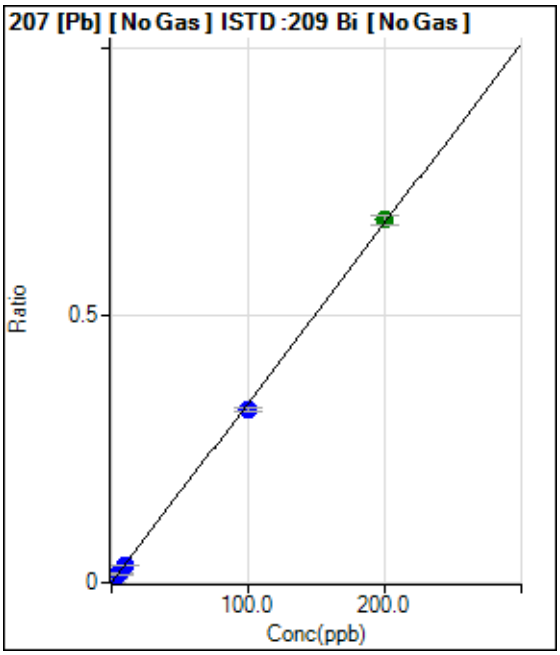
Calibration for 315_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0000	P	41.8
2	☐	2.000	1.918	17616.06	0.0075	P	2.7
3	☐	5.000	4.767	43001.24	0.0186	P	5.5
4	☐	10.000	9.740	87778.40	0.0380	P	4.5
5	☐	100.000	96.886	845704.26	0.3772	P	2.2
6	☐	200.000	201.577	1731329.35	0.7848	A	1.9

y = 0.0039 * x + 3.4186E-005
R = 0.9998
DL = 0.01101
BEC = 0.008781

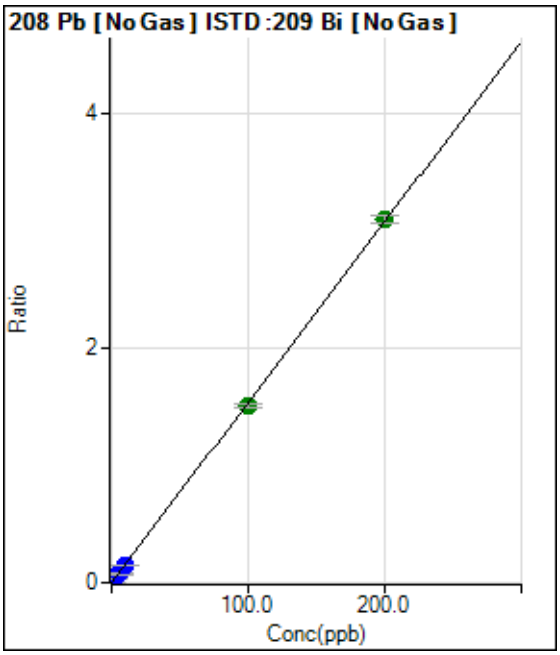
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	123.34	0.0001	P	28.2
2	☐	2.000	1.916	15259.58	0.0065	P	2.4
3	☐	5.000	4.842	37807.71	0.0163	P	4.2
4	☐	10.000	9.583	74700.72	0.0323	P	4.2
5	☐	100.000	96.206	725773.40	0.3237	P	2.3
6	☐	200.000	201.923	1498821.69	0.6794	A	2.4

y = 0.0034 * x + 5.3071E-005
R = 0.9998
DL = 0.01335
BEC = 0.01577

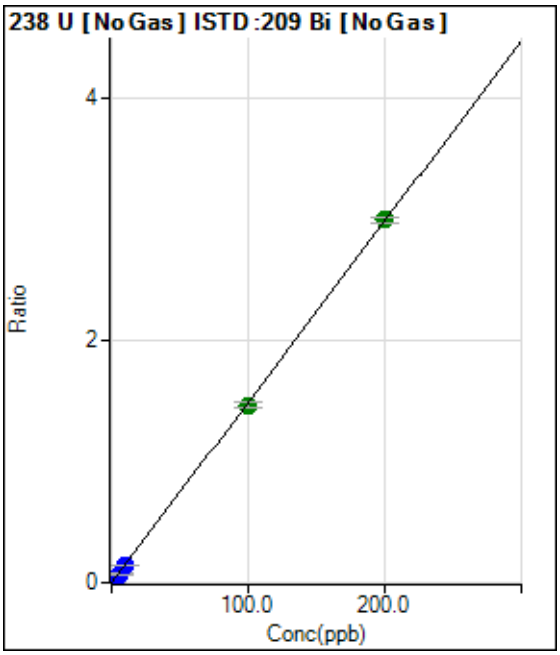
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	420.01	0.0002	P	8.5
2	☐	2.000	1.935	70158.54	0.0299	P	3.0
3	☐	5.000	4.831	171897.63	0.0743	P	4.3
4	☐	10.000	9.753	346601.17	0.1498	P	3.9
5	☐	100.000	97.720	3362480.39	1.4998	A	2.1
6	☐	200.000	201.157	6810904.74	3.0872	A	1.9

y = 0.0153 * x + 1.8068E-004
R = 0.9999
DL = 0.002986
BEC = 0.01177

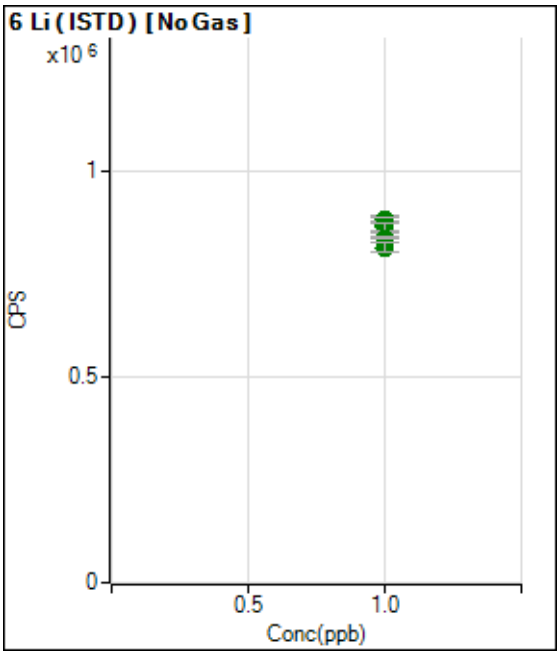
Weight: <None>
Min Conc: <None>



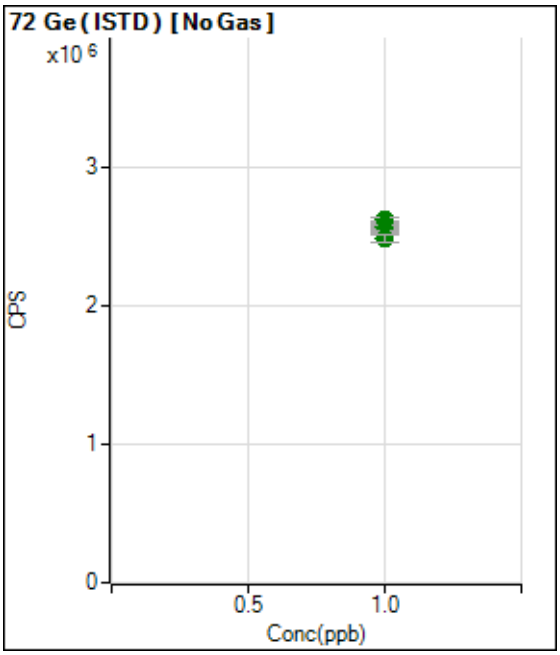
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0000	P	34.4
2	☐	2.000	1.891	66095.44	0.0281	P	3.4
3	☐	5.000	4.734	162929.27	0.0704	P	4.2
4	☐	10.000	9.664	332548.38	0.1438	P	4.1
5	☐	100.000	98.235	3276195.58	1.4614	A	2.9
6	☐	200.000	200.907	6593887.61	2.9889	A	1.4

y = 0.0149 * x + 2.0152E-005
R = 0.9999
DL = 0.001399
BEC = 0.001355

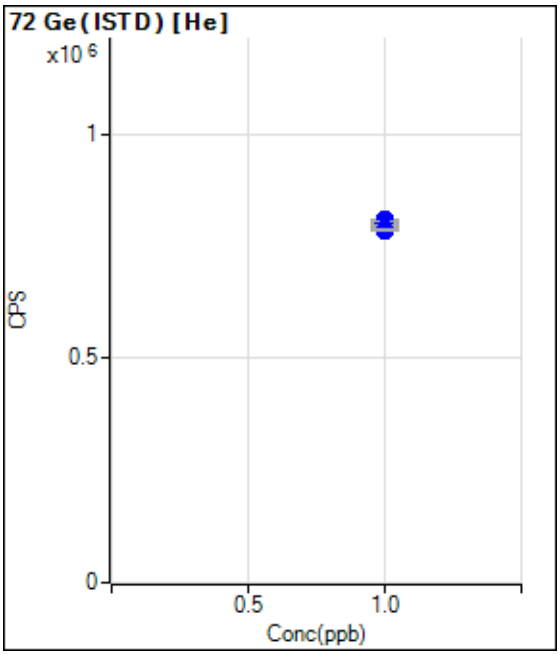
Weight: <None>
Min Conc: <None>



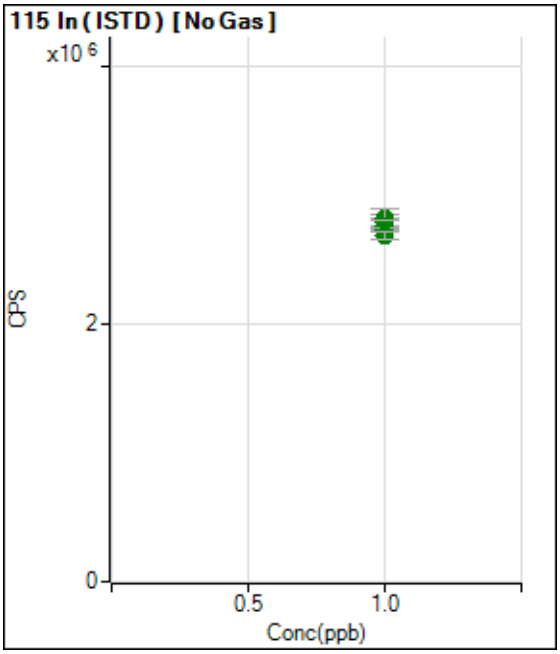
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		868082.83		A	4.7
2	☐	1.000		865767.95		A	3.1
3	☐	1.000		879987.20		A	1.6
4	☐	1.000		863195.78		A	1.7
5	☐	1.000		837208.57		A	0.4
6	☐	1.000		812550.14		A	3.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2608275.27		A	1.2
2	☐	1.000		2626231.32		A	1.9
3	☐	1.000		2582822.31		A	0.4
4	☐	1.000		2578168.14		A	0.8
5	☐	1.000		2540984.70		A	0.5
6	☐	1.000		2497575.69		A	2.2

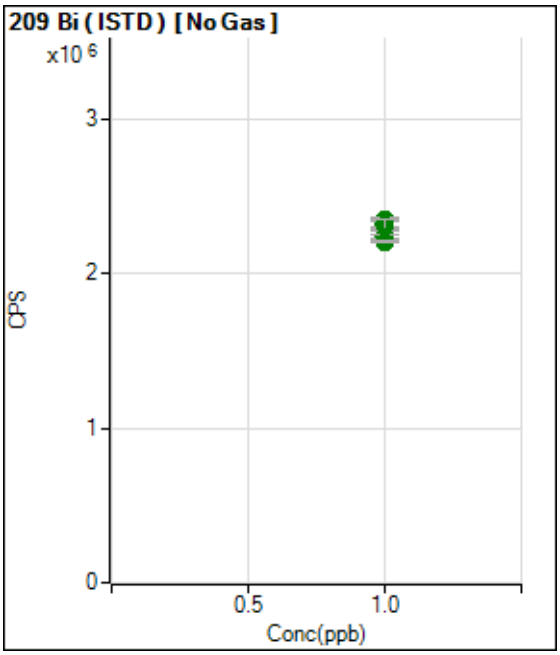


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		808277.75		P	0.1
2	☐	1.000		802731.24		P	0.3
3	☐	1.000		801424.16		P	1.9
4	☐	1.000		799388.53		P	1.0
5	☐	1.000		790287.41		P	1.8
6	☐	1.000		784574.99		P	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2794757.98		A	2.3
2	☐	1.000		2784761.45		A	4.2
3	☐	1.000		2816150.16		A	5.2
4	☐	1.000		2759776.00		A	2.9
5	☐	1.000		2737290.07		A	1.0
6	☐	1.000		2691225.11		A	2.2

Calibration for 315_ICV.d



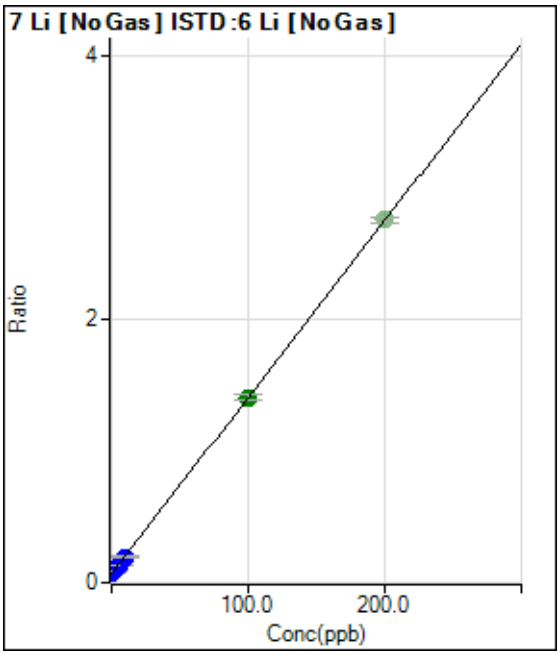
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2324964.65		A	2.4
2	☐	1.000		2348749.86		A	1.1
3	☐	1.000		2314620.49		A	2.6
4	☐	1.000		2314588.51		A	3.0
5	☐	1.000		2242381.32		A	1.4
6	☐	1.000		2206251.11		A	0.6

Calibration for 022_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070723A.b\
Analysis File: 070723A.batch.bin
DA Date-Time: 7/7/2023 11:52:35 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	7/7/2023 11:02:17 AM
2	016CALS.d	2/10/200	7/7/2023 11:04:15 AM
3	017CALS.d	5/25/500	7/7/2023 11:06:11 AM
4	018CALS.d	10/50/100	7/7/2023 11:08:19 AM
5	019CALS.d	100/500/10K	7/7/2023 11:10:14 AM
6	020CALS.d	200/1000/20K	7/7/2023 11:12:07 AM

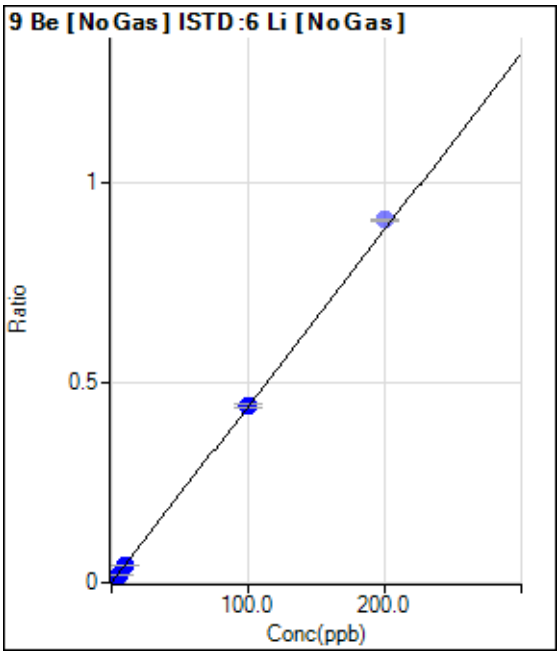
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51500.58	0.0671	P	3.1
2	☐	2.000	1.918	71083.64	0.0927	P	1.5
3	☐	5.000	5.230	103128.24	0.1371	P	0.4
4	☐	10.000	9.597	153163.16	0.1955	P	3.0
5	☐	100.000	100.030	1041288.34	1.4059	A	3.4
6	☑	200.000		1997080.75	2.7515	A	1.5

y = 0.0134 * x + 0.0671
R = 1.0000
DL = 0.4734
BEC = 5.012

Weight: <None>
Min Conc: <None>

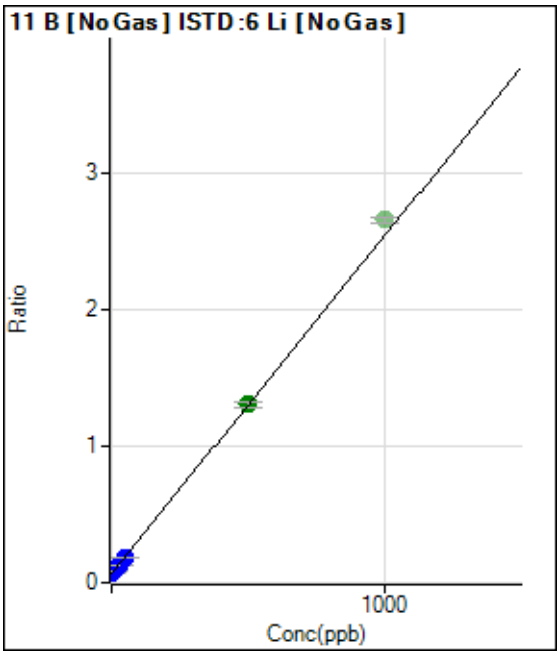


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.00	0.0000	P	56.6
2	☐	2.000	1.863	6313.13	0.0082	P	4.7
3	☐	5.000	4.831	16034.23	0.0213	P	0.4
4	☐	10.000	9.475	32733.12	0.0418	P	2.1
5	☐	100.000	100.064	326625.45	0.4410	P	2.7
6	☑	200.000		657979.99	0.9065	P	0.7

y = 0.0044 * x + 1.9351E-005
R = 1.0000
DL = 0.007459
BEC = 0.004391

Weight: <None>
Min Conc: <None>

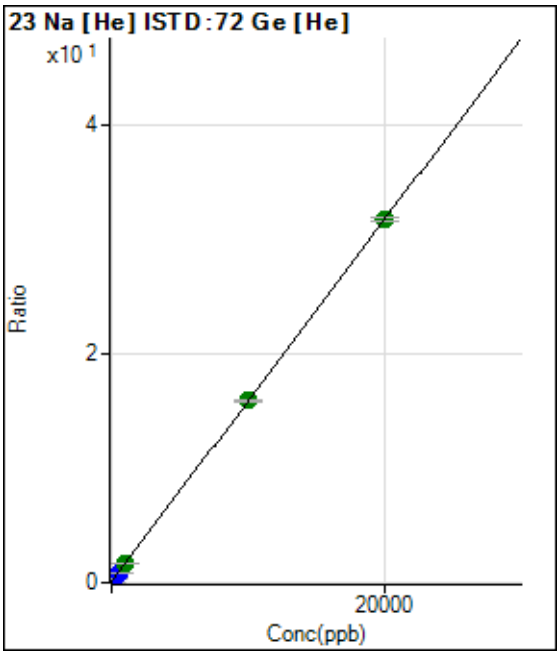
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50401.87	0.0656	P	2.2
2	☐	10.000	9.671	68606.52	0.0895	P	3.0
3	☐	25.000	25.040	95905.23	0.1275	P	1.4
4	☐	50.000	46.809	141996.00	0.1813	P	2.7
5	☐	500.000	500.324	963835.14	1.3014	A	2.6
6	☑	1000.000		1925562.11	2.6529	A	1.5

y = 0.0025 * x + 0.0656
R = 1.0000
DL = 1.764
BEC = 26.58

Weight: <None>
Min Conc: <None>

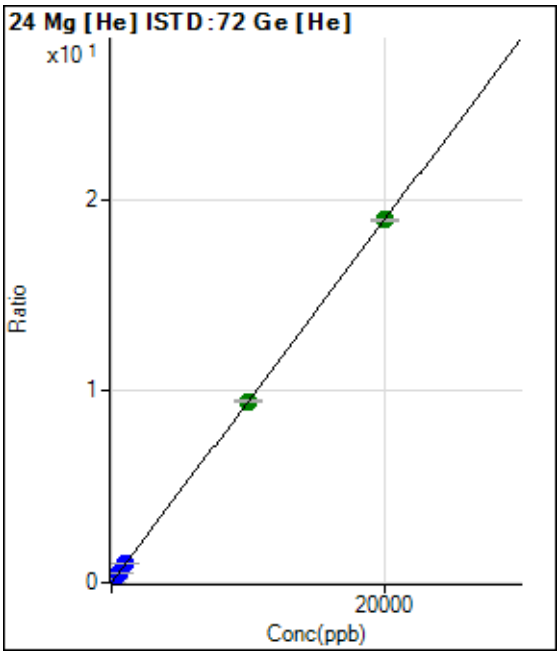


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	57809.75	0.0815	P	0.9
2	☐	200.000	205.013	290639.79	0.4056	P	1.6
3	☐	500.000	518.929	643342.70	0.9019	P	1.8
4	☐	1000.000	999.342	1180361.88	1.6614	A	1.5
5	☐	10000.00	10017.92	11232543.16	15.9197	A	0.7
6	☐	20000.00	19990.55	22199528.00	31.6863	A	1.1

y = 0.0016 * x + 0.0815
R = 1.0000
DL = 1.326
BEC = 51.54

Weight: <None>
Min Conc: <None>

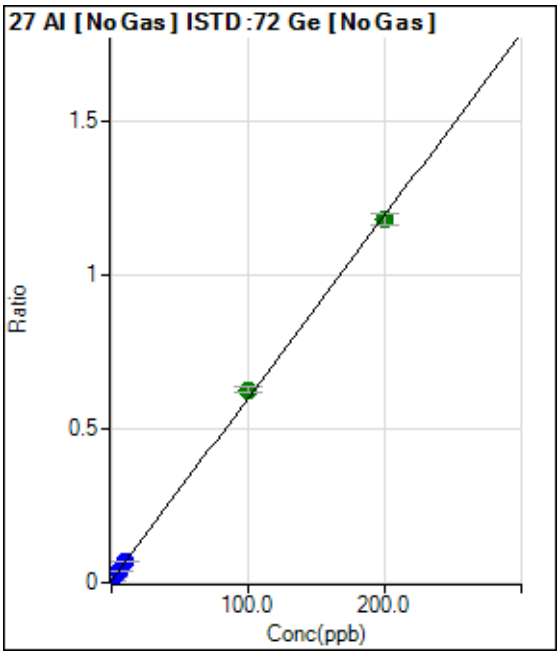
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	486.68	0.0007	P	24.1
2	☐	200.000	209.364	142566.82	0.1990	P	2.0
3	☐	500.000	529.890	358468.30	0.5025	P	1.8
4	☐	1000.000	1047.634	705443.69	0.9929	P	0.9
5	☐	10000.00	9990.883	6676217.40	9.4630	A	1.1
6	☐	20000.00	20001.33	13271985.22	18.9438	A	0.3

y = 9.4709E-004 * x + 6.8641E-004
R = 1.0000
DL = 0.5239
BEC = 0.7247

Weight: <None>
Min Conc: <None>

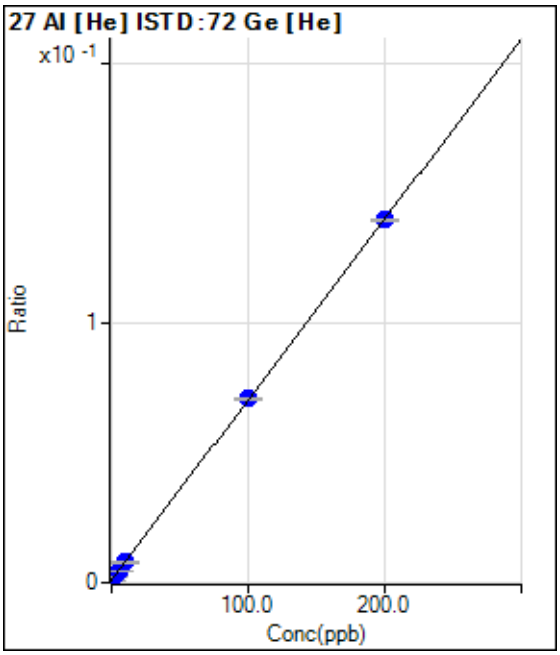


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15515.56	0.0068	P	1.2
2	☐	2.000	1.989	42171.11	0.0186	P	2.1
3	☐	5.000	5.545	89511.68	0.0397	P	3.0
4	☐	10.000	10.618	156716.02	0.0699	P	2.2
5	☐	100.000	104.675	1416560.87	0.6286	A	3.2
6	☐	200.000	197.618	2693190.48	1.1807	A	3.1

y = 0.0059 * x + 0.0068
R = 0.9996
DL = 0.04042
BEC = 1.145

Weight: <None>
Min Conc: <None>

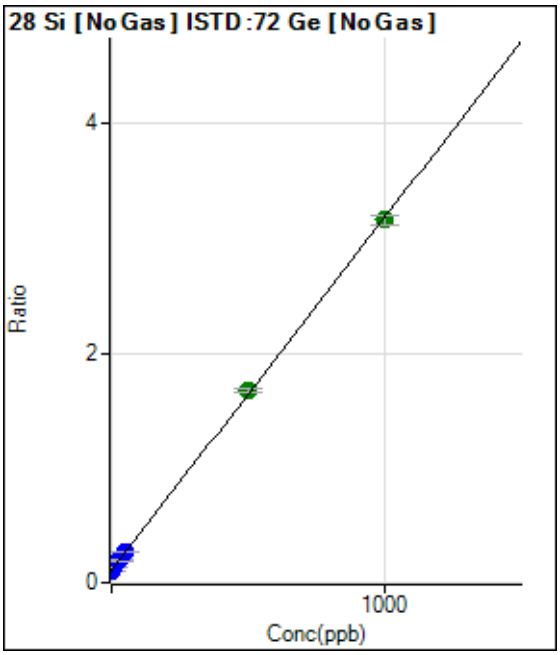
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	643.37	0.0009	P	12.7
2	☐	2.000	1.606	1450.11	0.0020	P	2.7
3	☐	5.000	5.029	3137.06	0.0044	P	7.6
4	☐	10.000	9.919	5541.22	0.0078	P	3.2
5	☐	100.000	100.555	49929.90	0.0708	P	1.6
6	☐	200.000	199.730	97859.57	0.1397	P	0.2

y = 6.9483E-004 * x + 9.0649E-004
R = 1.0000
DL = 0.4954
BEC = 1.305

Weight: <None>
Min Conc: <None>

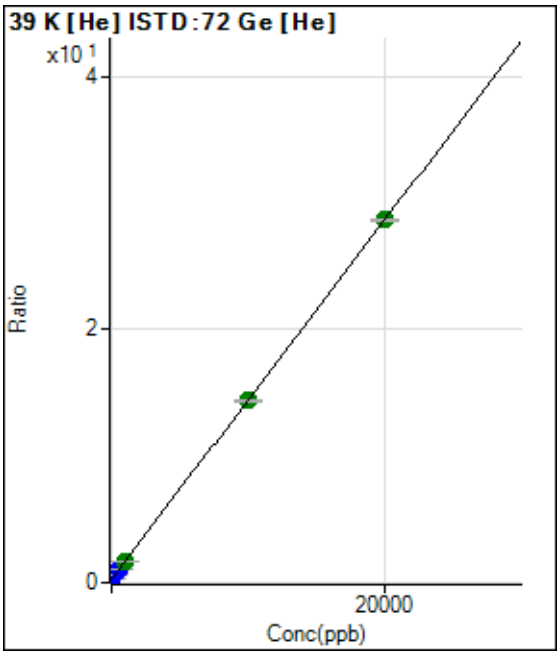


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244670.59	0.1072	P	2.9
2	☐	10.000	10.436	315595.99	0.1393	P	1.0
3	☐	25.000	27.890	434499.94	0.1930	P	4.8
4	☐	50.000	53.977	612676.16	0.2731	P	0.9
5	☐	500.000	511.829	3786982.34	1.6802	A	2.1
6	☐	1000.000	993.810	7210364.89	3.1614	A	2.3

y = 0.0031 * x + 0.1072
R = 0.9999
DL = 3.084
BEC = 34.9

Weight: <None>
Min Conc: <None>

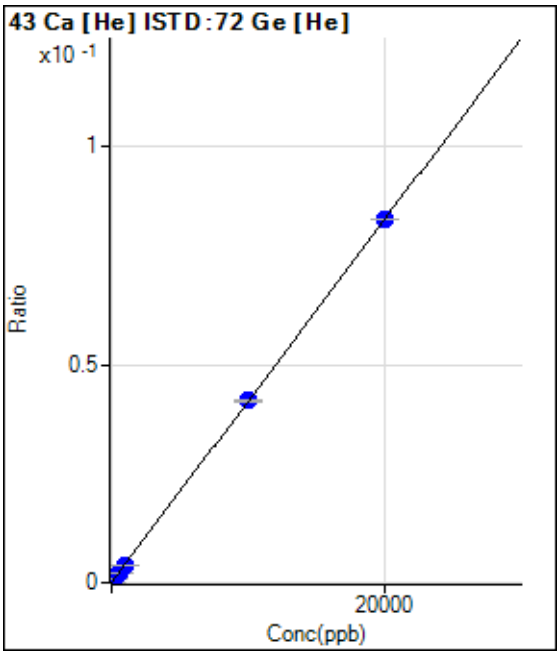
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190542.86	0.2686	P	0.8
2	☐	200.000	195.675	391470.18	0.5464	P	1.9
3	☐	500.000	512.658	710705.93	0.9963	P	1.5
4	☐	1000.000	1029.770	1229510.32	1.7303	A	1.9
5	☐	10000.00	9949.504	10154039.43	14.3915	A	1.6
6	☐	20000.00	20023.48	20100326.78	28.6912	A	0.7

y = 0.0014 * x + 0.2686
R = 1.0000
DL = 4.797
BEC = 189.2

Weight: <None>
Min Conc: <None>

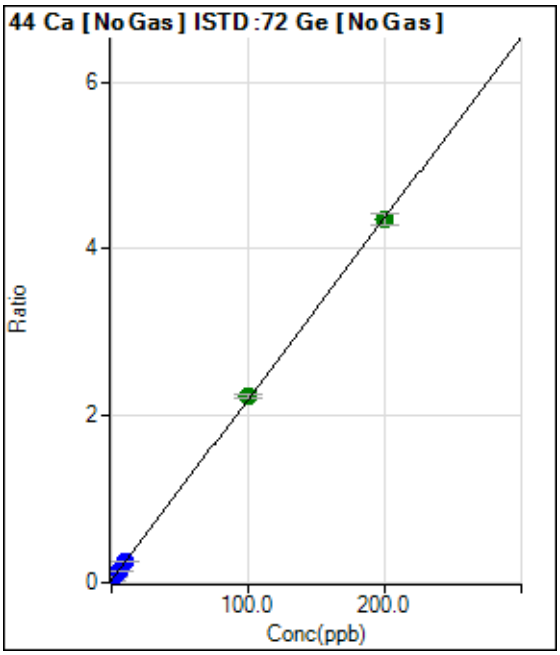


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.67	0.0001	P	42.0
2	☐	200.000	185.762	590.03	0.0008	P	3.5
3	☐	500.000	498.358	1513.45	0.0021	P	4.5
4	☐	1000.000	954.285	2853.69	0.0040	P	1.8
5	☐	10000.00	10014.52	29398.39	0.0417	P	0.6
6	☐	20000.00	19995.20	58243.58	0.0831	P	0.2

y = 4.1552E-006 * x + 5.1754E-005
R = 1.0000
DL = 15.68
BEC = 12.46

Weight: <None>
Min Conc: <None>

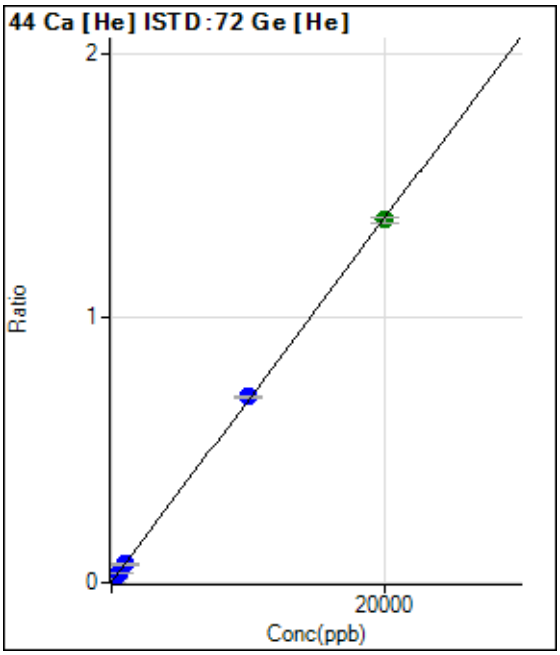
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63194.92	0.0277	P	2.7
2	☐	2.000	2.144	168157.35	0.0742	P	2.1
3	☐	5.000	5.334	323301.06	0.1435	P	2.4
4	☐	10.000	10.665	581561.36	0.2593	P	1.6
5	☐	100.000	101.898	5049757.95	2.2404	A	1.7
6	☐	200.000	199.008	9917877.56	4.3490	A	3.3

y = 0.0217 * x + 0.0277
R = 0.9999
DL = 0.1041
BEC = 1.276

Weight: <None>
Min Conc: <None>

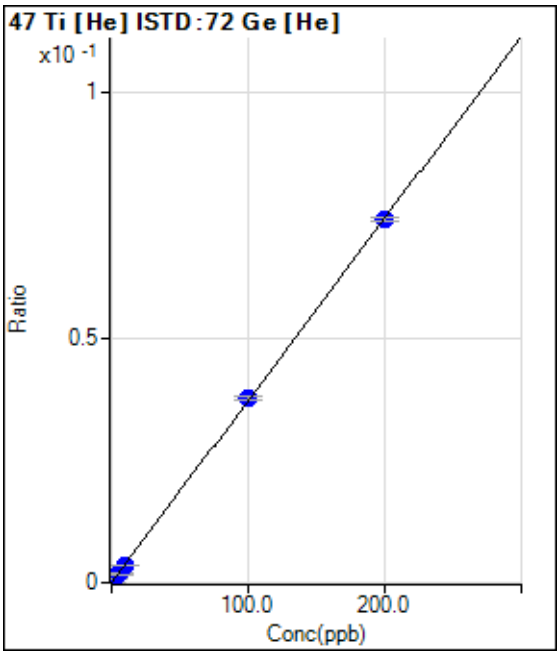


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1146.74	0.0016	P	14.5
2	☐	200.000	204.755	11244.82	0.0157	P	3.1
3	☐	500.000	496.654	25504.02	0.0357	P	2.5
4	☐	1000.000	984.330	49204.76	0.0692	P	1.9
5	☐	10000.00	10180.50	494648.35	0.7011	P	0.8
6	☐	20000.00	19910.56	959459.38	1.3696	A	1.6

y = 6.8709E-005 * x + 0.0016
R = 0.9999
DL = 10.21
BEC = 23.52

Weight: <None>
Min Conc: <None>

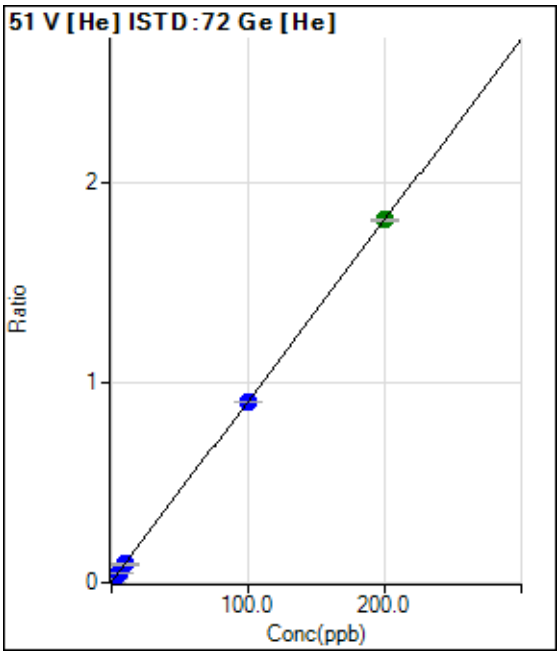
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	69.6
2	☐	2.000	1.775	490.02	0.0007	P	21.8
3	☐	5.000	4.900	1316.76	0.0018	P	12.9
4	☐	10.000	9.594	2546.96	0.0036	P	3.8
5	☐	100.000	101.479	26599.40	0.0377	P	1.7
6	☐	200.000	199.285	51854.66	0.0740	P	1.1

y = 3.7131E-004 * x + 2.3530E-005
R = 1.0000
DL = 0.1324
BEC = 0.06337

Weight: <None>
Min Conc: <None>

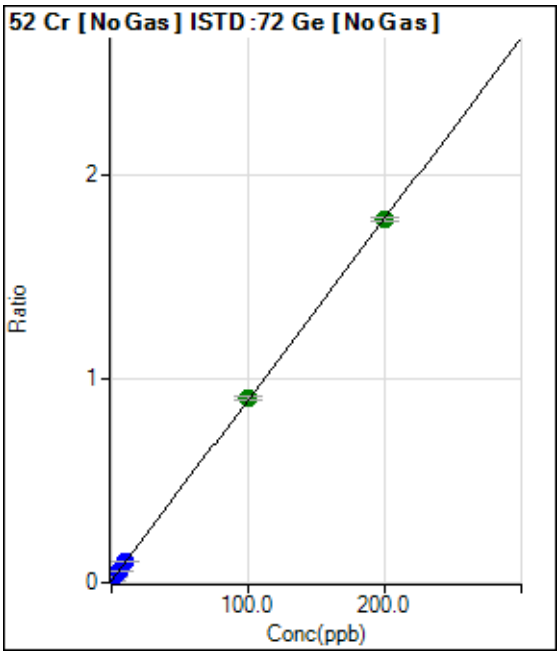


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3111.48	0.0044	P	4.3
2	☐	2.000	1.948	15795.82	0.0220	P	0.6
3	☐	5.000	4.917	34912.17	0.0490	P	3.1
4	☐	10.000	9.617	65037.97	0.0915	P	1.0
5	☐	100.000	99.855	641648.29	0.9094	P	0.2
6	☐	200.000	200.094	1273617.38	1.8179	A	0.6

y = 0.0091 * x + 0.0044
R = 1.0000
DL = 0.06269
BEC = 0.484

Weight: <None>
Min Conc: <None>

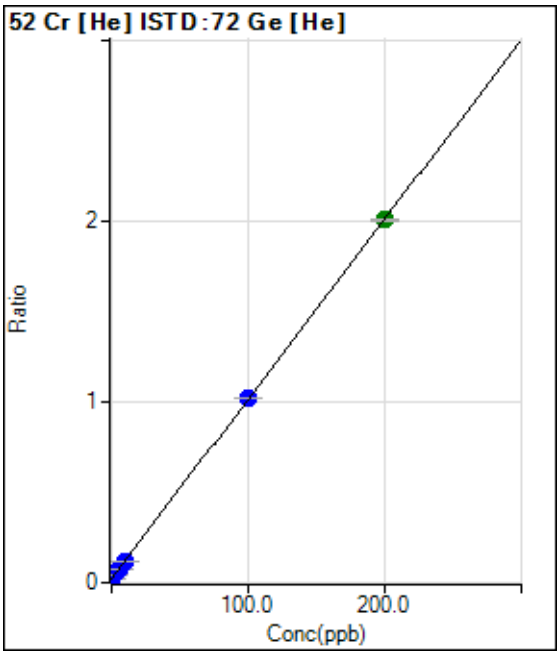
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22047.99	0.0097	P	2.8
2	☐	2.000	2.093	63993.04	0.0282	P	1.0
3	☐	5.000	5.218	126113.89	0.0560	P	2.8
4	☐	10.000	10.389	228561.23	0.1019	P	1.2
5	☐	100.000	101.032	2043253.56	0.9066	A	2.4
6	☐	200.000	199.458	4061475.56	1.7804	A	0.9

y = 0.0089 * x + 0.0097
R = 1.0000
DL = 0.09004
BEC = 1.089

Weight: <None>
Min Conc: <None>

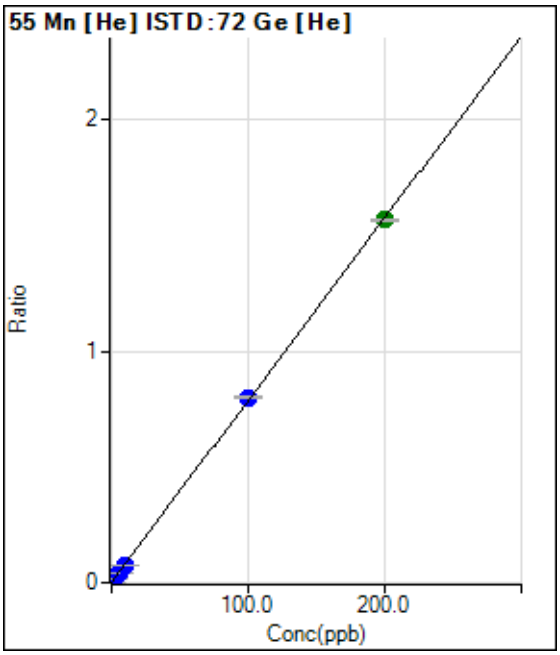


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15835.98	0.0223	P	2.9
2	☐	2.000	1.912	29615.78	0.0413	P	3.4
3	☐	5.000	5.070	51888.73	0.0727	P	1.4
4	☐	10.000	9.906	85851.67	0.1208	P	1.5
5	☐	100.000	100.522	720962.72	1.0219	P	0.9
6	☐	200.000	199.743	1407080.76	2.0085	A	0.8

y = 0.0099 * x + 0.0223
R = 1.0000
DL = 0.1987
BEC = 2.245

Weight: <None>
Min Conc: <None>

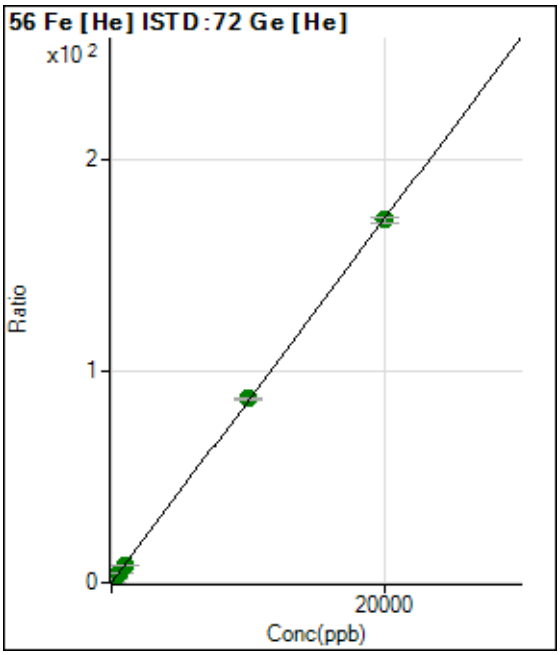
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	833.38	0.0012	P	16.9
2	☐	2.000	1.969	11938.80	0.0167	P	2.7
3	☐	5.000	5.010	28944.32	0.0406	P	2.9
4	☐	10.000	9.796	55569.85	0.0782	P	0.7
5	☐	100.000	101.727	565268.81	0.8013	P	1.7
6	☐	200.000	199.147	1098129.75	1.5675	A	0.7

y = 0.0079 * x + 0.0012
R = 0.9999
DL = 0.07588
BEC = 0.1494

Weight: <None>
Min Conc: <None>

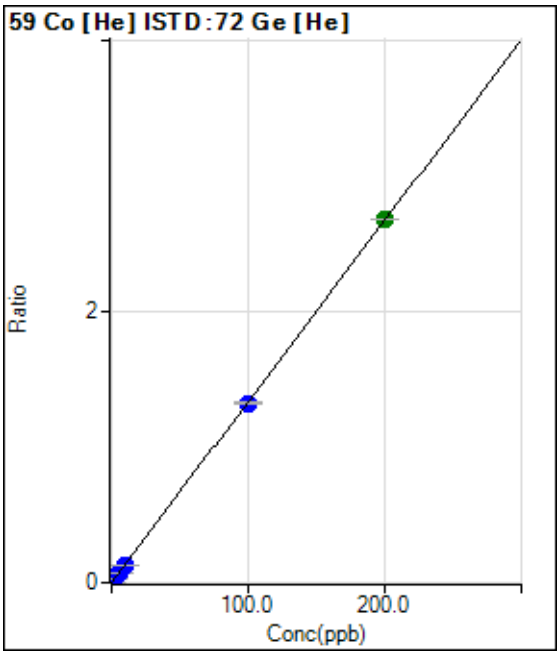


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17374.61	0.0245	P	3.8
2	☐	200.000	204.472	1275258.23	1.7798	A	2.7
3	☐	500.000	511.425	3149039.95	4.4150	A	2.2
4	☐	1000.000	975.721	5968639.08	8.4009	A	1.4
5	☐	10000.00	10112.44	61264950.75	86.8378	A	1.0
6	☐	20000.00	19944.66	119960748.2	171.245	A	1.5

y = 0.0086 * x + 0.0245
R = 1.0000
DL = 0.3284
BEC = 2.853

Weight: <None>
Min Conc: <None>

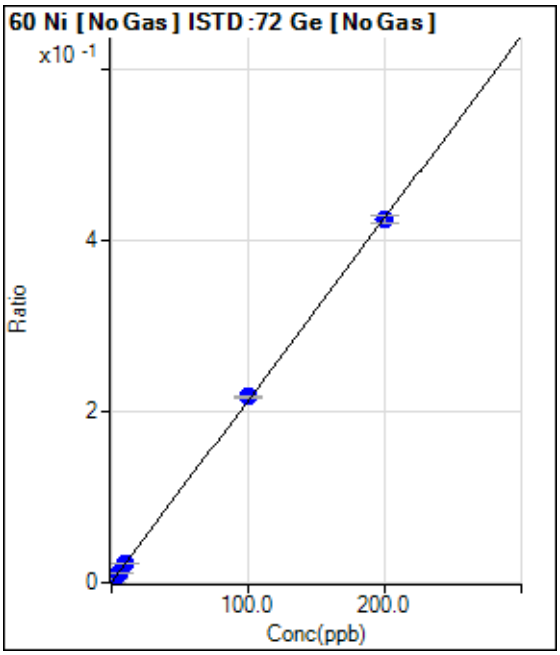
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0001	P	33.5
2	☐	2.000	1.950	18756.52	0.0262	P	2.5
3	☐	5.000	4.937	47151.71	0.0661	P	2.7
4	☐	10.000	9.684	92016.56	0.1295	P	0.6
5	☐	100.000	98.984	933318.19	1.3229	P	0.9
6	☐	200.000	200.526	1877429.50	2.6798	A	0.1

y = 0.0134 * x + 1.1287E-004
R = 1.0000
DL = 0.008483
BEC = 0.008446

Weight: <None>
Min Conc: <None>

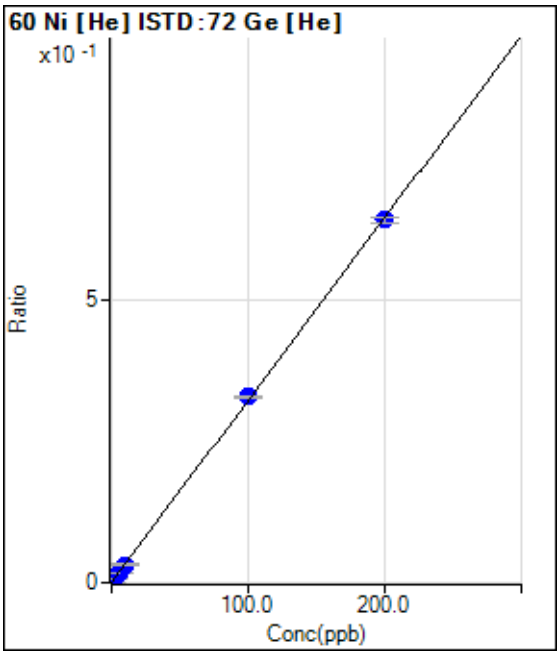


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	760.04	0.0003	P	5.4
2	☐	2.000	2.031	10537.55	0.0047	P	2.3
3	☐	5.000	5.207	25701.32	0.0114	P	1.2
4	☐	10.000	10.270	49737.92	0.0222	P	2.1
5	☐	100.000	101.810	488742.31	0.2168	P	1.8
6	☐	200.000	199.076	966331.55	0.4237	P	2.2

y = 0.0021 * x + 3.3324E-004
R = 0.9999
DL = 0.02523
BEC = 0.1567

Weight: <None>
Min Conc: <None>

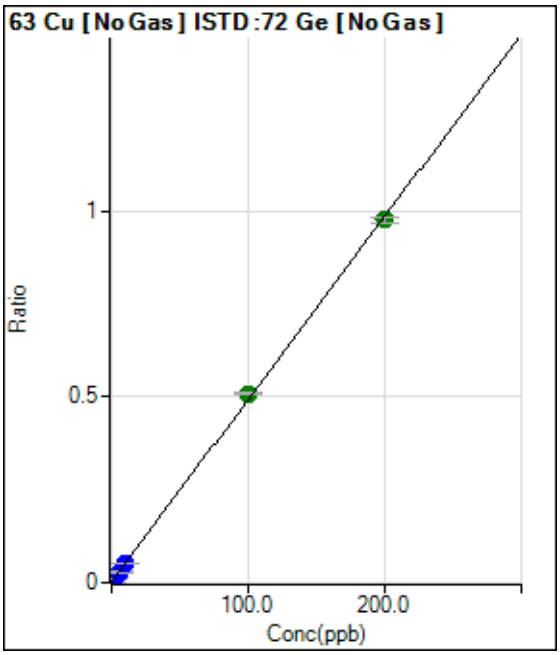
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	313.34	0.0004	P	9.7
2	☐	2.000	1.971	4874.30	0.0068	P	3.4
3	☐	5.000	5.195	12265.70	0.0172	P	5.1
4	☐	10.000	9.845	22882.92	0.0322	P	2.9
5	☐	100.000	102.069	232682.88	0.3298	P	1.2
6	☐	200.000	198.969	450068.42	0.6425	P	1.3

y = 0.0032 * x + 4.4154E-004
R = 0.9999
DL = 0.03983
BEC = 0.1368

Weight: <None>
Min Conc: <None>

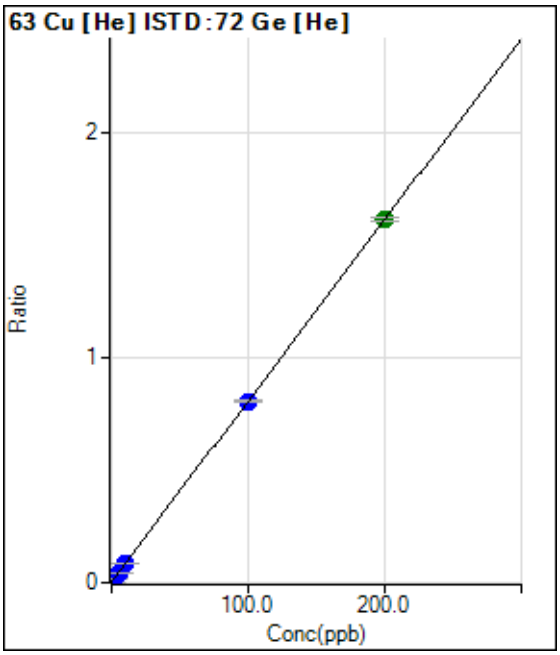


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5157.74	0.0023	P	3.7
2	☐	2.000	2.034	27735.13	0.0122	P	4.2
3	☐	5.000	5.271	63394.55	0.0282	P	4.2
4	☐	10.000	10.324	118795.61	0.0530	P	3.1
5	☐	100.000	103.283	1149047.40	0.5096	A	1.4
6	☐	200.000	198.335	2227422.42	0.9765	A	1.5

y = 0.0049 * x + 0.0023
R = 0.9998
DL = 0.05156
BEC = 0.4601

Weight: <None>
Min Conc: <None>

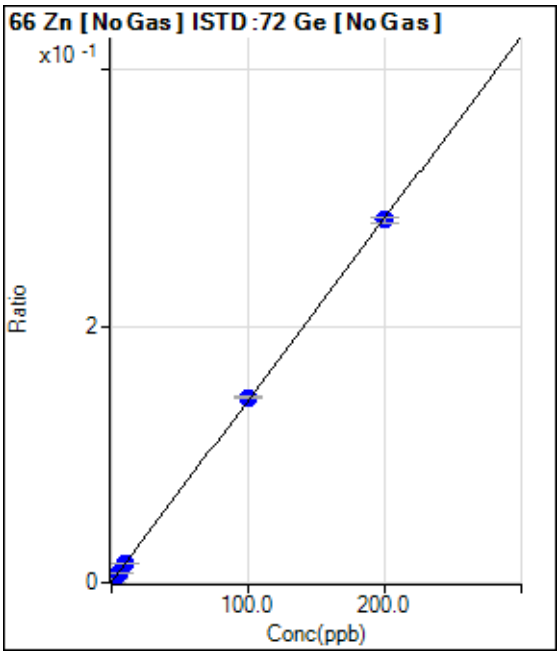
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2210.22	0.0031	P	8.5
2	☐	2.000	1.990	13720.49	0.0192	P	3.3
3	☐	5.000	5.076	31399.95	0.0440	P	1.2
4	☐	10.000	9.834	58516.26	0.0824	P	1.3
5	☐	100.000	99.984	570647.09	0.8088	P	0.8
6	☐	200.000	200.015	1131334.98	1.6148	A	1.1

y = 0.0081 * x + 0.0031
R = 1.0000
DL = 0.09814
BEC = 0.3867

Weight: <None>
Min Conc: <None>

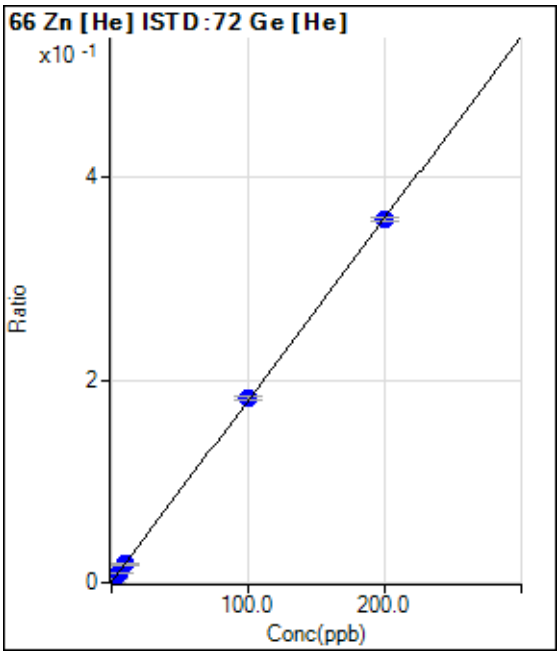


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1163.41	0.0005	P	4.8
2	☐	2.000	1.929	7355.45	0.0032	P	1.7
3	☐	5.000	5.184	17721.91	0.0079	P	1.3
4	☐	10.000	10.131	33368.08	0.0149	P	4.9
5	☐	100.000	101.629	326128.99	0.1447	P	1.4
6	☐	200.000	199.175	645685.34	0.2831	P	1.4

y = 0.0014 * x + 5.1011E-004
R = 1.0000
DL = 0.05152
BEC = 0.3596

Weight: <None>
Min Conc: <None>

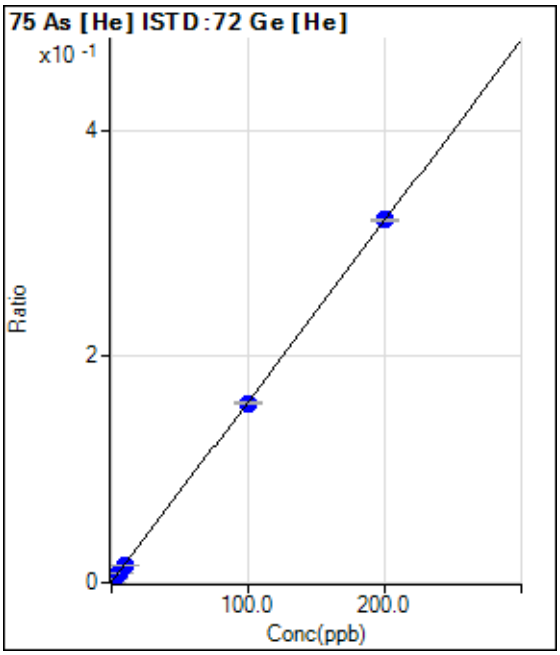
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	380.01	0.0005	P	27.7
2	☐	2.000	2.062	3040.40	0.0042	P	8.4
3	☐	5.000	4.924	6691.76	0.0094	P	1.9
4	☐	10.000	9.757	12829.60	0.0181	P	2.9
5	☐	100.000	101.614	129160.05	0.1831	P	1.9
6	☐	200.000	199.206	251053.92	0.3584	P	1.0

y = 0.0018 * x + 5.3556E-004
R = 1.0000
DL = 0.2477
BEC = 0.2981

Weight: <None>
Min Conc: <None>

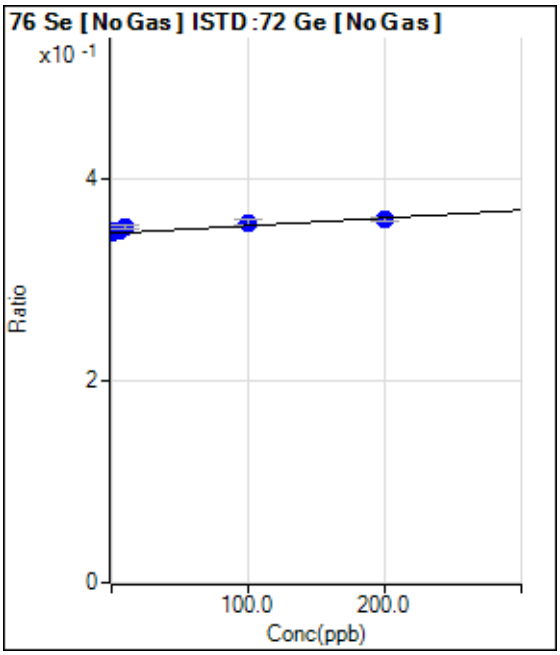


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	276.67	0.0004	P	10.1
2	☐	2.000	1.914	2470.24	0.0034	P	2.0
3	☐	5.000	4.817	5765.71	0.0081	P	0.5
4	☐	10.000	9.698	11279.20	0.0159	P	0.6
5	☐	100.000	99.133	111947.95	0.1587	P	1.3
6	☐	200.000	200.454	224498.49	0.3205	P	0.6

y = 0.0016 * x + 3.9013E-004
R = 1.0000
DL = 0.0742
BEC = 0.2443

Weight: <None>
Min Conc: <None>

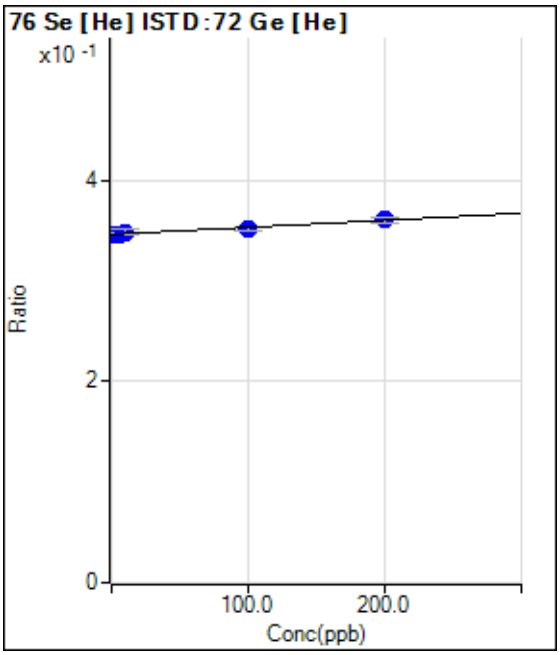
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	791056.81	0.3467	P	2.0
2	☐	2.000	22.572	789343.30	0.3484	P	0.7
3	☐	5.000	41.779	788420.54	0.3499	P	1.1
4	☐	10.000	84.368	792416.11	0.3532	P	1.2
5	☐	100.000	141.325	806014.65	0.3576	P	1.7
6	☐	200.000	174.494	821584.13	0.3601	P	1.0

y = 7.7100E-005 * x + 0.3467
R = 0.9072
DL = 275.5
BEC = 4497

Weight: <None>
Min Conc: <None>

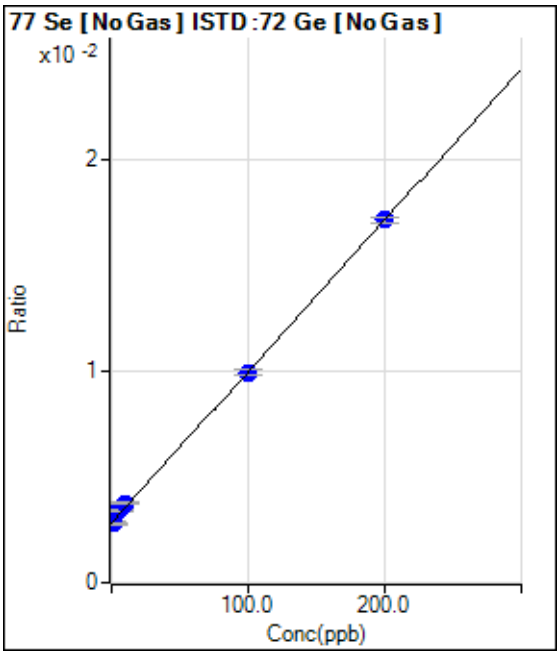


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	245733.51	0.3464	P	2.0
2	☐	2.000	7.889	248635.34	0.3470	P	1.8
3	☐	5.000	6.497	247472.25	0.3469	P	0.7
4	☐	10.000	36.221	247944.35	0.3490	P	1.2
5	☐	100.000	88.933	248803.54	0.3527	P	1.1
6	☐	200.000	204.126	252720.28	0.3608	P	1.7

y = 7.0290E-005 * x + 0.3464
R = 0.9890
DL = 293
BEC = 4928

Weight: <None>
Min Conc: <None>

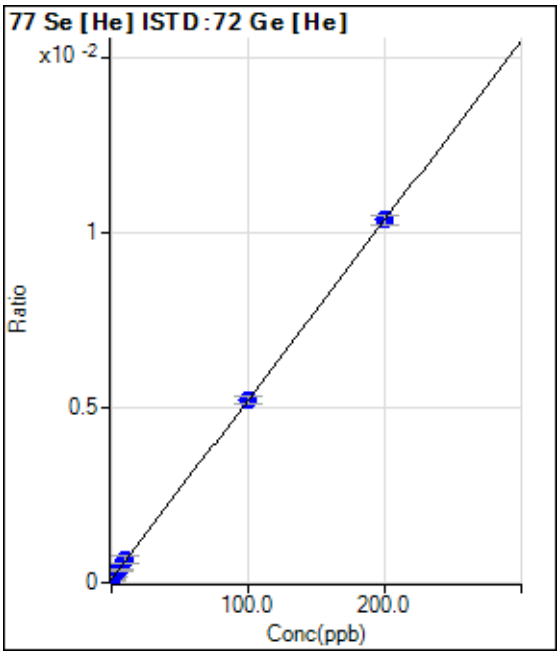
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6454.99	0.0028	P	4.3
2	☐	2.000	-0.330	6348.28	0.0028	P	4.1
3	☐	5.000	8.173	7682.32	0.0034	P	4.3
4	☐	10.000	13.086	8442.78	0.0038	P	3.2
5	☐	100.000	99.386	22392.20	0.0099	P	2.9
6	☐	200.000	200.097	39100.49	0.0171	P	1.9

y = 7.1532E-005 * x + 0.0028
R = 0.9997
DL = 5.1
BEC = 39.52

Weight: <None>
Min Conc: <None>

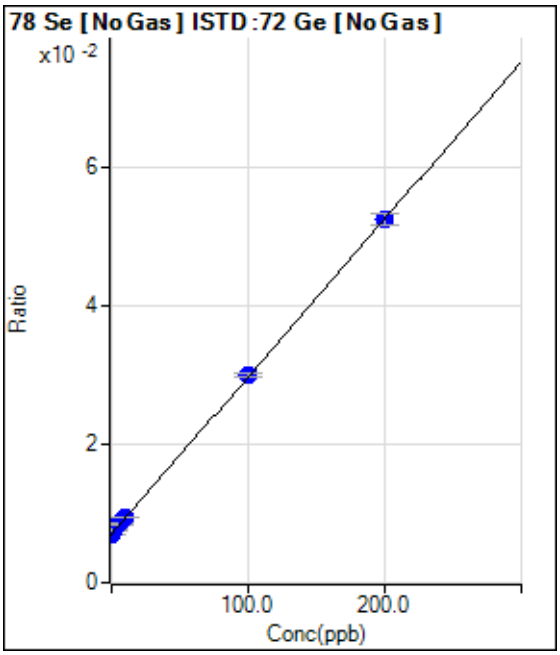


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0001	P	38.1
2	☐	2.000	2.534	163.34	0.0002	P	37.9
3	☐	5.000	5.363	266.67	0.0004	P	13.5
4	☐	10.000	11.144	476.69	0.0007	P	30.0
5	☐	100.000	99.460	3673.91	0.0052	P	4.3
6	☐	200.000	200.198	7275.44	0.0104	P	2.9

y = 5.1377E-005 * x + 9.8737E-005
R = 1.0000
DL = 2.198
BEC = 1.922

Weight: <None>
Min Conc: <None>

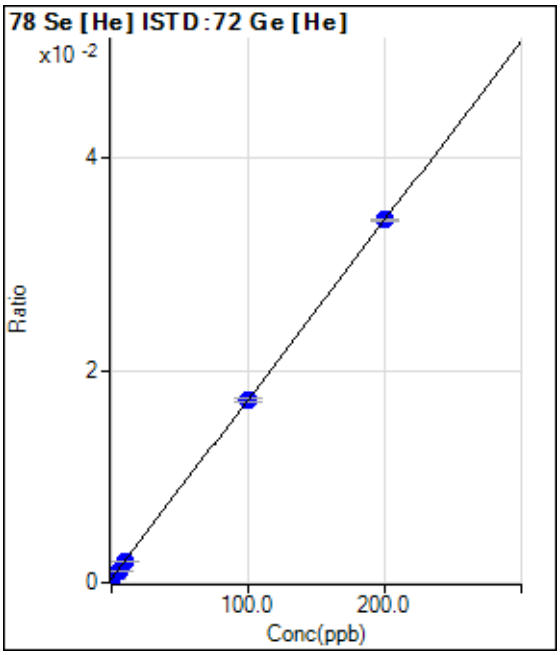
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15959.72	0.0070	P	1.3
2	☐	2.000	2.724	17244.63	0.0076	P	1.2
3	☐	5.000	6.487	19063.70	0.0085	P	5.2
4	☐	10.000	10.683	21130.20	0.0094	P	1.7
5	☐	100.000	100.756	67341.42	0.0299	P	2.0
6	☐	200.000	199.543	119315.81	0.0523	P	3.1

y = 2.2712E-004 * x + 0.0070
R = 1.0000
DL = 1.226
BEC = 30.79

Weight: <None>
Min Conc: <None>

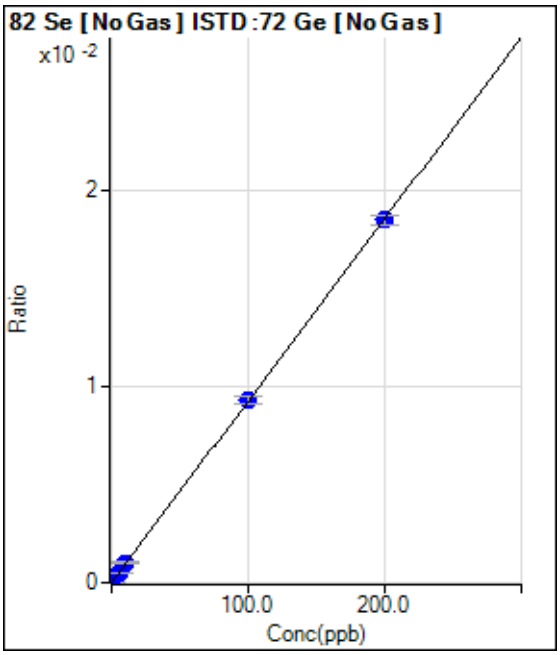


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	278.67	0.0004	P	7.1
2	☐	2.000	1.784	498.01	0.0007	P	6.8
3	☐	5.000	4.297	798.03	0.0011	P	7.1
4	☐	10.000	9.235	1387.41	0.0020	P	2.4
5	☐	100.000	99.666	12153.49	0.0172	P	2.4
6	☐	200.000	200.225	23969.28	0.0342	P	0.3

y = 1.6892E-004 * x + 3.9289E-004
R = 1.0000
DL = 0.4927
BEC = 2.326

Weight: <None>
Min Conc: <None>

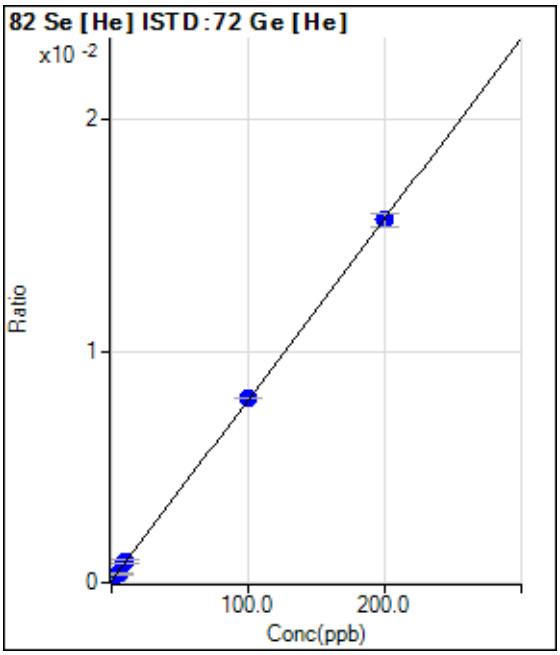
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-59.79	0.0000	P	-170.1
2	☐	2.000	2.821	534.12	0.0002	P	9.9
3	☐	5.000	5.493	1090.82	0.0005	P	9.2
4	☐	10.000	10.906	2211.05	0.0010	P	5.1
5	☐	100.000	100.476	20954.12	0.0093	P	3.8
6	☐	200.000	199.696	42211.76	0.0185	P	2.5

y = 9.2809E-005 * x - 2.6186E-005
R = 1.0000
DL = 1.44
BEC = -0.2821

Weight: <None>
Min Conc: <None>

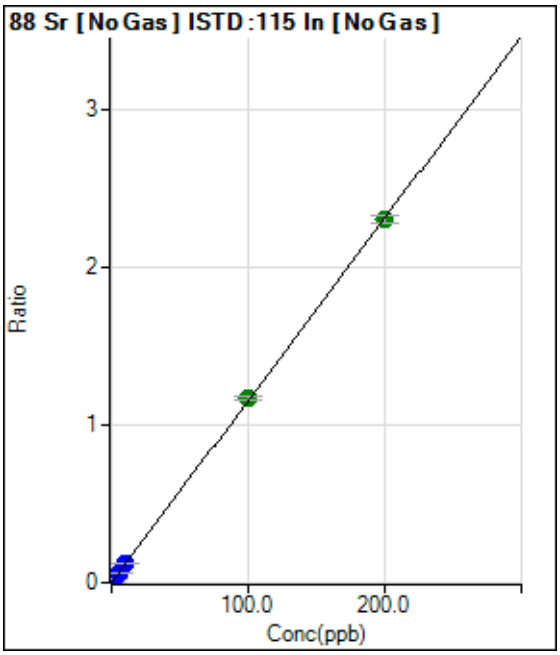


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0001	P	44.0
2	☐	2.000	1.828	160.00	0.0002	P	23.4
3	☐	5.000	4.108	286.68	0.0004	P	15.2
4	☐	10.000	10.251	626.69	0.0009	P	18.1
5	☐	100.000	100.840	5617.94	0.0080	P	0.5
6	☐	200.000	199.591	10988.00	0.0157	P	3.5

y = 7.8165E-005 * x + 7.9791E-005
R = 1.0000
DL = 1.348
BEC = 1.021

Weight: <None>
Min Conc: <None>

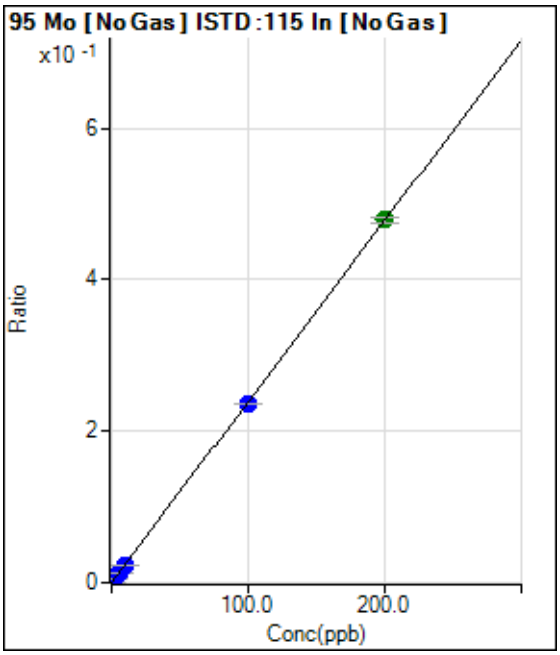
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	880.05	0.0004	P	11.2
2	☐	2.000	2.088	59388.56	0.0245	P	2.3
3	☐	5.000	5.183	146775.88	0.0603	P	1.0
4	☐	10.000	10.284	290695.15	0.1192	P	0.6
5	☐	100.000	101.373	2834415.27	1.1721	A	1.9
6	☐	200.000	199.294	5489292.63	2.3040	A	1.9

y = 0.0116 * x + 3.6115E-004
R = 1.0000
DL = 0.01054
BEC = 0.03124

Weight: <None>
Min Conc: <None>

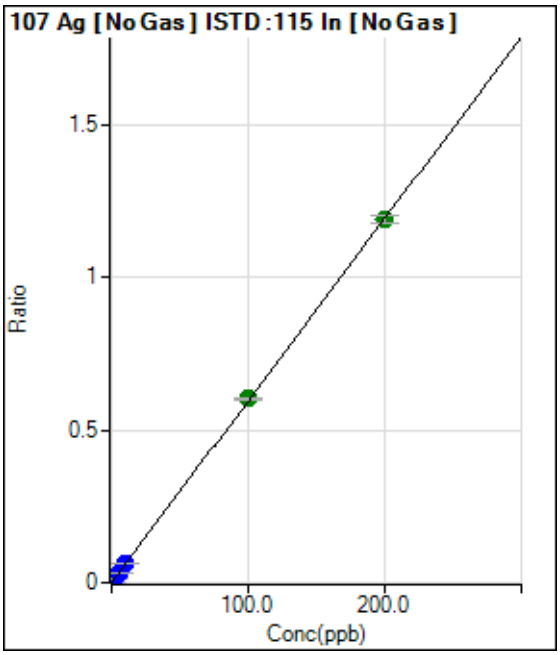


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.35	0.0002	P	10.7
2	☐	2.000	1.932	11625.27	0.0048	P	6.2
3	☐	5.000	4.829	28520.84	0.0117	P	1.7
4	☐	10.000	9.721	57019.03	0.0234	P	1.3
5	☐	100.000	98.851	570836.59	0.2361	P	0.6
6	☐	200.000	200.593	1140750.22	0.4788	A	1.6

y = 0.0024 * x + 1.9009E-004
R = 1.0000
DL = 0.0255
BEC = 0.07966

Weight: <None>
Min Conc: <None>

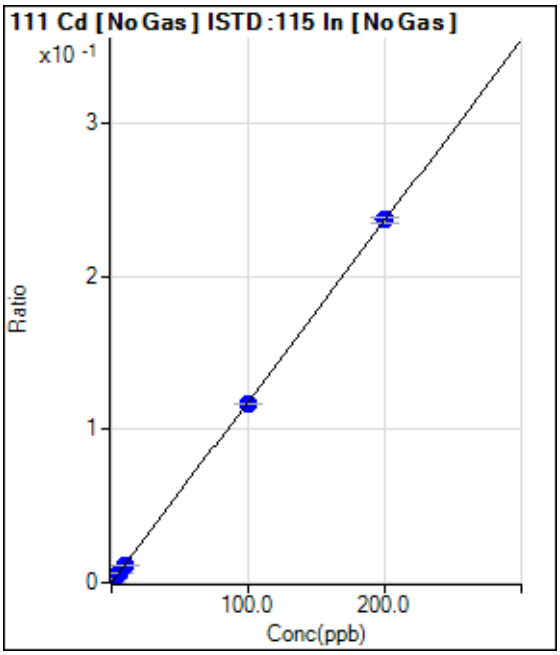
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0000	P	16.3
2	☐	2.000	2.002	28978.95	0.0120	P	1.7
3	☐	5.000	5.075	73631.21	0.0302	P	0.4
4	☐	10.000	10.155	147391.43	0.0605	P	1.1
5	☐	100.000	101.021	1453248.62	0.6010	A	1.2
6	☐	200.000	199.480	2826762.36	1.1866	A	2.0

y = 0.0059 * x + 4.6686E-005
R = 1.0000
DL = 0.003828
BEC = 0.007848

Weight: <None>
Min Conc: <None>

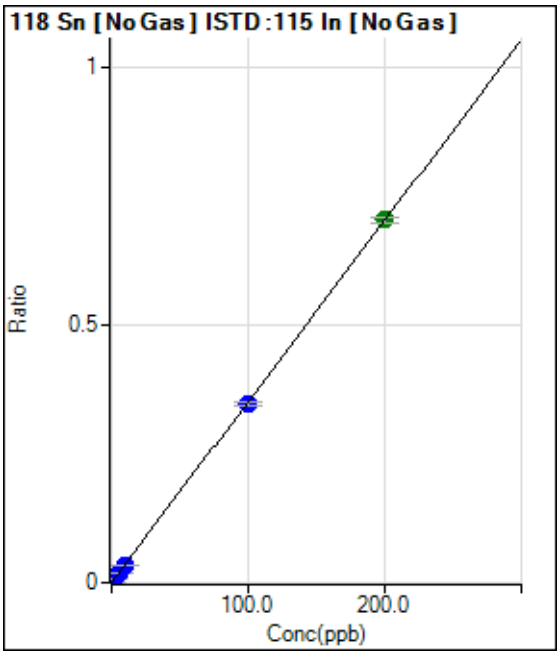


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.985	5687.82	0.0023	P	1.5
3	☐	5.000	4.950	14232.26	0.0058	P	1.1
4	☐	10.000	9.911	28516.83	0.0117	P	3.2
5	☐	100.000	98.981	282441.10	0.1168	P	0.6
6	☐	200.000	200.515	563653.33	0.2366	P	1.8

y = 0.0012 * x + 2.7096E-006
R = 1.0000
DL = 0.01193
BEC = 0.002296

Weight: <None>
Min Conc: <None>

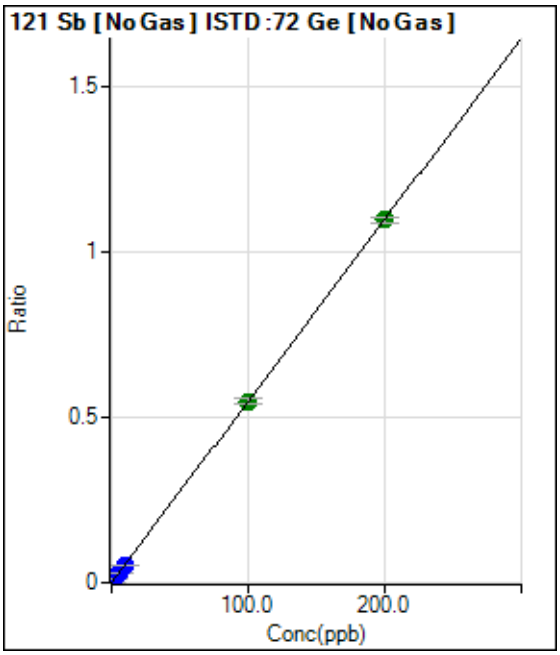
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	903.39	0.0004	P	14.1
2	☐	2.000	2.000	17902.46	0.0074	P	5.0
3	☐	5.000	4.967	43335.30	0.0178	P	2.3
4	☐	10.000	9.789	84628.90	0.0347	P	1.1
5	☐	100.000	99.014	840764.26	0.3477	P	2.0
6	☐	200.000	200.504	1676793.83	0.7037	A	1.9

y = 0.0035 * x + 3.7196E-004
R = 1.0000
DL = 0.0447
BEC = 0.106

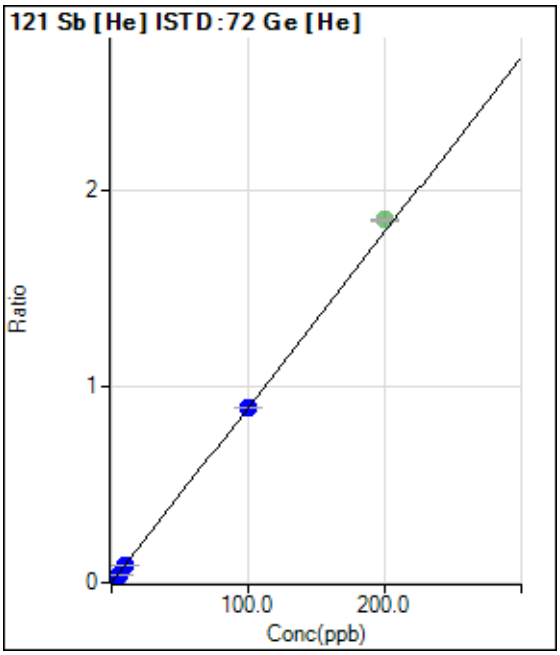
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0001	P	34.8
2	☐	2.000	1.955	24379.61	0.0108	P	3.7
3	☐	5.000	4.956	61293.32	0.0272	P	3.2
4	☐	10.000	9.879	121560.38	0.0542	P	1.1
5	☐	100.000	100.073	1235981.80	0.5484	A	2.9
6	☐	200.000	199.971	2499665.53	1.0959	A	1.8

y = 0.0055 * x + 5.2340E-005
R = 1.0000
DL = 0.009982
BEC = 0.009551

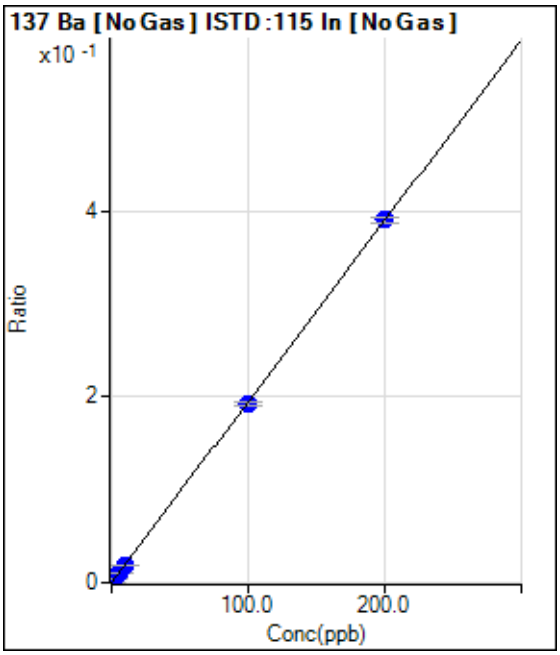
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	46.2
2	☐	2.000	1.839	11822.23	0.0165	P	4.3
3	☐	5.000	4.704	30075.02	0.0421	P	1.3
4	☐	10.000	9.548	60730.78	0.0855	P	4.5
5	☐	100.000	100.063	631875.70	0.8956	P	0.6
6	☑	200.000		1298993.31	1.8542	A	0.8

y = 0.0089 * x + 4.7053E-005
R = 1.0000
DL = 0.007289
BEC = 0.005257

Weight: <None>
Min Conc: <None>

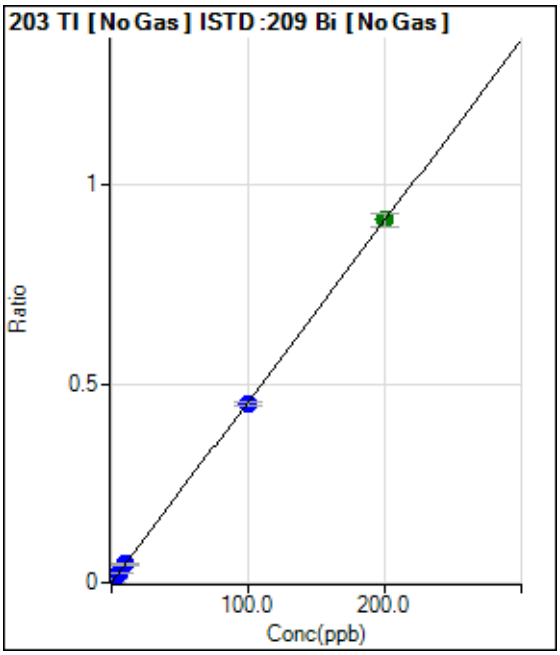


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0001	P	3.5
2	☐	2.000	2.067	9920.63	0.0041	P	1.9
3	☐	5.000	5.047	24082.71	0.0099	P	0.7
4	☐	10.000	9.664	45992.01	0.0189	P	2.0
5	☐	100.000	98.892	465302.65	0.1924	P	1.3
6	☐	200.000	200.569	929510.27	0.3902	P	1.8

y = 0.0019 * x + 6.9793E-005
R = 1.0000
DL = 0.003764
BEC = 0.03588

Weight: <None>
Min Conc: <None>

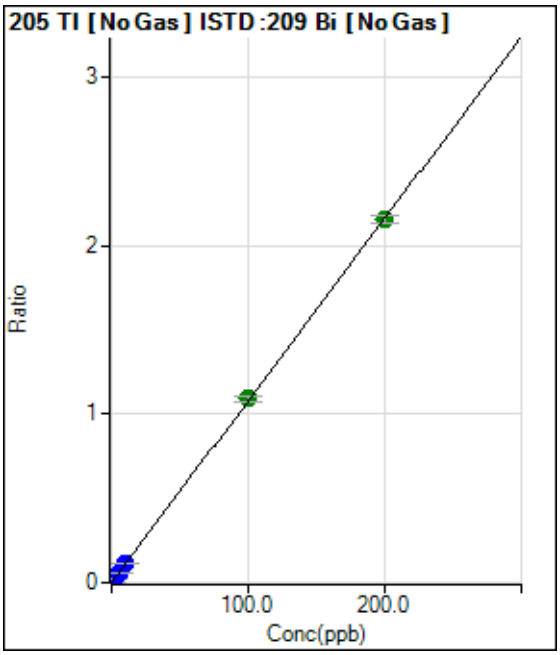
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0000	P	2.8
2	☐	2.000	2.086	19852.63	0.0095	P	3.9
3	☐	5.000	5.269	50796.74	0.0240	P	4.3
4	☐	10.000	10.294	98416.34	0.0468	P	4.4
5	☐	100.000	98.913	933216.86	0.4497	P	2.9
6	☐	200.000	200.521	1852418.15	0.9116	A	3.4

y = 0.0045 * x + 3.8817E-005
R = 1.0000
DL = 0.0007077
BEC = 0.008538

Weight: <None>
Min Conc: <None>

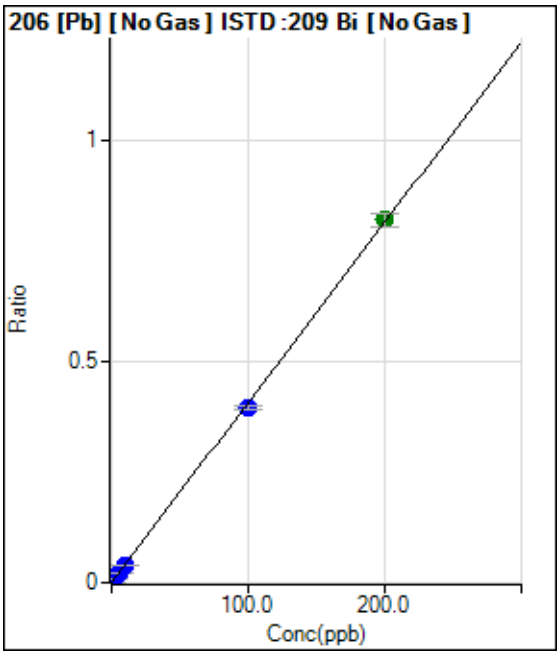


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.01	0.0001	P	21.2
2	☐	2.000	2.137	48390.90	0.0232	P	2.7
3	☐	5.000	5.289	121330.35	0.0573	P	3.0
4	☐	10.000	10.378	236108.01	0.1123	P	1.5
5	☐	100.000	101.145	2269245.59	1.0936	A	3.2
6	☐	200.000	199.400	4381258.68	2.1558	A	2.2

y = 0.0108 * x + 1.0674E-004
R = 1.0000
DL = 0.006268
BEC = 0.009873

Weight: <None>
Min Conc: <None>

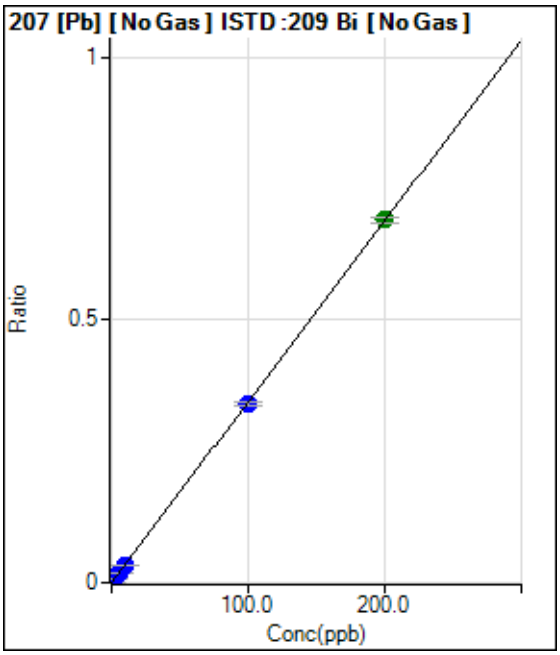
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0001	P	29.4
2	☐	2.000	1.969	16905.04	0.0081	P	3.1
3	☐	5.000	4.828	41807.45	0.0197	P	1.7
4	☐	10.000	9.545	81777.65	0.0389	P	1.8
5	☐	100.000	97.044	818700.56	0.3945	P	2.5
6	☐	200.000	201.505	1664448.36	0.8191	A	3.5

y = 0.0041 * x + 1.0549E-004
R = 0.9998
DL = 0.02287
BEC = 0.02595

Weight: <None>
Min Conc: <None>

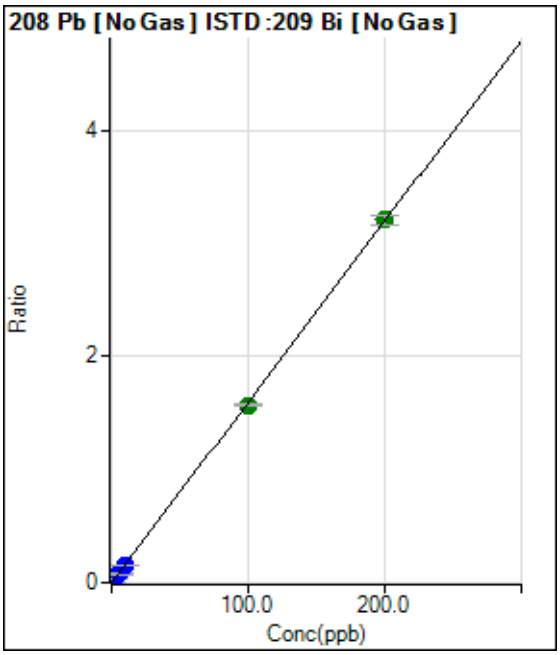


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	22.4
2	☐	2.000	1.914	13891.33	0.0067	P	6.1
3	☐	5.000	4.966	36356.88	0.0172	P	2.9
4	☐	10.000	9.703	70302.15	0.0334	P	3.3
5	☐	100.000	98.650	704159.34	0.3393	P	1.6
6	☐	200.000	200.691	1402947.58	0.6902	A	1.4

y = 0.0034 * x + 8.5619E-005
R = 1.0000
DL = 0.01674
BEC = 0.0249

Weight: <None>
Min Conc: <None>

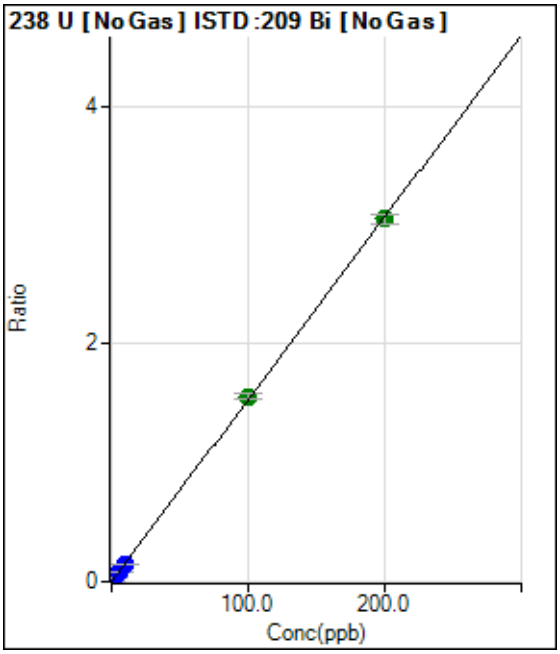
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	800.03	0.0004	P	12.0
2	☐	2.000	1.956	65866.11	0.0316	P	3.9
3	☐	5.000	4.843	164442.68	0.0777	P	3.7
4	☐	10.000	9.691	325881.24	0.1550	P	2.3
5	☐	100.000	98.307	3256170.60	1.5689	A	1.2
6	☐	200.000	200.866	6514100.27	3.2052	A	2.3

y = 0.0160 * x + 3.8807E-004
R = 1.0000
DL = 0.008776
BEC = 0.02432

Weight: <None>
Min Conc: <None>

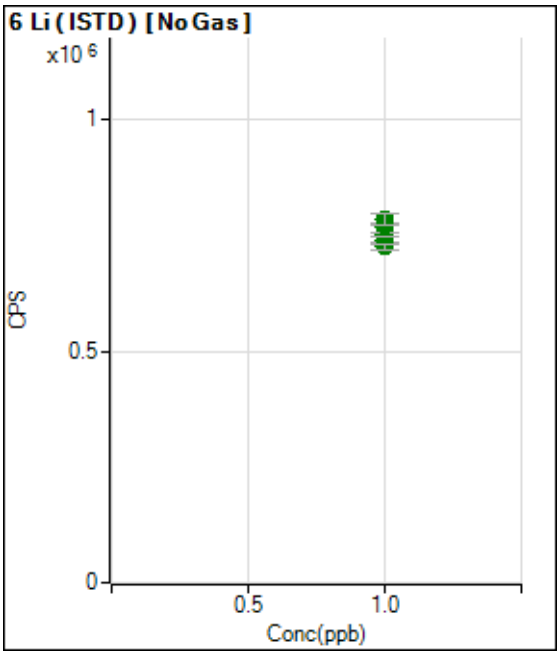


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	37.5
2	☐	2.000	1.995	63856.93	0.0306	P	3.6
3	☐	5.000	4.843	157357.60	0.0743	P	3.5
4	☐	10.000	9.683	312332.41	0.1486	P	1.9
5	☐	100.000	101.711	3237840.47	1.5603	A	2.5
6	☐	200.000	199.164	6208769.28	3.0553	A	2.7

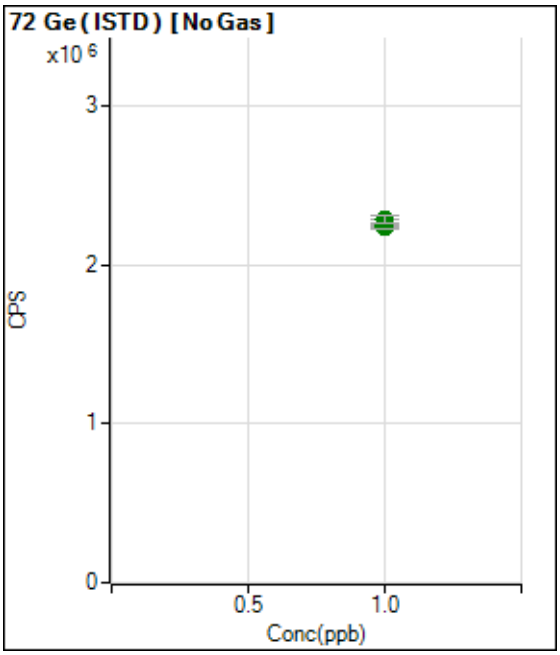
y = 0.0153 * x + 2.1147E-005
R = 0.9999
DL = 0.001552
BEC = 0.001378

Weight: <None>
Min Conc: <None>

Calibration for 022_ICV.d

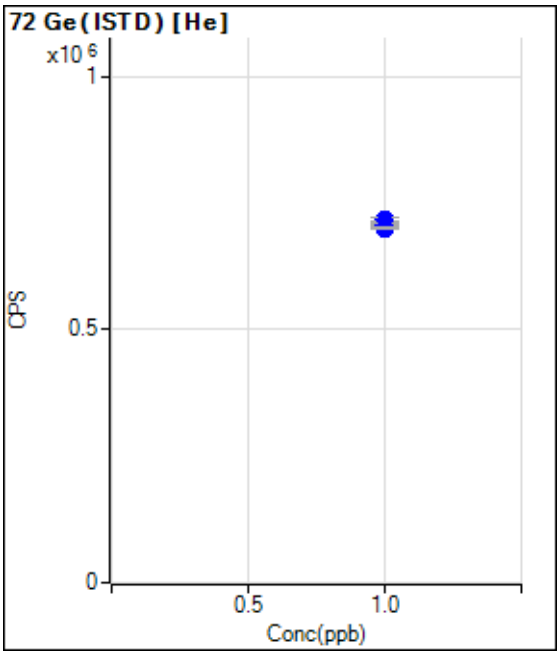


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		768064.43		A	2.7
2	☐	1.000		766624.48		A	2.2
3	☐	1.000		752346.23		A	1.4
4	☐	1.000		783843.21		A	3.2
5	☐	1.000		740801.19		A	1.5
6	☐	1.000		725877.53		A	1.5

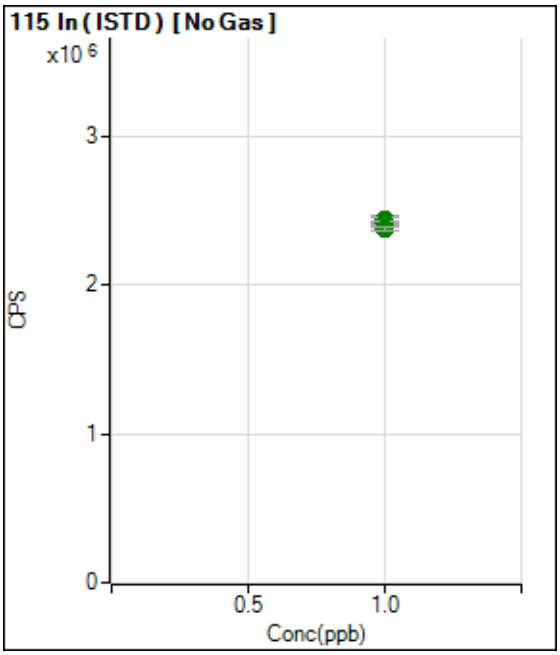


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2282452.26		A	2.4
2	☐	1.000		2265597.10		A	2.1
3	☐	1.000		2253596.27		A	2.7
4	☐	1.000		2243487.16		A	2.1
5	☐	1.000		2254657.26		A	2.5
6	☐	1.000		2281511.37		A	2.1

Calibration for 022_ICV.d

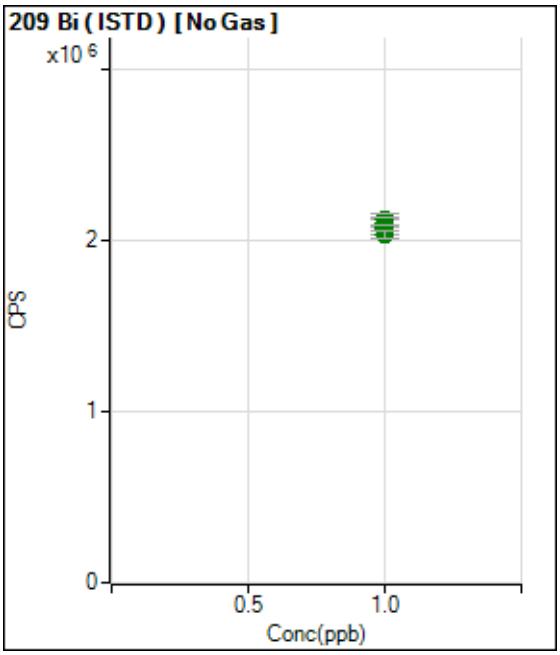


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		709414.55		P	0.5
2	☐	1.000		716680.67		P	1.9
3	☐	1.000		713498.40		P	2.2
4	☐	1.000		710463.32		P	1.1
5	☐	1.000		705566.92		P	1.3
6	☐	1.000		700581.21		P	0.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2434567.89		A	2.7
2	☐	1.000		2425307.25		A	3.2
3	☐	1.000		2435642.85		A	1.5
4	☐	1.000		2438173.13		A	1.0
5	☐	1.000		2418262.03		A	1.0
6	☐	1.000		2382514.54		A	1.1

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2062007.06		A	2.8
2	☐	1.000		2086281.90		A	3.3
3	☐	1.000		2119357.73		A	3.7
4	☐	1.000		2102958.14		A	2.8
5	☐	1.000		2075735.44		A	1.7
6	☐	1.000		2032943.30		A	2.2

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	015CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:02:17-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	51501	0.01
Be	9	1	No Gas	15	384.90
V	51	2	He	3111	0.12
Cr	52	2	He	15836	0.02
Fe	56	2	He	17375	0.02
Se	78	2	He	279	2.39
As	75	2	He	277	3.48
Ca	44	2	He	1147	1.30
Na	23	2	He	57810	0.00
Mg	24	2	He	487	4.88
K	39	2	He	190543	0.00
Mn	55	2	He	833	2.02
Co	59	2	He	80	41.34
Ni	60	2	He	313	3.27
Cu	63	2	He	2210	0.38
Zn	66	2	He	380	7.30
Al	27	2	He	643	2.05
B	11	1	No Gas	50402	0.00
Al	27	1	No Gas	15516	0.01
Si	28	1	No Gas	244671	0.00
Ag	107	1	No Gas	113	11.89
Cd	111	1	No Gas	7	2598.08
Sr	88	1	No Gas	880	1.46
Mo	95	1	No Gas	463	2.73
Sn	118	1	No Gas	903	1.25
Sb	121	1	No Gas	120	30.27
Ba	137	1	No Gas	170	3.46
Tl	205	1	No Gas	220	9.47
Tl	203	1	No Gas	80	0.00
Pb	208	1	No Gas	800	1.49
U	238	1	No Gas	43	81.35
Ca	43	2	He	37	113.62
Sb	121	2	He	33	137.48
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	5158	0.08

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	768064	2.67
Ge	72	2	He	709415	0.53
Ge	72	1	No Gas	2282452	2.42
In	115	1	No Gas	2434568	2.67

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	2062007	2.80

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	016CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:04:15-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	6313	0.10
V	51	2	He	15796	0.01
Cr	52	2	He	29616	0.01
Fe	56	2	He	1275258	0.00
Se	78	2	He	498	1.72
As	75	2	He	2470	0.12
Ca	44	2	He	11245	0.04
Na	23	2	He	290640	0.00
Mg	24	2	He	142567	0.00
K	39	2	He	391470	0.00
Mn	55	2	He	11939	0.01
Co	59	2	He	18757	0.01
Ni	60	2	He	4874	0.07
Cu	63	2	He	13720	0.01
Zn	66	2	He	3040	0.33
Al	27	2	He	1450	0.31
B	11	1	No Gas	68607	0.00
Al	27	1	No Gas	42171	0.01
Si	28	1	No Gas	315596	0.00
Ag	107	1	No Gas	28979	0.01
Cd	111	1	No Gas	5688	0.05
Sr	88	1	No Gas	59389	0.00
Mo	95	1	No Gas	11625	0.03
Sn	118	1	No Gas	17902	0.02
Sb	121	1	No Gas	24380	0.01
Ba	137	1	No Gas	9921	0.04
Tl	205	1	No Gas	48391	0.00
Tl	203	1	No Gas	19853	0.01
Pb	208	1	No Gas	65866	0.00
U	238	1	No Gas	63857	0.00
Ca	43	2	He	590	0.29
Sb	121	2	He	11822	0.02
Cu	63	1	No Gas	27735	0.01

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	766624	2.24	768064	99.81	70	120	
Ge	72	2	He	716681	1.88	709415	101.02	70	120	
Ge	72	1	No Gas	2265597	2.15	2282452	99.26	70	120	

Calibration Standard Report

In	115	1	No Gas	2425307	3.20	2434568	99.62	70	120	
Bi	209	1	No Gas	2086282	3.35	2062007	101.18	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:06:11-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	16034	0.01
V	51	2	He	34912	0.00
Cr	52	2	He	51889	0.00
Fe	56	2	He	3149040	0.00
Se	78	2	He	798	0.90
As	75	2	He	5766	0.04
Ca	44	2	He	25504	0.02
Na	23	2	He	643343	0.00
Mg	24	2	He	358468	0.00
K	39	2	He	710706	0.00
Mn	55	2	He	28944	0.01
Co	59	2	He	47152	0.01
Ni	60	2	He	12266	0.02
Cu	63	2	He	31400	0.00
Zn	66	2	He	6692	0.02
Al	27	2	He	3137	0.18
B	11	1	No Gas	95905	0.00
Al	27	1	No Gas	89512	0.00
Si	28	1	No Gas	434500	0.00
Ag	107	1	No Gas	73631	0.00
Cd	111	1	No Gas	14232	0.00
Sr	88	1	No Gas	146776	0.00
Mo	95	1	No Gas	28521	0.00
Sn	118	1	No Gas	43335	0.00
Sb	121	1	No Gas	61293	0.00
Ba	137	1	No Gas	24083	0.01
Tl	205	1	No Gas	121330	0.00
Tl	203	1	No Gas	50797	0.00
Pb	208	1	No Gas	164443	0.00
U	238	1	No Gas	157358	0.00
Ca	43	2	He	1513	0.15
Sb	121	2	He	30075	0.01
Cu	63	1	No Gas	63395	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	752346	1.42	768064	97.95	70	120	
Ge	72	2	He	713498	2.25	709415	100.58	70	120	
Ge	72	1	No Gas	2253596	2.72	2282452	98.74	70	120	

Calibration Standard Report

In	115	1	No Gas	2435643	1.46	2434568	100.04	70	120	
Bi	209	1	No Gas	2119358	3.74	2062007	102.78	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:08:19-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	32733	0.01
V	51	2	He	65038	0.00
Cr	52	2	He	85852	0.00
Fe	56	2	He	5968639	0.00
Se	78	2	He	1387	0.20
As	75	2	He	11279	0.02
Ca	44	2	He	49205	0.01
Na	23	2	He	1180362	0.00
Mg	24	2	He	705444	0.00
K	39	2	He	1229510	0.00
Mn	55	2	He	55570	0.00
Co	59	2	He	92017	0.00
Ni	60	2	He	22883	0.01
Cu	63	2	He	58516	0.00
Zn	66	2	He	12830	0.01
Al	27	2	He	5541	0.07
B	11	1	No Gas	141996	0.00
Al	27	1	No Gas	156716	0.00
Si	28	1	No Gas	612676	0.00
Ag	107	1	No Gas	147391	0.00
Cd	111	1	No Gas	28517	0.01
Sr	88	1	No Gas	290695	0.00
Mo	95	1	No Gas	57019	0.00
Sn	118	1	No Gas	84629	0.00
Sb	121	1	No Gas	121560	0.00
Ba	137	1	No Gas	45992	0.00
Tl	205	1	No Gas	236108	0.00
Tl	203	1	No Gas	98416	0.00
Pb	208	1	No Gas	325881	0.00
U	238	1	No Gas	312332	0.00
Ca	43	2	He	2854	0.05
Sb	121	2	He	60731	0.01
Cu	63	1	No Gas	118796	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	783843	3.19	768064	102.05	70	120	
Ge	72	2	He	710463	1.15	709415	100.15	70	120	
Ge	72	1	No Gas	2243487	2.06	2282452	98.29	70	120	

Calibration Standard Report

In	115	1	No Gas	2438173	1.01	2434568	100.15	70	120	
Bi	209	1	No Gas	2102958	2.82	2062007	101.99	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:10:14-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	326625	0.00
V	51	2	He	641648	0.00
Cr	52	2	He	720963	0.00
Fe	56	2	He	61264951	0.00
Se	78	2	He	12153	0.01
As	75	2	He	111948	0.00
Ca	44	2	He	494648	0.00
Na	23	2	He	11232543	0.00
Mg	24	2	He	6676217	0.00
K	39	2	He	10154039	0.00
Mn	55	2	He	565269	0.00
Co	59	2	He	933318	0.00
Ni	60	2	He	232683	0.00
Cu	63	2	He	570647	0.00
Zn	66	2	He	129160	0.00
Al	27	2	He	49930	0.00
B	11	1	No Gas	963835	0.00
Al	27	1	No Gas	1416561	0.00
Si	28	1	No Gas	3786982	0.00
Ag	107	1	No Gas	1453249	0.00
Cd	111	1	No Gas	282441	0.00
Sr	88	1	No Gas	2834415	0.00
Mo	95	1	No Gas	570837	0.00
Sn	118	1	No Gas	840764	0.00
Sb	121	1	No Gas	1235982	0.00
Ba	137	1	No Gas	465303	0.00
Tl	205	1	No Gas	2269246	0.00
Tl	203	1	No Gas	933217	0.00
Pb	208	1	No Gas	3256171	0.00
U	238	1	No Gas	3237840	0.00
Ca	43	2	He	29398	0.01
Sb	121	2	He	631876	0.00
Cu	63	1	No Gas	1149047	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	740801	1.51	768064	96.45	70	120	
Ge	72	2	He	705567	1.27	709415	99.46	70	120	
Ge	72	1	No Gas	2254657	2.52	2282452	98.78	70	120	

Calibration Standard Report

In	115	1	No Gas	2418262	0.99	2434568	99.33	70	120	
Bi	209	1	No Gas	2075735	1.75	2062007	100.67	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	020CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:12:07-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	657980	0.00
V	51	2	He	1273617	0.00
Cr	52	2	He	1407081	0.00
Fe	56	2	He	119960748	0.00
Se	78	2	He	23969	0.00
As	75	2	He	224498	0.00
Ca	44	2	He	959459	0.00
Na	23	2	He	22199528	0.00
Mg	24	2	He	13271985	0.00
K	39	2	He	20100327	0.00
Mn	55	2	He	1098130	0.00
Co	59	2	He	1877430	0.00
Ni	60	2	He	450068	0.00
Cu	63	2	He	1131335	0.00
Zn	66	2	He	251054	0.00
Al	27	2	He	97860	0.00
B	11	1	No Gas	1925562	0.00
Al	27	1	No Gas	2693190	0.00
Si	28	1	No Gas	7210365	0.00
Ag	107	1	No Gas	2826762	0.00
Cd	111	1	No Gas	563653	0.00
Sr	88	1	No Gas	5489293	0.00
Mo	95	1	No Gas	1140750	0.00
Sn	118	1	No Gas	1676794	0.00
Sb	121	1	No Gas	2499666	0.00
Ba	137	1	No Gas	929510	0.00
Tl	205	1	No Gas	4381259	0.00
Tl	203	1	No Gas	1852418	0.00
Pb	208	1	No Gas	6514100	0.00
U	238	1	No Gas	6208769	0.00
Ca	43	2	He	58244	0.00
Sb	121	2	He	1298993	0.00
Cu	63	1	No Gas	2227422	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	725878	1.47	768064	94.51	70	120	
Ge	72	2	He	700581	0.92	709415	98.75	70	120	
Ge	72	1	No Gas	2281511	2.08	2282452	99.96	70	120	

Calibration Standard Report

In	115	1	No Gas	2382515	1.11	2434568	97.86	70	120	
Bi	209	1	No Gas	2032943	2.16	2062007	98.59	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	022_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:18:40-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	100.728	5.874	1054143	3.09	100	100.7	90	110	
Be	9	1	No Gas	99.339	3.862	326219	1.27	100	99.3	90	110	
V	51	2	He	96.536	0.884	628875	0.80	100	96.5	90	110	
Cr	52	2	He	96.572	1.238	702711	0.57	100	96.6	90	110	
Fe	56	2	He	9757.482	2.186	59916509	0.97	10000	97.6	90	110	
Se	78	2	He	94.041	1.905	11640	0.93	100	94.0	90	110	
As	75	2	He	96.027	1.323	109930	0.94	100	96.0	90	110	
Ca	44	2	He	9845.519	1.351	484919	0.36	10000	98.5	90	110	
Na	23	2	He	9600.424	0.769	10914077	1.74	10000	96.0	90	110	
Mg	24	2	He	9692.126	1.244	6565114	0.94	10000	96.9	90	110	
K	39	2	He	9775.407	1.113	10116253	1.76	10000	97.8	90	110	
Mn	55	2	He	98.222	1.343	553291	0.53	100	98.2	90	110	
Co	59	2	He	95.214	2.119	909935	0.82	100	95.2	90	110	
Ni	60	2	He	98.251	2.390	227015	1.11	100	98.3	90	110	
Cu	63	2	He	95.769	1.266	554103	0.41	100	95.8	90	110	
Zn	66	2	He	98.521	0.557	126953	1.10	100	98.5	90	110	
Al	27	2	He	95.928	1.649	48314	1.05	100	95.9	90	110	
B	11	1	No Gas	497.235	3.954	964014	1.66	500	99.4	90	110	
Al	27	1	No Gas	102.394	1.924	1396825	1.86	100	102.4	90	110	
Si	28	1	No Gas	503.949	3.407	3759470	0.73	500	100.8	90	110	
Ag	107	1	No Gas	100.798	0.919	1432969	0.28	100	100.8	90	110	
Cd	111	1	No Gas	97.941	1.728	276170	0.62	100	97.9	90	110	
Sr	88	1	No Gas	100.057	2.287	2764480	1.19	100	100.1	90	110	
Mo	95	1	No Gas	97.361	1.755	555584	0.57	100	97.4	90	110	
Sn	118	1	No Gas	97.636	1.156	819407	0.94	100	97.6	90	110	
Sb	121	1	No Gas	98.682	3.508	1227765	1.17	100	98.7	90	110	
Ba	137	1	No Gas	97.543	0.618	453560	0.64	100	97.5	90	110	
Tl	205	1	No Gas	99.697	2.729	2198723	1.54	100	99.7	90	110	
Tl	203	1	No Gas	99.049	2.242	918588	0.63	100	99.0	90	110	
Pb	208	1	No Gas	97.048	1.194	3159629	0.63	100	97.0	90	110	
U	238	1	No Gas	99.509	0.599	3114419	1.39	100	99.5	90	110	
Ca	43	2	He	9545.179	1.767	28400	0.47	10000	95.5	90	110	
Sb	121	2	He	95.850	0.452	613550	0.94	100	95.9	90	110	
Ti	47	2	He	96.939	1.957	25761	2.55	100	96.9	90	110	
Cu	63	1	No Gas	99.111	1.920	1110621	0.71	100	99.1	90	110	
Se	82	1	No Gas	97.679	1.134	20531	2.21	100	97.7	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	745627	2.89	768064	97.08	70	120	
Ge	72	2	He	715207	1.30	709415	100.82	70	120	
Ge	72	1	No Gas	2271472	2.47	2282452	99.52	70	120	
In	115	1	No Gas	2389918	1.20	2434568	98.17	70	120	
Bi	209	1	No Gas	2040297	1.68	2062007	98.95	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	024LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:22:39-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	015CALB.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	1.943	1.943	4.72	74320	0.00	2	
Be	9	1	No Gas	1.969	1.969	2.78	6942	0.03	2	
V	51	2	He	1.821	1.821	1.59	15171	0.01	2	
Cr	52	2	He	2.007	2.007	6.96	30711	0.01	2	
Fe	56	2	He	208.911	208.911	0.58	1320330	0.02	200	
Se	78	2	He	1.549	1.549	14.66	475	0.33	2	
As	75	2	He	1.938	1.938	4.05	2531	0.08	2	
Ca	44	2	He	192.337	192.337	6.32	10771	1.79	200	
Na	23	2	He	205.581	205.581	0.33	295237	0.07	200	
Mg	24	2	He	212.590	212.590	0.85	146726	0.14	200	
K	39	2	He	201.165	201.165	1.32	402457	0.05	200	
Mn	55	2	He	2.041	2.041	2.65	12513	0.02	2	
Co	59	2	He	1.953	1.953	1.83	19034	0.01	2	
Ni	60	2	He	1.956	1.956	6.52	4904	0.04	2	
Cu	63	2	He	1.940	1.940	1.62	13614	0.01	2	
Zn	66	2	He	1.910	1.910	4.75	2880	0.07	2	
Al	27	2	He	1.728	1.728	12.43	1530	0.11	2	
B	11	1	No Gas	10.880	10.880	7.69	73851	0.01	10	
Al	27	1	No Gas	1.989	1.989	1.77	43064	0.00	2	
Si	28	1	No Gas	9.832	9.832	1.82	317990	0.00	10	
Ag	107	1	No Gas	2.078	2.078	1.44	30910	0.01	2	
Cd	111	1	No Gas	1.938	1.938	4.64	5703	0.03	2	
Sr	88	1	No Gas	2.048	2.048	1.44	59887	0.00	2	
Mo	95	1	No Gas	1.943	1.943	1.55	12022	0.02	2	
Sn	118	1	No Gas	1.952	1.952	1.31	17989	0.01	2	
Sb	121	1	No Gas	1.965	1.965	2.65	25038	0.01	2	
Ba	137	1	No Gas	1.967	1.967	1.19	9707	0.02	2	
Tl	205	1	No Gas	2.203	2.203	1.33	50088	0.00	2	
Tl	203	1	No Gas	2.207	2.207	0.41	21091	0.01	2	
Pb	208	1	No Gas	2.020	2.020	3.86	68277	0.00	2	
U	238	1	No Gas	1.959	1.959	1.57	62976	0.00	2	
Ca	43	2	He	207.315	207.315	23.58	663	31.25	200	
Sb	121	2	He	1.852	1.852	4.09	12069	0.02	2	
Ti	47	2	He	1.667	1.667	13.59	467	0.36	200	
Cu	63	1	No Gas	1.987	1.987	2.14	27809	0.01	2	
Se	82	1	No Gas	2.832	2.832	12.98	548	0.52	2	NewName 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	798594	2.91	768064	103.97	70	120	
Ge	72	2	He	726268	0.17	709415	102.38	70	120	
Ge	72	1	No Gas	2313260	0.30	2282452	101.35	70	120	
In	115	1	No Gas	2491542	1.15	2434568	102.34	70	120	
Bi	209	1	No Gas	2093870	0.66	2062007	101.55	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	025LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:24:37-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	015CALB.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	5.178	5.178	1.97	104917	0.00	5	
Be	9	1	No Gas	4.790	4.790	2.09	16253	0.03	5	
V	51	2	He	4.774	4.774	1.93	34415	0.01	5	
Cr	52	2	He	4.844	4.844	1.82	50895	0.01	5	
Fe	56	2	He	508.106	508.106	1.85	3166893	0.02	500	
Se	78	2	He	4.796	4.796	5.87	869	0.55	5	
As	75	2	He	4.868	4.868	1.37	5895	0.08	5	
Ca	44	2	He	503.559	503.559	2.24	26145	1.93	500	
Na	23	2	He	511.507	511.507	2.23	642680	0.08	500	
Mg	24	2	He	525.244	525.244	1.81	359663	0.15	500	
K	39	2	He	512.048	512.048	1.57	718711	0.07	500	
Mn	55	2	He	4.968	4.968	1.99	29061	0.02	5	
Co	59	2	He	4.812	4.812	0.76	46516	0.01	5	
Ni	60	2	He	4.991	4.991	3.60	11945	0.04	5	
Cu	63	2	He	4.829	4.829	2.62	30344	0.02	5	
Zn	66	2	He	4.904	4.904	2.17	6748	0.07	5	
Al	27	2	He	5.073	5.073	8.55	3200	0.16	5	
B	11	1	No Gas	25.483	25.483	3.04	98914	0.03	25	
Al	27	1	No Gas	5.526	5.526	1.17	90027	0.01	5	
Si	28	1	No Gas	26.595	26.595	2.52	429323	0.01	25	
Ag	107	1	No Gas	5.048	5.048	3.14	73957	0.01	5	
Cd	111	1	No Gas	4.777	4.777	3.52	13870	0.03	5	
Sr	88	1	No Gas	5.119	5.119	2.69	146405	0.00	5	
Mo	95	1	No Gas	4.828	4.828	2.88	28795	0.02	5	
Sn	118	1	No Gas	4.836	4.836	2.31	42640	0.01	5	
Sb	121	1	No Gas	4.865	4.865	0.96	60687	0.01	5	
Ba	137	1	No Gas	4.896	4.896	2.18	23592	0.02	5	
Tl	205	1	No Gas	5.171	5.171	1.69	119736	0.00	5	
Tl	203	1	No Gas	5.091	5.091	2.85	49549	0.01	5	
Pb	208	1	No Gas	4.794	4.794	2.26	164342	0.00	5	
U	238	1	No Gas	4.812	4.812	1.43	157863	0.00	5	
Ca	43	2	He	514.148	514.148	6.59	1580	32.54	500	
Sb	121	2	He	4.720	4.720	3.25	30526	0.02	5	
Ti	47	2	He	4.637	4.637	2.12	1260	0.37	5	
Cu	63	1	No Gas	5.043	5.043	2.29	61406	0.01	5	
Se	82	1	No Gas	5.681	5.681	7.95	1137	0.50	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	769478	3.05	768064	100.18	70	120	
Ge	72	2	He	722077	1.25	709415	101.78	70	120	
Ge	72	1	No Gas	2272073	1.45	2282452	99.55	70	120	

Sample Report

In	115	1	No Gas	2460447	3.30	2434568	101.06	70	120	
Bi	209	1	No Gas	2138162	2.37	2062007	103.69	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	026_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:26:44-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	Upper Limit	QC Flag
Li	7	1	No Gas	0.081	53.6	52891	0.9	0.5	
Be	9	1	No Gas	0.004	36.6	30	16.7	0.5	
V	51	2	He	-0.048	-26.7	2871	2.5	2.5	
Cr	52	2	He	0.257	28.7	18079	3.1	2.5	
Fe	56	2	He	2.099	8.4	30899	4.2	100	
Se	78	2	He	-0.397	-54.5	237	11.0	1	
As	75	2	He	0.004	893.6	288	13.5	2.5	
Ca	44	2	He	14.291	30.8	1887	11.2	100	
Na	23	2	He	2.171	17.6	61706	0.4	100	
Mg	24	2	He	1.073	15.0	1237	8.4	100	
K	39	2	He	-0.217	-577.5	194947	1.0	100	
Mn	55	2	He	0.746	1.8	5118	1.6	2.5	
Co	59	2	He	0.011	44.8	193	26.0	2.5	
Ni	60	2	He	0.071	45.5	487	15.6	2.5	
Cu	63	2	He	0.201	4.5	3440	2.0	1	
Zn	66	2	He	0.899	11.0	1563	8.7	2.5	
Al	27	2	He	1.179	27.6	1253	12.8	5	
B	11	1	No Gas	-1.108	-31.5	48813	1.3	0.5	
Al	27	1	No Gas	1.539	6.8	36963	2.0	5	
Si	28	1	No Gas	1.489	169.1	259053	3.9	10	
Ag	107	1	No Gas	0.014	20.5	323	14.3	2.5	
Cd	111	1	No Gas	0.002	240.9	12	107.5	1	
Sr	88	1	No Gas	0.041	19.2	2054	10.7	2.5	
Mo	95	1	No Gas	0.022	54.8	597	10.1	2.5	
Sn	118	1	No Gas	0.131	25.9	2040	12.4	5	
Sb	121	1	No Gas	0.052	11.2	777	8.2	2.5	
Ba	137	1	No Gas	0.238	12.8	1310	12.3	2.5	
Tl	205	1	No Gas	0.025	7.6	803	6.1	1	
Tl	203	1	No Gas	0.027	15.5	337	12.4	1	
Pb	208	1	No Gas	0.010	27.4	1150	7.4	2.5	
U	238	1	No Gas	0.010	26.5	377	24.1	2.5	
Ca	43	2	He	16.317	113.1	87	63.5	100	
Sb	121	2	He	0.053	22.1	380	19.9	2.5	
Ti	47	2	He	0.011	343.9	20	50.0	2.5	
Se	82	1	No Gas	0.307	48.0	5	699.3	1	

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	776037	1.76	768064	101.04	70	120	

Initial Calibration Blank (ICB) Report

Ge	72	2	He	726617	0.59	709415	102.42	70	120	
Ge	72	1	No Gas	2320106	3.51	2282452	101.65	70	120	
In	115	1	No Gas	2454131	2.22	2434568	100.80	70	120	
Bi	209	1	No Gas	2106981	0.74	2062007	102.18	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	028ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:34:47-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	0.350	12.5	54411	3.2	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.000	1658.5	15	33.3	0	ICSA Main CR1 Failed
V	51	2	He	0.174	15.2	4128	3.9	0	ICSA Main CR1 Failed
Cr	52	2	He	1.563	4.7	26195	1.9	0	ICSA Main CR1 Failed
Fe	56	2	He	98724.678	1.2	586354338	1.0	0	
Se	78	2	He	-0.158	-122.9	253	8.7	0	ICSA Main CR1 Failed
As	75	2	He	0.305	6.3	607	3.3	0	ICSA Main CR1 Failed
Ca	44	2	He	95445.923	1.6	4538131	1.6	0	
Na	23	2	He	97058.040	0.9	106214805	0.7	0	
Mg	24	2	He	98791.109	1.1	64730607	0.9	0	
K	39	2	He	99551.763	1.6	97946899	1.4	0	
Mn	55	2	He	1.062	8.1	6588	6.9	0	ICSA Main CR1 Failed
Co	59	2	He	0.516	4.3	4844	4.0	0	ICSA Main CR1 Failed
Ni	60	2	He	0.874	9.3	2257	7.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.153	24.3	3010	6.7	0	ICSA Main CR1 Failed
Zn	66	2	He	2.591	2.8	3591	2.3	0	ICSA Main CR1 Failed
Al	27	2	He	90968.000	0.8	43729446	0.8	0	
B	11	1	No Gas	-2.102	-41.1	45806	0.9	0	ICSA Main CR1 Failed
Al	27	1	No Gas	93926.417	1.1	1237098248	1.4	0	
Si	28	1	No Gas	23.065	8.3	394825	1.8	0	
Ag	107	1	No Gas	0.156	5.1	2230	6.3	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.344	46.7	940	48.2	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	4.760	1.1	126845	1.5	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1983.497	0.8	10842050	1.9	0	
Sn	118	1	No Gas	0.011	156.6	943	16.0	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.252	2.6	3177	3.5	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.611	7.5	2884	9.2	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.014	20.3	497	15.1	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.014	56.3	193	36.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.158	2.9	5467	0.9	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.008	23.6	263	17.9	0	ICSA Main CR1 Failed
Ca	43	2	He	93762.511	1.1	269574	1.0	0	
Sb	121	2	He	0.248	10.1	1570	10.0	0	ICSA Main CR1 Failed
Ti	47	2	He	2051.873	1.6	527097	1.4	0	
Se	82	1	No Gas	0.661	32.9	77	56.3	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	758417	3.97	768064	98.74	70	120	
Ge	72	2	He	691831	0.24	709415	97.52	70	120	
Ge	72	1	No Gas	2217434	2.22	2282452	97.15	70	120	
In	115	1	No Gas	2290903	2.31	2434568	94.10	70	120	
Bi	209	1	No Gas	1880074	3.40	2062007	91.18	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	029ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T11:36:47-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	102.245	1.726	1024450	0.97	100	102.2	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	99.915	1.052	314291	1.17	100	99.9	80	120	
V	51	2	He	98.734	1.011	620234	0.69	100	98.7	80	120	
Cr	52	2	He	99.426	1.142	697293	0.48	100	99.4	80	120	
Fe	56	2	He	108054.785	0.474	639847670	1.12	100	108054.8	80	120	
Se	78	2	He	97.501	0.901	11632	2.42	100	97.5	80	120	
As	75	2	He	98.970	1.475	109257	0.62	100	99.0	80	120	
Ca	44	2	He	103382.730	0.861	4900842	1.79	100	103382.7	80	120	ICSB Main CR1 Failed
Na	23	2	He	106742.464	1.952	116445052	1.27	100	106742.5	80	120	
Mg	24	2	He	107804.801	0.746	70423517	1.02	100	107804.8	80	120	
K	39	2	He	108057.027	1.935	105968822	1.14	100	108057.0	80	120	
Mn	55	2	He	99.865	0.974	542536	0.63	100	99.9	80	120	
Co	59	2	He	96.619	1.407	890573	0.23	100	96.6	80	120	
Ni	60	2	He	96.702	1.255	215516	0.50	100	96.7	80	120	
Cu	63	2	He	95.978	2.211	535498	0.63	100	96.0	80	120	
Zn	66	2	He	100.214	1.634	124528	1.29	100	100.2	80	120	
Al	27	2	He	90285.663	0.692	43272663	1.67	100	90285.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	506.913	2.003	940297	0.74	100	506.9	80	120	
Al	27	1	No Gas	93051.775	1.611	1208591209	0.93	100	93051.8	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	533.668	2.436	3819828	0.50	100	533.7	80	120	
Ag	107	1	No Gas	98.181	1.848	1328856	1.18	100	98.2	80	120	
Cd	111	1	No Gas	98.911	1.762	265583	2.10	100	98.9	80	120	
Sr	88	1	No Gas	107.756	2.872	2834621	2.32	100	107.8	80	120	
Mo	95	1	No Gas	2034.442	2.171	11045492	1.94	100	2034.4	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	101.625	0.919	812006	0.59	100	101.6	80	120	
Sb	121	1	No Gas	101.816	2.518	1219879	1.34	100	101.8	80	120	
Ba	137	1	No Gas	100.346	1.429	444230	1.06	100	100.3	80	120	
Tl	205	1	No Gas	100.316	3.794	2007628	2.32	100	100.3	80	120	
Tl	203	1	No Gas	99.807	2.299	840050	0.46	100	99.8	80	120	
Pb	208	1	No Gas	101.240	2.794	2990859	1.11	100	101.2	80	120	
U	238	1	No Gas	108.958	2.716	3094163	1.13	100	109.0	80	120	
Ca	43	2	He	103574.778	1.460	296864	0.81	100	103574.8	80	120	
Sb	121	2	He	98.350	2.007	607082	1.08	100	98.4	80	120	
Ti	47	2	He	2146.826	1.337	549807	0.91	100	2146.8	80	120	
Cu	63	1	No Gas	97.578	1.616	1052869	0.32	100	97.6	80	120	
Se	82	1	No Gas	102.154	3.395	20667	1.91	100	102.2	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	713761	1.66	768064	92.93	70	120	
Ge	72	2	He	689784	1.60	709415	97.23	70	120	
Ge	72	1	No Gas	2186776	1.86	2282452	95.81	70	120	
In	115	1	No Gas	2275397	0.82	2434568	93.46	70	120	
Bi	209	1	No Gas	1851837	2.20	2062007	89.81	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	146_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:51:07-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	102.021	2.001	1106198	1.75	100	102.0	90	110	
Be	9	1	No Gas	100.306	2.394	341334	0.80	100	100.3	90	110	
V	51	2	He	96.032	1.410	656610	0.76	100	96.0	90	110	
Cr	52	2	He	96.647	0.410	738165	0.56	100	96.6	90	110	
Fe	56	2	He	9933.997	1.452	64034111	1.44	10000	99.3	90	110	
Se	78	2	He	96.132	2.004	12483	1.32	100	96.1	90	110	
As	75	2	He	96.259	1.945	115657	1.37	100	96.3	90	110	
Ca	44	2	He	10024.796	1.787	518216	1.14	10000	100.2	90	110	
Na	23	2	He	9842.163	1.374	11740977	0.85	10000	98.4	90	110	
Mg	24	2	He	9949.105	2.724	7072919	2.11	10000	99.5	90	110	
K	39	2	He	9992.364	2.963	10847447	2.31	10000	99.9	90	110	
Mn	55	2	He	97.648	1.192	577359	0.63	100	97.6	90	110	
Co	59	2	He	94.194	0.088	944977	0.65	100	94.2	90	110	
Ni	60	2	He	96.737	1.144	234638	0.59	100	96.7	90	110	
Cu	63	2	He	95.241	0.718	578414	0.29	100	95.2	90	110	
Zn	66	2	He	97.806	1.179	132281	0.98	100	97.8	90	110	
Al	27	2	He	96.967	2.111	51252	1.43	100	97.0	90	110	
B	11	1	No Gas	500.464	2.071	1005258	2.27	500	100.1	90	110	
Al	27	1	No Gas	100.791	3.815	1450948	1.85	100	100.8	90	110	
Si	28	1	No Gas	502.880	2.028	3961595	2.30	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.479	0.954	1445389	1.85	100	97.5	90	110	
Cd	111	1	No Gas	96.943	0.911	285110	1.16	100	96.9	90	110	
Sr	88	1	No Gas	100.972	1.881	2909568	1.10	100	101.0	90	110	
Mo	95	1	No Gas	96.548	0.796	574658	1.37	100	96.5	90	110	
Sn	118	1	No Gas	98.584	0.782	862856	0.73	100	98.6	90	110	
Sb	121	1	No Gas	95.387	1.105	1253020	0.83	100	95.4	90	110	
Ba	137	1	No Gas	97.146	0.166	471106	0.94	100	97.1	90	110	
Tl	205	1	No Gas	104.859	2.214	2332100	1.01	100	104.9	90	110	
Tl	203	1	No Gas	103.428	1.333	967370	0.51	100	103.4	90	110	
Pb	208	1	No Gas	97.123	0.951	3188775	0.87	100	97.1	90	110	
U	238	1	No Gas	98.934	1.334	3122173	0.44	100	98.9	90	110	
Ca	43	2	He	9588.857	2.515	29946	2.26	10000	95.9	90	110	
Sb	121	2	He	93.554	0.826	628543	0.84	100	93.6	90	110	
Ti	47	2	He	96.964	4.035	27040	3.56	100	97.0	90	110	
Cu	63	1	No Gas	98.009	1.170	1159343	0.75	100	98.0	90	110	
Se	82	1	No Gas	96.530	4.501	21426	6.34	100	96.5	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	772412	2.68	768064	100.57	70	120	
Ge	72	2	He	750653	0.66	709415	105.81	70	120	
Ge	72	1	No Gas	2397255	1.90	2282452	105.03	70	120	
In	115	1	No Gas	2492387	0.93	2434568	102.37	70	120	
Bi	209	1	No Gas	2057495	1.77	2062007	99.78	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	147_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:52:59-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	Upper Limit	QC Flag
Li	7	1	No Gas	0.036	134.1	55159	1.5	0.5	
Be	9	1	No Gas	0.008	59.2	43	37.1	0.5	
V	51	2	He	-0.071	-8.9	2839	2.8	2.5	
Cr	52	2	He	0.222	28.6	18613	3.8	2.5	
Fe	56	2	He	1.612	11.4	29068	2.9	100	
Se	78	2	He	-0.436	-46.4	242	9.4	2	
As	75	2	He	0.039	78.4	343	11.9	2.5	
Ca	44	2	He	0.229	1153.9	1237	10.2	100	
Na	23	2	He	22.180	6.7	88402	1.0	100	
Mg	24	2	He	1.340	8.9	1483	6.4	100	
K	39	2	He	7.251	11.3	211551	1.1	100	
Mn	55	2	He	0.092	11.8	1440	4.2	2.5	
Co	59	2	He	0.003	20.7	117	4.9	2.5	
Ni	60	2	He	0.017	68.7	377	6.7	2.5	
Cu	63	2	He	-0.233	-1.6	937	2.2	2	
Zn	66	2	He	0.411	19.2	967	11.9	2.5	
Al	27	2	He	-0.121	-146.4	623	13.8	5	
B	11	1	No Gas	-6.077	-2.0	41341	1.5	0.5	
Al	27	1	No Gas	0.003	1671.9	16570	3.0	5	
Si	28	1	No Gas	-5.201	-15.7	221860	0.6	10	
Ag	107	1	No Gas	0.007	71.5	227	32.5	2.5	
Cd	111	1	No Gas	0.004	271.3	20	176.4	1	
Sr	88	1	No Gas	0.020	19.1	1543	5.7	2.5	
Mo	95	1	No Gas	0.052	54.0	820	20.0	2.5	
Sn	118	1	No Gas	0.147	10.3	2324	8.6	5	
Sb	121	1	No Gas	0.351	15.4	4794	11.8	2.5	
Ba	137	1	No Gas	0.030	43.0	333	17.6	2.5	
Tl	205	1	No Gas	0.187	30.0	4591	28.8	1	
Tl	203	1	No Gas	0.195	35.7	2000	34.7	1	
Pb	208	1	No Gas	-0.006	-11.0	623	4.0	2.5	
U	238	1	No Gas	0.028	23.2	957	22.4	2.5	
Ca	43	2	He	7.581	102.5	63	39.7	100	
Sb	121	2	He	0.311	0.7	2144	0.5	2.5	
Ti	47	2	He	-0.016	-327.4	13	114.6	2.5	
Cu	63	1	No Gas	-0.291	-2.7	2020	2.6	2.5	
Se	82	1	No Gas	0.248	196.3	-6	-1871.1	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	816427	1.10	768064	106.30	70	120	
Ge	72	2	He	758551	1.25	709415	106.93	70	120	
Ge	72	1	No Gas	2432527	3.35	2282452	106.58	70	120	
In	115	1	No Gas	2611945	2.81	2434568	107.29	70	120	
Bi	209	1	No Gas	2154903	0.53	2062007	104.51	70	120	

Sample Report

Sample Table

Sample Name	MBLK-197198
Data File Name	148SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:55:41-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	0.038	0.038	242.00	55864	0.00	2000	
Be	9	1	No Gas	0.001	0.001	445.99	18	0.00	2000	
V	51	2	He	-0.016	-0.016	-96.13	3234	0.00	2000	
Cr	52	2	He	0.287	0.287	14.71	19194	0.00	2000	
Fe	56	2	He	2.730	2.730	1.63	36543	0.01	200000	
Se	78	2	He	-0.400	-0.400	-20.11	248	-0.16	2000	
As	75	2	He	0.018	0.018	66.48	319	0.01	2000	
Ca	44	2	He	11.672	11.672	8.38	1843	0.63	200000	
Na	23	2	He	26.106	26.106	6.37	93605	0.03	200000	
Mg	24	2	He	1.846	1.846	11.45	1857	0.10	200000	
K	39	2	He	9.616	9.616	26.83	215166	0.00	200000	
Mn	55	2	He	0.737	0.737	2.48	5314	0.01	2000	
Co	59	2	He	-0.002	-0.002	-135.53	63	0.00	2000	
Ni	60	2	He	0.163	0.163	24.27	737	0.02	2000	
Cu	63	2	He	0.059	0.059	65.48	2740	0.00	2000	
Zn	66	2	He	1.358	1.358	16.55	2270	0.06	2000	
Al	27	2	He	1.276	1.276	9.30	1367	0.09	2000	
B	11	1	No Gas	-10.236	-10.236	-4.45	33360	-0.03	2000	
Al	27	1	No Gas	1.839	1.839	4.67	43983	0.00	2000	
Si	28	1	No Gas	-3.018	-3.018	-10.88	243153	0.00	2000	
Ag	107	1	No Gas	-0.002	-0.002	-97.67	90	0.00	2000	
Cd	111	1	No Gas	-0.004	-0.004	-55.30	-4	0.09	2000	
Sr	88	1	No Gas	0.049	0.049	3.00	2370	0.00	2000	
Mo	95	1	No Gas	-0.004	-0.004	-410.66	460	0.00	2000	
Sn	118	1	No Gas	0.155	0.155	19.30	2344	0.01	2000	
Sb	121	1	No Gas	0.110	0.110	9.47	1627	0.01	2000	
Ba	137	1	No Gas	0.239	0.239	9.09	1367	0.02	2000	
Tl	205	1	No Gas	0.014	0.014	15.94	553	0.00	2000	
Tl	203	1	No Gas	0.013	0.013	16.13	207	0.01	2000	
Pb	208	1	No Gas	-0.003	-0.003	-68.28	723	0.00	2000	
U	238	1	No Gas	0.003	0.003	30.10	130	0.00	2000	
Ca	43	2	He	15.980	15.980	40.37	90	17.76	200000	
Sb	121	2	He	0.112	0.112	17.28	797	0.01	2000	
Ti	47	2	He	0.019	0.019	283.24	23	0.08	2000	
Cu	63	1	No Gas	0.015	0.015	143.17	5795	0.00	2000	
Zn	66	1	No Gas	1.168	1.168	8.32	5378	0.02	2000	
Se	82	1	No Gas	0.172	0.172	51.75	-25	-0.68	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	826592	0.81	768064	107.62	70	120	
Ge	72	2	He	762376	0.86	709415	107.47	70	120	
Ge	72	1	No Gas	2481892	0.64	2282452	108.74	70	120	
In	115	1	No Gas	2556996	1.25	2434568	105.03	70	120	

Sample Report

Bi	209	1	No Gas	2114537	3.57	2062007	102.55	70	120	

Sample Report

Sample Table

Sample Name	LCS-197198
Data File Name	149SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T16:57:39-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	93.529	93.529	2.24	1092686	0.01	2000	
Be	9	1	No Gas	45.950	45.950	1.21	167796	0.03	2000	
V	51	2	He	44.327	44.327	2.19	316920	0.01	2000	
Cr	52	2	He	44.275	44.275	2.01	360976	0.01	2000	
Fe	56	2	He	4675.239	4675.239	2.29	31337195	0.01	200000	
Se	78	2	He	44.972	44.972	1.46	6235	0.72	2000	
As	75	2	He	44.748	44.748	1.60	56061	0.08	2000	
Ca	44	2	He	4857.499	4857.499	2.83	261672	1.86	200000	
Na	23	2	He	4772.668	4772.668	2.68	5951148	0.08	200000	
Mg	24	2	He	4839.695	4839.695	2.67	3576967	0.14	200000	
K	39	2	He	4797.413	4797.413	2.29	5523347	0.09	200000	
Mn	55	2	He	45.249	45.249	2.95	278590	0.02	2000	
Co	59	2	He	44.164	44.164	2.32	460606	0.01	2000	
Ni	60	2	He	45.685	45.685	1.39	115387	0.04	2000	
Cu	63	2	He	45.323	45.323	2.29	287410	0.02	2000	
Zn	66	2	He	47.190	47.190	2.93	66557	0.07	2000	
Al	27	2	He	101.642	101.642	1.97	55819	0.18	2000	
B	11	1	No Gas	441.647	441.647	2.20	957942	0.05	2000	
Al	27	1	No Gas	102.424	102.424	1.15	1586885	0.01	2000	
Si	28	1	No Gas	545.663	545.663	2.18	4600314	0.01	2000	
Ag	107	1	No Gas	44.568	44.568	2.90	707196	0.01	2000	
Cd	111	1	No Gas	44.458	44.458	3.05	139917	0.03	2000	
Sr	88	1	No Gas	94.064	94.064	1.93	2902129	0.00	2000	
Mo	95	1	No Gas	43.975	43.975	2.13	280426	0.02	2000	
Sn	118	1	No Gas	91.485	91.485	2.16	857058	0.01	2000	
Sb	121	1	No Gas	44.338	44.338	1.90	626632	0.01	2000	
Ba	137	1	No Gas	43.511	43.511	2.88	225924	0.02	2000	
Tl	205	1	No Gas	38.870	38.870	0.79	925345	0.00	2000	
Tl	203	1	No Gas	38.488	38.488	1.94	385270	0.01	2000	
Pb	208	1	No Gas	43.630	43.630	1.58	1533332	0.00	2000	
U	238	1	No Gas	86.191	86.191	1.93	2910763	0.00	2000	
Ca	43	2	He	4782.179	4782.179	2.34	15546	30.76	200000	
Sb	121	2	He	45.624	45.624	2.86	318652	0.01	2000	
Ti	47	2	He	142.342	142.342	0.56	41269	0.34	2000	
Cu	63	1	No Gas	45.118	45.118	1.70	577318	0.01	2000	
Zn	66	1	No Gas	46.458	46.458	1.42	171275	0.03	2000	
Se	82	1	No Gas	44.478	44.478	4.84	10572	0.42	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	828524	1.88	768064	107.87	70	120	
Ge	72	2	He	780535	1.99	709415	110.03	70	120	
Ge	72	1	No Gas	2579119	1.94	2282452	113.00	70	120	
In	115	1	No Gas	2668447	2.76	2434568	109.61	70	120	

Sample Report

Bi	209	1	No Gas	2201483	0.29	2062007	106.76	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08SD
Data File Name	151SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:01:31-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	2.468	12.340	5.75	79969	0.00	2000	
Be	9	1	No Gas	0.000	0.002	964.41	17	0.00	2000	
V	51	2	He	0.019	0.095	249.95	3545	0.00	2000	
Cr	52	2	He	4.259	21.296	15.30	50272	0.01	2000	
Fe	56	2	He	184.756	923.780	11.69	1250806	0.01	200000	
Se	78	2	He	-0.446	-2.229	-49.39	247	-0.18	2000	
As	75	2	He	0.031	0.155	85.33	346	0.01	2000	
Ca	44	2	He	4696.750	23483.750	9.49	252178	1.86	200000	
Na	23	2	He	37879.863	189399.316	9.98	46613816	0.08	200000	
Mg	24	2	He	4028.484	20142.419	10.97	2964367	0.14	200000	
K	39	2	He	418.985	2094.927	13.82	671251	0.06	200000	
Mn	55	2	He	133.405	667.026	10.27	816331	0.02	2000	
Co	59	2	He	3.644	18.220	10.17	37937	0.01	2000	
Ni	60	2	He	271.077	1355.387	10.67	679961	0.04	2000	
Cu	63	2	He	0.053	0.264	114.86	2750	0.00	2000	
Zn	66	2	He	0.889	4.446	19.70	1657	0.05	2000	
Al	27	2	He	2.234	11.172	20.55	1937	0.12	2000	
B	11	1	No Gas	-1.674	-8.368	-32.27	49134	0.00	2000	
Al	27	1	No Gas	2.155	10.776	3.33	46478	0.00	2000	
Si	28	1	No Gas	2405.927	12029.633	1.01	17784055	0.01	2000	>LDR
Ag	107	1	No Gas	-0.002	-0.011	-34.66	83	0.00	2000	
Cd	111	1	No Gas	0.039	0.194	36.64	122	0.03	2000	
Sr	88	1	No Gas	104.207	521.035	1.34	3015803	0.00	2000	
Mo	95	1	No Gas	0.323	1.616	4.82	2407	0.01	2000	
Sn	118	1	No Gas	0.054	0.270	18.20	1403	0.00	2000	
Sb	121	1	No Gas	0.049	0.244	22.08	757	0.01	2000	
Ba	137	1	No Gas	96.057	480.283	1.13	467860	0.02	2000	
Tl	205	1	No Gas	0.080	0.402	21.63	1974	0.00	2000	
Tl	203	1	No Gas	0.076	0.379	21.70	777	0.01	2000	
Pb	208	1	No Gas	-0.008	-0.038	-42.36	537	0.00	2000	
U	238	1	No Gas	0.122	0.610	2.08	3831	0.00	2000	
Ca	43	2	He	4669.755	23348.773	9.04	15132	30.86	200000	
Sb	121	2	He	0.042	0.211	8.73	333	0.01	2000	
Ti	47	2	He	0.430	2.152	53.87	147	0.29	2000	
Cu	63	1	No Gas	0.317	1.587	3.56	9053	0.00	2000	
Zn	66	1	No Gas	0.989	4.945	5.57	4537	0.02	2000	
Se	82	1	No Gas	0.180	0.898	68.26	-22	-0.81	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	799087	2.60	768064	104.04	70	120	
Ge	72	2	He	782110	9.26	709415	110.25	70	120	
Ge	72	1	No Gas	2371012	1.79	2282452	103.88	70	120	
In	115	1	No Gas	2503415	2.24	2434568	102.83	70	120	

Sample Report

Bi	209	1	No Gas	2024696	1.02	2062007	98.19	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08MS
Data File Name	152SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:03:40-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	107.311	107.311	0.78	1121449	0.01	2000	
Be	9	1	No Gas	47.784	47.784	1.24	157107	0.03	2000	
V	51	2	He	44.481	44.481	1.01	293026	0.02	2000	
Cr	52	2	He	65.213	65.213	1.23	482304	0.01	2000	
Fe	56	2	He	5462.571	5462.571	0.46	33736963	0.02	200000	
Se	78	2	He	44.584	44.584	1.34	5698	0.78	2000	
As	75	2	He	45.422	45.422	1.60	52428	0.09	2000	
Ca	44	2	He	28506.267	28506.267	1.68	1409367	2.02	200000	
Na	23	2	He	195564.249	195564.249	1.38	222359963	0.09	200000	>LDR
Mg	24	2	He	25042.036	25042.036	1.87	17053550	0.15	200000	
K	39	2	He	6671.038	6671.038	0.76	7001775	0.10	200000	
Mn	55	2	He	686.695	686.695	0.92	3884129	0.02	2000	
Co	59	2	He	60.974	60.974	0.80	585948	0.01	2000	
Ni	60	2	He	1381.146	1381.146	0.46	3204820	0.04	2000	
Cu	63	2	He	44.222	44.222	1.43	258447	0.02	2000	
Zn	66	2	He	46.512	46.512	1.63	60455	0.08	2000	
Al	27	2	He	95.089	95.089	1.14	48157	0.20	2000	
B	11	1	No Gas	494.978	494.978	4.31	960644	0.05	2000	
Al	27	1	No Gas	100.850	100.850	1.33	1381074	0.01	2000	
Si	28	1	No Gas	12492.706	12492.706	0.99	87750485	0.01	2000	>LDR
Ag	107	1	No Gas	43.850	43.850	1.86	619318	0.01	2000	
Cd	111	1	No Gas	44.686	44.686	1.63	125200	0.04	2000	
Sr	88	1	No Gas	599.464	599.464	0.85	16452470	0.00	2000	
Mo	95	1	No Gas	47.586	47.586	1.11	270024	0.02	2000	
Sn	118	1	No Gas	93.581	93.581	0.72	780319	0.01	2000	
Sb	121	1	No Gas	46.744	46.744	1.77	583902	0.01	2000	
Ba	137	1	No Gas	517.794	517.794	2.64	2390778	0.02	2000	
Tl	205	1	No Gas	40.611	40.611	4.59	862203	0.00	2000	
Tl	203	1	No Gas	40.113	40.113	4.59	358106	0.01	2000	
Pb	208	1	No Gas	43.798	43.798	5.01	1372562	0.00	2000	
U	238	1	No Gas	96.622	96.622	5.47	2909208	0.00	2000	
Ca	43	2	He	28936.285	28936.285	0.81	86498	33.45	200000	
Sb	121	2	He	45.053	45.053	1.02	289947	0.02	2000	
Ti	47	2	He	139.308	139.308	1.63	37207	0.37	2000	
Cu	63	1	No Gas	47.635	47.635	1.05	538464	0.01	2000	
Zn	66	1	No Gas	48.312	48.312	0.60	157385	0.03	2000	
Se	82	1	No Gas	45.923	45.923	1.81	9658	0.48	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	746007	1.29	768064	97.13	70	120	
Ge	72	2	He	719048	0.93	709415	101.36	70	120	
Ge	72	1	No Gas	2279620	2.17	2282452	99.88	70	120	
In	115	1	No Gas	2374475	1.85	2434568	97.53	70	120	
Bi	209	1	No Gas	1966302	5.00	2062007	95.36	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08MSD
Data File Name	153SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:05:45-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	105.712	105.712	2.25	1171226	0.01	2000	
Be	9	1	No Gas	47.023	47.023	1.26	163825	0.03	2000	
V	51	2	He	44.676	44.676	0.61	304916	0.01	2000	
Cr	52	2	He	65.798	65.798	0.54	504030	0.01	2000	
Fe	56	2	He	5518.419	5518.419	0.62	35308774	0.02	200000	
Se	78	2	He	45.697	45.697	3.46	6042	0.76	2000	
As	75	2	He	46.244	46.244	0.70	55298	0.08	2000	
Ca	44	2	He	29097.771	29097.771	1.63	1490387	1.95	200000	
Na	23	2	He	197336.312	197336.312	1.75	232445450	0.08	200000	>LDR
Mg	24	2	He	25169.590	25169.590	1.58	17759071	0.14	200000	
K	39	2	He	6733.783	6733.783	1.96	7320129	0.09	200000	
Mn	55	2	He	694.482	694.482	1.53	4069412	0.02	2000	
Co	59	2	He	61.145	61.145	1.51	608731	0.01	2000	
Ni	60	2	He	1388.797	1388.797	2.49	3338253	0.04	2000	
Cu	63	2	He	45.035	45.035	2.14	272619	0.02	2000	
Zn	66	2	He	47.469	47.469	0.80	63921	0.07	2000	
Al	27	2	He	96.075	96.075	0.94	50405	0.19	2000	
B	11	1	No Gas	488.642	488.642	0.82	1005885	0.05	2000	
Al	27	1	No Gas	102.008	102.008	2.53	1437475	0.01	2000	
Si	28	1	No Gas	12561.603	12561.603	1.17	90818045	0.01	2000	>LDR
Ag	107	1	No Gas	44.087	44.087	1.01	643043	0.01	2000	
Cd	111	1	No Gas	46.003	46.003	0.59	133088	0.03	2000	
Sr	88	1	No Gas	600.767	600.767	1.52	17025552	0.00	2000	
Mo	95	1	No Gas	47.710	47.710	1.18	279569	0.02	2000	
Sn	118	1	No Gas	94.490	94.490	0.45	813566	0.01	2000	
Sb	121	1	No Gas	47.182	47.182	0.98	606667	0.01	2000	
Ba	137	1	No Gas	533.131	533.131	1.50	2542201	0.02	2000	
Tl	205	1	No Gas	42.398	42.398	3.27	908354	0.00	2000	
Tl	203	1	No Gas	42.038	42.038	2.42	378787	0.01	2000	
Pb	208	1	No Gas	44.835	44.835	3.15	1418123	0.00	2000	
U	238	1	No Gas	98.305	98.305	3.98	2987577	0.00	2000	
Ca	43	2	He	28957.098	28957.098	1.62	89664	32.30	200000	
Sb	121	2	He	45.924	45.924	2.42	306160	0.01	2000	
Ti	47	2	He	142.197	142.197	1.15	39353	0.36	2000	
Cu	63	1	No Gas	48.229	48.229	0.72	561048	0.01	2000	
Zn	66	1	No Gas	48.049	48.049	2.03	161109	0.03	2000	
Se	82	1	No Gas	47.989	47.989	5.85	10389	0.46	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	790539	1.82	768064	102.93	70	120	
Ge	72	2	He	744954	1.16	709415	105.01	70	120	
Ge	72	1	No Gas	2346019	1.24	2282452	102.79	70	120	
In	115	1	No Gas	2451615	0.53	2434568	100.70	70	120	
Bi	209	1	No Gas	1982244	2.21	2062007	96.13	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08PDS
Data File Name	154SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:07:42-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	11.641	11.641	2.35	177173	0.01	2000	
Be	9	1	No Gas	97.679	97.679	2.05	342224	0.03	2000	
V	51	2	He	92.731	92.731	2.85	618924	0.01	2000	
Cr	52	2	He	113.141	113.141	2.64	840585	0.01	2000	
Fe	56	2	He	10475.517	10475.517	2.93	65898351	0.02	200000	
Se	78	2	He	95.437	95.437	3.30	12097	0.79	2000	
As	75	2	He	95.311	95.311	2.80	111774	0.09	2000	
Ca	44	2	He	33266.181	33266.181	2.86	1675753	1.99	200000	
Na	23	2	He	203182.576	203182.576	2.86	235391483	0.09	200000	>LDR
Mg	24	2	He	30574.557	30574.557	5.33	21205793	0.14	200000	
K	39	2	He	11873.717	11873.717	2.73	12544214	0.09	200000	
Mn	55	2	He	746.124	746.124	1.70	4300700	0.02	2000	
Co	59	2	He	111.603	111.603	4.12	1092445	0.01	2000	
Ni	60	2	He	1421.922	1421.922	3.14	3361443	0.04	2000	
Cu	63	2	He	91.208	91.208	2.64	540725	0.02	2000	
Zn	66	2	He	95.986	95.986	3.09	126701	0.08	2000	
Al	27	2	He	101.183	101.183	2.72	52172	0.19	2000	
B	11	1	No Gas	36.385	36.385	4.00	123611	0.03	2000	
Al	27	1	No Gas	106.012	106.012	3.04	1512679	0.01	2000	
Si	28	1	No Gas	12322.866	12322.866	3.16	90243992	0.01	2000	>LDR
Ag	107	1	No Gas	96.284	96.284	0.76	1392083	0.01	2000	
Cd	111	1	No Gas	96.951	96.951	1.55	278012	0.03	2000	
Sr	88	1	No Gas	516.430	516.430	1.18	14511769	0.00	2000	
Mo	95	1	No Gas	100.159	100.159	0.20	581349	0.02	2000	
Sn	118	1	No Gas	0.301	0.301	3.40	3467	0.01	2000	
Sb	121	1	No Gas	93.916	93.916	2.23	1223293	0.01	2000	
Ba	137	1	No Gas	586.282	586.282	2.21	2771144	0.02	2000	
Tl	205	1	No Gas	103.684	103.684	1.23	2271266	0.00	2000	
Tl	203	1	No Gas	100.381	100.381	3.70	924243	0.01	2000	
Pb	208	1	No Gas	92.655	92.655	2.19	2995535	0.00	2000	
U	238	1	No Gas	0.618	0.618	2.86	19249	0.00	2000	
Ca	43	2	He	33302.049	33302.049	3.22	101405	32.84	200000	
Sb	121	2	He	90.212	90.212	2.40	591553	0.02	2000	
Ti	47	2	He	96.314	96.314	3.13	26215	0.37	2000	
Cu	63	1	No Gas	96.346	96.346	1.26	1130381	0.01	2000	
Zn	66	1	No Gas	97.188	97.188	1.92	328898	0.03	2000	
Se	82	1	No Gas	96.113	96.113	2.29	21142	0.45	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	795055	1.44	768064	103.51	70	120	
Ge	72	2	He	732919	2.44	709415	103.31	70	120	
Ge	72	1	No Gas	2377418	2.29	2282452	104.16	70	120	
In	115	1	No Gas	2430558	1.77	2434568	99.84	70	120	
Bi	209	1	No Gas	2026494	2.75	2062007	98.28	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	155_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:09:36-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	99.052	2.457	1023349	2.60	100	99.1	90	110	
Be	9	1	No Gas	98.015	0.900	317406	1.37	100	98.0	90	110	
V	51	2	He	95.312	1.592	596472	0.55	100	95.3	90	110	
Cr	52	2	He	95.431	1.347	667260	0.10	100	95.4	90	110	
Fe	56	2	He	9743.424	2.402	57475572	1.18	10000	97.4	90	110	
Se	78	2	He	96.268	0.726	11442	1.07	100	96.3	90	110	
As	75	2	He	94.863	1.795	104322	0.52	100	94.9	90	110	
Ca	44	2	He	9911.426	1.318	468958	0.48	10000	99.1	90	110	
Na	23	2	He	9610.457	1.555	10495318	1.97	10000	96.1	90	110	
Mg	24	2	He	9860.753	1.968	6416529	1.71	10000	98.6	90	110	
K	39	2	He	9854.869	1.500	9794492	0.14	10000	98.5	90	110	
Mn	55	2	He	98.051	1.787	530581	0.78	100	98.1	90	110	
Co	59	2	He	94.073	1.778	863689	0.45	100	94.1	90	110	
Ni	60	2	He	95.948	0.937	213008	0.68	100	95.9	90	110	
Cu	63	2	He	94.639	1.936	526017	0.60	100	94.6	90	110	
Zn	66	2	He	96.096	0.686	118965	1.04	100	96.1	90	110	
Al	27	2	He	96.486	1.028	46685	1.65	100	96.5	90	110	
B	11	1	No Gas	475.874	2.774	911649	1.62	500	95.2	90	110	
Al	27	1	No Gas	104.020	2.314	1367931	3.56	100	104.0	90	110	
Si	28	1	No Gas	520.924	1.906	3739031	1.22	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.173	0.947	1355191	1.71	100	98.2	90	110	
Cd	111	1	No Gas	96.670	3.020	264624	1.63	100	96.7	90	110	
Sr	88	1	No Gas	100.114	2.665	2685323	0.28	100	100.1	90	110	
Mo	95	1	No Gas	95.975	2.241	531715	0.30	100	96.0	90	110	
Sn	118	1	No Gas	98.553	2.649	802901	1.14	100	98.6	90	110	
Sb	121	1	No Gas	98.076	2.978	1176300	0.37	100	98.1	90	110	
Ba	137	1	No Gas	96.720	2.365	436586	0.95	100	96.7	90	110	
Tl	205	1	No Gas	101.923	3.489	2120021	1.75	100	101.9	90	110	
Tl	203	1	No Gas	102.207	3.192	893994	1.32	100	102.2	90	110	
Pb	208	1	No Gas	95.099	2.947	2919860	0.54	100	95.1	90	110	
U	238	1	No Gas	97.914	3.741	2889657	2.25	100	97.9	90	110	
Ca	43	2	He	9678.808	0.225	27668	1.32	10000	96.8	90	110	
Sb	121	2	He	94.880	0.892	583428	0.73	100	94.9	90	110	
Ti	47	2	He	95.706	1.547	24432	1.86	100	95.7	90	110	
Cu	63	1	No Gas	98.307	2.969	1061735	0.69	100	98.3	90	110	
Se	82	1	No Gas	98.899	6.535	20016	3.75	100	98.9	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	734769	1.29	768064	95.66	70	120	
Ge	72	2	He	687075	1.33	709415	96.85	70	120	
Ge	72	1	No Gas	2189719	2.91	2282452	95.94	70	120	
In	115	1	No Gas	2320763	2.45	2434568	95.33	70	120	
Bi	209	1	No Gas	1924776	2.46	2062007	93.34	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	156_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:11:30-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	Upper Limit	QC Flag
Li	7	1	No Gas	-0.036	-169.2	51270	1.6	0.5	
Be	9	1	No Gas	0.014	16.9	63	12.1	0.5	
V	51	2	He	-0.052	-28.3	2705	4.2	2.5	
Cr	52	2	He	0.187	47.1	16687	3.9	2.5	
Fe	56	2	He	1.166	8.6	23804	2.4	100	
Se	78	2	He	-0.135	-110.8	255	6.8	2	
As	75	2	He	0.042	112.5	316	17.1	2.5	
Ca	44	2	He	-3.045	-75.4	970	10.8	100	
Na	23	2	He	40.233	3.6	100100	0.7	100	
Mg	24	2	He	1.131	11.7	1213	8.0	100	
K	39	2	He	19.587	10.7	204496	1.1	100	
Mn	55	2	He	0.109	9.8	1400	4.0	2.5	
Co	59	2	He	0.009	50.3	160	25.0	2.5	
Ni	60	2	He	0.014	262.8	337	24.9	2.5	
Cu	63	2	He	-0.251	-3.5	753	5.4	2	
Zn	66	2	He	0.358	23.7	813	13.5	2.5	
Al	27	2	He	-0.115	-112.9	570	10.7	5	
B	11	1	No Gas	-1.468	-51.6	47742	2.1	0.5	
Al	27	1	No Gas	0.023	251.7	15352	6.0	5	
Si	28	1	No Gas	0.473	140.1	240518	1.4	10	
Ag	107	1	No Gas	0.007	111.9	200	49.2	2.5	
Cd	111	1	No Gas	0.006	31.7	22	26.8	1	
Sr	88	1	No Gas	0.019	20.3	1370	11.6	2.5	
Mo	95	1	No Gas	0.078	41.3	873	17.2	2.5	
Sn	118	1	No Gas	0.173	23.4	2294	17.7	5	
Sb	121	1	No Gas	0.453	4.3	5608	3.6	2.5	
Ba	137	1	No Gas	0.036	30.0	330	18.9	2.5	
Tl	205	1	No Gas	0.238	21.6	5235	21.2	1	
Tl	203	1	No Gas	0.223	16.6	2054	16.2	1	
Pb	208	1	No Gas	-0.005	-46.8	600	13.0	2.5	
U	238	1	No Gas	0.021	20.3	683	19.9	2.5	
Ca	43	2	He	8.461	122.5	60	50.0	100	
Sb	121	2	He	0.422	3.6	2637	4.5	2.5	
Ti	47	2	He	-0.037	-119.9	7	173.2	2.5	
Cu	63	1	No Gas	-0.296	-6.3	1783	12.5	2.5	
Se	82	1	No Gas	0.319	93.4	8	786.0	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	769945	0.99	768064	100.24	70	120	
Ge	72	2	He	689941	1.02	709415	97.26	70	120	
Ge	72	1	No Gas	2212850	1.08	2282452	96.95	70	120	
In	115	1	No Gas	2335914	3.78	2434568	95.95	70	120	
Bi	209	1	No Gas	1954085	1.40	2062007	94.77	70	120	

Sample Report

Sample Table

Sample Name	HS23061707-01
Data File Name	161SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:29:31-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	13.654	13.654	2.36	193494	0.01	2000	
Be	9	1	No Gas	0.122	0.122	10.32	430	0.03	2000	
V	51	2	He	1.885	1.885	3.05	14923	0.01	2000	
Cr	52	2	He	37.971	37.971	1.32	277925	0.01	2000	
Fe	56	2	He	18385.289	18385.289	1.63	109702765	0.02	200000	
Se	78	2	He	-0.313	-0.313	-114.19	236	-0.13	2000	
As	75	2	He	0.541	0.541	9.59	871	0.06	2000	
Ca	44	2	He	5243.551	5243.551	2.35	251484	2.09	200000	
Na	23	2	He	19773.588	19773.588	2.16	21781053	0.09	200000	
Mg	24	2	He	2914.601	2914.601	3.45	1918566	0.15	200000	
K	39	2	He	1832.174	1832.174	1.04	1994118	0.09	200000	
Mn	55	2	He	339.844	339.844	1.88	1858417	0.02	2000	
Co	59	2	He	0.710	0.710	1.78	6675	0.01	2000	
Ni	60	2	He	15.559	15.559	0.58	35202	0.04	2000	
Cu	63	2	He	2.006	2.006	3.37	13400	0.01	2000	
Zn	66	2	He	4.843	4.843	5.81	6418	0.08	2000	
Al	27	2	He	287.704	287.704	14.76	139631	0.21	2000	
B	11	1	No Gas	2.644	2.644	19.81	55906	0.00	2000	
Al	27	1	No Gas	290.122	290.122	10.08	3917958	0.01	2000	
Si	28	1	No Gas	16060.512	16060.512	1.72	112090622	0.01	2000	>LDR
Ag	107	1	No Gas	0.005	0.005	57.35	190	0.00	2000	
Cd	111	1	No Gas	0.156	0.156	20.77	448	0.03	2000	
Sr	88	1	No Gas	112.587	112.587	0.93	3126453	0.00	2000	
Mo	95	1	No Gas	2.959	2.959	3.98	17416	0.02	2000	
Sn	118	1	No Gas	0.076	0.076	10.08	1537	0.00	2000	
Sb	121	1	No Gas	0.117	0.117	12.77	1573	0.01	2000	
Ba	137	1	No Gas	121.954	121.954	0.93	569848	0.02	2000	
Tl	205	1	No Gas	-0.002	-0.002	-182.71	180	0.00	2000	
Tl	203	1	No Gas	0.001	0.001	1183.15	83	0.00	2000	
Pb	208	1	No Gas	0.697	0.697	4.45	23263	0.00	2000	
U	238	1	No Gas	0.087	0.087	5.21	2750	0.00	2000	
Ca	43	2	He	5167.910	5167.910	2.17	14958	34.55	200000	
Sb	121	2	He	0.114	0.114	13.12	740	0.02	2000	
Ti	47	2	He	8.882	8.882	7.53	2307	0.38	2000	
Cu	63	1	No Gas	2.176	2.176	1.02	29345	0.01	2000	
Zn	66	1	No Gas	5.054	5.054	4.35	17398	0.03	2000	
Se	82	1	No Gas	0.564	0.564	83.60	61	0.93	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	774767	2.34	768064	100.87	70	120	
Ge	72	2	He	695039	1.31	709415	97.97	70	120	
Ge	72	1	No Gas	2266618	1.86	2282452	99.31	70	120	
In	115	1	No Gas	2401900	1.37	2434568	98.66	70	120	

Sample Report

Bi	209	1	No Gas	2023887	2.38	2062007	98.15	70	120	

Sample Report

Sample Table

Sample Name	HS23061707-02
Data File Name	162SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:31:38-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	12.781	12.781	2.23	185564	0.01	2000	
Be	9	1	No Gas	0.124	0.124	0.76	442	0.03	2000	
V	51	2	He	2.435	2.435	1.91	17991	0.01	2000	
Cr	52	2	He	57.826	57.826	7.18	406056	0.01	2000	
Fe	56	2	He	19003.560	19003.560	0.95	110965458	0.02	200000	
Se	78	2	He	0.013	0.013	774.10	269	0.00	2000	
As	75	2	He	0.663	0.663	4.25	986	0.07	2000	
Ca	44	2	He	5263.627	5263.627	2.68	247041	2.13	200000	
Na	23	2	He	19684.631	19684.631	1.86	21218559	0.09	200000	
Mg	24	2	He	2918.151	2918.151	1.48	1880131	0.16	200000	
K	39	2	He	1868.334	1868.334	2.57	1986297	0.09	200000	
Mn	55	2	He	366.025	366.025	1.00	1958641	0.02	2000	
Co	59	2	He	0.804	0.804	5.91	7382	0.01	2000	
Ni	60	2	He	15.885	15.885	0.65	35163	0.05	2000	
Cu	63	2	He	1.864	1.864	6.54	12333	0.02	2000	
Zn	66	2	He	5.141	5.141	2.61	6645	0.08	2000	
Al	27	2	He	613.530	613.530	5.95	290518	0.21	2000	
B	11	1	No Gas	1.468	1.468	42.60	53973	0.00	2000	
Al	27	1	No Gas	665.944	665.944	16.14	8846308	0.01	2000	
Si	28	1	No Gas	16403.706	16403.706	3.50	112593542	0.01	2000	>LDR
Ag	107	1	No Gas	0.008	0.008	52.79	223	0.00	2000	
Cd	111	1	No Gas	0.165	0.165	15.98	476	0.03	2000	
Sr	88	1	No Gas	109.674	109.674	0.56	3061892	0.00	2000	
Mo	95	1	No Gas	4.221	4.221	2.88	24780	0.02	2000	
Sn	118	1	No Gas	0.056	0.056	21.76	1370	0.00	2000	
Sb	121	1	No Gas	0.153	0.153	5.66	1980	0.01	2000	
Ba	137	1	No Gas	119.233	119.233	1.67	560099	0.02	2000	
Tl	205	1	No Gas	0.003	0.003	74.96	273	0.00	2000	
Tl	203	1	No Gas	0.002	0.002	351.77	100	0.00	2000	
Pb	208	1	No Gas	0.789	0.789	5.49	25981	0.00	2000	
U	238	1	No Gas	0.090	0.090	1.10	2807	0.00	2000	
Ca	43	2	He	5169.612	5169.612	1.33	14645	35.30	200000	
Sb	121	2	He	0.135	0.135	4.83	853	0.02	2000	
Ti	47	2	He	23.009	23.009	41.12	5816	0.40	2000	
Cu	63	1	No Gas	2.002	2.002	2.14	26957	0.01	2000	
Zn	66	1	No Gas	5.608	5.608	13.73	18862	0.03	2000	
Se	82	1	No Gas	0.436	0.436	139.69	31	1.42	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	779362	1.77	768064	101.47	70	120	
Ge	72	2	He	680119	1.16	709415	95.87	70	120	
Ge	72	1	No Gas	2229084	1.43	2282452	97.66	70	120	
In	115	1	No Gas	2414607	0.91	2434568	99.18	70	120	

Sample Report

Bi	209	1	No Gas	2004901	5.34	2062007	97.23	70	120	

Sample Report

Sample Table

Sample Name	HS23061707-03
Data File Name	163SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:33:47-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	9.192	9.192	3.59	150071	0.01	2000	
Be	9	1	No Gas	0.021	0.021	29.73	87	0.02	2000	
V	51	2	He	0.083	0.083	14.52	3542	0.00	2000	
Cr	52	2	He	0.965	0.965	9.57	22011	0.00	2000	
Fe	56	2	He	7343.547	7343.547	1.23	43493043	0.02	200000	
Se	78	2	He	-0.123	-0.123	-20.82	257	-0.05	2000	
As	75	2	He	0.170	0.170	34.28	457	0.04	2000	
Ca	44	2	He	1947.253	1947.253	2.62	93386	2.09	200000	
Na	23	2	He	20812.710	20812.710	2.00	22747692	0.09	200000	
Mg	24	2	He	1317.013	1317.013	1.97	860654	0.15	200000	
K	39	2	He	1285.010	1285.010	1.48	1443216	0.09	200000	
Mn	55	2	He	107.617	107.617	1.40	584532	0.02	2000	
Co	59	2	He	0.420	0.420	5.43	3951	0.01	2000	
Ni	60	2	He	1.074	1.074	5.50	2694	0.04	2000	
Cu	63	2	He	0.157	0.157	13.28	3024	0.01	2000	
Zn	66	2	He	4.266	4.266	1.95	5655	0.08	2000	
Al	27	2	He	16.400	16.400	13.42	8481	0.19	2000	
B	11	1	No Gas	-1.753	-1.753	-33.14	48405	0.00	2000	
Al	27	1	No Gas	20.596	20.596	1.49	289647	0.01	2000	
Si	28	1	No Gas	16098.498	16098.498	2.28	111184822	0.01	2000	>LDR
Ag	107	1	No Gas	0.000	0.000	285.65	120	0.00	2000	
Cd	111	1	No Gas	0.076	0.076	16.43	225	0.03	2000	
Sr	88	1	No Gas	36.485	36.485	1.61	1033680	0.00	2000	
Mo	95	1	No Gas	0.072	0.072	31.15	883	0.01	2000	
Sn	118	1	No Gas	0.037	0.037	31.09	1230	0.00	2000	
Sb	121	1	No Gas	0.043	0.043	25.17	643	0.01	2000	
Ba	137	1	No Gas	69.392	69.392	0.68	330719	0.02	2000	
Tl	205	1	No Gas	-0.005	-0.005	-28.67	113	0.00	2000	
Tl	203	1	No Gas	-0.001	-0.001	-453.62	73	0.00	2000	
Pb	208	1	No Gas	0.065	0.065	5.32	2977	0.00	2000	
U	238	1	No Gas	0.016	0.016	4.87	543	0.00	2000	
Ca	43	2	He	1919.534	1919.534	9.16	5538	34.66	200000	
Sb	121	2	He	0.044	0.044	18.23	307	0.01	2000	
Ti	47	2	He	2.047	2.047	25.73	540	0.38	2000	
Cu	63	1	No Gas	0.260	0.260	11.86	7932	0.00	2000	
Zn	66	1	No Gas	4.288	4.288	6.60	14782	0.03	2000	
Se	82	1	No Gas	0.624	0.624	64.99	71	0.88	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	789904	4.02	768064	102.84	70	120	
Ge	72	2	He	689653	0.43	709415	97.21	70	120	
Ge	72	1	No Gas	2242897	1.37	2282452	98.27	70	120	
In	115	1	No Gas	2449250	1.36	2434568	100.60	70	120	

Sample Report

Bi	209	1	No Gas	2084590	2.44	2062007	101.10	70	120	

Sample Report

Sample Table

Sample Name	HS23061707-05
Data File Name	164SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:35:43-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	13.627	13.627	1.26	192583	0.01	2000	
Be	9	1	No Gas	0.027	0.027	30.76	107	0.03	2000	
V	51	2	He	1.440	1.440	3.21	12000	0.01	2000	
Cr	52	2	He	25.042	25.042	1.72	186680	0.01	2000	
Fe	56	2	He	35819.571	35819.571	0.71	211590457	0.02	200000	
Se	78	2	He	-0.262	-0.262	-119.56	240	-0.11	2000	
As	75	2	He	3.969	3.969	3.45	4629	0.09	2000	
Ca	44	2	He	15609.684	15609.684	1.46	739019	2.11	200000	
Na	23	2	He	40498.420	40498.420	0.84	44109494	0.09	200000	
Mg	24	2	He	8901.532	8901.532	1.23	5801308	0.15	200000	
K	39	2	He	2082.358	2082.358	1.07	2218526	0.09	200000	
Mn	55	2	He	659.107	659.107	0.85	3567554	0.02	2000	
Co	59	2	He	0.854	0.854	1.82	7933	0.01	2000	
Ni	60	2	He	13.104	13.104	2.44	29396	0.04	2000	
Cu	63	2	He	0.827	0.827	2.44	6728	0.01	2000	
Zn	66	2	He	3.651	3.651	4.87	4881	0.07	2000	
Al	27	2	He	258.260	258.260	13.38	124008	0.21	2000	
B	11	1	No Gas	13.082	13.082	3.72	75619	0.02	2000	
Al	27	1	No Gas	274.355	274.355	6.03	3595358	0.01	2000	
Si	28	1	No Gas	16034.015	16034.015	1.17	108522408	0.01	2000	>LDR
Ag	107	1	No Gas	0.003	0.003	118.21	153	0.00	2000	
Cd	111	1	No Gas	0.243	0.243	11.57	686	0.04	2000	
Sr	88	1	No Gas	315.604	315.604	2.43	8635843	0.00	2000	
Mo	95	1	No Gas	3.908	3.908	4.98	22519	0.02	2000	
Sn	118	1	No Gas	0.021	0.021	41.48	1057	0.00	2000	
Sb	121	1	No Gas	0.073	0.073	2.01	997	0.01	2000	
Ba	137	1	No Gas	220.586	220.586	1.49	1015774	0.02	2000	
Tl	205	1	No Gas	-0.003	-0.003	-32.23	137	0.00	2000	
Tl	203	1	No Gas	-0.003	-0.003	-71.30	50	-0.01	2000	
Pb	208	1	No Gas	0.304	0.304	9.62	10305	0.00	2000	
U	238	1	No Gas	0.030	0.030	4.69	960	0.00	2000	
Ca	43	2	He	15488.894	15488.894	1.81	44318	34.95	200000	
Sb	121	2	He	0.080	0.080	2.24	527	0.02	2000	
Ti	47	2	He	7.903	7.903	32.02	2034	0.39	2000	
Cu	63	1	No Gas	1.115	1.115	6.70	16991	0.01	2000	
Zn	66	1	No Gas	3.622	3.622	4.01	12413	0.03	2000	
Se	82	1	No Gas	0.925	0.925	50.17	131	0.71	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	772031	0.97	768064	100.52	70	120	
Ge	72	2	He	688061	0.80	709415	96.99	70	120	
Ge	72	1	No Gas	2197886	1.73	2282452	96.29	70	120	
In	115	1	No Gas	2367495	1.36	2434568	97.24	70	120	

Sample Report

Bi	209	1	No Gas	1967079	2.81	2062007	95.40	70	120	

Sample Report

Sample Table

Sample Name	HS23061707-09
Data File Name	165SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:37:43-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.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	34.222	34.222	5.26	372021	0.01	2000	
Be	9	1	No Gas	0.068	0.068	20.47	225	0.03	2000	
V	51	2	He	2.975	2.975	3.14	20704	0.01	2000	
Cr	52	2	He	301.642	301.642	1.68	1995849	0.02	2000	
Fe	56	2	He	86697.236	86697.236	0.36	491697446	0.02	200000	
Se	78	2	He	-0.005	-0.005	-7235.86	259	0.00	2000	
As	75	2	He	2.232	2.232	3.53	2611	0.09	2000	
Ca	44	2	He	116373.829	116373.829	0.69	5282779	2.20	200000	
Na	23	2	He	972666.552	972666.552	0.40	1015878945	0.10	200000	>LDR
Mg	24	2	He	67439.369	67439.369	1.17	42188805	0.16	200000	
K	39	2	He	3965.264	3965.264	0.97	3895270	0.10	200000	
Mn	55	2	He	2126.926	2126.926	0.35	11051762	0.02	2000	>LDR
Co	59	2	He	7.920	7.920	2.69	69980	0.01	2000	
Ni	60	2	He	186.447	186.447	2.20	397647	0.05	2000	
Cu	63	2	He	7.427	7.427	3.42	41577	0.02	2000	
Zn	66	2	He	10.091	10.091	6.69	12329	0.08	2000	
Al	27	2	He	1350.271	1350.271	6.27	620037	0.22	2000	
B	11	1	No Gas	12.182	12.182	17.33	67801	0.02	2000	
Al	27	1	No Gas	1494.497	1494.497	8.74	18499186	0.01	2000	
Si	28	1	No Gas	14689.974	14689.974	0.81	94160162	0.02	2000	>LDR
Ag	107	1	No Gas	0.034	0.034	19.89	517	0.01	2000	
Cd	111	1	No Gas	0.512	0.512	1.90	1272	0.04	2000	
Sr	88	1	No Gas	1766.285	1766.285	2.20	42736911	0.00	2000	
Mo	95	1	No Gas	2.052	2.052	5.48	10644	0.02	2000	
Sn	118	1	No Gas	0.214	0.214	12.59	2354	0.01	2000	
Sb	121	1	No Gas	0.137	0.137	2.76	1673	0.01	2000	
Ba	137	1	No Gas	188.683	188.683	1.46	768415	0.02	2000	
Tl	205	1	No Gas	0.000	0.000	481.16	180	0.00	2000	
Tl	203	1	No Gas	0.009	0.009	52.17	130	0.01	2000	
Pb	208	1	No Gas	0.560	0.560	2.55	15164	0.00	2000	
U	238	1	No Gas	0.137	0.137	7.71	3454	0.00	2000	
Ca	43	2	He	119815.968	119815.968	1.25	328887	36.43	200000	
Sb	121	2	He	0.117	0.117	12.64	720	0.02	2000	
Ti	47	2	He	39.969	39.969	3.32	9818	0.41	2000	
Cu	63	1	No Gas	14.239	14.239	1.88	150221	0.01	2000	
Zn	66	1	No Gas	10.487	10.487	1.67	32015	0.03	2000	
Se	82	1	No Gas	12.437	12.437	4.70	2348	0.53	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	709501	4.92	768064	92.38	70	120	
Ge	72	2	He	660601	1.65	709415	93.12	70	120	
Ge	72	1	No Gas	2080831	1.07	2282452	91.17	70	120	
In	115	1	No Gas	2093626	1.43	2434568	86.00	70	120	
Bi	209	1	No Gas	1625550	2.64	2062007	78.83	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	167_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:41:42-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	94.817	5.699	960416	1.51	100	94.8	90	110	
Be	9	1	No Gas	93.775	3.357	297259	1.17	100	93.8	90	110	
V	51	2	He	95.574	1.203	545873	0.24	100	95.6	90	110	
Cr	52	2	He	95.844	1.377	611556	0.41	100	95.8	90	110	
Fe	56	2	He	9696.028	2.814	52198704	1.67	10000	97.0	90	110	
Se	78	2	He	96.295	0.668	10445	0.81	100	96.3	90	110	
As	75	2	He	95.525	1.897	95873	0.96	100	95.5	90	110	
Ca	44	2	He	9905.042	1.673	427715	0.98	10000	99.1	90	110	
Na	23	2	He	9766.464	1.168	9732284	0.05	10000	97.7	90	110	
Mg	24	2	He	9789.420	1.042	5813704	0.55	10000	97.9	90	110	
K	39	2	He	9893.658	1.235	8973943	0.98	10000	98.9	90	110	
Mn	55	2	He	97.164	1.409	479870	0.27	100	97.2	90	110	
Co	59	2	He	93.748	1.696	785533	0.60	100	93.7	90	110	
Ni	60	2	He	96.989	2.336	196491	1.51	100	97.0	90	110	
Cu	63	2	He	94.585	1.264	479828	0.23	100	94.6	90	110	
Zn	66	2	He	96.182	0.281	108672	1.15	100	96.2	90	110	
Al	27	2	He	96.082	1.814	42425	0.72	100	96.1	90	110	
B	11	1	No Gas	449.191	5.797	844605	1.11	500	89.8	90	110	CCV Main CR1-2 Failed
Al	27	1	No Gas	102.615	1.545	1255381	1.67	100	102.6	90	110	
Si	28	1	No Gas	521.694	3.548	3482796	1.87	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.577	2.447	1273552	3.30	100	99.6	90	110	
Cd	111	1	No Gas	95.693	0.281	242739	1.21	100	95.7	90	110	
Sr	88	1	No Gas	102.093	1.049	2537493	1.00	100	102.1	90	110	
Mo	95	1	No Gas	96.408	0.738	494932	1.66	100	96.4	90	110	
Sn	118	1	No Gas	98.379	0.285	742685	1.21	100	98.4	90	110	
Sb	121	1	No Gas	94.543	2.393	1055128	1.30	100	94.5	90	110	
Ba	137	1	No Gas	96.312	1.139	402837	1.60	100	96.3	90	110	
Tl	205	1	No Gas	102.411	1.732	2010279	0.59	100	102.4	90	110	
Tl	203	1	No Gas	100.874	3.024	832502	1.08	100	100.9	90	110	
Pb	208	1	No Gas	94.464	3.091	2736483	0.91	100	94.5	90	110	
U	238	1	No Gas	95.763	2.805	2666709	0.75	100	95.8	90	110	
Ca	43	2	He	9602.004	0.636	25050	0.68	10000	96.0	90	110	
Sb	121	2	He	94.381	1.160	529647	0.36	100	94.4	90	110	
Ti	47	2	He	96.379	0.760	22455	1.65	100	96.4	90	110	
Cu	63	1	No Gas	98.366	0.650	988690	1.03	100	98.4	90	110	
Se	82	1	No Gas	96.013	3.085	18097	3.56	100	96.0	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	719947	4.50	768064	93.74	70	120	
Ge	72	2	He	627048	1.14	709415	88.39	70	120	
Ge	72	1	No Gas	2036811	1.48	2282452	89.24	70	120	
In	115	1	No Gas	2149633	0.93	2434568	88.30	70	120	
Bi	209	1	No Gas	1815990	2.24	2062007	88.07	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	168_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T17:43:34-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	Upper Limit	QC Flag
Li	7	1	No Gas	0.350	25.2	50699	1.0	0.5	
Be	9	1	No Gas	0.003	131.3	23	53.9	0.5	
V	51	2	He	-0.093	-25.4	2206	5.7	2.5	
Cr	52	2	He	0.345	17.2	16030	2.2	2.5	
Fe	56	2	He	2.597	6.5	29116	2.8	100	
Se	78	2	He	-0.011	-820.6	243	3.9	2	
As	75	2	He	0.038	128.5	280	16.9	2.5	
Ca	44	2	He	-0.594	-402.6	980	10.4	100	
Na	23	2	He	75.660	4.8	125147	2.7	100	
Mg	24	2	He	1.379	14.5	1240	9.8	100	
K	39	2	He	36.067	7.8	199003	1.0	100	
Mn	55	2	He	0.124	14.3	1337	6.4	2.5	
Co	59	2	He	0.006	206.4	123	88.9	2.5	
Ni	60	2	He	0.046	83.5	367	21.2	2.5	
Cu	63	2	He	-0.229	-3.8	790	5.8	2	
Zn	66	2	He	0.444	18.8	830	11.5	2.5	
Al	27	2	He	0.061	503.5	590	22.0	5	
B	11	1	No Gas	-5.164	-27.5	37343	4.9	0.5	
Al	27	1	No Gas	0.134	71.0	15266	8.1	5	
Si	28	1	No Gas	4.360	16.6	242395	0.5	10	
Ag	107	1	No Gas	0.002	106.5	123	20.4	2.5	
Cd	111	1	No Gas	0.004	213.3	16	133.4	1	
Sr	88	1	No Gas	0.108	10.9	3467	9.4	2.5	
Mo	95	1	No Gas	0.032	52.4	577	15.7	2.5	
Sn	118	1	No Gas	0.103	31.4	1580	16.3	5	
Sb	121	1	No Gas	0.367	14.2	4144	12.5	2.5	
Ba	137	1	No Gas	0.045	27.7	337	14.7	2.5	
Tl	205	1	No Gas	0.231	31.2	4648	33.1	1	
Tl	203	1	No Gas	0.226	29.9	1904	32.0	1	
Pb	208	1	No Gas	-0.003	-88.0	610	14.3	2.5	
U	238	1	No Gas	0.021	20.3	607	22.0	2.5	
Ca	43	2	He	4.313	104.6	43	26.6	100	
Sb	121	2	He	0.313	5.9	1773	5.7	2.5	
Ti	47	2	He	0.009	761.0	17	91.7	2.5	
Cu	63	1	No Gas	-0.272	-5.4	1857	7.7	2.5	
Se	82	1	No Gas	0.144	114.6	-26	-119.0	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	706661	2.33	768064	92.01	70	120	
Ge	72	2	He	622297	0.33	709415	87.72	70	120	
Ge	72	1	No Gas	2009497	1.32	2282452	88.04	70	120	
In	115	1	No Gas	2154657	0.98	2434568	88.50	70	120	
Bi	209	1	No Gas	1773987	3.29	2062007	86.03	70	120	

Sample Report

Sample Table

Sample Name	HS23061712-08MS
Data File Name	175SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070723A.b
Acq Date Time	2023-07-07T18:09:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 197198
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	101.548	101.548	1.20	1344697	0.01	2000	
Be	9	1	No Gas	52.382	52.382	0.40	217682	0.02	2000	
V	51	2	He	50.187	50.187	1.76	379922	0.01	2000	
Cr	52	2	He	67.852	67.852	2.31	576598	0.01	2000	
Fe	56	2	He	5899.486	5899.486	2.33	41914538	0.01	200000	
Se	78	2	He	52.057	52.057	1.01	7600	0.68	2000	
As	75	2	He	51.490	51.490	0.98	68342	0.08	2000	
Ca	44	2	He	26028.621	26028.621	2.70	1481005	1.76	200000	
Na	23	2	He	170494.099	170494.099	1.52	223059003	0.08	200000	
Mg	24	2	He	22482.230	22482.230	1.98	17614436	0.13	200000	
K	39	2	He	6953.010	6953.010	2.01	8386554	0.08	200000	
Mn	55	2	He	609.422	609.422	2.76	3965581	0.02	2000	
Co	59	2	He	64.167	64.167	1.19	709501	0.01	2000	
Ni	60	2	He	1197.989	1197.989	1.56	3198307	0.04	2000	
Cu	63	2	He	49.713	49.713	1.83	333961	0.01	2000	
Zn	66	2	He	52.172	52.172	2.32	77967	0.07	2000	
Al	27	2	He	92.953	92.953	0.94	54186	0.17	2000	
B	11	1	No Gas	473.250	473.250	1.43	1164035	0.04	2000	
Al	27	1	No Gas	100.416	100.416	3.37	1655754	0.01	2000	
Si	28	1	No Gas	11036.677	11036.677	0.59	93388009	0.01	2000	>LDR
Ag	107	1	No Gas	49.347	49.347	1.21	840009	0.01	2000	
Cd	111	1	No Gas	51.590	51.590	1.69	174187	0.03	2000	
Sr	88	1	No Gas	529.125	529.125	1.30	17501072	0.00	2000	
Mo	95	1	No Gas	53.114	53.114	0.85	363174	0.01	2000	
Sn	118	1	No Gas	93.153	93.153	0.70	936111	0.01	2000	
Sb	121	1	No Gas	51.970	51.970	1.69	781769	0.01	2000	
Ba	137	1	No Gas	459.828	459.828	1.77	2559168	0.02	2000	
Tl	205	1	No Gas	49.389	49.389	1.50	1251846	0.00	2000	
Tl	203	1	No Gas	48.109	48.109	1.64	512763	0.01	2000	
Pb	208	1	No Gas	49.236	49.236	1.35	1842341	0.00	2000	
U	238	1	No Gas	94.226	94.226	1.58	3388660	0.00	2000	
Ca	43	2	He	25997.496	25997.496	2.83	89399	29.08	200000	
Sb	121	2	He	51.413	51.413	3.35	380617	0.01	2000	
Ti	47	2	He	136.022	136.022	1.98	41800	0.33	2000	
Cu	63	1	No Gas	52.435	52.435	1.50	713110	0.01	2000	
Zn	66	1	No Gas	52.396	52.396	0.73	205413	0.03	2000	
Se	82	1	No Gas	52.815	52.815	2.93	13385	0.39	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	942843	1.64	768064	122.76	70	120	ISTD Failed
Ge	72	2	He	827421	1.82	709415	116.63	70	120	
Ge	72	1	No Gas	2744838	0.94	2282452	120.26	70	120	ISTD Failed
In	115	1	No Gas	2861323	0.35	2434568	117.53	70	120	
Bi	209	1	No Gas	2344387	1.41	2062007	113.69	70	120	