LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 9

2025

Bate Stamp Numbers
01303643 – 01305590

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

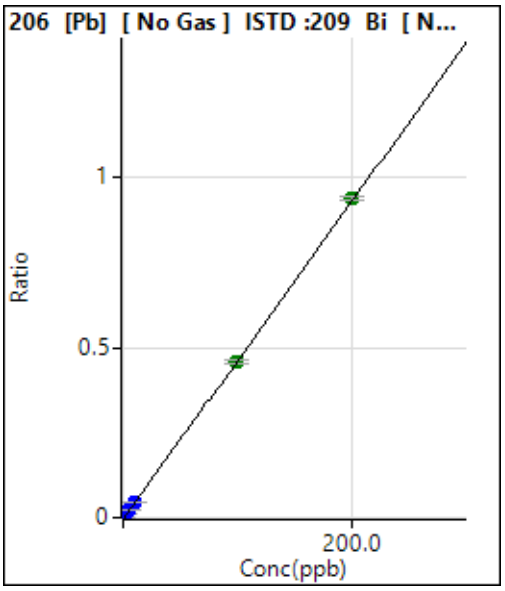
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LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 9

2025

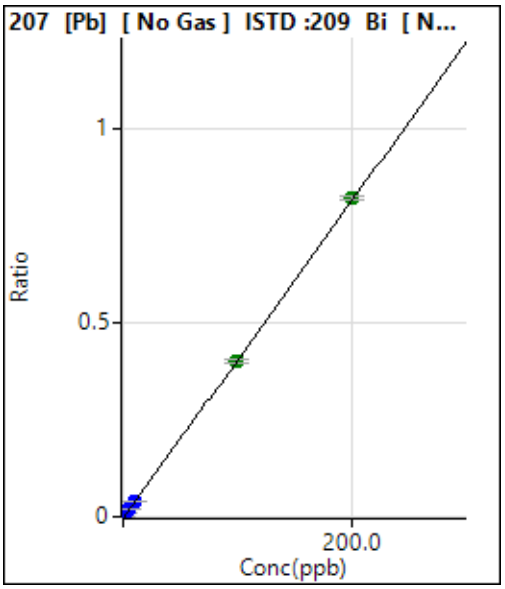
A.	Title:	(Cont'd) Report – Appendix C labs File 3 to Draft Quarterly Evaluation Report, 2nd Quarter (April–June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Longhorn Army Ammunition Plant
	Date:	March 7, 2025
	Bate Stamp:	01303643–01305590



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	613.36	0.0001	P	1.1	
2	☐	2.000	1.974	45428.86	0.0093	P	2.2	-1.3
3	☐	5.000	5.028	113712.79	0.0236	P	2.5	0.6
4	☐	10.000	9.913	224739.88	0.0464	P	1.1	-0.9
5	☐	100.000	97.820	2097034.92	0.4566	A	2.7	-2.2
6	☐	200.000	201.094	4164933.58	0.9385	A	1.0	0.5

y = 0.0047 * x + 1.2522E-004
R = 0.9999
DL = 0.0008833 ppb
BEC = 0.02683 ppb

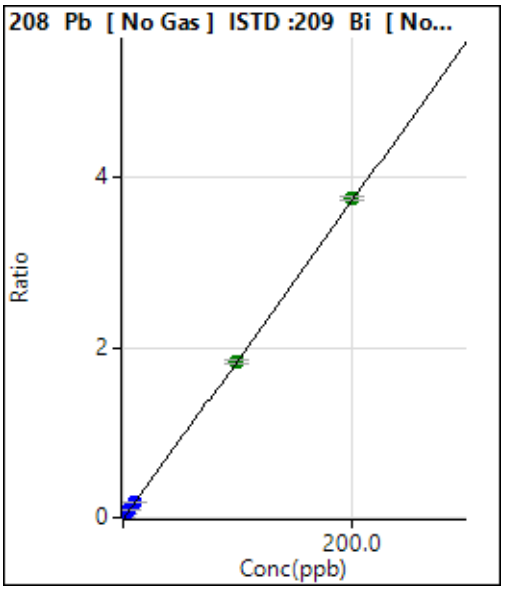
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	526.69	0.0001	P	2.5	
2	☐	2.000	1.977	39916.91	0.0082	P	2.8	-1.1
3	☐	5.000	4.949	98247.52	0.0204	P	1.1	-1.0
4	☐	10.000	9.792	194824.24	0.0402	P	1.1	-2.1
5	☐	100.000	98.116	1846001.28	0.4019	A	2.1	-1.9
6	☐	200.000	200.954	3652784.63	0.8230	A	1.2	0.5

y = 0.0041 * x + 1.0751E-004
R = 0.9999
DL = 0.001976 ppb
BEC = 0.02625 ppb

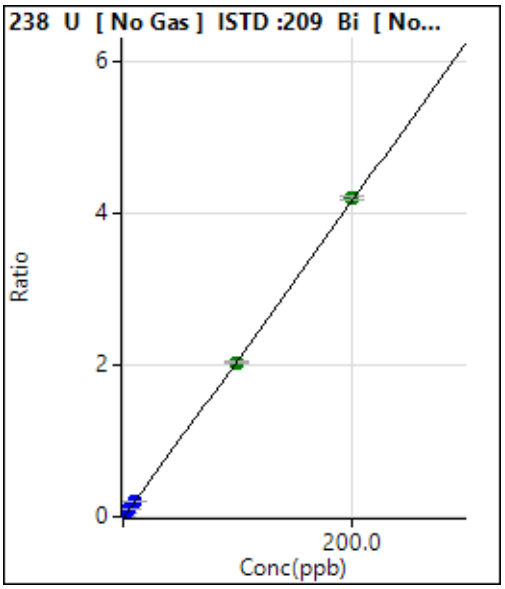
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1	☐	0.000	0.000	2323.46	0.0005	P	5.2	
2	☐	2.000	1.983	182555.67	0.0375	P	1.1	-0.8
3	☐	5.000	5.001	452680.68	0.0939	P	1.6	0.0
4	☐	10.000	9.922	900363.97	0.1858	P	1.0	-0.8
5	☐	100.000	98.116	8420353.73	1.8333	A	2.1	-1.9
6	☐	200.000	200.946	16660976.42	3.7541	A	0.8	0.5

y = 0.0187 * x + 4.7423E-004
R = 0.9999
DL = 0.003976 ppb
BEC = 0.02539 ppb

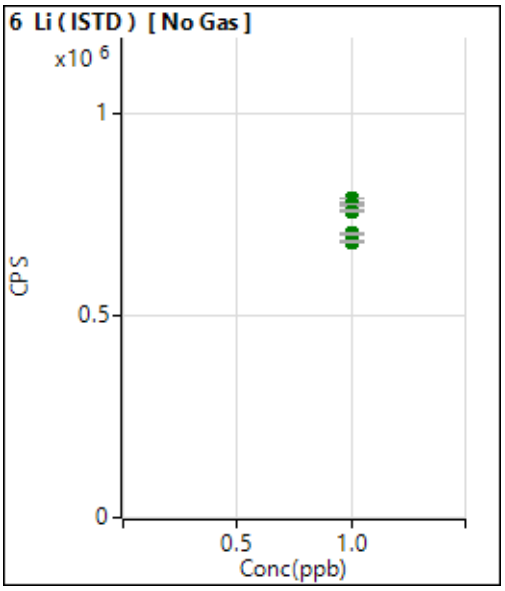
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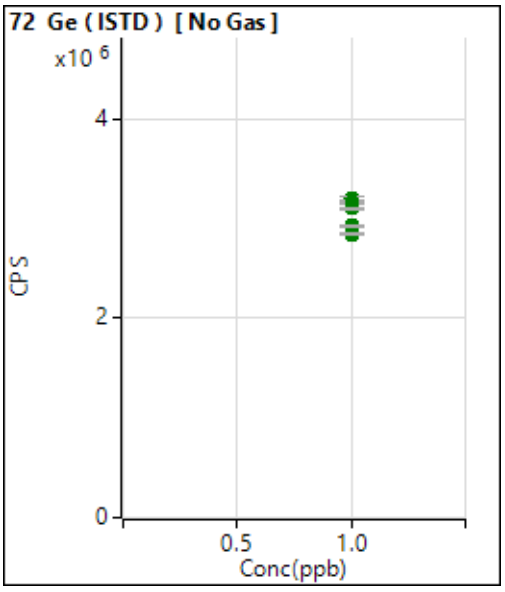
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1	☐	0.000	0.000	1480.12	0.0003	P	5.6	
2	☐	2.000	1.852	189250.53	0.0389	P	0.7	-7.4
3	☐	5.000	4.679	471674.98	0.0978	P	0.8	-6.4
4	☐	10.000	9.283	938876.92	0.1938	P	0.9	-7.2
5	☐	100.000	97.517	9336513.61	2.0327	A	1.8	-2.5
6	☐	200.000	201.287	18618820.56	4.1953	A	1.2	0.6

y = 0.0208 * x + 3.0208E-004
R = 0.9999
DL = 0.002426 ppb
BEC = 0.01449 ppb

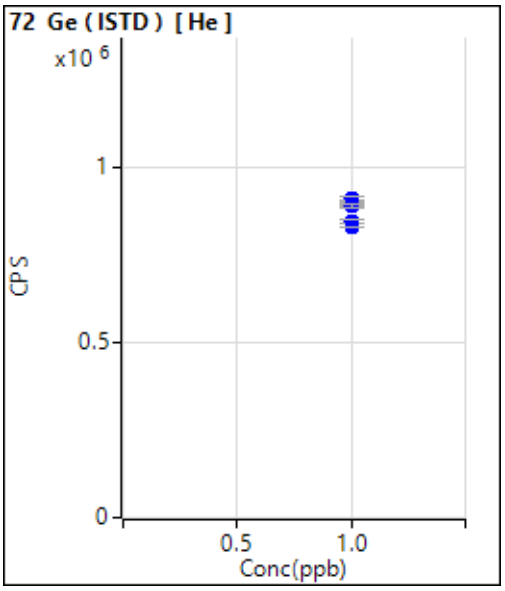
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Min Conc: <None>



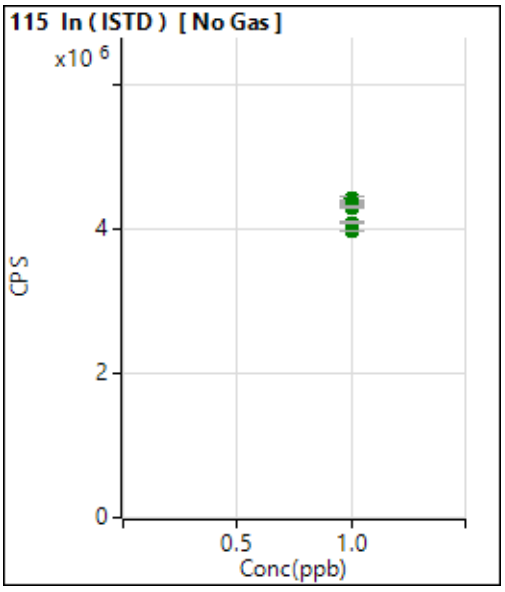
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1	☐	1.000		789600.72		A	0.1	
2	☐	1.000		775224.95		A	0.7	
3	☐	1.000		773452.79		A	0.2	
4	☐	1.000		758349.11		A	0.7	
5	☐	1.000		702121.63		A	0.9	
6	☐	1.000		682313.47		A	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3202766.93		A	1.1	
2	☐	1.000		3158043.81		A	0.8	
3	☐	1.000		3147283.08		A	0.4	
4	☐	1.000		3105103.60		A	0.7	
5	☐	1.000		2923348.81		A	0.8	
6	☐	1.000		2838106.21		A	0.7	

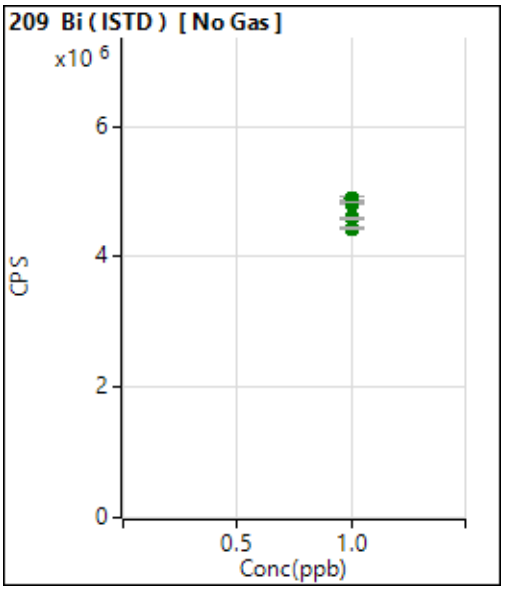


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		909952.25		P	1.0	
2	☐	1.000		893987.98		P	0.8	
3	☐	1.000		891524.36		P	0.4	
4	☐	1.000		886961.47		P	0.9	
5	☐	1.000		844684.91		P	1.3	
6	☐	1.000		827580.22		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4425209.38		A	0.8	
2	☐	1.000		4373188.50		A	0.2	
3	☐	1.000		4339244.30		A	0.7	
4	☐	1.000		4303189.89		A	0.2	
5	☐	1.000		4085281.93		A	0.7	
6	☐	1.000		3968529.13		A	0.3	

Calibration for 172_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4898592.22		A	0.6	
2	☐	1.000		4865545.24		A	0.6	
3	☐	1.000		4821597.12		A	0.7	
4	☐	1.000		4845240.35		A	0.3	
5	☐	1.000		4593412.85		A	0.6	
6	☐	1.000		4438006.81		A	0.5	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	174LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:54:25-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	165CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.225	2.225	5.32	65444	0.00	2	
Be	9	1	No Gas	2.050	2.050	2.00	5499	0.04	2	
V	51	2	He	1.696	1.696	4.67	17897	0.01	2	
Cr	52	2	He	2.055	2.055	3.25	23584	0.01	2	
Fe	56	2	He	201.574	201.574	1.96	1447792	0.01	200	
Se	78	2	He	2.386	2.386	12.77	355	0.67	2	
As	75	2	He	1.941	1.941	2.31	2625	0.07	2	
Ca	44	2	He	212.879	212.879	4.98	9140	2.33	200	
Na	23	2	He	195.892	195.892	2.42	286313	0.07	200	
Mg	24	2	He	202.879	202.879	1.55	132565	0.15	200	
K	39	2	He	197.643	197.643	2.62	243846	0.08	200	
Mn	55	2	He	1.994	1.994	5.10	12062	0.02	2	
Co	59	2	He	2.094	2.094	0.72	24796	0.01	2	
Ni	60	2	He	2.056	2.056	3.00	6375	0.03	2	
Cu	63	2	He	2.034	2.034	2.74	17291	0.01	2	
Zn	66	2	He	2.161	2.161	8.40	4091	0.05	2	
Al	27	2	He	1.919	1.919	8.49	1720	0.11	2	
B	11	1	No Gas	11.850	11.850	2.03	27014	0.04	10	
Al	27	1	No Gas	2.001	2.001	4.68	61357	0.00	2	
Si	28	1	No Gas	10.315	10.315	1.46	244322	0.00	10	
Ag	107	1	No Gas	2.034	2.034	3.29	49740	0.00	2	
Cd	111	1	No Gas	1.999	1.999	8.01	9739	0.02	2	
Sr	88	1	No Gas	2.038	2.038	2.79	95569	0.00	2	
Mo	95	1	No Gas	1.965	1.965	0.37	18042	0.01	2	
Sn	118	1	No Gas	1.787	1.787	3.27	36838	0.00	2	
Sb	121	1	No Gas	1.994	1.994	2.15	45562	0.00	2	
Ba	137	1	No Gas	1.964	1.964	2.91	17579	0.01	2	
Tl	205	1	No Gas	2.068	2.068	1.25	126433	0.00	2	
Tl	203	1	No Gas	2.086	2.086	2.05	53992	0.00	2	
Pb	208	1	No Gas	1.992	1.992	1.05	178240	0.00	2	
U	238	1	No Gas	1.870	1.870	1.30	185768	0.00	2	
Ca	43	2	He	247.541	247.541	28.98	633	39.08	200	
Sb	121	2	He	1.934	1.934	1.75	18974	0.01	2	
Ti	47	2	He	1.962	1.962	18.66	480	0.41	200	
Cu	63	1	No Gas	2.137	2.137	1.94	33107	0.01	2	
Se	82	1	No Gas	1.904	1.904	25.96	913	0.21	2	
Zr	90	1	No Gas	1.702	1.702	1.76	49614	0.00	2	
Zr	90	2	He	1.648	1.648	8.76	20462	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	724437	0.26	789601	91.75	70	120	

Sample Report

Ge	72	2	He	858997	1.16	909952	94.40	70	120	
Ge	72	1	No Gas	2975743	0.20	3202767	92.91	70	120	
In	115	1	No Gas	4162766	0.27	4425209	94.07	70	120	
Bi	209	1	No Gas	4729303	0.18	4898592	96.54	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	175LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:56:50-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	165CALB.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	5.377	5.377	1.96	94430	0.01	5	
Be	9	1	No Gas	5.017	5.017	4.19	13308	0.04	5	
V	51	2	He	4.882	4.882	1.35	38745	0.01	5	
Cr	52	2	He	5.144	5.144	2.53	46806	0.01	5	
Fe	56	2	He	519.484	519.484	1.08	3708475	0.01	500	
Se	78	2	He	4.858	4.858	7.39	617	0.79	5	
As	75	2	He	5.086	5.086	2.09	6357	0.08	5	
Ca	44	2	He	516.717	516.717	4.21	21440	2.41	500	
Na	23	2	He	511.288	511.288	1.01	615513	0.08	500	
Mg	24	2	He	517.686	517.686	1.72	335194	0.15	500	
K	39	2	He	510.458	510.458	2.25	487131	0.10	500	
Mn	55	2	He	5.060	5.060	2.74	29769	0.02	5	
Co	59	2	He	5.238	5.238	2.04	61802	0.01	5	
Ni	60	2	He	5.334	5.334	0.53	16153	0.03	5	
Cu	63	2	He	5.225	5.225	3.24	43406	0.01	5	
Zn	66	2	He	5.118	5.118	5.06	8576	0.06	5	
Al	27	2	He	5.526	5.526	10.93	3170	0.17	5	
B	11	1	No Gas	26.727	26.727	1.55	51471	0.05	25	
Al	27	1	No Gas	4.895	4.895	1.75	102397	0.00	5	
Si	28	1	No Gas	26.153	26.153	1.00	356579	0.01	25	
Ag	107	1	No Gas	5.175	5.175	1.77	127581	0.00	5	
Cd	111	1	No Gas	5.189	5.189	4.23	25596	0.02	5	
Sr	88	1	No Gas	5.012	5.012	0.80	234964	0.00	5	
Mo	95	1	No Gas	4.914	4.914	3.11	45474	0.01	5	
Sn	118	1	No Gas	4.845	4.845	1.68	88400	0.01	5	
Sb	121	1	No Gas	4.963	4.963	1.61	112535	0.00	5	
Ba	137	1	No Gas	4.979	4.979	2.29	44164	0.01	5	
Tl	205	1	No Gas	5.202	5.202	2.22	319304	0.00	5	
Tl	203	1	No Gas	5.143	5.143	1.95	133663	0.00	5	
Pb	208	1	No Gas	5.003	5.003	1.61	447381	0.00	5	
U	238	1	No Gas	4.741	4.741	0.84	472100	0.00	5	
Ca	43	2	He	509.637	509.637	5.14	1257	40.55	500	
Sb	121	2	He	5.132	5.132	2.50	47803	0.01	5	
Ti	47	2	He	5.577	5.577	7.81	1330	0.42	5	
Cu	63	1	No Gas	5.302	5.302	2.32	80270	0.01	5	
Se	82	1	No Gas	5.466	5.466	12.17	1897	0.29	5	
Zr	90	1	No Gas	4.442	4.442	1.08	129324	0.00	5	
Zr	90	2	He	4.682	4.682	2.85	52927	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	719809	0.46	789601	91.16	70	120	

Sample Report

Ge	72	2	He	858518	0.41	909952	94.35	70	120	
Ge	72	1	No Gas	2975803	0.30	3202767	92.91	70	120	
In	115	1	No Gas	4210948	0.56	4425209	95.16	70	120	
Bi	209	1	No Gas	4763591	0.93	4898592	97.24	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	176_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T18:59:14-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	0.034	139.3	44795	0.5	0.5	
Be	9	1	No Gas	0.005	89.2	57	22.2	0.5	
V	51	2	He	-0.294	-10.1	4930	3.2	2.5	
Cr	52	2	He	0.085	47.1	8890	2.5	2.5	
Fe	56	2	He	2.585	1.8	31977	1.4	100	
Se	78	2	He	0.257	17.0	130	4.6	1	
As	75	2	He	-0.033	-58.4	283	7.2	2.5	
Ca	44	2	He	29.793	12.4	1740	8.0	100	
Na	23	2	He	-8.919	-1.1	73323	1.2	100	
Mg	24	2	He	1.067	9.5	2584	3.5	100	
K	39	2	He	-2.807	-36.7	89023	1.0	100	
Mn	55	2	He	0.073	27.5	973	11.3	2.5	
Co	59	2	He	0.001	206.9	147	17.2	2.5	
Ni	60	2	He	0.082	16.2	490	8.9	2.5	
Cu	63	2	He	0.050	21.4	1050	7.4	1	
Zn	66	2	He	0.567	19.3	1697	10.5	2.5	
Al	27	2	He	2.111	18.5	1823	9.8	5	
B	11	1	No Gas	1.868	9.7	10364	2.5	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	1.591	8.3	56463	2.8	5	
Si	28	1	No Gas	2.786	6.5	194184	1.5	10	
Ag	107	1	No Gas	0.008	55.5	500	23.1	2.5	
Cd	111	1	No Gas	-0.001	-281.2	-11	-97.9	1	
Sr	88	1	No Gas	0.074	4.1	5395	2.1	2.5	
Mo	95	1	No Gas	0.012	15.9	230	7.5	2.5	
Sn	118	1	No Gas	-0.094	-9.5	5851	2.9	5	
Sb	121	1	No Gas	0.023	25.4	1117	11.5	2.5	
Ba	137	1	No Gas	0.192	7.5	2297	5.9	2.5	
Tl	205	1	No Gas	0.005	14.0	987	4.8	1	
Tl	203	1	No Gas	0.004	58.8	407	15.6	1	
Pb	208	1	No Gas	0.009	16.8	3077	4.0	2.5	
U	238	1	No Gas	-0.001	-280.9	1383	12.4	2.5	
Ca	43	2	He	6.367	111.7	60	28.9	100	
Sb	121	2	He	0.027	4.3	513	3.0	2.5	
Ti	47	2	He	-0.010	-664.5	17	91.7	2.5	
Se	82	1	No Gas	-0.101	-396.5	367	31.6	1	
Zr	90	1	No Gas	0.097	14.1	3887	10.6	2.5	
Zr	90	2	He	0.073	2.1	2294	1.8	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	723264	0.50	789601	91.60	70	120	
Ge	72	2	He	870901	1.05	909952	95.71	70	120	
Ge	72	1	No Gas	3025810	0.87	3202767	94.47	70	120	
In	115	1	No Gas	4232403	0.51	4425209	95.64	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	4776619	0.44	4898592	97.51	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\062824A.b
Acq Date Time	2024-06-28T19:40:41-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	99.766	2.367	980171	2.45	100	99.8	90	110	
Be	9	1	No Gas	100.544	2.082	267309	2.35	100	100.5	90	110	
V	51	2	He	100.569	0.823	658401	0.97	100	100.6	90	110	
Cr	52	2	He	99.574	1.102	749152	1.26	100	99.6	90	110	
Fe	56	2	He	9972.965	1.696	70231221	1.86	10000	99.7	90	110	
Se	78	2	He	101.973	0.868	10834	1.01	100	102.0	90	110	
As	75	2	He	101.351	1.070	119417	1.23	100	101.4	90	110	
Ca	44	2	He	10147.677	1.314	407339	1.48	10000	101.5	90	110	
Na	23	2	He	9997.113	0.716	10413805	0.87	10000	100.0	90	110	
Mg	24	2	He	10151.568	0.771	6471595	0.93	10000	101.5	90	110	
K	39	2	He	10070.265	1.164	7844407	1.31	10000	100.7	90	110	
Mn	55	2	He	100.107	1.029	572888	1.19	100	100.1	90	110	
Co	59	2	He	101.133	1.905	1178768	2.06	100	101.1	90	110	
Ni	60	2	He	100.759	1.364	297781	1.51	100	100.8	90	110	
Cu	63	2	He	99.043	1.045	803152	1.21	100	99.0	90	110	
Zn	66	2	He	101.555	1.255	153311	1.42	100	101.6	90	110	
Al	27	2	He	101.760	1.865	41478	1.94	100	101.8	90	110	
B	11	1	No Gas	485.807	1.780	815839	2.00	500	97.2	90	110	
Al	27	1	No Gas	102.005	2.252	1463196	2.53	100	102.0	90	110	
Si	28	1	No Gas	505.863	2.588	3713958	2.80	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.861	1.699	2397640	1.93	100	100.9	90	110	
Cd	111	1	No Gas	100.071	2.830	477102	3.05	100	100.1	90	110	
Sr	88	1	No Gas	100.727	2.627	4527820	2.86	100	100.7	90	110	
Mo	95	1	No Gas	98.403	1.584	877812	1.82	100	98.4	90	110	
Sn	118	1	No Gas	99.916	1.578	1621742	1.77	100	99.9	90	110	
Sb	121	1	No Gas	99.782	2.315	2226122	2.69	100	99.8	90	110	
Ba	137	1	No Gas	98.331	1.939	832049	2.09	100	98.3	90	110	
Tl	205	1	No Gas	98.251	1.598	5789690	2.50	100	98.3	90	110	
Tl	203	1	No Gas	98.710	1.709	2462309	2.49	100	98.7	90	110	
Pb	208	1	No Gas	98.565	1.409	8437473	2.28	100	98.6	90	110	
U	238	1	No Gas	98.267	0.985	9383860	1.83	100	98.3	90	110	
Ca	43	2	He	10175.430	2.008	24008	2.08	10000	101.8	90	110	
Sb	121	2	He	102.532	1.105	940432	1.22	100	102.5	90	110	
Ti	47	2	He	101.293	1.066	23597	1.21	100	101.3	90	110	
Cu	63	1	No Gas	102.927	2.251	1517735	2.56	100	102.9	90	110	
Se	82	1	No Gas	98.806	2.206	27358	2.71	100	98.8	90	110	
Zr	90	1	No Gas	90.769	2.058	2534002	2.29	100	90.8	90	110	
Zr	90	2	He	93.543	0.755	1019079	0.91	100	93.5	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	723586	0.30	789601	91.64	70	120	
Ge	72	2	He	849730	0.17	909952	93.38	70	120	
Ge	72	1	No Gas	2941968	0.54	3202767	91.86	70	120	
In	115	1	No Gas	4069552	0.25	4425209	91.96	70	120	
Bi	209	1	No Gas	4581100	0.95	4898592	93.52	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\062824A.b
Acq Date Time	2024-06-28T19:43:05-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	-0.052	-127.8	46246	1.6	0.5	
Be	9	1	No Gas	0.019	29.7	97	15.8	0.5	
V	51	2	He	-0.640	-0.2	2601	0.4	2.5	
Cr	52	2	He	-0.251	-7.7	6262	2.8	2.5	
Fe	56	2	He	0.986	2.7	20232	1.0	100	
Se	78	2	He	0.101	169.4	112	16.4	2	
As	75	2	He	-0.060	-43.1	248	12.2	2.5	
Ca	44	2	He	13.404	12.3	1057	6.8	100	
Na	23	2	He	-6.620	-7.4	74988	1.1	100	
Mg	24	2	He	0.655	38.4	2290	6.9	100	
K	39	2	He	-0.814	-225.8	89680	2.0	100	
Mn	55	2	He	0.128	8.6	1283	4.8	2.5	
Co	59	2	He	0.005	83.2	193	26.0	2.5	
Ni	60	2	He	0.209	16.3	867	12.2	2.5	
Cu	63	2	He	0.047	6.7	1020	2.6	2	
Zn	66	2	He	1.196	12.7	2637	8.7	2.5	
Al	27	2	He	-0.514	-56.3	743	16.2	5	
B	11	1	No Gas	3.781	23.1	14241	10.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.357	-8.7	28115	1.6	5	
Si	28	1	No Gas	12.825	2.1	264175	0.6	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.013	3.4	600	1.7	2.5	
Cd	111	1	No Gas	0.006	74.8	22	98.6	1	
Sr	88	1	No Gas	-0.006	-52.8	1643	8.5	2.5	
Mo	95	1	No Gas	0.057	41.1	643	32.7	2.5	
Sn	118	1	No Gas	-0.108	-24.9	5555	7.5	5	
Sb	121	1	No Gas	0.051	12.5	1723	8.1	2.5	
Ba	137	1	No Gas	-0.023	-18.7	400	10.0	2.5	
Tl	205	1	No Gas	0.057	49.6	4104	42.7	1	
Tl	203	1	No Gas	0.060	59.3	1814	50.8	1	
Pb	208	1	No Gas	0.010	9.0	3080	3.3	2.5	
U	238	1	No Gas	0.004	13.2	1760	2.0	2.5	
Ca	43	2	He	13.661	154.8	77	65.7	100	
Sb	121	2	He	0.048	26.8	707	17.6	2.5	
Ti	47	2	He	-0.009	-947.8	17	124.9	2.5	
Cu	63	1	No Gas	0.065	7.4	2254	3.2	2.5	
Se	82	1	No Gas	-0.363	-74.5	290	26.0	2	
Zr	90	1	No Gas	0.117	10.7	4397	7.4	2.5	
Zr	90	2	He	0.088	8.3	2440	2.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	760215	0.23	789601	96.28	70	120	
Ge	72	2	He	862039	0.47	909952	94.73	70	120	
Ge	72	1	No Gas	2999186	0.18	3202767	93.64	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4187817	0.80	4425209	94.64	70	120	
Bi	209	1	No Gas	4653983	1.00	4898592	95.01	70	120	

Sample Report

Sample Table

Sample Name	MBLK-214140
Data File Name	181SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:45:30-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	-0.097	-0.097	-20.17	45445	0.00	2000	
Be	9	1	No Gas	0.004	0.004	208.24	55	0.01	2000	
V	51	2	He	-0.610	-0.610	-1.43	2791	-0.02	2000	
Cr	52	2	He	-0.276	-0.276	-15.92	6051	0.00	2000	
Fe	56	2	He	0.724	0.724	5.49	18296	0.00	200000	
Se	78	2	He	0.123	0.123	83.79	114	0.11	2000	
As	75	2	He	-0.080	-0.080	-5.14	223	-0.04	2000	
Ca	44	2	He	7.467	7.467	31.60	813	0.92	200000	
Na	23	2	He	-13.173	-13.173	-9.39	67886	-0.02	200000	
Mg	24	2	He	-0.514	-0.514	-32.97	1530	-0.03	200000	
K	39	2	He	-3.958	-3.958	-26.55	86933	0.00	200000	
Mn	55	2	He	0.068	0.068	18.78	933	0.01	2000	
Co	59	2	He	0.005	0.005	50.59	187	0.00	2000	
Ni	60	2	He	0.304	0.304	4.51	1147	0.03	2000	
Cu	63	2	He	0.048	0.048	9.39	1020	0.00	2000	
Zn	66	2	He	1.406	1.406	4.73	2947	0.05	2000	
Al	27	2	He	-0.447	-0.447	-52.84	767	-0.06	2000	
B	11	1	No Gas	0.989	0.989	8.81	9285	0.01	2000	
Al	27	1	No Gas	-0.675	-0.675	-2.20	23710	0.00	2000	
Si	28	1	No Gas	-0.455	-0.455	-15.92	170273	0.00	2000	
Ag	107	1	No Gas	0.004	0.004	77.46	387	0.00	2000	
Cd	111	1	No Gas	0.001	0.001	407.62	-4	-0.01	2000	
Sr	88	1	No Gas	-0.020	-0.020	-21.97	997	0.00	2000	
Mo	95	1	No Gas	0.011	0.011	34.44	220	0.00	2000	
Sn	118	1	No Gas	-0.163	-0.163	-12.27	4651	0.00	2000	
Sb	121	1	No Gas	0.014	0.014	57.61	893	0.00	2000	
Ba	137	1	No Gas	-0.013	-0.013	-16.50	490	0.00	2000	
Tl	205	1	No Gas	0.007	0.007	15.21	1080	0.00	2000	
Tl	203	1	No Gas	0.008	0.008	57.34	497	0.00	2000	
Pb	208	1	No Gas	0.006	0.006	26.49	2687	0.00	2000	
U	238	1	No Gas	0.000	0.000	301.34	1440	0.00	2000	
Ca	43	2	He	5.333	5.333	120.66	57	9.41	200000	
Sb	121	2	He	0.014	0.014	16.29	383	0.00	2000	
Ti	47	2	He	-0.051	-0.051	-48.22	7	-0.77	2000	
Cu	63	1	No Gas	0.043	0.043	11.59	1927	0.00	2000	
Ca	44	1	No Gas	4.032	4.032	27.43	16073	0.03	200000	
Zn	66	1	No Gas	1.351	1.351	6.96	8113	0.02	2000	
Se	82	1	No Gas	-0.487	-0.487	-38.11	257	-0.19	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	754312	0.38	789601	95.53	70	120	
Ge	72	2	He	859261	1.49	909952	94.43	70	120	
Ge	72	1	No Gas	3016071	0.27	3202767	94.17	70	120	

Sample Report

In	115	1	No Gas	4197912	0.56	4425209	94.86	70	120	
Bi	209	1	No Gas	4637823	0.53	4898592	94.68	70	120	

Sample Report

Sample Table

Sample Name	LCS-214140
Data File Name	182SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:47:54-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	94.684	94.684	1.06	902583	0.01	2000	
Be	9	1	No Gas	46.556	46.556	1.07	119824	0.04	2000	
V	51	2	He	47.016	47.016	1.94	308886	0.02	2000	
Cr	52	2	He	47.446	47.446	1.76	358284	0.01	2000	
Fe	56	2	He	4866.067	4866.067	2.46	33999599	0.01	200000	
Se	78	2	He	48.195	48.195	1.95	5132	0.94	2000	
As	75	2	He	47.767	47.767	2.29	55999	0.09	2000	
Ca	44	2	He	4991.233	4991.233	1.30	199010	2.51	200000	
Na	23	2	He	4860.757	4860.757	1.05	5064122	0.10	200000	
Mg	24	2	He	4929.892	4929.892	1.61	3118622	0.16	200000	
K	39	2	He	4876.085	4876.085	1.64	3813502	0.13	200000	
Mn	55	2	He	48.269	48.269	2.10	274293	0.02	2000	
Co	59	2	He	47.582	47.582	1.82	550218	0.01	2000	
Ni	60	2	He	48.131	48.131	2.05	141227	0.03	2000	
Cu	63	2	He	47.903	47.903	2.68	385662	0.01	2000	
Zn	66	2	He	47.912	47.912	1.12	72173	0.07	2000	
Al	27	2	He	105.575	105.575	2.39	42655	0.25	2000	
B	11	1	No Gas	457.262	457.262	1.64	743611	0.06	2000	
Al	27	1	No Gas	101.429	101.429	1.69	1437073	0.01	2000	
Si	28	1	No Gas	546.733	546.733	1.27	3950733	0.01	2000	
Ag	107	1	No Gas	47.907	47.907	0.97	1128371	0.00	2000	
Cd	111	1	No Gas	46.925	46.925	0.96	221633	0.02	2000	
Sr	88	1	No Gas	71.097	71.097	1.85	3166528	0.00	2000	
Mo	95	1	No Gas	46.249	46.249	1.28	408777	0.01	2000	
Sn	118	1	No Gas	69.412	69.412	1.27	1118268	0.01	2000	
Sb	121	1	No Gas	46.350	46.350	0.12	1021527	0.00	2000	
Ba	137	1	No Gas	46.540	46.540	1.68	390431	0.01	2000	
Tl	205	1	No Gas	42.026	42.026	2.36	2450956	0.00	2000	
Tl	203	1	No Gas	41.835	41.835	1.43	1032843	0.00	2000	
Pb	208	1	No Gas	45.894	45.894	1.35	3888845	0.00	2000	
U	238	1	No Gas	179.525	179.525	1.44	16963938	0.00	2000	
Ca	43	2	He	4954.269	4954.269	5.85	11618	42.64	200000	
Sb	121	2	He	49.597	49.597	1.76	451392	0.01	2000	
Ti	47	2	He	122.923	122.923	2.12	28403	0.43	2000	
Cu	63	1	No Gas	48.183	48.183	1.72	702358	0.01	2000	
Ca	44	1	No Gas	4744.915	4744.915	1.73	2758575	0.17	200000	
Zn	66	1	No Gas	47.090	47.090	0.73	193424	0.02	2000	
Se	82	1	No Gas	44.653	44.653	3.32	12419	0.36	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	700363	0.85	789601	88.70	70	120	
Ge	72	2	He	842965	0.50	909952	92.64	70	120	
Ge	72	1	No Gas	2905628	0.69	3202767	90.72	70	120	

Sample Report

In	115	1	No Gas	4031877	0.70	4425209	91.11	70	120	
Bi	209	1	No Gas	4533675	0.29	4898592	92.55	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10SD
Data File Name	184SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:52:46-05:00
Sample Type	Sample
Dilution	5
Comment	TW B 214140
ISTD Ref FileName	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.725	23.625	1.68	90512	0.01	2000	
Be	9	1	No Gas	0.016	0.079	27.77	87	0.02	2000	
V	51	2	He	-0.665	-3.327	-2.30	2396	-0.03	2000	
Cr	52	2	He	-0.172	-0.860	-19.14	6742	0.00	2000	
Fe	56	2	He	6357.288	31786.439	0.53	44664901	0.01	200000	
Se	78	2	He	0.043	0.216	520.97	104	0.04	2000	
As	75	2	He	0.082	0.412	32.22	411	0.02	2000	
Ca	44	2	He	4634.903	23174.515	0.95	185879	2.49	200000	
Na	23	2	He	27544.842	137724.210	1.10	28482210	0.10	200000	
Mg	24	2	He	1591.755	7958.777	0.43	1013846	0.16	200000	
K	39	2	He	502.679	2513.394	1.68	474982	0.11	200000	
Mn	55	2	He	100.165	500.826	0.72	571825	0.02	2000	
Co	59	2	He	0.266	1.330	6.17	3224	0.01	2000	
Ni	60	2	He	0.425	2.124	11.98	1487	0.03	2000	
Cu	63	2	He	0.139	0.696	9.73	1747	0.01	2000	
Zn	66	2	He	2.830	14.152	4.23	5041	0.06	2000	
Al	27	2	He	1.697	8.484	36.29	1610	0.11	2000	
B	11	1	No Gas	8.453	42.263	4.92	21737	0.04	2000	
Al	27	1	No Gas	2.547	12.737	31.34	68179	0.00	2000	
Si	28	1	No Gas	2680.301	13401.506	1.86	18911332	0.01	2000	>LDR
Ag	107	1	No Gas	0.003	0.015	94.18	353	0.00	2000	
Cd	111	1	No Gas	0.021	0.103	15.95	92	0.02	2000	
Sr	88	1	No Gas	65.409	327.045	2.60	2968936	0.00	2000	
Mo	95	1	No Gas	0.021	0.105	48.60	307	0.01	2000	
Sn	118	1	No Gas	-0.214	-1.072	-3.93	3707	-0.01	2000	
Sb	121	1	No Gas	0.020	0.099	15.59	1003	0.00	2000	
Ba	137	1	No Gas	124.160	620.798	1.84	1060484	0.01	2000	
Tl	205	1	No Gas	0.006	0.029	26.10	997	0.00	2000	
Tl	203	1	No Gas	0.006	0.032	37.90	447	0.00	2000	
Pb	208	1	No Gas	0.032	0.160	2.46	4940	0.00	2000	
U	238	1	No Gas	0.001	0.007	125.79	1523	0.00	2000	
Ca	43	2	He	4645.041	23225.204	5.30	10954	42.40	200000	
Sb	121	2	He	0.026	0.132	33.45	493	0.01	2000	
Ti	47	2	He	0.121	0.607	89.04	47	0.26	2000	
Cu	63	1	No Gas	0.443	2.217	4.49	7762	0.01	2000	
Ca	44	1	No Gas	4544.293	22721.463	1.78	2670104	0.17	200000	
Zn	66	1	No Gas	2.958	14.790	3.64	14485	0.02	2000	
Se	82	1	No Gas	-0.413	-2.063	-40.08	270	-0.15	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	737396	0.94	789601	93.39	70	120	
Ge	72	2	He	847699	0.64	909952	93.16	70	120	
Ge	72	1	No Gas	2935772	0.63	3202767	91.66	70	120	

Sample Report

In	115	1	No Gas	4108370	0.28	4425209	92.84	70	120	
Bi	209	1	No Gas	4611680	0.24	4898592	94.14	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10MS
Data File Name	185SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:55:10-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	102.485	102.485	1.03	997763	0.01	2000	
Be	9	1	No Gas	41.848	41.848	1.66	110405	0.04	2000	
V	51	2	He	44.500	44.500	3.90	288238	0.02	2000	
Cr	52	2	He	44.540	44.540	3.60	331672	0.01	2000	
Fe	56	2	He	34786.744	34786.744	4.02	239258583	0.01	200000	
Se	78	2	He	45.538	45.538	4.20	4780	0.95	2000	
As	75	2	He	46.479	46.479	2.82	53668	0.09	2000	
Ca	44	2	He	27420.801	27420.801	3.94	1074366	2.55	200000	
Na	23	2	He	136234.780	136234.780	3.58	137630455	0.10	200000	
Mg	24	2	He	12182.384	12182.384	3.69	7585638	0.16	200000	
K	39	2	He	7073.539	7073.539	2.98	5408488	0.13	200000	
Mn	55	2	He	527.010	527.010	3.89	2943760	0.02	2000	
Co	59	2	He	45.181	45.181	3.95	514480	0.01	2000	
Ni	60	2	He	46.090	46.090	2.95	133202	0.03	2000	
Cu	63	2	He	46.536	46.536	3.24	368973	0.01	2000	
Zn	66	2	He	57.819	57.819	2.99	85609	0.07	2000	
Al	27	2	He	104.693	104.693	3.30	41659	0.25	2000	
B	11	1	No Gas	447.556	447.556	0.90	746265	0.06	2000	
Al	27	1	No Gas	103.583	103.583	1.32	1430609	0.01	2000	
Si	28	1	No Gas	13162.106	13162.106	1.65	88995212	0.01	2000	>LDR
Ag	107	1	No Gas	44.961	44.961	0.56	1027115	0.00	2000	
Cd	111	1	No Gas	45.570	45.570	1.17	208747	0.02	2000	
Sr	88	1	No Gas	383.658	383.658	1.26	16565128	0.00	2000	
Mo	95	1	No Gas	45.609	45.609	0.65	390994	0.01	2000	
Sn	118	1	No Gas	62.539	62.539	1.77	977871	0.01	2000	
Sb	121	1	No Gas	44.726	44.726	0.33	961352	0.00	2000	
Ba	137	1	No Gas	668.400	668.400	1.32	5431112	0.01	2000	
Tl	205	1	No Gas	40.210	40.210	1.31	2220546	0.00	2000	
Tl	203	1	No Gas	40.031	40.031	0.90	935833	0.00	2000	
Pb	208	1	No Gas	44.929	44.929	0.25	3604862	0.00	2000	
U	238	1	No Gas	175.525	175.525	0.88	15704996	0.00	2000	
Ca	43	2	He	27511.700	27511.700	4.06	63331	43.44	200000	
Sb	121	2	He	46.750	46.750	4.17	418971	0.01	2000	
Ti	47	2	He	114.474	114.474	2.35	26051	0.44	2000	
Cu	63	1	No Gas	49.066	49.066	0.76	697485	0.01	2000	
Ca	44	1	No Gas	26678.820	26678.820	1.12	15067230	0.18	200000	
Zn	66	1	No Gas	57.581	57.581	0.80	230147	0.03	2000	
Se	82	1	No Gas	45.576	45.576	3.06	12352	0.37	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	717945	0.63	789601	90.93	70	120	
Ge	72	2	He	830327	1.63	909952	91.25	70	120	
Ge	72	1	No Gas	2833700	0.23	3202767	88.48	70	120	
In	115	1	No Gas	3910438	0.51	4425209	88.37	70	120	
Bi	209	1	No Gas	4292816	0.25	4898592	87.63	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10MSD
Data File Name	186SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T19:57:39-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	104.922	104.922	1.39	1016053	0.01	2000	
Be	9	1	No Gas	42.833	42.833	1.61	112519	0.04	2000	
V	51	2	He	45.845	45.845	2.23	291556	0.02	2000	
Cr	52	2	He	46.509	46.509	2.46	339935	0.01	2000	
Fe	56	2	He	35894.139	35894.139	2.69	242559503	0.01	200000	
Se	78	2	He	47.138	47.138	1.32	4858	0.97	2000	
As	75	2	He	47.323	47.323	1.60	53675	0.09	2000	
Ca	44	2	He	28261.438	28261.438	2.26	1087906	2.60	200000	
Na	23	2	He	141910.805	141910.805	1.81	140849638	0.10	200000	
Mg	24	2	He	12661.257	12661.257	1.89	7746148	0.16	200000	
K	39	2	He	7325.417	7325.417	1.87	5499652	0.13	200000	
Mn	55	2	He	543.432	543.432	2.75	2982397	0.02	2000	
Co	59	2	He	47.005	47.005	1.73	525876	0.01	2000	
Ni	60	2	He	48.184	48.184	1.92	136790	0.04	2000	
Cu	63	2	He	48.685	48.685	2.71	379216	0.01	2000	
Zn	66	2	He	58.955	58.955	2.30	85740	0.07	2000	
Al	27	2	He	109.601	109.601	3.84	42805	0.26	2000	
B	11	1	No Gas	458.181	458.181	1.24	760524	0.06	2000	
Al	27	1	No Gas	105.132	105.132	2.42	1460206	0.01	2000	
Si	28	1	No Gas	13254.590	13254.590	1.70	90152779	0.01	2000	>LDR
Ag	107	1	No Gas	44.931	44.931	2.03	1032382	0.00	2000	
Cd	111	1	No Gas	45.968	45.968	1.56	211796	0.02	2000	
Sr	88	1	No Gas	385.323	385.323	1.00	16733953	0.00	2000	
Mo	95	1	No Gas	45.509	45.509	1.41	392394	0.01	2000	
Sn	118	1	No Gas	63.310	63.310	0.94	995635	0.01	2000	
Sb	121	1	No Gas	45.324	45.324	0.96	980047	0.00	2000	
Ba	137	1	No Gas	667.203	667.203	0.88	5452990	0.01	2000	
Tl	205	1	No Gas	40.490	40.490	1.39	2254732	0.00	2000	
Tl	203	1	No Gas	40.557	40.557	0.48	956068	0.00	2000	
Pb	208	1	No Gas	44.905	44.905	0.57	3633365	0.00	2000	
U	238	1	No Gas	177.894	177.894	0.26	16050785	0.00	2000	
Ca	43	2	He	28445.681	28445.681	2.58	64335	44.21	200000	
Sb	121	2	He	48.333	48.333	2.04	425591	0.01	2000	
Ti	47	2	He	119.839	119.839	1.15	26790	0.45	2000	
Cu	63	1	No Gas	50.098	50.098	0.93	716415	0.01	2000	
Ca	44	1	No Gas	26843.283	26843.283	2.02	15250217	0.18	200000	
Zn	66	1	No Gas	57.743	57.743	1.61	232167	0.02	2000	
Se	82	1	No Gas	46.199	46.199	5.57	12589	0.37	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	714854	0.43	789601	90.53	70	120	
Ge	72	2	He	815511	0.49	909952	89.62	70	120	
Ge	72	1	No Gas	2850808	0.65	3202767	89.01	70	120	
In	115	1	No Gas	3933128	0.43	4425209	88.88	70	120	
Bi	209	1	No Gas	4328907	0.81	4898592	88.37	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10PDS
Data File Name	187SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:00:07-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	20.497	20.497	0.85	235793	0.01	2000	
Be	9	1	No Gas	84.278	84.278	1.60	223177	0.04	2000	
V	51	2	He	90.369	90.369	3.60	578251	0.02	2000	
Cr	52	2	He	89.899	89.899	3.31	661058	0.01	2000	
Fe	56	2	He	39560.668	39560.668	2.74	271939576	0.01	200000	
Se	78	2	He	92.381	92.381	1.76	9592	0.96	2000	
As	75	2	He	93.005	93.005	1.87	107005	0.09	2000	
Ca	44	2	He	31699.759	31699.759	3.14	1241211	2.55	200000	
Na	23	2	He	141888.757	141888.757	2.32	143250611	0.10	200000	
Mg	24	2	He	16898.671	16898.671	2.20	10516209	0.16	200000	
K	39	2	He	11801.979	11801.979	2.41	8960067	0.13	200000	
Mn	55	2	He	577.106	577.106	2.80	3221709	0.02	2000	
Co	59	2	He	91.916	91.916	2.76	1045882	0.01	2000	
Ni	60	2	He	92.262	92.262	2.57	266213	0.03	2000	
Cu	63	2	He	89.523	89.523	2.41	708799	0.01	2000	
Zn	66	2	He	101.750	101.750	2.41	149953	0.07	2000	
Al	27	2	He	102.888	102.888	2.90	40933	0.25	2000	
B	11	1	No Gas	38.848	38.848	2.31	71633	0.05	2000	
Al	27	1	No Gas	99.557	99.557	1.55	1394559	0.01	2000	
Si	28	1	No Gas	12632.915	12632.915	0.82	86556382	0.01	2000	>LDR
Ag	107	1	No Gas	92.551	92.551	0.57	2129809	0.00	2000	
Cd	111	1	No Gas	90.344	90.344	1.25	416959	0.02	2000	
Sr	88	1	No Gas	314.537	314.537	0.47	13682898	0.00	2000	
Mo	95	1	No Gas	89.972	89.972	0.89	776949	0.01	2000	
Sn	118	1	No Gas	0.022	0.022	34.70	7259	0.00	2000	
Sb	121	1	No Gas	87.380	87.380	0.31	1902496	0.00	2000	
Ba	137	1	No Gas	701.716	701.716	0.76	5744485	0.01	2000	
Tl	205	1	No Gas	92.362	92.362	1.08	5129769	0.00	2000	
Tl	203	1	No Gas	92.011	92.011	0.64	2163366	0.00	2000	
Pb	208	1	No Gas	89.669	89.669	0.79	7234906	0.00	2000	
U	238	1	No Gas	0.047	0.047	5.49	5578	0.00	2000	
Ca	43	2	He	31353.453	31353.453	3.75	72130	43.47	200000	
Sb	121	2	He	91.800	91.800	2.68	821977	0.01	2000	
Ti	47	2	He	95.484	95.484	4.32	21714	0.44	2000	
Cu	63	1	No Gas	91.493	91.493	0.26	1316761	0.01	2000	
Ca	44	1	No Gas	30414.960	30414.960	0.31	17403071	0.17	200000	
Zn	66	1	No Gas	100.688	100.688	0.43	406058	0.02	2000	
Se	82	1	No Gas	88.005	88.005	2.91	23825	0.37	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	720719	0.15	789601	91.28	70	120	
Ge	72	2	He	829608	0.90	909952	91.17	70	120	
Ge	72	1	No Gas	2871226	0.90	3202767	89.65	70	120	
In	115	1	No Gas	3939670	0.72	4425209	89.03	70	120	
Bi	209	1	No Gas	4318216	0.54	4898592	88.15	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	189_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:04:59-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.299	1.873	961472	2.23	100	97.3	90	110	
Be	9	1	No Gas	98.121	1.322	262071	1.70	100	98.1	90	110	
V	51	2	He	101.863	0.835	668474	0.96	100	101.9	90	110	
Cr	52	2	He	100.485	1.349	757850	1.47	100	100.5	90	110	
Fe	56	2	He	10036.940	1.467	70860492	1.57	10000	100.4	90	110	
Se	78	2	He	102.148	1.725	10880	1.83	100	102.1	90	110	
As	75	2	He	102.172	1.387	120689	1.52	100	102.2	90	110	
Ca	44	2	He	10145.376	0.779	408276	0.89	10000	101.5	90	110	
Na	23	2	He	9990.018	0.590	10432821	0.63	10000	99.9	90	110	
Mg	24	2	He	10075.223	0.656	6439209	0.73	10000	100.8	90	110	
K	39	2	He	10050.889	0.709	7849283	0.77	10000	100.5	90	110	
Mn	55	2	He	101.094	1.605	579998	1.72	100	101.1	90	110	
Co	59	2	He	102.543	1.014	1198210	1.11	100	102.5	90	110	
Ni	60	2	He	102.756	1.445	304449	1.57	100	102.8	90	110	
Cu	63	2	He	100.233	1.591	814850	1.65	100	100.2	90	110	
Zn	66	2	He	101.653	1.338	153847	1.47	100	101.7	90	110	
Al	27	2	He	100.291	1.792	40996	1.83	100	100.3	90	110	
B	11	1	No Gas	472.275	1.191	796974	1.54	500	94.5	90	110	
Al	27	1	No Gas	100.410	2.136	1446667	1.64	100	100.4	90	110	
Si	28	1	No Gas	500.870	2.628	3693801	2.08	5000	10.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.082	2.082	2429874	2.31	100	102.1	90	110	
Cd	111	1	No Gas	102.094	2.192	487389	2.48	100	102.1	90	110	
Sr	88	1	No Gas	101.283	1.954	4558660	2.09	100	101.3	90	110	
Mo	95	1	No Gas	99.794	1.749	891382	1.95	100	99.8	90	110	
Sn	118	1	No Gas	101.942	2.073	1656673	2.29	100	101.9	90	110	
Sb	121	1	No Gas	100.753	2.623	2256803	2.17	100	100.8	90	110	
Ba	137	1	No Gas	99.787	1.883	845469	1.98	100	99.8	90	110	
Tl	205	1	No Gas	100.082	2.148	5862908	2.12	100	100.1	90	110	
Tl	203	1	No Gas	100.873	2.441	2501508	2.41	100	100.9	90	110	
Pb	208	1	No Gas	101.025	2.048	8597270	2.00	100	101.0	90	110	
U	238	1	No Gas	100.881	1.755	9577193	1.69	100	100.9	90	110	
Ca	43	2	He	10094.623	0.565	23877	0.45	10000	100.9	90	110	
Sb	121	2	He	103.949	0.238	955837	0.30	100	103.9	90	110	
Ti	47	2	He	102.854	3.289	24021	3.30	100	102.9	90	110	
Cu	63	1	No Gas	102.504	2.491	1517615	2.06	100	102.5	90	110	
Se	82	1	No Gas	98.706	4.181	27438	3.64	100	98.7	90	110	
Zr	90	1	No Gas	90.730	1.554	2536140	1.49	100	90.7	90	110	
Zr	90	2	He	93.838	1.029	1024879	1.16	100	93.8	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	726926	0.61	789601	92.06	70	120	
Ge	72	2	He	851887	0.14	909952	93.62	70	120	
Ge	72	1	No Gas	2954179	0.50	3202767	92.24	70	120	
In	115	1	No Gas	4074934	0.59	4425209	92.08	70	120	
Bi	209	1	No Gas	4554611	0.12	4898592	92.98	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	190_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:07:23-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	0.352	6.4	49531	0.6	0.5	
Be	9	1	No Gas	0.022	46.5	105	26.5	0.5	
V	51	2	He	-0.681	-0.8	2351	2.0	2.5	
Cr	52	2	He	-0.280	-10.9	6088	3.9	2.5	
Fe	56	2	He	1.345	9.1	22976	3.6	100	
Se	78	2	He	0.230	74.6	127	14.2	2	
As	75	2	He	-0.034	-65.5	281	10.2	2.5	
Ca	44	2	He	15.412	22.3	1147	11.8	100	
Na	23	2	He	25.117	8.1	109113	1.4	100	
Mg	24	2	He	0.751	39.4	2370	7.7	100	
K	39	2	He	-3.695	-39.7	88117	1.4	100	
Mn	55	2	He	0.118	14.9	1237	8.6	2.5	
Co	59	2	He	0.006	92.1	210	33.3	2.5	
Ni	60	2	He	0.204	8.7	857	5.8	2.5	
Cu	63	2	He	0.070	18.1	1213	8.3	2	
Zn	66	2	He	1.217	1.3	2690	1.5	2.5	
Al	27	2	He	-0.102	-275.9	917	12.6	5	
B	11	1	No Gas	3.724	11.3	13945	5.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.033	-529.4	33176	7.6	5	
Si	28	1	No Gas	13.998	0.8	276044	0.3	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.006	39.7	437	13.0	2.5	
Cd	111	1	No Gas	0.001	216.1	-4	-143.8	1	
Sr	88	1	No Gas	-0.010	-14.9	1500	4.7	2.5	
Mo	95	1	No Gas	0.069	22.1	763	18.6	2.5	
Sn	118	1	No Gas	-0.098	-17.1	5805	4.7	5	
Sb	121	1	No Gas	0.053	13.3	1800	9.3	2.5	
Ba	137	1	No Gas	-0.022	-51.2	410	24.8	2.5	
Tl	205	1	No Gas	0.058	56.9	4188	47.9	1	
Tl	203	1	No Gas	0.058	52.3	1797	43.6	1	
Pb	208	1	No Gas	0.009	12.4	3094	3.2	2.5	
U	238	1	No Gas	0.004	70.1	1834	15.1	2.5	
Ca	43	2	He	3.681	68.7	53	10.8	100	
Sb	121	2	He	0.051	8.6	737	5.7	2.5	
Ti	47	2	He	-0.024	-101.3	13	43.3	2.5	
Cu	63	1	No Gas	0.080	10.1	2500	4.8	2.5	
Se	82	1	No Gas	-0.351	-62.6	297	20.3	2	
Zr	90	1	No Gas	0.116	26.9	4441	20.4	2.5	
Zr	90	2	He	0.080	15.3	2364	5.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	749747	0.42	789601	94.95	70	120	
Ge	72	2	He	868857	0.60	909952	95.48	70	120	
Ge	72	1	No Gas	3037592	0.56	3202767	94.84	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4252361	0.15	4425209	96.09	70	120	
Bi	209	1	No Gas	4756931	0.27	4898592	97.11	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	196_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:22:09-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.762	1.538	1026767	2.14	100	97.8	90	110	
Be	9	1	No Gas	96.896	1.759	275136	2.40	100	96.9	90	110	
V	51	2	He	102.153	1.119	671588	1.27	100	102.2	90	110	
Cr	52	2	He	101.730	0.403	768537	0.68	100	101.7	90	110	
Fe	56	2	He	10251.800	1.213	72510206	1.49	10000	102.5	90	110	
Se	78	2	He	104.535	0.715	11153	1.00	100	104.5	90	110	
As	75	2	He	103.704	1.700	122715	1.71	100	103.7	90	110	
Ca	44	2	He	10378.361	1.442	418410	1.67	10000	103.8	90	110	
Na	23	2	He	10237.128	1.388	10708650	1.64	10000	102.4	90	110	
Mg	24	2	He	10202.055	1.342	6532318	1.64	10000	102.0	90	110	
K	39	2	He	10309.927	1.133	8064044	1.28	10000	103.1	90	110	
Mn	55	2	He	102.624	1.734	589842	1.85	100	102.6	90	110	
Co	59	2	He	104.175	1.049	1219529	1.33	100	104.2	90	110	
Ni	60	2	He	104.333	1.614	309676	1.59	100	104.3	90	110	
Cu	63	2	He	101.801	1.931	829090	1.86	100	101.8	90	110	
Zn	66	2	He	102.566	1.648	155507	1.84	100	102.6	90	110	
Al	27	2	He	102.671	1.064	42023	1.06	100	102.7	90	110	
B	11	1	No Gas	464.428	1.198	833307	1.73	500	92.9	90	110	
Al	27	1	No Gas	102.834	2.142	1522911	2.74	100	102.8	90	110	
Si	28	1	No Gas	514.714	2.049	3898902	2.38	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.306	1.773	2500283	2.23	100	103.3	90	110	
Cd	111	1	No Gas	102.233	1.320	496266	2.26	100	102.2	90	110	
Sr	88	1	No Gas	103.732	1.896	4747094	2.03	100	103.7	90	110	
Mo	95	1	No Gas	100.413	1.317	912004	2.06	100	100.4	90	110	
Sn	118	1	No Gas	102.792	1.169	1698494	1.86	100	102.8	90	110	
Sb	121	1	No Gas	100.345	2.149	2311357	2.02	100	100.3	90	110	
Ba	137	1	No Gas	100.222	0.937	863414	1.54	100	100.2	90	110	
Tl	205	1	No Gas	101.030	1.365	5988579	2.05	100	101.0	90	110	
Tl	203	1	No Gas	100.950	1.237	2533100	2.01	100	101.0	90	110	
Pb	208	1	No Gas	102.134	1.194	8794567	1.90	100	102.1	90	110	
U	238	1	No Gas	101.859	0.821	9784507	1.65	100	101.9	90	110	
Ca	43	2	He	10049.615	1.270	23814	0.93	10000	100.5	90	110	
Sb	121	2	He	104.758	1.497	965061	1.79	100	104.8	90	110	
Ti	47	2	He	106.219	1.892	24853	2.25	100	106.2	90	110	
Cu	63	1	No Gas	104.771	1.196	1595180	1.60	100	104.8	90	110	
Se	82	1	No Gas	101.675	1.602	29055	1.68	100	101.7	90	110	
Zr	90	1	No Gas	92.826	1.716	2638198	1.62	100	92.8	90	110	
Zr	90	2	He	95.782	1.612	1047994	1.74	100	95.8	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	772787	0.94	789601	97.87	70	120	
Ge	72	2	He	853445	0.36	909952	93.79	70	120	
Ge	72	1	No Gas	3037785	0.97	3202767	94.85	70	120	
In	115	1	No Gas	4143379	1.12	4425209	93.63	70	120	
Bi	209	1	No Gas	4608329	0.96	4898592	94.07	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	197_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:24:33-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	0.473	8.9	52675	0.9	0.5	
Be	9	1	No Gas	0.015	47.7	88	22.9	0.5	
V	51	2	He	-0.722	-1.3	2120	3.0	2.5	
Cr	52	2	He	-0.249	-8.4	6442	2.8	2.5	
Fe	56	2	He	1.349	1.9	23427	0.5	100	
Se	78	2	He	0.129	2.4	118	0.0	2	
As	75	2	He	-0.073	-32.7	239	12.5	2.5	
Ca	44	2	He	15.372	24.7	1167	13.6	100	
Na	23	2	He	98.677	2.1	190332	1.3	100	
Mg	24	2	He	0.392	76.9	2177	9.5	100	
K	39	2	He	-1.877	-91.3	91213	1.8	100	
Mn	55	2	He	0.124	19.2	1297	11.0	2.5	
Co	59	2	He	0.002	230.4	157	30.2	2.5	
Ni	60	2	He	0.247	6.5	1007	4.7	2.5	
Cu	63	2	He	0.066	11.3	1207	5.3	2	
Zn	66	2	He	1.328	5.5	2914	3.7	2.5	
Al	27	2	He	-0.191	-91.0	897	7.8	5	
B	11	1	No Gas	3.047	20.2	13270	8.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.113	-26.1	32411	0.9	5	
Si	28	1	No Gas	14.180	4.0	280810	1.2	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.005	76.9	403	21.4	2.5	
Cd	111	1	No Gas	0.003	63.2	9	112.0	1	
Sr	88	1	No Gas	-0.005	-86.2	1743	10.6	2.5	
Mo	95	1	No Gas	0.053	19.4	610	15.6	2.5	
Sn	118	1	No Gas	-0.039	-297.3	6753	28.8	5	
Sb	121	1	No Gas	0.048	10.2	1700	6.1	2.5	
Ba	137	1	No Gas	-0.026	-35.9	377	21.5	2.5	
Tl	205	1	No Gas	0.057	51.5	4101	43.6	1	
Tl	203	1	No Gas	0.052	52.2	1640	43.3	1	
Pb	208	1	No Gas	0.006	43.0	2754	8.5	2.5	
U	238	1	No Gas	0.005	12.6	1927	3.5	2.5	
Ca	43	2	He	12.778	17.8	77	7.5	100	
Sb	121	2	He	0.040	22.8	643	13.2	2.5	
Ti	47	2	He	-0.052	-91.9	7	173.2	2.5	
Cu	63	1	No Gas	0.101	9.0	2854	4.7	2.5	
Se	82	1	No Gas	-0.331	-83.4	307	26.2	2	
Zr	90	1	No Gas	0.122	17.7	4604	13.6	2.5	
Zr	90	2	He	0.083	7.7	2447	3.1	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	778787	0.21	789601	98.63	70	120	
Ge	72	2	He	884979	0.29	909952	97.26	70	120	
Ge	72	1	No Gas	3075472	0.53	3202767	96.03	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4227739	0.23	4425209	95.54	70	120	
Bi	209	1	No Gas	4711105	0.42	4898592	96.17	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	204_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:41:38-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.994	1.883	934360	2.02	100	98.0	90	110	
Be	9	1	No Gas	96.763	1.766	249463	2.02	100	96.8	90	110	
V	51	2	He	101.731	0.884	618315	1.80	100	101.7	90	110	
Cr	52	2	He	101.874	0.964	711442	1.36	100	101.9	90	110	
Fe	56	2	He	10263.082	0.812	67104976	1.68	10000	102.6	90	110	
Se	78	2	He	102.090	1.410	10070	0.54	100	102.1	90	110	
As	75	2	He	103.477	1.306	113206	2.49	100	103.5	90	110	
Ca	44	2	He	10240.366	0.940	381676	2.11	10000	102.4	90	110	
Na	23	2	He	10162.204	0.979	9828069	2.16	10000	101.6	90	110	
Mg	24	2	He	10185.584	1.503	6029457	2.64	10000	101.9	90	110	
K	39	2	He	10179.012	1.181	7361684	2.36	10000	101.8	90	110	
Mn	55	2	He	102.276	0.469	543423	1.35	100	102.3	90	110	
Co	59	2	He	104.325	1.015	1129052	2.11	100	104.3	90	110	
Ni	60	2	He	104.598	0.905	287021	2.01	100	104.6	90	110	
Cu	63	2	He	101.666	0.441	765447	1.50	100	101.7	90	110	
Zn	66	2	He	103.144	1.696	144566	2.34	100	103.1	90	110	
Al	27	2	He	103.742	3.795	39255	4.89	100	103.7	90	110	
B	11	1	No Gas	462.158	0.858	752946	1.14	500	92.4	90	110	
Al	27	1	No Gas	101.250	1.703	1372403	1.89	100	101.2	90	110	
Si	28	1	No Gas	503.060	1.935	3490258	1.93	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.529	2.199	2292294	2.67	100	102.5	90	110	
Cd	111	1	No Gas	101.121	2.484	453422	2.92	100	101.1	90	110	
Sr	88	1	No Gas	101.691	2.007	4299076	2.48	100	101.7	90	110	
Mo	95	1	No Gas	99.579	1.575	835434	2.04	100	99.6	90	110	
Sn	118	1	No Gas	101.634	0.815	1551296	1.27	100	101.6	90	110	
Sb	121	1	No Gas	101.110	1.412	2131135	1.53	100	101.1	90	110	
Ba	137	1	No Gas	100.333	0.820	798439	1.28	100	100.3	90	110	
Tl	205	1	No Gas	101.550	1.637	5663647	2.50	100	101.5	90	110	
Tl	203	1	No Gas	101.433	1.231	2394724	2.10	100	101.4	90	110	
Pb	208	1	No Gas	101.671	1.507	8237406	2.42	100	101.7	90	110	
U	238	1	No Gas	101.520	0.409	9175135	1.25	100	101.5	90	110	
Ca	43	2	He	10139.990	1.420	22215	2.51	10000	101.4	90	110	
Sb	121	2	He	107.489	0.642	915388	1.62	100	107.5	90	110	
Ti	47	2	He	105.136	1.526	22742	2.73	100	105.1	90	110	
Cu	63	1	No Gas	103.523	1.260	1442226	1.53	100	103.5	90	110	
Se	82	1	No Gas	101.142	2.138	26446	1.46	100	101.1	90	110	
Zr	90	1	No Gas	91.657	1.572	2406478	2.04	100	91.7	90	110	
Zr	90	2	He	96.211	1.899	973278	3.11	100	96.2	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	701664	0.30	789601	88.86	70	120	
Ge	72	2	He	788954	1.20	909952	86.70	70	120	
Ge	72	1	No Gas	2779620	0.79	3202767	86.79	70	120	
In	115	1	No Gas	3827276	0.47	4425209	86.49	70	120	
Bi	209	1	No Gas	4335807	0.92	4898592	88.51	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	205_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:44:02-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	0.436	11.9	47892	0.7	0.5	
Be	9	1	No Gas	0.016	37.5	83	18.3	0.5	
V	51	2	He	-0.724	-1.8	1915	4.2	2.5	
Cr	52	2	He	-0.273	-14.6	5685	5.1	2.5	
Fe	56	2	He	1.463	5.4	22045	2.4	100	
Se	78	2	He	0.244	54.3	119	11.2	2	
As	75	2	He	-0.044	-77.2	249	15.4	2.5	
Ca	44	2	He	15.284	3.5	1057	2.0	100	
Na	23	2	He	80.952	2.7	155582	1.3	100	
Mg	24	2	He	-0.068	-66.7	1700	1.6	100	
K	39	2	He	-4.405	-32.6	81024	1.4	100	
Mn	55	2	He	0.120	7.9	1153	4.4	2.5	
Co	59	2	He	0.005	35.1	183	11.4	2.5	
Ni	60	2	He	0.218	11.8	833	8.5	2.5	
Cu	63	2	He	0.067	16.2	1103	7.5	2	
Zn	66	2	He	1.129	13.5	2364	9.1	2.5	
Al	27	2	He	-0.168	-74.3	823	5.6	5	
B	11	1	No Gas	2.567	22.2	11365	7.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.049	102.7	31834	2.6	5	
Si	28	1	No Gas	14.455	1.4	258799	0.5	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.002	142.3	303	16.3	2.5	
Cd	111	1	No Gas	0.001	182.1	-1	-1065.1	1	
Sr	88	1	No Gas	-0.011	-26.1	1350	8.0	2.5	
Mo	95	1	No Gas	0.062	41.1	643	33.2	2.5	
Sn	118	1	No Gas	-0.104	-17.4	5245	4.6	5	
Sb	121	1	No Gas	0.045	18.9	1497	11.8	2.5	
Ba	137	1	No Gas	-0.027	-25.1	343	16.6	2.5	
Tl	205	1	No Gas	0.060	49.4	4041	41.4	1	
Tl	203	1	No Gas	0.052	48.9	1533	39.7	1	
Pb	208	1	No Gas	0.007	18.2	2647	3.4	2.5	
U	238	1	No Gas	0.003	61.6	1640	11.0	2.5	
Ca	43	2	He	2.478	582.8	47	68.9	100	
Sb	121	2	He	0.033	23.3	523	12.7	2.5	
Ti	47	2	He	-0.064	-40.6	3	173.2	2.5	
Cu	63	1	No Gas	0.081	15.0	2330	7.6	2.5	
Se	82	1	No Gas	-0.294	-146.2	290	38.9	2	
Zr	90	1	No Gas	0.111	35.4	3947	26.0	2.5	
Zr	90	2	He	0.078	14.9	2167	5.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	713245	0.45	789601	90.33	70	120	
Ge	72	2	He	804010	0.14	909952	88.36	70	120	
Ge	72	1	No Gas	2814154	0.62	3202767	87.87	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	3909399	0.84	4425209	88.34	70	120	
Bi	209	1	No Gas	4425490	0.40	4898592	90.34	70	120	

Sample Report

Sample Table

Sample Name	HS24061218-02
Data File Name	206SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:46:27-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	54.874	54.874	0.96	510901	0.01	2000	
Be	9	1	No Gas	0.512	0.512	4.40	1282	0.04	2000	
V	51	2	He	0.019	0.019	153.22	6279	0.00	2000	
Cr	52	2	He	44.172	44.172	1.40	309311	0.01	2000	
Fe	56	2	He	107601.219	107601.219	0.81	695730923	0.02	200000	
Se	78	2	He	0.224	0.224	81.54	113	0.20	2000	
As	75	2	He	5.993	5.993	0.83	6757	0.09	2000	
Ca	44	2	He	57319.305	57319.305	1.81	2110814	2.72	200000	
Na	23	2	He	150110.907	150110.907	0.92	142554951	0.11	200000	
Mg	24	2	He	34928.722	34928.722	1.52	20444732	0.17	200000	
K	39	2	He	3381.666	3381.666	0.73	2473333	0.14	200000	
Mn	55	2	He	2068.397	2068.397	0.95	10860269	0.02	2000	>LDR
Co	59	2	He	0.820	0.820	4.63	8893	0.01	2000	
Ni	60	2	He	17.214	17.214	1.41	46900	0.04	2000	
Cu	63	2	He	2.539	2.539	3.78	19464	0.01	2000	
Zn	66	2	He	10.634	10.634	3.55	15402	0.07	2000	
Al	27	2	He	19.921	19.921	4.55	8149	0.24	2000	
B	11	1	No Gas	27.607	27.607	2.77	48614	0.06	2000	
Al	27	1	No Gas	18.626	18.626	6.65	264031	0.01	2000	
Si	28	1	No Gas	20143.931	20143.931	1.90	127017311	0.02	2000	>LDR
Ag	107	1	No Gas	0.013	0.013	26.85	523	0.00	2000	
Cd	111	1	No Gas	0.231	0.231	7.83	980	0.02	2000	
Sr	88	1	No Gas	1333.758	1333.758	0.36	53591194	0.00	2000	
Mo	95	1	No Gas	2.857	2.857	1.67	22893	0.01	2000	
Sn	118	1	No Gas	0.016	0.016	109.03	6608	0.00	2000	
Sb	121	1	No Gas	0.081	0.081	7.86	2127	0.00	2000	
Ba	137	1	No Gas	1271.527	1271.527	0.40	9615152	0.01	2000	
Tl	205	1	No Gas	0.011	0.011	12.54	1133	0.00	2000	
Tl	203	1	No Gas	0.009	0.009	41.04	437	0.00	2000	
Pb	208	1	No Gas	0.901	0.901	1.12	69379	0.00	2000	
U	238	1	No Gas	0.127	0.127	3.20	11829	0.00	2000	
Ca	43	2	He	57402.537	57402.537	2.12	124197	46.22	200000	
Sb	121	2	He	0.071	0.071	10.18	830	0.01	2000	
Ti	47	2	He	1.089	1.089	14.38	250	0.44	2000	
Cu	63	1	No Gas	4.058	4.058	0.86	54859	0.01	2000	
Ca	44	1	No Gas	54512.129	54512.129	1.27	28717259	0.19	200000	
Zn	66	1	No Gas	10.888	10.888	1.98	42332	0.03	2000	
Se	82	1	No Gas	0.429	0.429	50.69	450	0.10	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	661188	0.75	789601	83.74	70	120	
Ge	72	2	He	780289	1.16	909952	85.75	70	120	
Ge	72	1	No Gas	2644599	0.86	3202767	82.57	70	120	
In	115	1	No Gas	3639183	0.24	4425209	82.24	70	120	
Bi	209	1	No Gas	4011200	0.11	4898592	81.88	70	120	

Sample Report

Sample Table

Sample Name	HS24061218-03
Data File Name	207SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:48:57-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	34.386	34.386	1.72	347741	0.01	2000	
Be	9	1	No Gas	0.013	0.013	46.83	73	0.02	2000	
V	51	2	He	-0.599	-0.599	-1.82	2688	-0.02	2000	
Cr	52	2	He	0.408	0.408	13.37	10507	0.00	2000	
Fe	56	2	He	47407.045	47407.045	0.95	316578315	0.01	200000	
Se	78	2	He	0.275	0.275	51.88	122	0.23	2000	
As	75	2	He	1.174	1.174	2.98	1608	0.07	2000	
Ca	44	2	He	31479.002	31479.002	1.96	1197391	2.63	200000	
Na	23	2	He	106206.057	106206.057	1.87	104188182	0.10	200000	
Mg	24	2	He	16969.298	16969.298	2.85	10258592	0.17	200000	
K	39	2	He	2386.865	2386.865	2.60	1827762	0.13	200000	
Mn	55	2	He	893.127	893.127	1.62	4843445	0.02	2000	
Co	59	2	He	0.210	0.210	2.20	2447	0.01	2000	
Ni	60	2	He	0.692	0.692	6.76	2164	0.03	2000	
Cu	63	2	He	0.276	0.276	5.52	2710	0.01	2000	
Zn	66	2	He	7.337	7.337	2.92	11211	0.07	2000	
Al	27	2	He	6.859	6.859	2.88	3481	0.20	2000	
B	11	1	No Gas	23.156	23.156	1.15	43399	0.05	2000	
Al	27	1	No Gas	6.887	6.887	3.99	123317	0.01	2000	
Si	28	1	No Gas	17335.199	17335.199	1.07	116113785	0.01	2000	>LDR
Ag	107	1	No Gas	0.015	0.015	33.49	620	0.00	2000	
Cd	111	1	No Gas	0.577	0.577	5.25	2627	0.02	2000	
Sr	88	1	No Gas	591.272	591.272	1.08	25442389	0.00	2000	
Mo	95	1	No Gas	0.027	0.027	6.65	343	0.01	2000	
Sn	118	1	No Gas	-0.034	-0.034	-58.08	6312	0.00	2000	
Sb	121	1	No Gas	0.054	0.054	10.36	1680	0.00	2000	
Ba	137	1	No Gas	785.267	785.267	1.86	6359048	0.01	2000	
Tl	205	1	No Gas	0.006	0.006	25.83	930	0.00	2000	
Tl	203	1	No Gas	0.004	0.004	36.24	363	0.00	2000	
Pb	208	1	No Gas	0.097	0.097	5.51	9722	0.00	2000	
U	238	1	No Gas	0.002	0.002	136.78	1440	0.00	2000	
Ca	43	2	He	30983.234	30983.234	0.71	69245	44.74	200000	
Sb	121	2	He	0.058	0.058	15.08	743	0.01	2000	
Ti	47	2	He	1.279	1.279	27.41	300	0.43	2000	
Cu	63	1	No Gas	1.281	1.281	2.08	19204	0.01	2000	
Ca	44	1	No Gas	29571.847	29571.847	1.46	16550594	0.18	200000	
Zn	66	1	No Gas	6.850	6.850	2.91	29121	0.02	2000	
Se	82	1	No Gas	-0.292	-0.292	-26.81	290	-0.10	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	685658	0.27	789601	86.84	70	120	
Ge	72	2	He	805904	0.21	909952	88.57	70	120	
Ge	72	1	No Gas	2808476	0.39	3202767	87.69	70	120	
In	115	1	No Gas	3897189	0.34	4425209	88.07	70	120	
Bi	209	1	No Gas	4265390	0.93	4898592	87.07	70	120	

Sample Report

Sample Table

Sample Name	HS24061218-05
Data File Name	208SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:51:27-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.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	53.350	53.350	1.69	521907	0.01	2000	
Be	9	1	No Gas	0.070	0.070	15.59	220	0.03	2000	
V	51	2	He	0.041	0.041	166.20	6300	0.00	2000	
Cr	52	2	He	1.866	1.866	2.81	19798	0.01	2000	
Fe	56	2	He	594.033	594.033	2.34	3788239	0.02	200000	
Se	78	2	He	0.469	0.469	14.65	135	0.35	2000	
As	75	2	He	0.551	0.551	0.86	869	0.06	2000	
Ca	44	2	He	194857.256	194857.256	1.44	7053880	2.76	200000	>LDR
Na	23	2	He	547336.082	547336.082	1.44	510862659	0.11	200000	>LDR
Mg	24	2	He	131514.821	131514.821	1.72	75680881	0.17	200000	
K	39	2	He	2336.375	2336.375	0.67	1704911	0.14	200000	
Mn	55	2	He	1623.308	1623.308	1.88	8380348	0.02	2000	
Co	59	2	He	9.870	9.870	0.99	103973	0.01	2000	
Ni	60	2	He	9.868	9.868	2.03	26526	0.04	2000	
Cu	63	2	He	0.281	0.281	14.56	2620	0.01	2000	
Zn	66	2	He	16.484	16.484	2.68	23076	0.07	2000	
Al	27	2	He	16.879	16.879	3.42	6918	0.24	2000	
B	11	1	No Gas	19.806	19.806	1.85	38532	0.05	2000	
Al	27	1	No Gas	15.882	15.882	1.46	233514	0.01	2000	
Si	28	1	No Gas	17092.556	17092.556	1.22	109687215	0.02	2000	>LDR
Ag	107	1	No Gas	0.029	0.029	22.94	877	0.00	2000	
Cd	111	1	No Gas	0.232	0.232	25.72	995	0.02	2000	
Sr	88	1	No Gas	3389.906	3389.906	2.20	137919705	0.00	2000	>LDR
Mo	95	1	No Gas	0.130	0.130	20.45	1157	0.01	2000	
Sn	118	1	No Gas	0.493	0.493	2.77	13674	0.00	2000	
Sb	121	1	No Gas	0.081	0.081	4.76	2157	0.00	2000	
Ba	137	1	No Gas	474.077	474.077	1.98	3630433	0.01	2000	
Tl	205	1	No Gas	0.042	0.042	9.94	2650	0.00	2000	
Tl	203	1	No Gas	0.041	0.041	11.00	1123	0.00	2000	
Pb	208	1	No Gas	0.110	0.110	1.32	9902	0.00	2000	
U	238	1	No Gas	3.296	3.296	1.38	270772	0.00	2000	
Ca	43	2	He	192810.287	192810.287	1.47	410028	47.02	200000	>LDR
Sb	121	2	He	0.086	0.086	7.65	940	0.01	2000	
Ti	47	2	He	1.191	1.191	32.86	267	0.45	2000	
Cu	63	1	No Gas	5.027	5.027	1.44	68876	0.01	2000	
Ca	44	1	No Gas	184603.132	184603.132	1.12	98920462	0.19	200000	>LDR
Zn	66	1	No Gas	17.294	17.294	1.41	67144	0.03	2000	
Se	82	1	No Gas	1.188	1.188	29.52	647	0.18	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	693296	2.38	789601	87.80	70	120	
Ge	72	2	He	767177	0.79	909952	84.31	70	120	
Ge	72	1	No Gas	2690828	1.03	3202767	84.02	70	120	
In	115	1	No Gas	3685764	1.43	4425209	83.29	70	120	
Bi	209	1	No Gas	3924980	0.50	4898592	80.12	70	120	

Sample Report

Sample Table

Sample Name	HS24061218-07
Data File Name	209SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:53:56-05:00
Sample Type	Sample
Dilution	1
Comment	TW B 214140
ISTD Ref FileName	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	37.540	37.540	0.13	340447	0.01	2000	
Be	9	1	No Gas	0.055	0.055	20.97	162	0.03	2000	
V	51	2	He	0.739	0.739	3.91	10085	0.01	2000	
Cr	52	2	He	242.411	242.411	0.46	1588334	0.02	2000	
Fe	56	2	He	103186.011	103186.011	0.02	636724164	0.02	200000	
Se	78	2	He	0.517	0.517	39.35	135	0.38	2000	
As	75	2	He	1.639	1.639	4.29	1966	0.08	2000	
Ca	44	2	He	139704.868	139704.868	0.16	4909274	2.85	200000	
Na	23	2	He	1154111.545	1154111.545	0.67	1045636304	0.11	200000	>LDR
Mg	24	2	He	76193.901	76193.901	0.37	42556510	0.18	200000	
K	39	2	He	4435.173	4435.173	0.27	3071513	0.14	200000	
Mn	55	2	He	2407.229	2407.229	0.12	12062102	0.02	2000	>LDR
Co	59	2	He	6.237	6.237	1.05	63831	0.01	2000	
Ni	60	2	He	222.222	222.222	0.71	575409	0.04	2000	
Cu	63	2	He	5.569	5.569	1.76	40112	0.01	2000	
Zn	66	2	He	14.120	14.120	5.18	19311	0.07	2000	
Al	27	2	He	128.694	128.694	3.77	45744	0.28	2000	
B	11	1	No Gas	29.333	29.333	0.92	48143	0.06	2000	
Al	27	1	No Gas	119.144	119.144	2.03	1473412	0.01	2000	
Si	28	1	No Gas	13363.589	13363.589	0.43	81139789	0.02	2000	>LDR
Ag	107	1	No Gas	0.037	0.037	4.78	993	0.00	2000	
Cd	111	1	No Gas	0.561	0.561	2.37	2263	0.02	2000	
Sr	88	1	No Gas	1913.546	1913.546	0.59	73002467	0.00	2000	>LDR
Mo	95	1	No Gas	0.676	0.676	2.80	5221	0.01	2000	
Sn	118	1	No Gas	0.158	0.158	6.90	8229	0.00	2000	
Sb	121	1	No Gas	0.095	0.095	9.21	2314	0.00	2000	
Ba	137	1	No Gas	201.151	201.151	0.68	1444661	0.01	2000	
Tl	205	1	No Gas	0.004	0.004	92.26	693	0.00	2000	
Tl	203	1	No Gas	0.003	0.003	101.55	293	0.00	2000	
Pb	208	1	No Gas	0.525	0.525	1.59	38033	0.00	2000	
U	238	1	No Gas	0.145	0.145	3.51	12253	0.00	2000	
Ca	43	2	He	136203.662	136203.662	0.96	281114	48.45	200000	
Sb	121	2	He	0.106	0.106	17.54	1067	0.01	2000	
Ti	47	2	He	2.604	2.604	7.19	547	0.48	2000	
Cu	63	1	No Gas	29.562	29.562	5.09	377768	0.01	2000	
Ca	44	1	No Gas	131129.434	131129.434	0.06	66459119	0.20	200000	
Zn	66	1	No Gas	13.993	13.993	1.03	51771	0.03	2000	
Se	82	1	No Gas	3.578	3.578	18.69	1177	0.30	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	621191	0.93	789601	78.67	70	120	
Ge	72	2	He	744709	3.73	909952	81.84	70	120	
Ge	72	1	No Gas	2544707	0.47	3202767	79.45	70	120	
In	115	1	No Gas	3455330	0.23	4425209	78.08	70	120	
Bi	209	1	No Gas	3697754	1.16	4898592	75.49	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	211_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T20:58:48-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	165CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.671	2.347	1021112	2.51	100	97.7	90	110	
Be	9	1	No Gas	94.898	2.497	268214	2.73	100	94.9	90	110	
V	51	2	He	102.869	0.640	659426	1.03	100	102.9	90	110	
Cr	52	2	He	102.034	1.071	751602	0.60	100	102.0	90	110	
Fe	56	2	He	10286.069	0.626	70945732	1.66	10000	102.9	90	110	
Se	78	2	He	104.274	0.275	10849	1.71	100	104.3	90	110	
As	75	2	He	104.204	1.602	120242	2.02	100	104.2	90	110	
Ca	44	2	He	10394.613	0.724	408670	1.94	10000	103.9	90	110	
Na	23	2	He	10319.392	0.315	10525788	1.39	10000	103.2	90	110	
Mg	24	2	He	10245.077	0.374	6396809	1.42	10000	102.5	90	110	
K	39	2	He	10375.910	0.798	7913628	1.71	10000	103.8	90	110	
Mn	55	2	He	101.488	0.376	568820	1.17	100	101.5	90	110	
Co	59	2	He	104.648	1.098	1194625	1.78	100	104.6	90	110	
Ni	60	2	He	104.563	0.942	302639	1.08	100	104.6	90	110	
Cu	63	2	He	101.887	0.422	809205	1.54	100	101.9	90	110	
Zn	66	2	He	103.165	1.199	152544	2.70	100	103.2	90	110	
Al	27	2	He	103.303	1.731	41224	1.69	100	103.3	90	110	
B	11	1	No Gas	455.062	1.898	812876	1.98	500	91.0	90	110	
Al	27	1	No Gas	103.873	2.678	1500884	2.90	100	103.9	90	110	
Si	28	1	No Gas	524.161	2.008	3871728	2.24	5000	10.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	105.233	1.136	2471940	0.72	100	105.2	90	110	
Cd	111	1	No Gas	102.309	1.171	481998	1.11	100	102.3	90	110	
Sr	88	1	No Gas	105.234	2.269	4673965	1.64	100	105.2	90	110	
Mo	95	1	No Gas	102.086	1.725	899853	1.21	100	102.1	90	110	
Sn	118	1	No Gas	103.725	1.276	1663451	1.52	100	103.7	90	110	
Sb	121	1	No Gas	101.223	1.343	2275601	1.67	100	101.2	90	110	
Ba	137	1	No Gas	101.544	2.399	849011	1.86	100	101.5	90	110	
Tl	205	1	No Gas	102.238	1.827	5874855	1.81	100	102.2	90	110	
Tl	203	1	No Gas	102.764	2.032	2499715	1.93	100	102.8	90	110	
Pb	208	1	No Gas	102.899	1.364	8589352	1.10	100	102.9	90	110	
U	238	1	No Gas	102.065	1.500	9504515	1.42	100	102.1	90	110	
Ca	43	2	He	10539.374	2.063	24358	3.55	10000	105.4	90	110	
Sb	121	2	He	106.987	0.606	961049	0.92	100	107.0	90	110	
Ti	47	2	He	105.409	2.330	24044	0.85	100	105.4	90	110	
Cu	63	1	No Gas	105.474	1.334	1567237	1.72	100	105.5	90	110	
Se	82	1	No Gas	99.262	4.651	27695	4.99	100	99.3	90	110	
Zr	90	1	No Gas	94.509	2.142	2606967	1.49	100	94.5	90	110	
Zr	90	2	He	97.122	0.396	1036275	1.75	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
Li	6	1	No Gas	769224	0.61	789601	97.42	70	120	
Ge	72	2	He	832265	1.51	909952	91.46	70	120	
Ge	72	1	No Gas	2964622	0.44	3202767	92.56	70	120	
In	115	1	No Gas	4021687	0.94	4425209	90.88	70	120	
Bi	209	1	No Gas	4467681	0.57	4898592	91.20	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	212_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq Date Time	2024-06-28T21:01:12-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	165CALB.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	0.539	19.4	52548	1.5	0.5	CCB Main CR1 Failed
Be	9	1	No Gas	0.016	30.4	92	15.7	0.5	
V	51	2	He	-0.741	-1.1	1866	2.1	2.5	
Cr	52	2	He	-0.250	-6.6	6035	1.4	2.5	
Fe	56	2	He	1.784	1.9	24966	2.1	100	
Se	78	2	He	0.251	56.2	123	13.0	2	
As	75	2	He	-0.051	-62.3	250	15.0	2.5	
Ca	44	2	He	13.904	15.9	1037	8.4	100	
Na	23	2	He	146.656	2.6	226890	0.6	100	CCB Main CR1 Failed
Mg	24	2	He	0.150	115.2	1890	5.2	100	
K	39	2	He	1.569	95.5	88117	0.3	100	
Mn	55	2	He	0.124	6.0	1217	4.7	2.5	
Co	59	2	He	0.005	41.8	180	11.1	2.5	
Ni	60	2	He	0.211	4.1	840	2.1	2.5	
Cu	63	2	He	0.064	5.5	1113	1.4	2	
Zn	66	2	He	1.229	4.3	2587	3.9	2.5	
Al	27	2	He	0.148	104.8	973	7.2	5	
B	11	1	No Gas	2.043	27.2	11303	8.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.113	49.3	34476	1.6	5	
Si	28	1	No Gas	14.607	4.1	273967	1.1	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.001	179.6	313	19.5	2.5	
Cd	111	1	No Gas	0.001	197.9	-1	-912.1	1	
Sr	88	1	No Gas	0.000	-1393.5	1863	8.6	2.5	
Mo	95	1	No Gas	0.055	8.8	610	7.5	2.5	
Sn	118	1	No Gas	-0.105	-10.9	5435	3.7	5	
Sb	121	1	No Gas	0.037	23.0	1397	13.2	2.5	
Ba	137	1	No Gas	-0.020	-14.7	410	6.5	2.5	
Tl	205	1	No Gas	0.061	49.4	4141	42.1	1	
Tl	203	1	No Gas	0.056	42.4	1643	35.4	1	
Pb	208	1	No Gas	0.006	15.6	2623	3.2	2.5	
U	238	1	No Gas	0.004	21.0	1703	4.4	2.5	
Ca	43	2	He	19.033	102.1	87	53.3	100	
Sb	121	2	He	0.037	27.1	573	15.8	2.5	
Ti	47	2	He	-0.050	-51.2	7	86.6	2.5	
Cu	63	1	No Gas	0.177	4.3	3894	3.1	2.5	
Se	82	1	No Gas	-0.231	-83.2	323	17.0	2	
Zr	90	1	No Gas	0.128	14.1	4588	10.9	2.5	
Zr	90	2	He	0.087	19.4	2334	8.5	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	767261	0.47	789601	97.17	70	120	
Ge	72	2	He	829909	1.31	909952	91.20	70	120	
Ge	72	1	No Gas	2967505	0.70	3202767	92.65	70	120	

Continuing Calibration Blank (CCB) Report

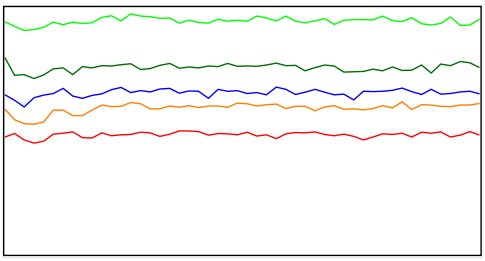
In	115	1	No Gas	4060227	0.43	4425209	91.75	70	120	
Bi	209	1	No Gas	4491873	0.52	4898592	91.70	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\062824A.b
Acq. Date-Time	6/28/2024 9:33:05 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



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

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	4844	48435.36		
24	20000	18921	189212.91		
59	50000	32728	327275.41		
115	100000	59215	592154.09		
208	50000	37844	378439.09		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.249	5.000	
24	1.532	5.000	
59	2.266	5.000	
115	3.479	5.000	
208	2.113	5.000	

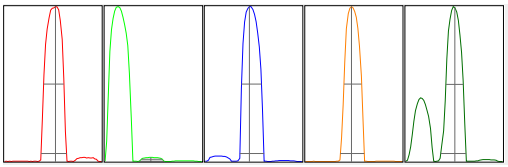
Mass	Background	Background (Required)	Background (Flag)
9	1.500		
24	2.200		
59	1.000		
115	1.400		
208	2.700		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.088 %
Doubly Charged	70 / 140 0.749 %

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	4928.66	9.10	8.90 - 9.10	
24	19018.93	23.95	23.90 - 24.10	
59	33134.84	58.90	58.90 - 59.10	
115	60732.01	114.95	114.90 - 115.10	
208	37498.26	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.779		
24	0.64	0.747		
59	0.61	0.739		
115	0.53	0.727		
208	0.54	0.772		

Tune Parameters

Plasma Parameters

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

Lens Parameters

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

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

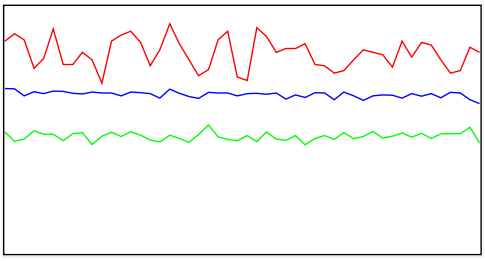
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 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	200	162	1621.69		
24	2000	947	9472.56		
59	20000	12875	128750.58		

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

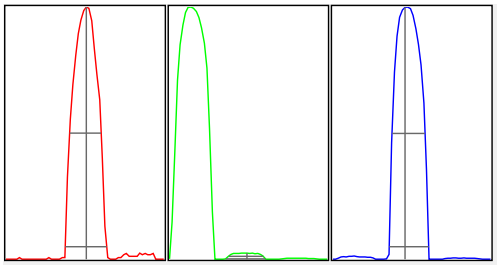
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	7.555	5.000	Fail
24	3.580	5.000	
59	1.910	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.300		
24	0.600		
59	0.100		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.534 %
Doubly Charged	70 / 140 0.747 %

Resolution/Axis



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

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	172.27	9.05	8.90 - 9.10	
24	918.32	24.00	23.90 - 24.10	
59	13024.31	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.775		
24	0.65	0.744		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.740		

Tune Parameters

Plasma Parameters

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

Lens Parameters

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

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

EM

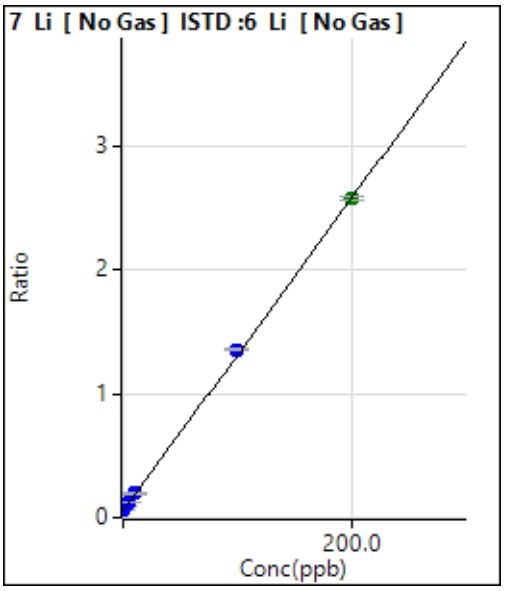
Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Calibration for 245_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	238CALB.d	CAL BLK	7/1/2024 11:01:34 PM
2	239CALS.d	2/10/200	7/1/2024 11:04:06 PM
3	240CALS.d	5/25/500	7/1/2024 11:06:37 PM
4	241CALS.d	10/50/100	7/1/2024 11:09:08 PM
5	242CALS.d	100/500/10K	7/1/2024 11:11:39 PM
6	243CALS.d	200/1000/20K	7/1/2024 11:14:09 PM

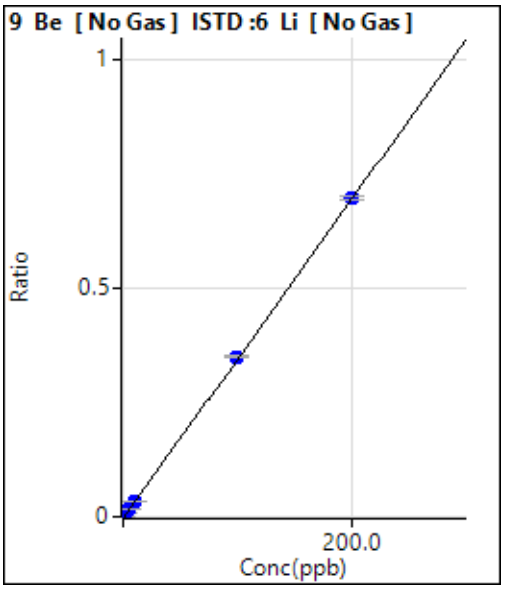
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24881.76	0.0663	P	1.3	
2	☐	2.000	1.821	33078.26	0.0893	P	1.3	-8.9
3	☐	5.000	4.953	47609.17	0.1289	P	0.3	-0.9
4	☐	10.000	10.162	71156.42	0.1948	P	0.7	1.6
5	☐	100.000	102.243	471659.90	1.3593	P	0.9	2.2
6	☐	200.000	198.873	856518.29	2.5813	A	1.0	-0.6

y = 0.0126 * x + 0.0663
R = 0.9999
DL = 0.2065 ppb
BEC = 5.239 ppb

Weight: <None>
Min Conc: <None>

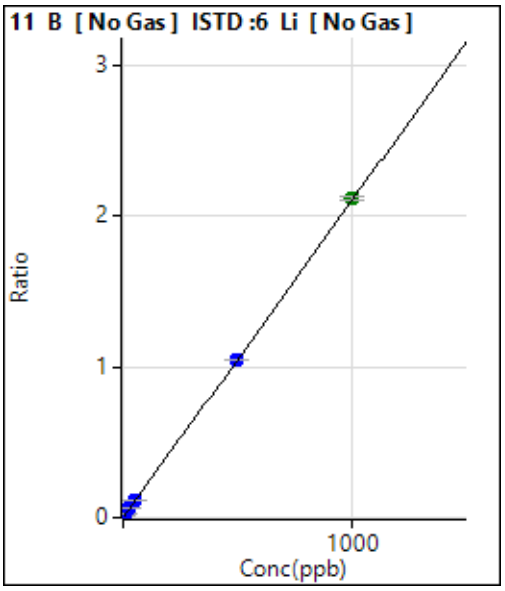


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11.67	0.0000	P	25.4	
2	☐	2.000	1.905	2470.25	0.0067	P	7.7	-4.8
3	☐	5.000	4.797	6186.40	0.0167	P	4.2	-4.1
4	☐	10.000	9.714	12377.11	0.0339	P	3.0	-2.9
5	☐	100.000	100.354	121328.83	0.3496	P	1.5	0.4
6	☐	200.000	199.844	231031.73	0.6963	P	1.3	-0.1

y = 0.0035 * x + 3.1099E-005
R = 1.0000
DL = 0.006813 ppb
BEC = 0.008927 ppb

Weight: <None>
Min Conc: <None>

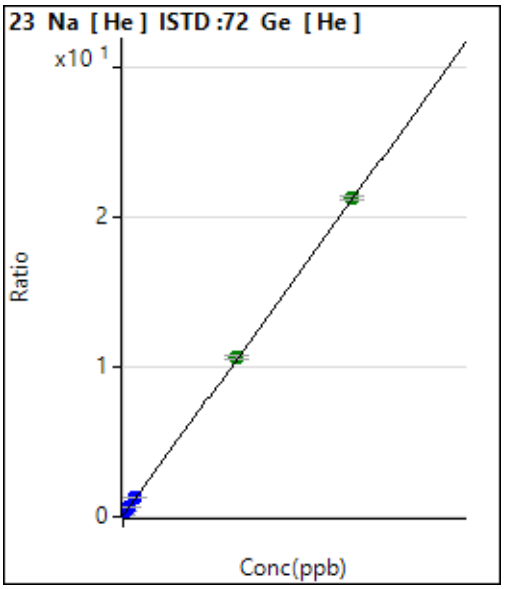
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4138.97	0.0110	P	1.3	
2	☐	10.000	9.325	11332.94	0.0306	P	1.9	-6.8
3	☐	25.000	24.085	22743.28	0.0616	P	0.4	-3.7
4	☐	50.000	50.046	42401.33	0.1161	P	1.1	0.1
5	☐	500.000	493.281	363063.29	1.0463	P	0.3	-1.3
6	☐	1000.000	1003.387	702437.15	2.1170	A	1.0	0.3

y = 0.0021 * x + 0.0110
R = 1.0000
DL = 0.1981 ppb
BEC = 5.251 ppb

Weight: <None>
Min Conc: <None>

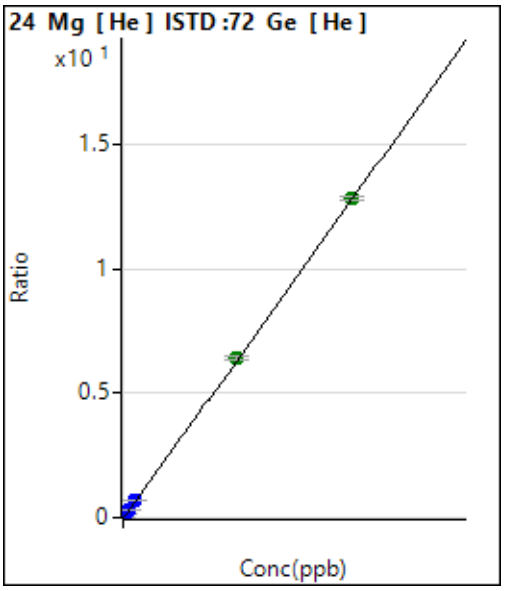


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	89811.84	0.1747	P	2.9	
2	☐	200.000	179.929	188069.36	0.3646	P	2.2	-10.0
3	☐	500.000	467.392	346075.41	0.6679	P	2.3	-6.5
4	☐	1000.000	1000.495	631368.24	1.2303	P	0.9	0.0
5	☐	10000.00	9937.263	5410946.79	10.6593	A	1.5	-0.6
6	☐	20000.00	20032.35	10487071.09	21.3103	A	0.9	0.2

y = 0.0011 * x + 0.1747
R = 1.0000
DL = 14.4 ppb
BEC = 165.6 ppb

Weight: <None>
Min Conc: <None>

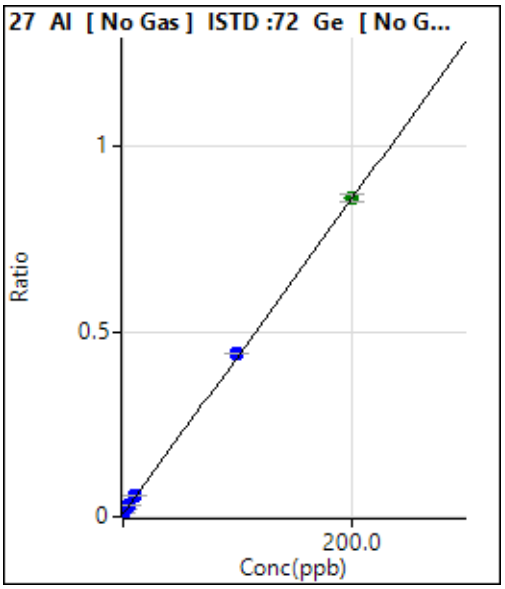
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5004.31	0.0097	P	6.0	
2	☐	200.000	202.027	72013.42	0.1396	P	3.2	1.0
3	☐	500.000	507.386	174048.56	0.3359	P	1.7	1.5
4	☐	1000.000	1049.717	351264.41	0.6845	P	1.4	5.0
5	☐	10000.00	9999.029	3267586.93	6.4369	A	1.7	0.0
6	☐	20000.00	19997.79	6330484.70	12.8639	A	0.7	0.0

y = 6.4278E-004 * x + 0.0097
R = 1.0000
DL = 2.725 ppb
BEC = 15.15 ppb

Weight: <None>
Min Conc: <None>

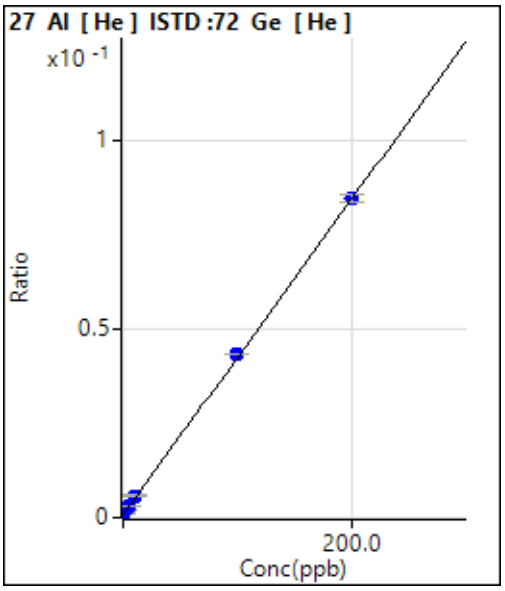


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20188.09	0.0116	P	1.8	
2	☐	2.000	2.108	35765.62	0.0206	P	2.5	5.4
3	☐	5.000	4.882	56168.64	0.0324	P	1.4	-2.4
4	☐	10.000	10.488	96955.90	0.0563	P	2.1	4.9
5	☐	100.000	100.819	736661.00	0.4410	P	1.1	0.8
6	☐	200.000	199.568	1395797.58	0.8616	A	1.8	-0.2

y = 0.0043 * x + 0.0116
R = 1.0000
DL = 0.1465 ppb
BEC = 2.722 ppb

Weight: <None>
Min Conc: <None>

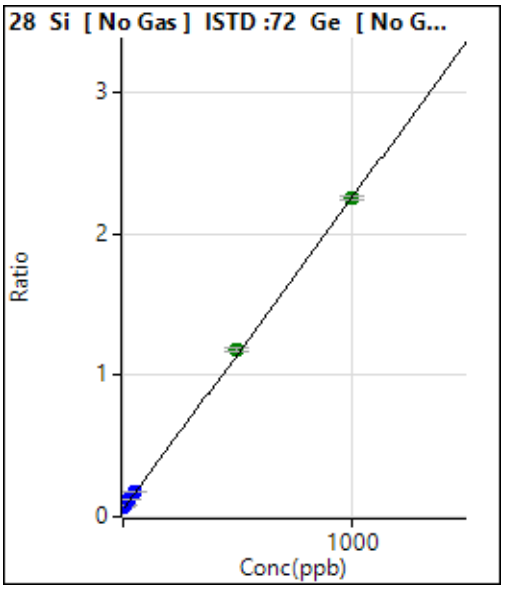
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	606.69	0.0012	P	19.3	
2	☐	2.000	2.097	1060.06	0.0021	P	13.4	4.8
3	☐	5.000	4.971	1686.80	0.0033	P	3.2	-0.6
4	☐	10.000	10.985	2960.37	0.0058	P	5.2	9.8
5	☐	100.000	100.817	21980.82	0.0433	P	0.3	0.8
6	☐	200.000	199.542	41605.18	0.0845	P	2.0	-0.2

y = 4.1777E-004 * x + 0.0012
R = 1.0000
DL = 1.633 ppb
BEC = 2.821 ppb

Weight: <None>
Min Conc: <None>

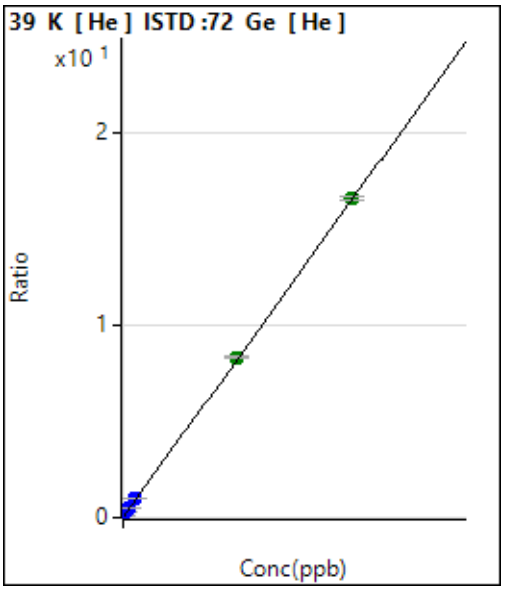


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	110360.48	0.0634	P	0.5	
2	☐	10.000	10.432	150090.59	0.0863	P	0.7	4.3
3	☐	25.000	25.465	207096.65	0.1194	P	0.7	1.9
4	☐	50.000	52.207	307142.76	0.1782	P	1.5	4.4
5	☐	500.000	509.214	1977078.04	1.1836	A	1.7	1.8
6	☐	1000.000	995.267	3649629.84	2.2528	A	1.6	-0.5

y = 0.0022 * x + 0.0634
R = 0.9999
DL = 0.4207 ppb
BEC = 28.82 ppb

Weight: <None>
Min Conc: <None>

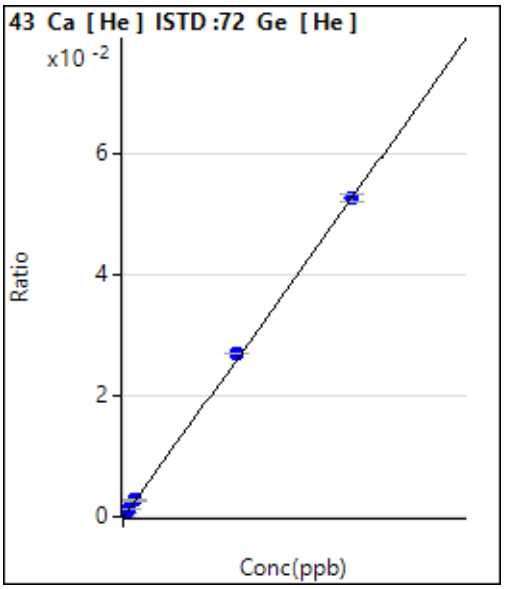
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54275.76	0.1056	P	2.0	
2	☐	200.000	201.446	140026.12	0.2714	P	1.3	0.7
3	☐	500.000	508.889	271815.72	0.5245	P	1.6	1.8
4	☐	1000.000	1057.448	500935.66	0.9761	P	1.1	5.7
5	☐	10000.00	9966.243	4218624.83	8.3102	A	1.0	-0.3
6	☐	20000.00	20013.76	8160084.25	16.5817	A	0.6	0.1

y = 8.2324E-004 * x + 0.1056
R = 1.0000
DL = 7.622 ppb
BEC = 128.3 ppb

Weight: <None>
Min Conc: <None>

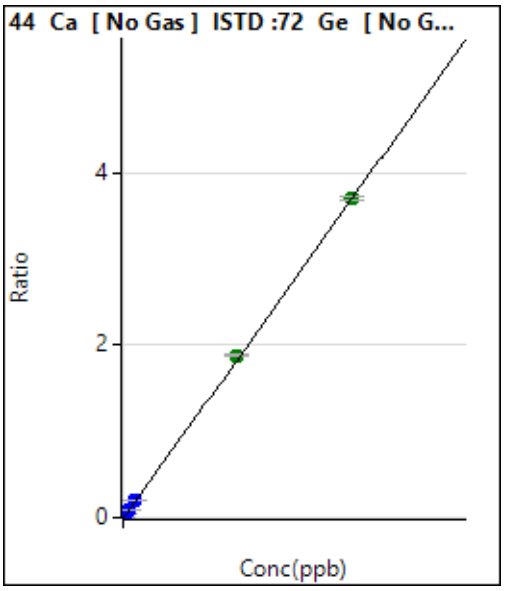


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	31.8	
2	☐	200.000	195.812	303.34	0.0006	P	29.7	-2.1
3	☐	500.000	426.665	620.03	0.0012	P	7.4	-14.7
4	☐	1000.000	1015.366	1410.10	0.0027	P	9.8	1.5
5	☐	10000.00	10151.71	13626.85	0.0268	P	0.4	1.5
6	☐	20000.00	19925.25	25894.33	0.0526	P	2.7	-0.4

y = 2.6370E-006 * x + 7.1377E-005
R = 0.9999
DL = 25.79 ppb
BEC = 27.07 ppb

Weight: <None>
Min Conc: <None>

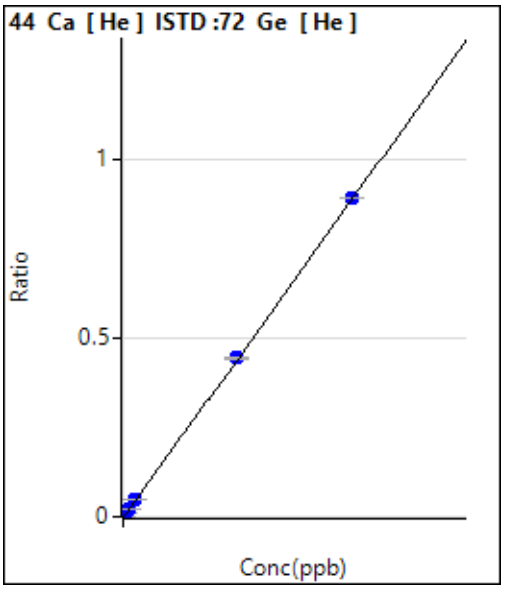
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8139.22	0.0047	P	3.9	
2	☐	200.000	200.474	72699.22	0.0418	P	3.1	0.2
3	☐	500.000	503.485	169906.15	0.0980	P	2.5	0.7
4	☐	1000.000	1033.577	338084.20	0.1962	P	2.0	3.4
5	☐	10000.00	10093.48	3132037.04	1.8750	A	1.2	0.9
6	☐	20000.00	19951.48	5996844.08	3.7017	A	1.7	-0.2

y = 1.8530E-004 * x + 0.0047
R = 1.0000
DL = 2.933 ppb
BEC = 25.23 ppb

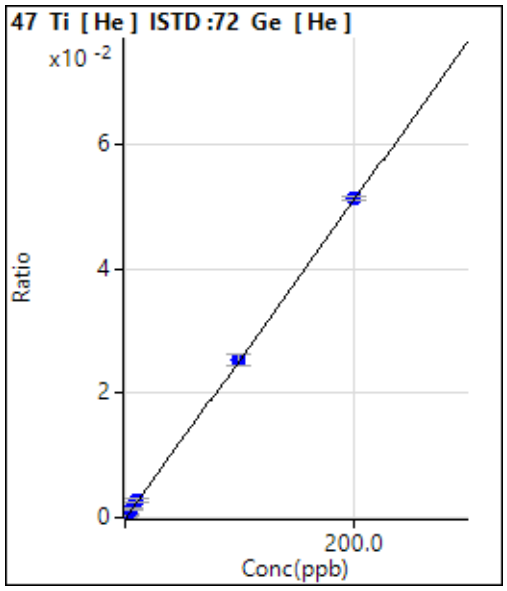
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	460.01	0.0009	P	7.9	
2	☐	200.000	202.011	5094.36	0.0099	P	6.1	1.0
3	☐	500.000	501.811	12025.37	0.0232	P	1.7	0.4
4	☐	1000.000	1043.037	24261.46	0.0473	P	3.6	4.3
5	☐	10000.00	9957.606	225204.54	0.4436	P	1.6	-0.4
6	☐	20000.00	20018.98	438461.24	0.8910	P	0.5	0.1

y = 4.4462E-005 * x + 8.9464E-004
R = 1.0000
DL = 4.771 ppb
BEC = 20.12 ppb

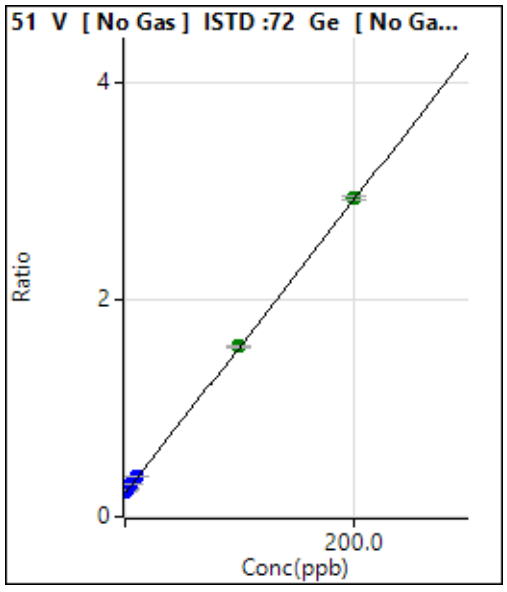
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.812	246.68	0.0005	P	8.5	-9.4
3	☐	5.000	5.111	686.69	0.0013	P	15.5	2.2
4	☐	10.000	10.869	1440.11	0.0028	P	16.4	8.7
5	☐	100.000	99.097	12919.57	0.0255	P	7.0	-0.9
6	☐	200.000	200.407	25330.03	0.0515	P	1.5	0.2

y = 2.5677E-004 * x + 1.3060E-005
R = 1.0000
DL = 0.1321 ppb
BEC = 0.05086 ppb

Weight: <None>
Min Conc: <None>

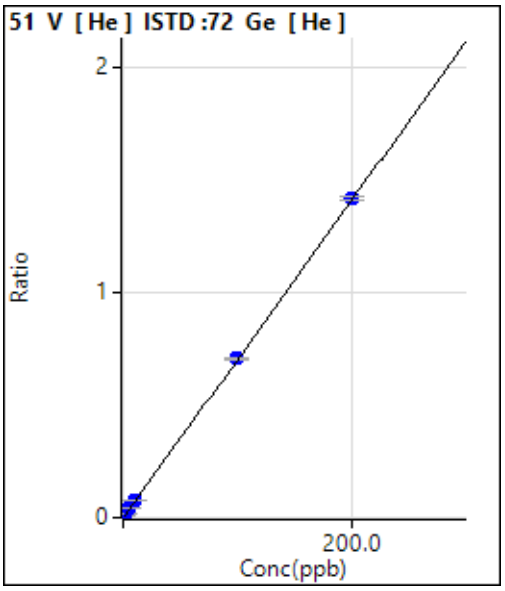


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	399680.88	0.2296	P	1.1	
2	☐	2.000	1.998	446059.52	0.2566	P	0.7	-0.1
3	☐	5.000	4.790	510436.71	0.2943	P	0.7	-4.2
4	☐	10.000	10.396	637735.45	0.3701	P	1.4	4.0
5	☐	100.000	99.137	2621482.02	1.5694	A	1.6	-0.9
6	☐	200.000	200.417	4759850.91	2.9381	A	1.6	0.2

y = 0.0135 * x + 0.2296
R = 1.0000
DL = 0.5565 ppb
BEC = 16.99 ppb

Weight: <None>
Min Conc: <None>

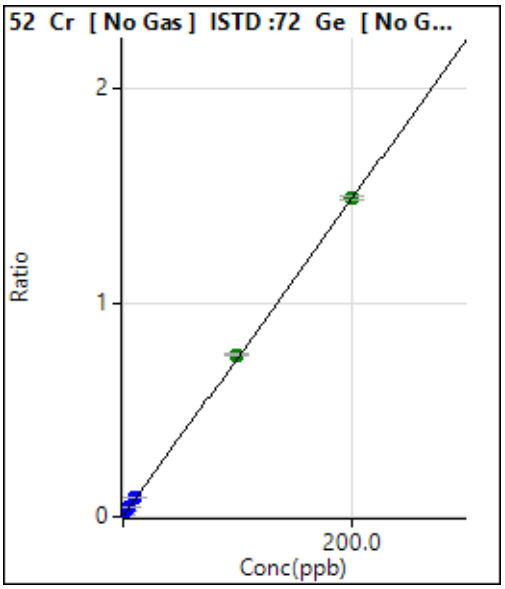
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2788.08	0.0054	P	1.1	
2	☐	2.000	1.936	9842.42	0.0191	P	1.9	-3.2
3	☐	5.000	4.958	20930.26	0.0404	P	0.8	-0.8
4	☐	10.000	10.368	40305.06	0.0785	P	1.6	3.7
5	☐	100.000	99.407	358614.45	0.7064	P	1.7	-0.6
6	☐	200.000	200.280	697718.01	1.4178	P	0.9	0.1

y = 0.0071 * x + 0.0054
R = 1.0000
DL = 0.02536 ppb
BEC = 0.7691 ppb

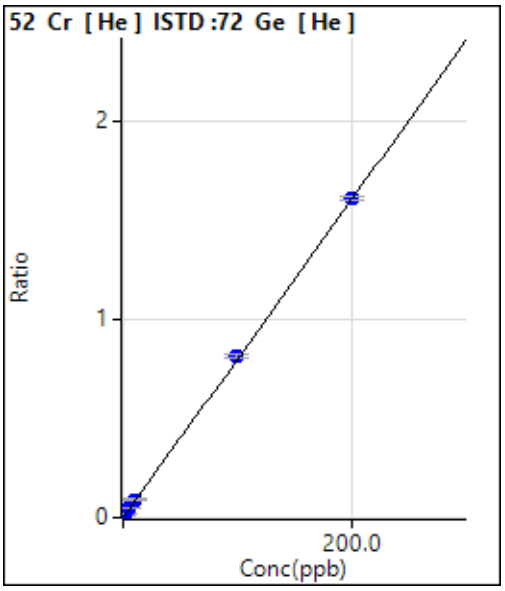
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17070.79	0.0098	P	3.6	
2	☐	2.000	1.900	41552.55	0.0239	P	1.8	-5.0
3	☐	5.000	5.065	82172.81	0.0474	P	2.3	1.3
4	☐	10.000	10.418	150068.83	0.0871	P	2.1	4.2
5	☐	100.000	100.615	1263137.14	0.7562	A	1.2	0.6
6	☐	200.000	199.671	2415473.77	1.4910	A	1.7	-0.2

y = 0.0074 * x + 0.0098
R = 1.0000
DL = 0.1434 ppb
BEC = 1.322 ppb

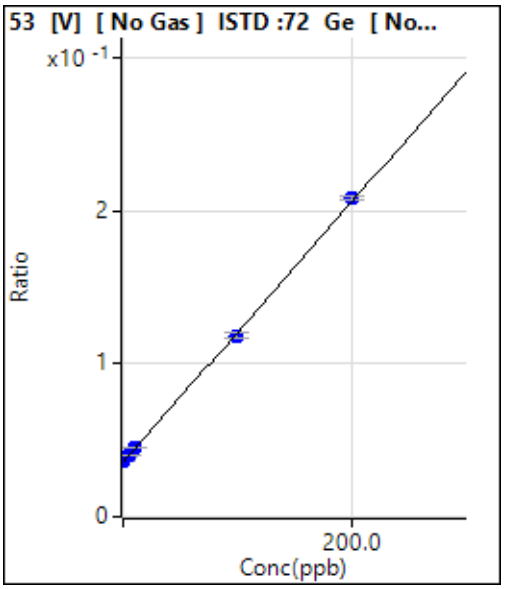
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3693.89	0.0072	P	4.8	
2	☐	2.000	2.044	12165.51	0.0236	P	4.4	2.2
3	☐	5.000	5.010	24541.95	0.0474	P	0.7	0.2
4	☐	10.000	10.499	46885.84	0.0914	P	1.6	5.0
5	☐	100.000	100.413	412368.24	0.8124	P	2.0	0.4
6	☐	200.000	199.768	791829.21	1.6090	P	1.3	-0.1

y = 0.0080 * x + 0.0072
R = 1.0000
DL = 0.1282 ppb
BEC = 0.8966 ppb

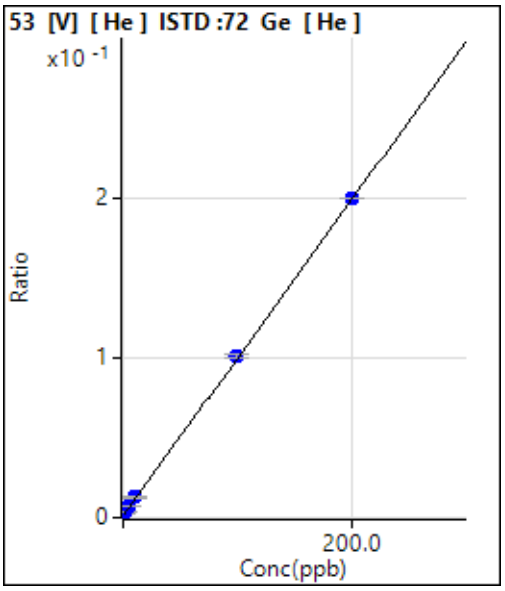
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	64138.26	0.0368	P	2.0	
2	☐	2.000	2.409	67615.02	0.0389	P	1.4	20.4
3	☐	5.000	4.323	70278.36	0.0405	P	1.4	-13.5
4	☐	10.000	10.056	78234.27	0.0454	P	1.6	0.6
5	☐	100.000	96.195	198261.10	0.1187	P	2.4	-3.8
6	☐	200.000	201.912	338010.49	0.2086	P	1.4	1.0

y = 8.5087E-004 * x + 0.0368
R = 0.9997
DL = 2.596 ppb
BEC = 43.3 ppb

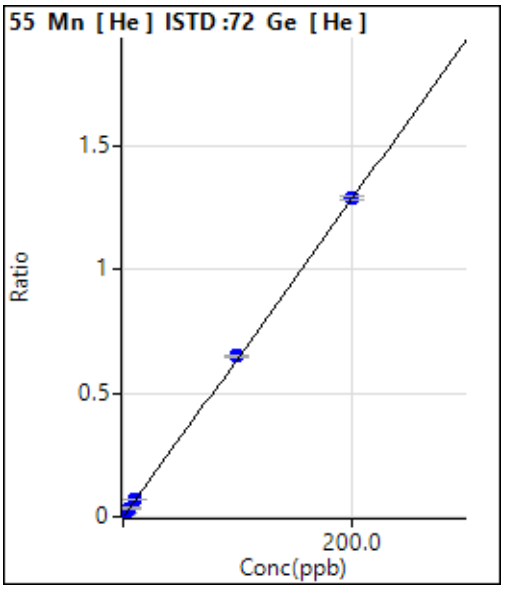
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1133.40	0.0022	P	8.5	
2	☐	2.000	1.925	2116.87	0.0041	P	3.1	-3.8
3	☐	5.000	4.958	3677.22	0.0071	P	6.8	-0.8
4	☐	10.000	10.618	6504.99	0.0127	P	6.8	6.2
5	☐	100.000	100.151	51275.22	0.1010	P	1.8	0.2
6	☐	200.000	199.895	98132.61	0.1994	P	0.5	-0.1

y = 9.8655E-004 * x + 0.0022
R = 1.0000
DL = 0.5725 ppb
BEC = 2.235 ppb

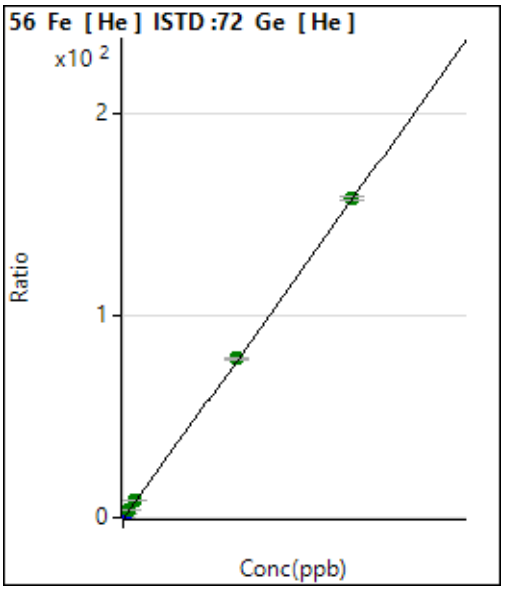
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2060.19	0.0040	P	5.6	
2	☐	2.000	2.032	8809.60	0.0171	P	2.6	1.6
3	☐	5.000	4.772	17981.97	0.0347	P	2.2	-4.6
4	☐	10.000	10.370	36281.17	0.0707	P	1.9	3.7
5	☐	100.000	100.234	329327.39	0.6487	P	1.4	0.2
6	☐	200.000	199.870	634661.59	1.2897	P	0.8	-0.1

y = 0.0064 * x + 0.0040
R = 1.0000
DL = 0.1049 ppb
BEC = 0.6228 ppb

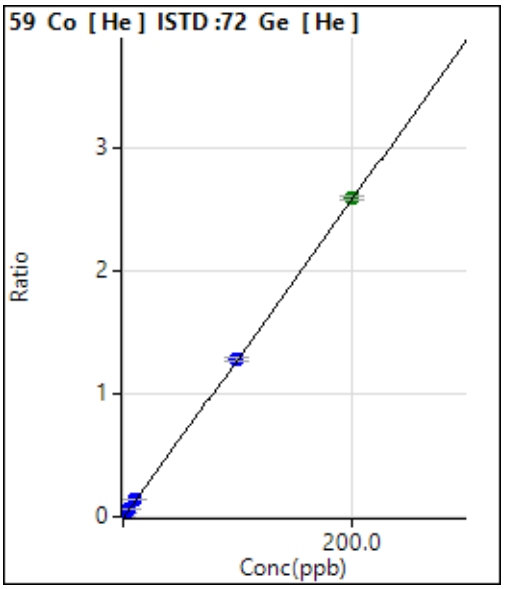
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8973.05	0.0175	P	5.9	
2	☐	200.000	196.029	809359.60	1.5689	P	1.2	-2.0
3	☐	500.000	502.275	2068938.51	3.9926	A	2.5	0.5
4	☐	1000.000	1046.301	4258503.17	8.2983	A	1.1	4.6
5	☐	10000.00	9974.741	40083851.90	78.9612	A	1.4	-0.3
6	☐	20000.00	20010.29	77945733.84	158.386	A	1.0	0.1

y = 0.0079 * x + 0.0175
R = 1.0000
DL = 0.3925 ppb
BEC = 2.206 ppb

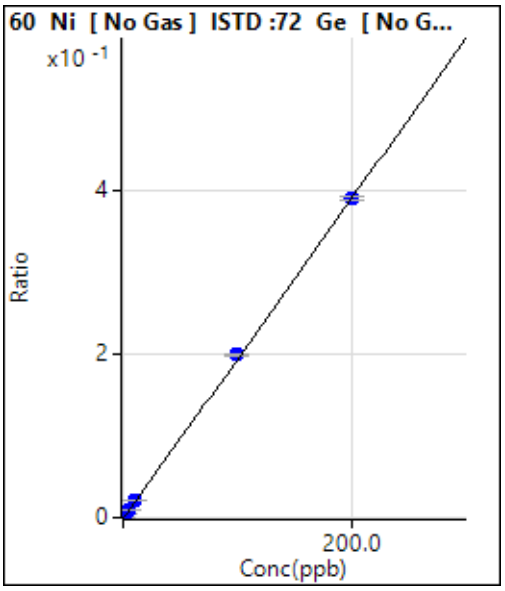
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	19.3	
2	☐	2.000	1.968	13209.81	0.0256	P	1.6	-1.6
3	☐	5.000	5.070	34092.34	0.0658	P	0.6	1.4
4	☐	10.000	10.466	69622.04	0.1357	P	0.9	4.7
5	☐	100.000	99.197	652245.51	1.2848	P	1.8	-0.8
6	☐	200.000	200.377	1277155.03	2.5952	A	0.7	0.2

y = 0.0130 * x + 1.2341E-004
R = 1.0000
DL = 0.005507 ppb
BEC = 0.009528 ppb

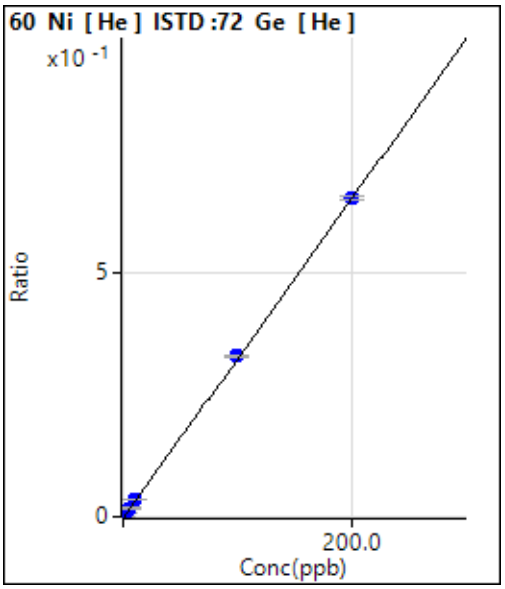
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	410.01	0.0002	P	0.5	
2	☐	2.000	2.078	7512.15	0.0043	P	2.2	3.9
3	☐	5.000	5.117	17855.09	0.0103	P	1.4	2.3
4	☐	10.000	10.671	36558.80	0.0212	P	0.9	6.7
5	☐	100.000	101.682	334332.01	0.2001	P	1.2	1.7
6	☐	200.000	199.122	634606.98	0.3917	P	0.8	-0.4

y = 0.0020 * x + 2.3551E-004
R = 0.9999
DL = 0.0019 ppb
BEC = 0.1198 ppb

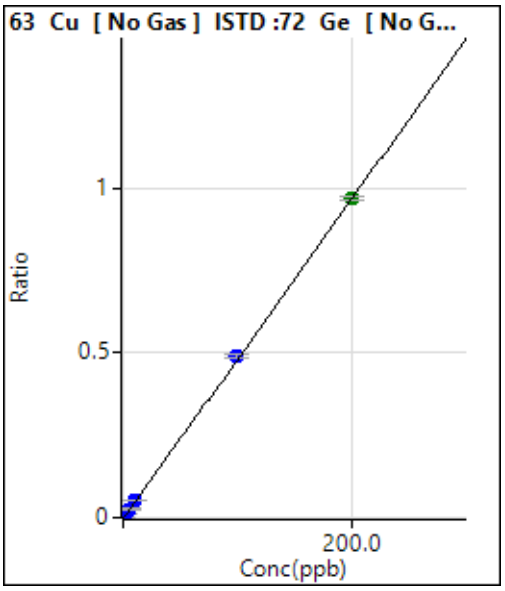
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0002	P	19.6	
2	☐	2.000	1.992	3473.85	0.0067	P	3.0	-0.4
3	☐	5.000	5.198	8933.07	0.0172	P	8.1	4.0
4	☐	10.000	10.924	18475.98	0.0360	P	1.2	9.2
5	☐	100.000	100.777	167749.85	0.3305	P	1.4	0.8
6	☐	200.000	199.561	321933.79	0.6542	P	0.9	-0.2

y = 0.0033 * x + 2.0752E-004
R = 1.0000
DL = 0.03717 ppb
BEC = 0.06333 ppb

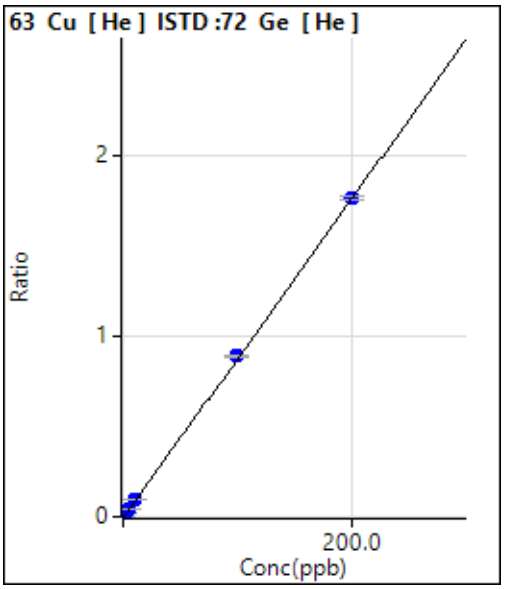
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1210.07	0.0007	P	15.7	
2	☐	2.000	2.084	18796.43	0.0108	P	3.6	4.2
3	☐	5.000	5.253	45445.21	0.0262	P	1.7	5.1
4	☐	10.000	10.539	89386.02	0.0519	P	1.3	5.4
5	☐	100.000	100.994	820408.81	0.4911	P	1.9	1.0
6	☐	200.000	199.469	1570343.62	0.9693	A	1.1	-0.3

y = 0.0049 * x + 6.9541E-004
R = 1.0000
DL = 0.06738 ppb
BEC = 0.1432 ppb

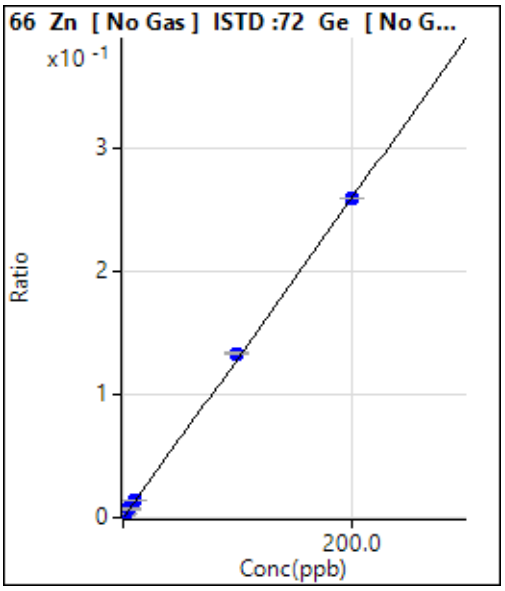
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	490.02	0.0010	P	15.2	
2	☐	2.000	2.102	10090.54	0.0196	P	2.7	5.1
3	☐	5.000	5.160	24164.77	0.0466	P	2.2	3.2
4	☐	10.000	10.561	48468.79	0.0945	P	2.4	5.6
5	☐	100.000	100.659	452889.35	0.8921	P	1.2	0.7
6	☐	200.000	199.637	870302.41	1.7685	P	1.1	-0.2

y = 0.0089 * x + 9.5232E-004
R = 1.0000
DL = 0.04906 ppb
BEC = 0.1076 ppb

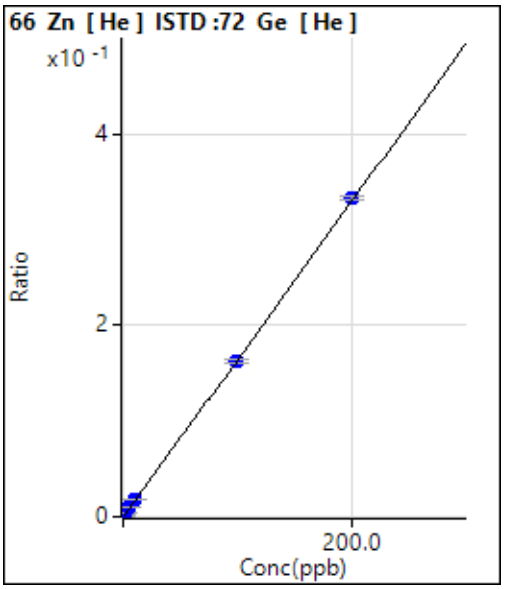
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1556.78	0.0009	P	7.9	
2	☐	2.000	2.081	6244.87	0.0036	P	2.3	4.1
3	☐	5.000	4.922	12616.00	0.0073	P	8.5	-1.6
4	☐	10.000	10.358	24679.09	0.0143	P	2.5	3.6
5	☐	100.000	101.917	222192.61	0.1330	P	1.8	1.9
6	☐	200.000	199.024	419430.32	0.2589	P	0.6	-0.5

y = 0.0013 * x + 8.9412E-004
R = 0.9999
DL = 0.1643 ppb
BEC = 0.6897 ppb

Weight: <None>
Min Conc: <None>

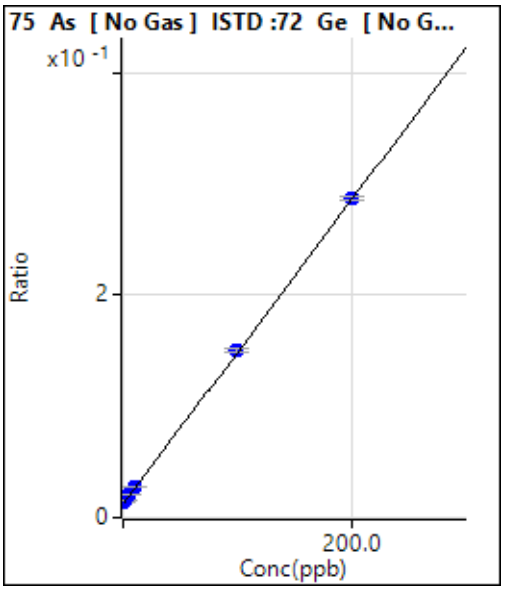


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	550.02	0.0011	P	20.1	
2	☐	2.000	1.876	2150.22	0.0042	P	4.1	-6.2
3	☐	5.000	5.226	5024.34	0.0097	P	8.7	4.5
4	☐	10.000	10.179	9169.91	0.0179	P	1.7	1.8
5	☐	100.000	97.671	82366.08	0.1623	P	2.6	-2.3
6	☐	200.000	201.151	163898.57	0.3330	P	1.2	0.6

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.391 ppb
BEC = 0.6493 ppb

Weight: <None>
Min Conc: <None>

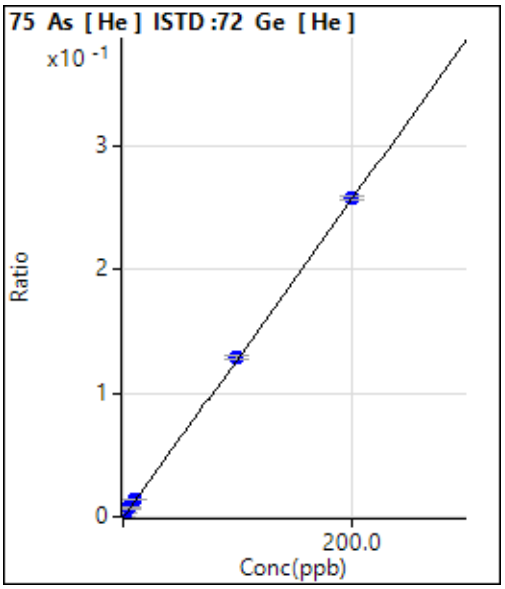
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23554.11	0.0135	P	1.5	
2	☐	2.000	1.763	27711.97	0.0159	P	0.2	-11.8
3	☐	5.000	4.735	34691.19	0.0200	P	0.8	-5.3
4	☐	10.000	10.001	46877.45	0.0272	P	0.5	0.0
5	☐	100.000	100.126	251255.67	0.1504	P	1.5	0.1
6	☐	200.000	199.946	464753.97	0.2869	P	1.1	0.0

y = 0.0014 * x + 0.0135
R = 1.0000
DL = 0.4394 ppb
BEC = 9.897 ppb

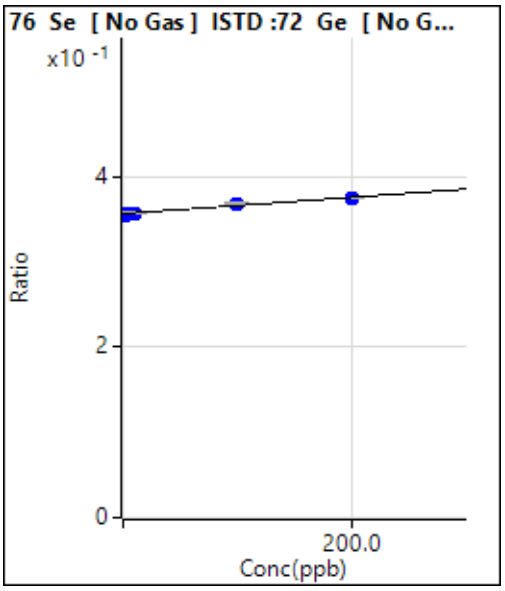
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	171.11	0.0003	P	32.7	
2	☐	2.000	1.910	1438.97	0.0028	P	2.8	-4.5
3	☐	5.000	5.183	3626.05	0.0070	P	5.1	3.7
4	☐	10.000	10.333	6988.48	0.0136	P	1.1	3.3
5	☐	100.000	99.975	65417.87	0.1289	P	1.7	0.0
6	☐	200.000	199.992	126703.49	0.2575	P	1.3	0.0

y = 0.0013 * x + 3.3353E-004
R = 1.0000
DL = 0.2548 ppb
BEC = 0.2594 ppb

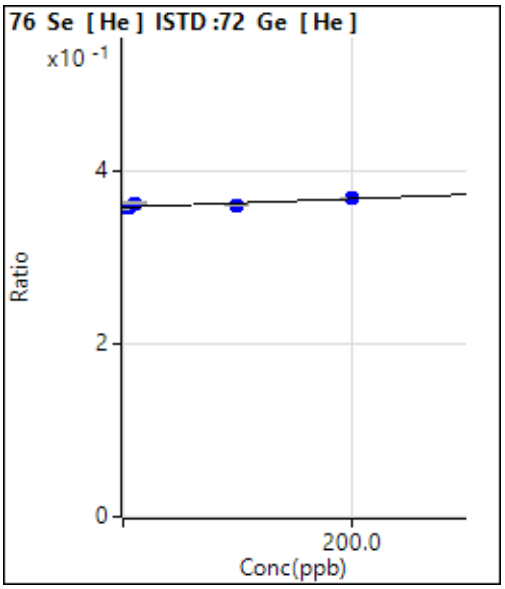
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	620746.98	0.3566	P	0.7	
2	☐	2.000	-16.180	617139.69	0.3550	P	0.5	-909.0
3	☐	5.000	1.588	618669.44	0.3567	P	0.3	-68.2
4	☐	10.000	3.513	615030.53	0.3569	P	0.5	-64.9
5	☐	100.000	127.602	616172.95	0.3689	P	0.4	27.6
6	☐	200.000	186.791	606831.40	0.3746	P	0.6	-6.6

y = 9.6464E-005 * x + 0.3566
R = 0.9822
DL = 73.71 ppb
BEC = 3696 ppb

Weight: <None>
Min Conc: <None>

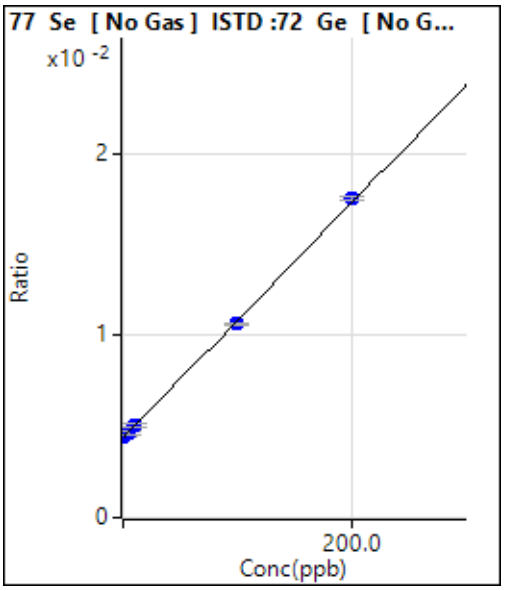


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	184261.38	0.3585	P	0.8	
2	☐	2.000	9.971	185182.72	0.3590	P	0.7	398.5
3	☐	5.000	12.707	186088.79	0.3591	P	1.5	154.1
4	☐	10.000	97.701	186422.65	0.3633	P	1.0	877.0
5	☐	100.000	53.699	183334.65	0.3611	P	0.3	-46.3
6	☐	200.000	218.493	181712.84	0.3693	P	0.3	9.2

y = 4.9310E-005 * x + 0.3585
R = 0.8629
DL = 168.1 ppb
BEC = 7270 ppb

Weight: <None>
Min Conc: <None>

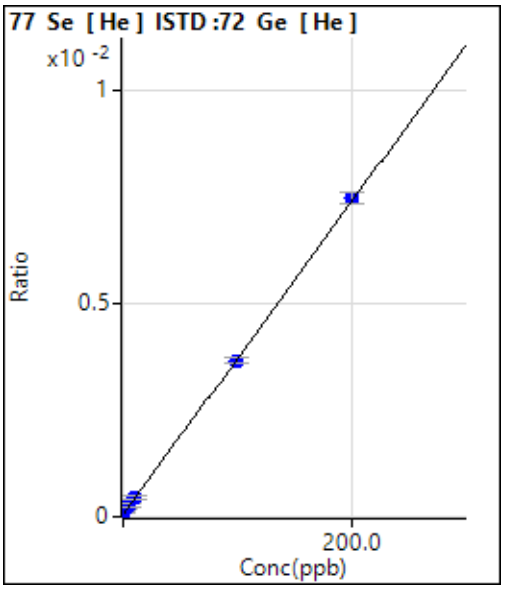
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7802.35	0.0045	P	2.9	
2	☐	2.000	0.366	7832.39	0.0045	P	1.8	-81.7
3	☐	5.000	2.954	8102.55	0.0047	P	3.4	-40.9
4	☐	10.000	9.181	8743.01	0.0051	P	2.7	-8.2
5	☐	100.000	95.244	17741.75	0.0106	P	0.6	-4.8
6	☐	200.000	202.486	28406.57	0.0175	P	1.4	1.2

y = 6.4464E-005 * x + 0.0045
R = 0.9996
DL = 6.115 ppb
BEC = 69.52 ppb

Weight: <None>
Min Conc: <None>

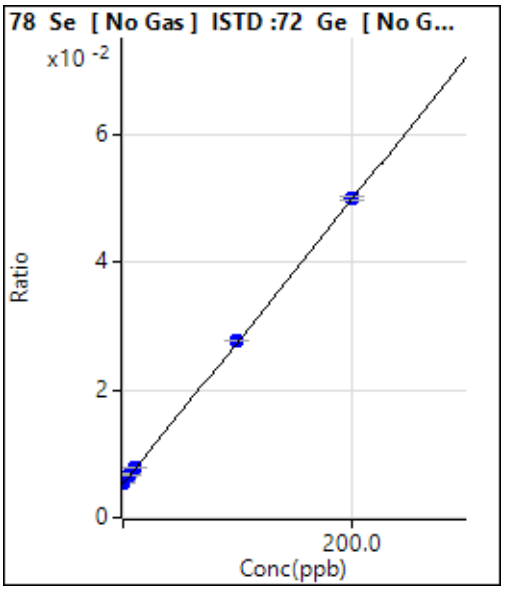


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0001	P	49.4	
2	☐	2.000	2.812	100.00	0.0002	P	9.9	40.6
3	☐	5.000	5.068	143.33	0.0003	P	21.2	1.4
4	☐	10.000	9.382	223.34	0.0004	P	19.3	-6.2
5	☐	100.000	97.466	1860.17	0.0037	P	2.7	-2.5
6	☐	200.000	201.288	3677.23	0.0075	P	4.0	0.6

y = 3.6666E-005 * x + 9.0732E-005
R = 0.9999
DL = 3.666 ppb
BEC = 2.475 ppb

Weight: <None>
Min Conc: <None>

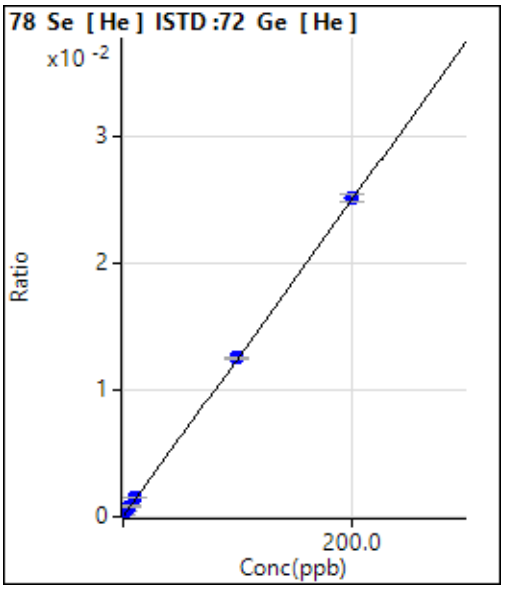
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9623.58	0.0055	P	2.7	
2	☐	2.000	3.936	11128.10	0.0064	P	6.3	96.8
3	☐	5.000	5.524	11715.22	0.0068	P	0.6	10.5
4	☐	10.000	10.672	13610.34	0.0079	P	1.1	6.7
5	☐	100.000	99.859	46275.31	0.0277	P	0.2	-0.1
6	☐	200.000	200.004	80906.15	0.0499	P	1.5	0.0

y = 2.2206E-004 * x + 0.0055
R = 1.0000
DL = 2.03 ppb
BEC = 24.9 ppb

Weight: <None>
Min Conc: <None>

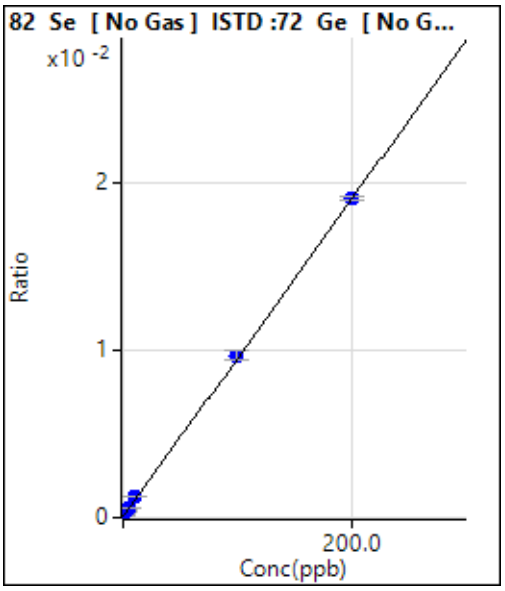


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73.33	0.0001	P	4.4	
2	☐	2.000	2.330	223.33	0.0004	P	8.6	16.5
3	☐	5.000	5.517	430.01	0.0008	P	7.4	10.3
4	☐	10.000	10.547	747.35	0.0015	P	1.9	5.5
5	☐	100.000	99.188	6344.16	0.0125	P	1.5	-0.8
6	☐	200.000	200.362	12352.94	0.0251	P	2.7	0.2

y = 1.2456E-004 * x + 1.4262E-004
R = 1.0000
DL = 0.1515 ppb
BEC = 1.145 ppb

Weight: <None>
Min Conc: <None>

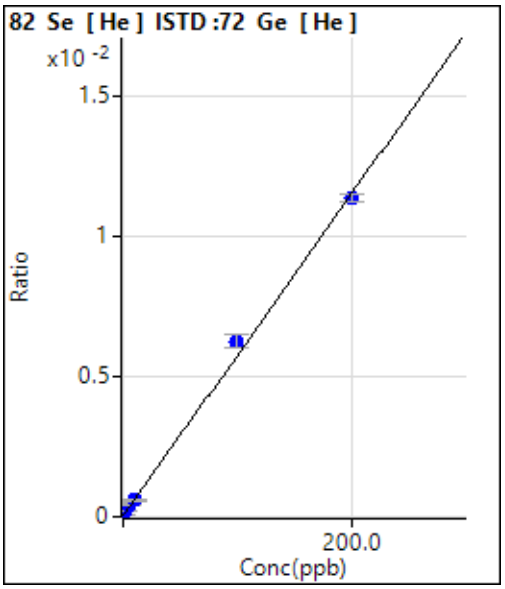
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0002	P	30.3	
2	☐	2.000	2.386	656.70	0.0004	P	16.6	19.3
3	☐	5.000	4.677	1033.39	0.0006	P	6.4	-6.5
4	☐	10.000	11.576	2156.88	0.0013	P	4.6	15.8
5	☐	100.000	100.738	16249.98	0.0097	P	5.8	0.7
6	☐	200.000	199.557	30982.30	0.0191	P	1.1	-0.2

y = 9.5077E-005 * x + 1.5117E-004
R = 1.0000
DL = 1.444 ppb
BEC = 1.59 ppb

Weight: <None>
Min Conc: <None>

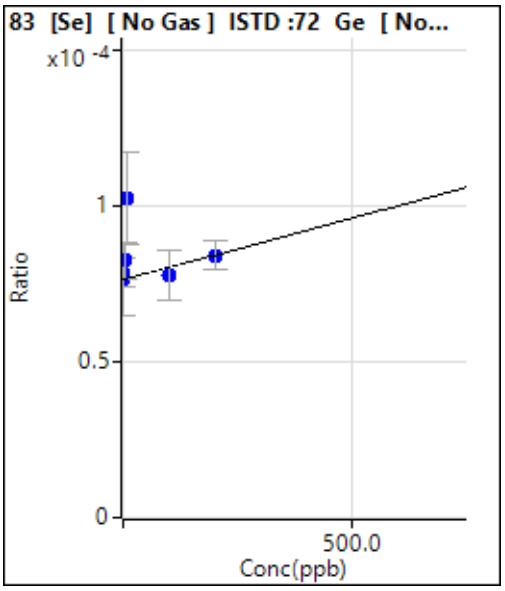


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	26.5	
2	☐	2.000	2.357	113.33	0.0002	P	13.7	17.9
3	☐	5.000	6.261	230.01	0.0004	P	26.6	25.2
4	☐	10.000	8.932	306.68	0.0006	P	15.2	-10.7
5	☐	100.000	107.496	3177.11	0.0063	P	7.6	7.5
6	☐	200.000	196.270	5591.25	0.0114	P	2.0	-1.9

y = 5.7459E-005 * x + 8.4280E-005
R = 0.9990
DL = 1.166 ppb
BEC = 1.467 ppb

Weight: <None>
Min Conc: <None>

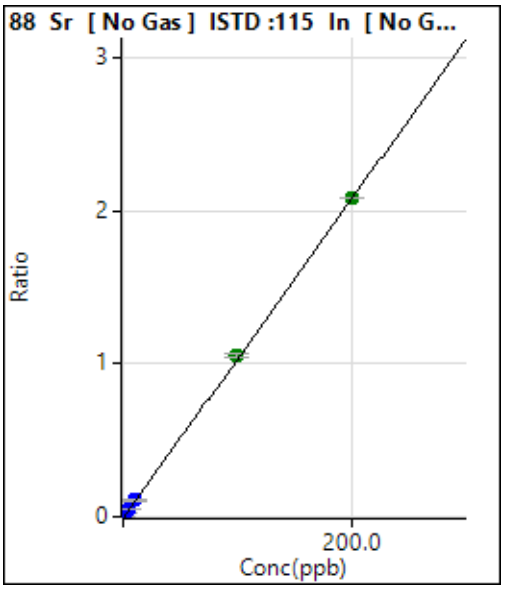
Calibration for 245_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.33	0.0001	P	29.8	
2	☐	2.000	53.963	136.67	0.0001	P	11.9	2598.1
3	☐	5.000	153.632	143.34	0.0001	P	14.3	2972.6
4	☐	10.000	655.357	176.67	0.0001	P	28.8	6453.6
5	☐	100.000	32.849	130.00	0.0001	P	20.3	-67.2
6	☐	200.000	197.072	136.67	0.0001	P	11.1	-1.5

y = 3.9785E-008 * x + 7.6515E-005
R = -0.0765
DL = 1719 ppb
BEC = 1923 ppb

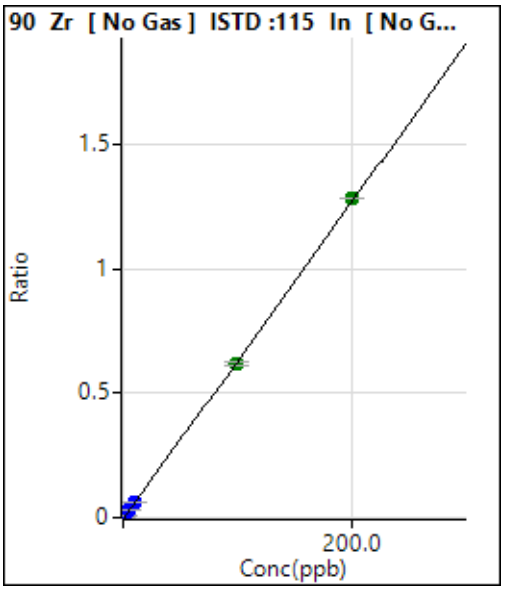
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2263.57	0.0008	P	8.2	
2	☐	2.000	1.970	60073.19	0.0214	P	1.9	-1.5
3	☐	5.000	5.039	149433.19	0.0534	P	1.7	0.8
4	☐	10.000	10.201	299029.08	0.1073	P	1.8	2.0
5	☐	100.000	100.657	2852159.33	1.0517	A	2.1	0.7
6	☐	200.000	199.661	5494751.79	2.0853	A	0.6	-0.2

y = 0.0104 * x + 8.0838E-004
R = 1.0000
DL = 0.01909 ppb
BEC = 0.07743 ppb

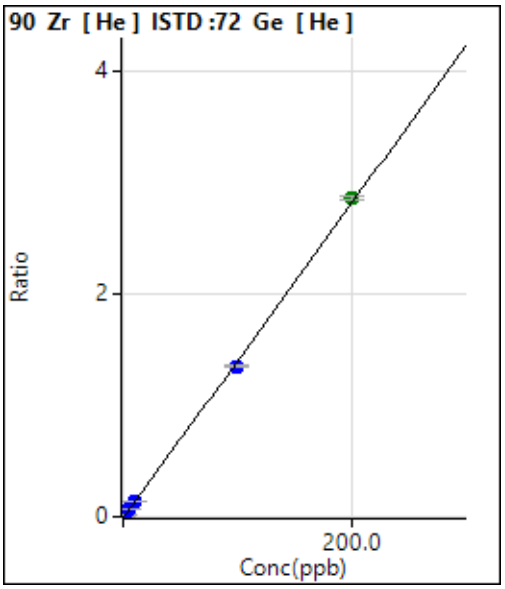
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	673.36	0.0002	P	19.8	
2	☐	2.000	1.619	29719.53	0.0106	P	1.4	-19.0
3	☐	5.000	4.463	80361.21	0.0287	P	2.4	-10.7
4	☐	10.000	9.488	169429.51	0.0608	P	1.3	-5.1
5	☐	100.000	97.196	1682987.22	0.6206	A	2.2	-2.8
6	☐	200.000	201.445	3388336.09	1.2859	A	0.4	0.7

y = 0.0064 * x + 2.4044E-004
R = 0.9999
DL = 0.02243 ppb
BEC = 0.03767 ppb

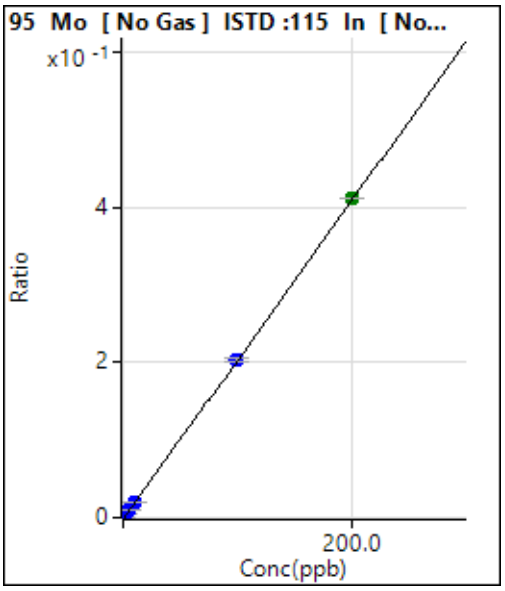
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	930.05	0.0018	P	10.3	
2	☐	2.000	1.581	12482.65	0.0242	P	1.8	-20.9
3	☐	5.000	4.329	32699.95	0.0631	P	2.9	-13.4
4	☐	10.000	9.537	70228.71	0.1369	P	1.0	-4.6
5	☐	100.000	95.473	687214.86	1.3537	P	1.6	-4.5
6	☐	200.000	202.308	1410682.16	2.8666	A	0.8	1.2

y = 0.0142 * x + 0.0018
R = 0.9997
DL = 0.03961 ppb
BEC = 0.1277 ppb

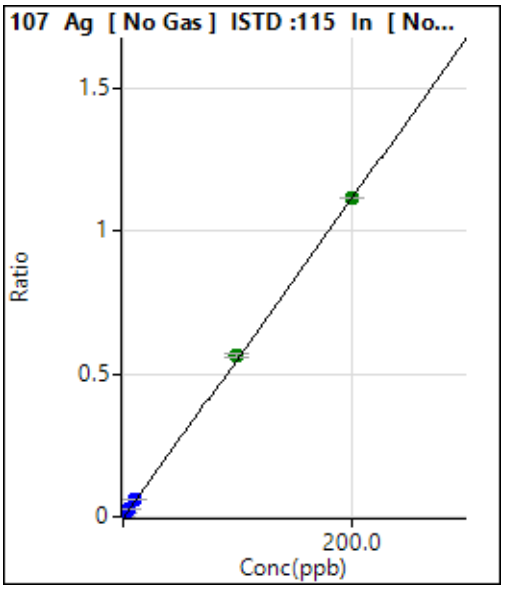
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0000	P	59.9	
2	☐	2.000	1.912	11098.07	0.0039	P	2.1	-4.4
3	☐	5.000	4.852	27939.22	0.0100	P	4.1	-3.0
4	☐	10.000	9.963	57087.48	0.0205	P	1.6	-0.4
5	☐	100.000	98.978	551366.78	0.2033	P	1.5	-1.0
6	☐	200.000	200.517	1085214.26	0.4119	A	0.1	0.3

y = 0.0021 * x + 2.2662E-005
R = 1.0000
DL = 0.01984 ppb
BEC = 0.01103 ppb

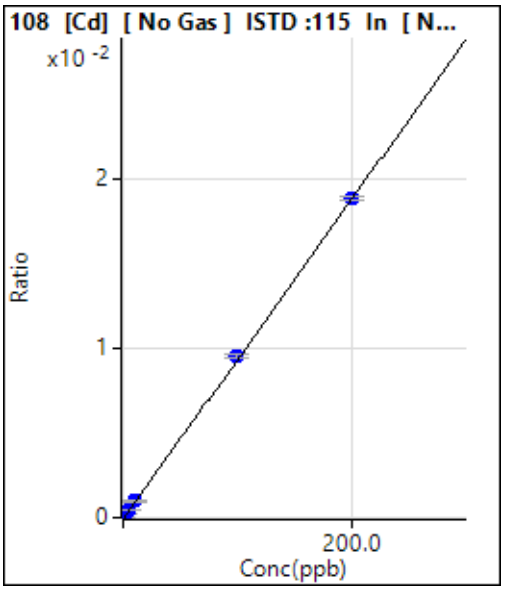
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	213.34	0.0001	P	38.0	
2	☐	2.000	2.006	31741.26	0.0113	P	1.8	0.3
3	☐	5.000	5.116	80249.64	0.0287	P	2.8	2.3
4	☐	10.000	10.516	164092.89	0.0589	P	0.6	5.2
5	☐	100.000	101.043	1532571.90	0.5651	A	1.9	1.0
6	☐	200.000	199.450	2939070.79	1.1154	A	0.3	-0.3

y = 0.0056 * x + 7.6203E-005
R = 1.0000
DL = 0.01552 ppb
BEC = 0.01363 ppb

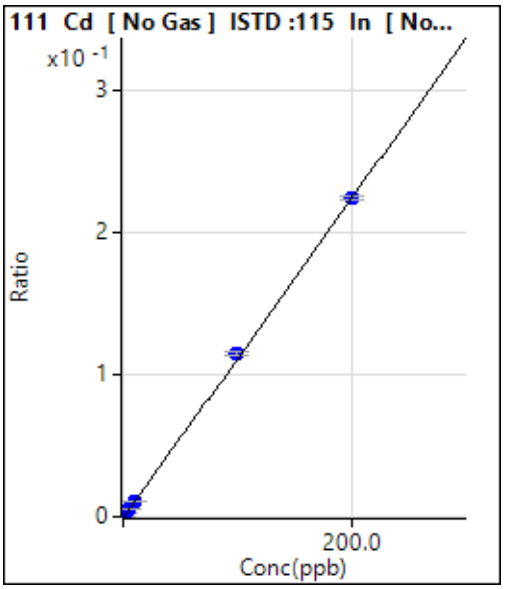
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	100.1	
2	☐	2.000	2.019	546.69	0.0002	P	8.6	1.0
3	☐	5.000	5.116	1363.43	0.0005	P	8.1	2.3
4	☐	10.000	10.325	2730.34	0.0010	P	12.9	3.2
5	☐	100.000	100.541	25795.29	0.0095	P	2.4	0.5
6	☐	200.000	199.710	49776.28	0.0189	P	1.8	-0.1

y = 9.4571E-005 * x + 3.5823E-006
R = 1.0000
DL = 0.1137 ppb
BEC = 0.03788 ppb

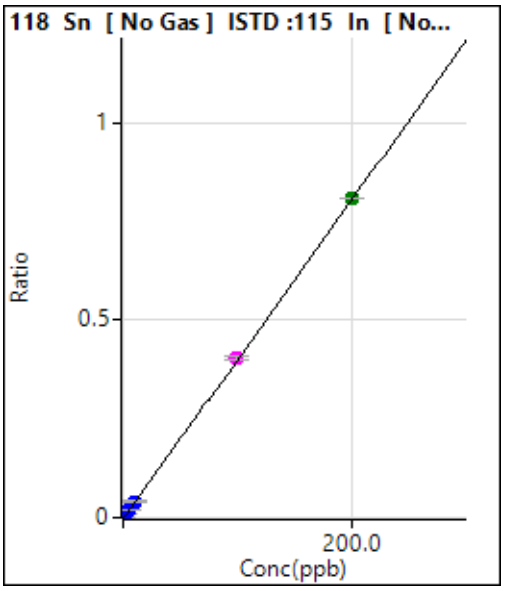
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-10.73	0.0000	P	-100.	
2	☐	2.000	2.010	6345.31	0.0023	P	7.4	0.5
3	☐	5.000	4.954	15584.85	0.0056	P	7.9	-0.9
4	☐	10.000	10.113	31702.18	0.0114	P	0.7	1.1
5	☐	100.000	101.481	309669.40	0.1142	P	2.4	1.5
6	☐	200.000	199.255	590770.71	0.2242	P	1.0	-0.4

y = 0.0011 * x - 3.8438E-006
R = 1.0000
DL = 0.01025 ppb
BEC = -0.003416 ppb

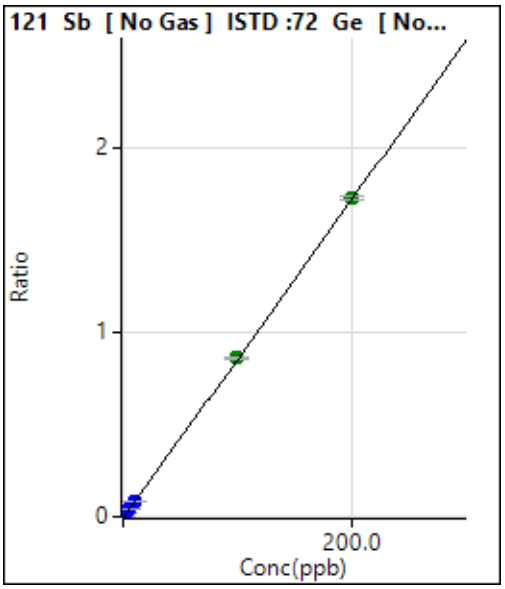
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2506.96	0.0009	P	7.4	
2	☐	2.000	1.967	24830.17	0.0088	P	1.8	-1.7
3	☐	5.000	4.907	57926.11	0.0207	P	2.5	-1.9
4	☐	10.000	9.986	114829.83	0.0412	P	2.8	-0.1
5	☐	100.000	99.805	1095066.44	0.4038	M	1.9	-0.2
6	☐	200.000	200.101	2130819.97	0.8087	A	0.4	0.1

y = 0.0040 * x + 8.9546E-004
R = 1.0000
DL = 0.04892 ppb
BEC = 0.2218 ppb

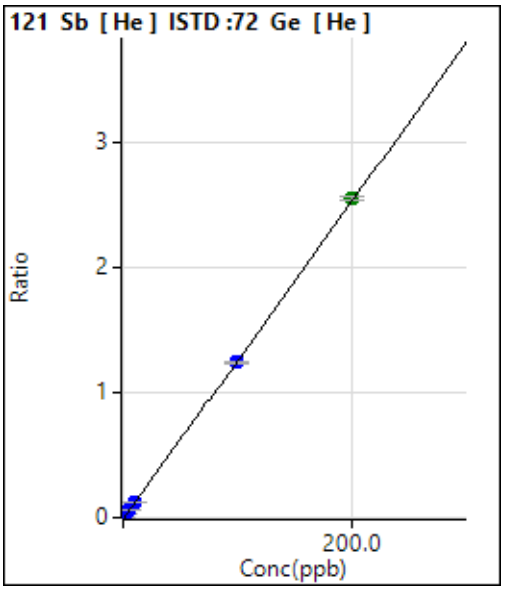
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	403.35	0.0002	P	18.8	
2	☐	2.000	1.922	29192.41	0.0168	P	2.3	-3.9
3	☐	5.000	4.888	73459.44	0.0424	P	2.0	-2.2
4	☐	10.000	10.032	149396.74	0.0867	P	1.3	0.3
5	☐	100.000	99.796	1437131.07	0.8603	A	1.5	-0.2
6	☐	200.000	200.104	2794363.50	1.7249	A	1.2	0.1

y = 0.0086 * x + 2.3157E-004
R = 1.0000
DL = 0.01518 ppb
BEC = 0.02687 ppb

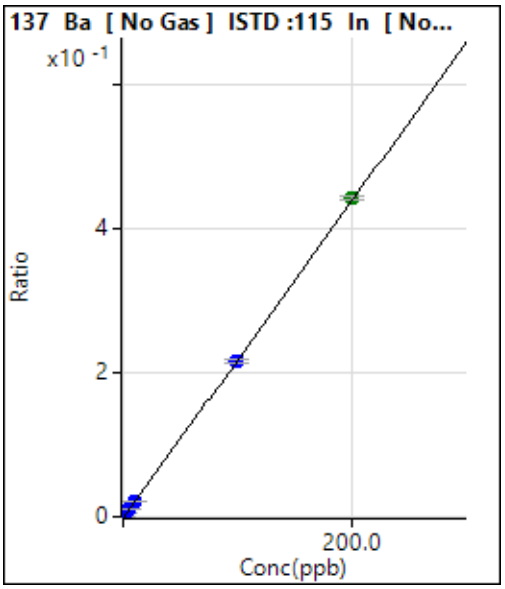
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0003	P	13.9	
2	☐	2.000	1.886	12536.22	0.0243	P	5.1	-5.7
3	☐	5.000	4.748	31447.56	0.0607	P	1.7	-5.0
4	☐	10.000	10.028	65588.77	0.1278	P	1.1	0.3
5	☐	100.000	97.794	631232.70	1.2435	P	1.8	-2.2
6	☐	200.000	201.109	1258280.01	2.5569	A	0.9	0.6

y = 0.0127 * x + 3.2390E-004
R = 0.9999
DL = 0.01065 ppb
BEC = 0.02548 ppb

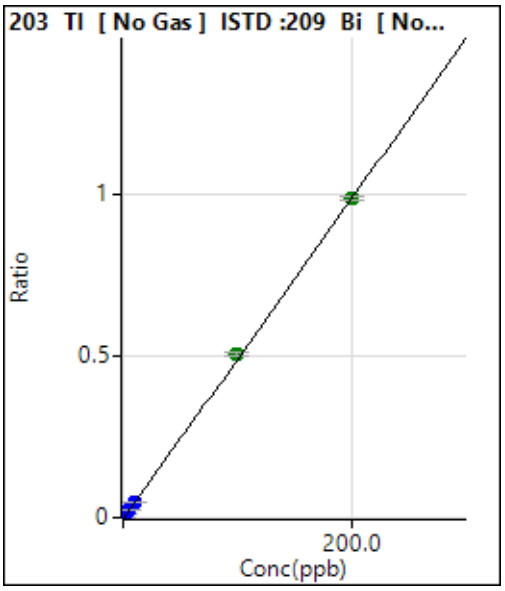
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	693.36	0.0002	P	3.6	
2	☐	2.000	1.864	12225.89	0.0044	P	1.8	-6.8
3	☐	5.000	4.862	30636.03	0.0110	P	1.7	-2.8
4	☐	10.000	9.901	61430.28	0.0220	P	3.3	-1.0
5	☐	100.000	97.916	585228.18	0.2158	P	1.7	-2.1
6	☐	200.000	201.052	1166860.63	0.4428	A	0.7	0.5

y = 0.0022 * x + 2.4770E-004
R = 0.9999
DL = 0.01231 ppb
BEC = 0.1125 ppb

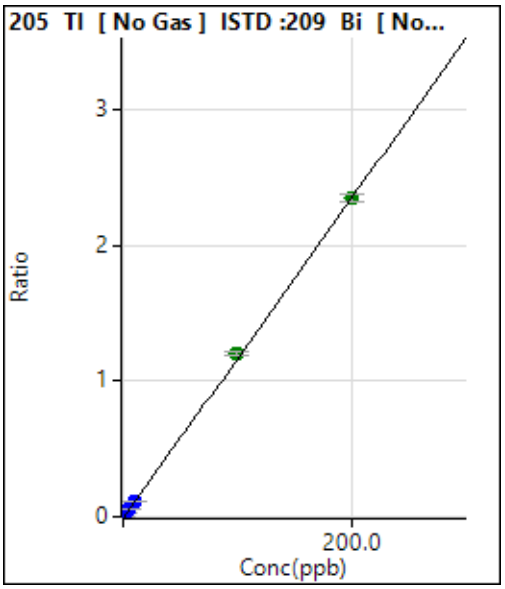
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	143.34	0.0000	P	38.0	
2	☐	2.000	2.145	36690.35	0.0107	P	2.3	7.2
3	☐	5.000	5.168	87884.74	0.0257	P	2.3	3.4
4	☐	10.000	9.962	170357.50	0.0496	P	1.7	-0.4
5	☐	100.000	101.631	1685249.19	0.5052	A	2.6	1.6
6	☐	200.000	199.181	3222455.57	0.9902	A	1.5	-0.4

y = 0.0050 * x + 4.1690E-005
R = 1.0000
DL = 0.009571 ppb
BEC = 0.008387 ppb

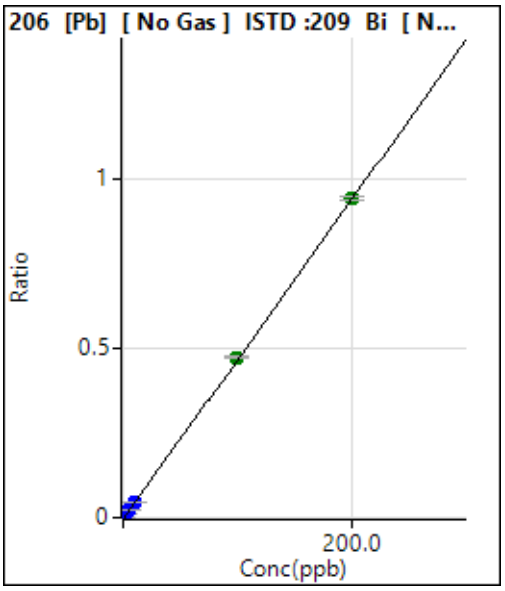
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0001	P	9.2	
2	☐	2.000	2.110	85609.75	0.0250	P	4.1	5.5
3	☐	5.000	5.173	208749.78	0.0611	P	2.1	3.5
4	☐	10.000	10.028	406996.01	0.1184	P	1.4	0.3
5	☐	100.000	101.752	4004801.82	1.2007	A	2.0	1.8
6	☐	200.000	199.117	7646193.01	2.3495	A	1.8	-0.4

y = 0.0118 * x + 8.0646E-005
R = 0.9999
DL = 0.001891 ppb
BEC = 0.006835 ppb

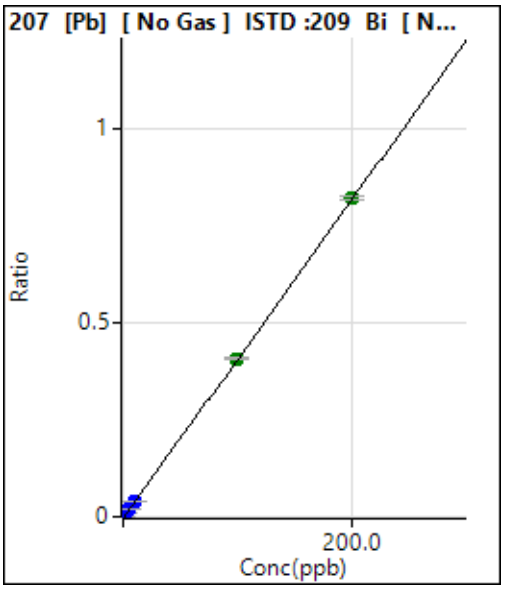
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.02	0.0001	P	24.3	
2	☐	2.000	1.966	32258.31	0.0094	P	1.8	-1.7
3	☐	5.000	4.913	79684.25	0.0233	P	1.3	-1.7
4	☐	10.000	9.934	161711.00	0.0470	P	2.6	-0.7
5	☐	100.000	100.362	1581460.96	0.4741	A	1.4	0.4
6	☐	200.000	199.825	3071924.43	0.9439	A	1.2	-0.1

y = 0.0047 * x + 1.2798E-004
R = 1.0000
DL = 0.01977 ppb
BEC = 0.0271 ppb

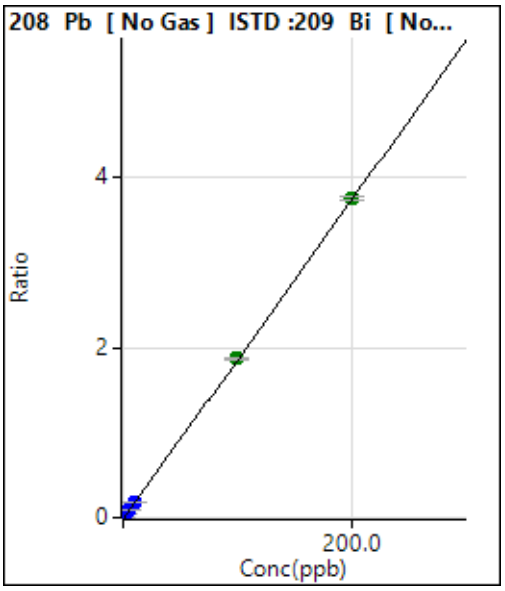
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.68	0.0001	P	7.7	
2	☐	2.000	1.989	28245.21	0.0082	P	1.1	-0.6
3	☐	5.000	4.942	69471.25	0.0203	P	1.7	-1.2
4	☐	10.000	10.055	141926.37	0.0413	P	0.8	0.6
5	☐	100.000	99.448	1359347.43	0.4075	A	1.4	-0.6
6	☐	200.000	200.275	2670719.23	0.8206	A	1.1	0.1

y = 0.0041 * x + 9.2239E-005
R = 1.0000
DL = 0.005176 ppb
BEC = 0.02251 ppb

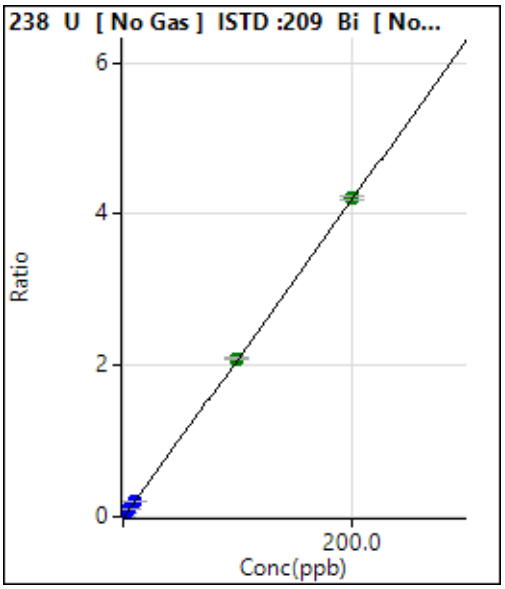
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1676.74	0.0005	P	8.1	
2	☐	2.000	1.966	128209.23	0.0374	P	2.3	-1.7
3	☐	5.000	4.957	319631.56	0.0936	P	1.8	-0.9
4	☐	10.000	10.060	651087.94	0.1894	P	1.4	0.6
5	☐	100.000	99.864	6257181.15	1.8759	A	1.4	-0.1
6	☐	200.000	200.066	12229555.23	3.7577	A	1.1	0.0

y = 0.0188 * x + 4.8831E-004
R = 1.0000
DL = 0.006282 ppb
BEC = 0.026 ppb

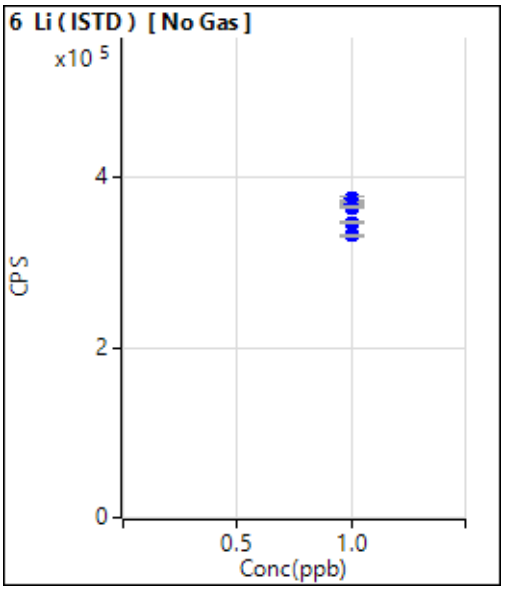
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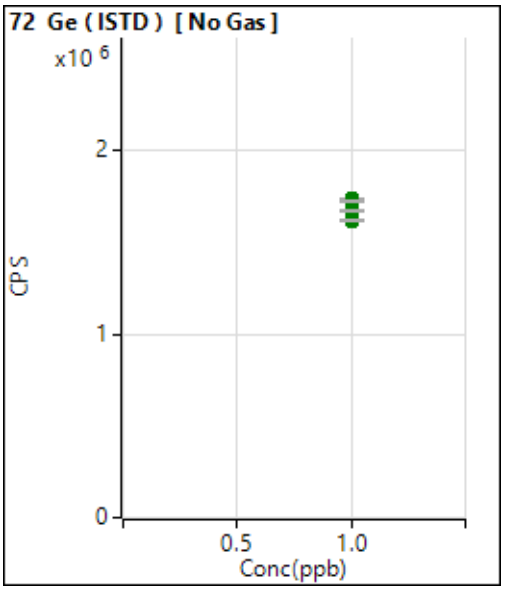
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	693.37	0.0002	P	14.1	
2	☐	2.000	1.841	133404.32	0.0389	P	2.8	-8.0
3	☐	5.000	4.668	336062.00	0.0984	P	2.0	-6.6
4	☐	10.000	9.486	686648.56	0.1998	P	1.6	-5.1
5	☐	100.000	99.302	6968497.61	2.0892	A	0.7	-0.7
6	☐	200.000	200.385	13719616.88	4.2156	A	1.2	0.2

y = 0.0210 * x + 2.0211E-004
R = 1.0000
DL = 0.004063 ppb
BEC = 0.009608 ppb

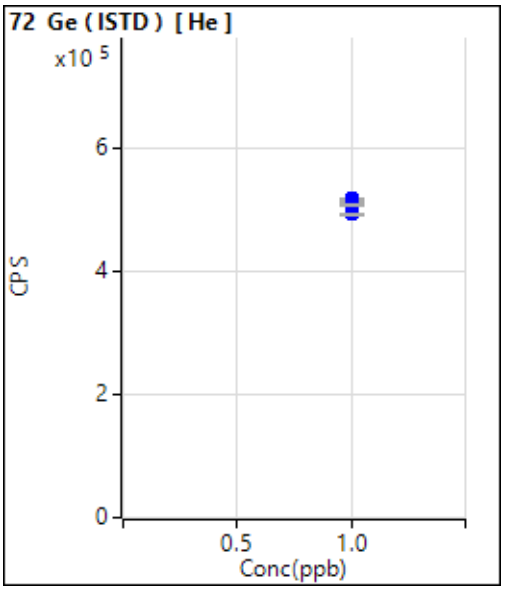
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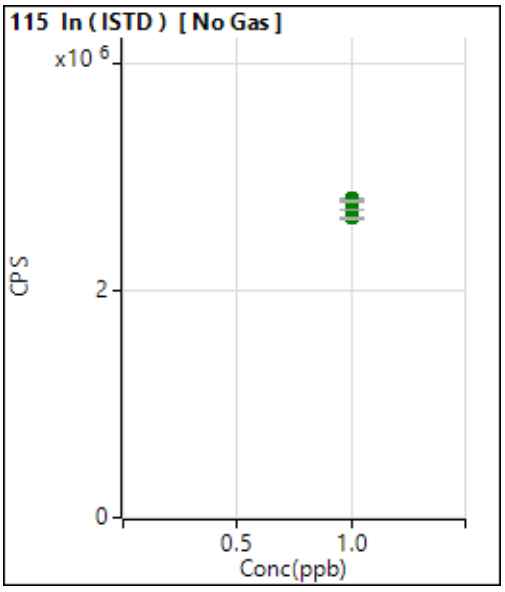
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		375545.86		P	0.7	
2	☐	1.000		370459.99		P	0.4	
3	☐	1.000		369364.72		P	1.2	
4	☐	1.000		365340.52		P	0.6	
5	☐	1.000		346983.29		P	0.6	
6	☐	1.000		331810.02		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1740970.13		A	0.5	
2	☐	1.000		1738465.55		A	0.9	
3	☐	1.000		1734354.56		A	0.3	
4	☐	1.000		1723288.15		A	0.4	
5	☐	1.000		1670427.21		A	0.5	
6	☐	1.000		1620036.54		A	0.1	

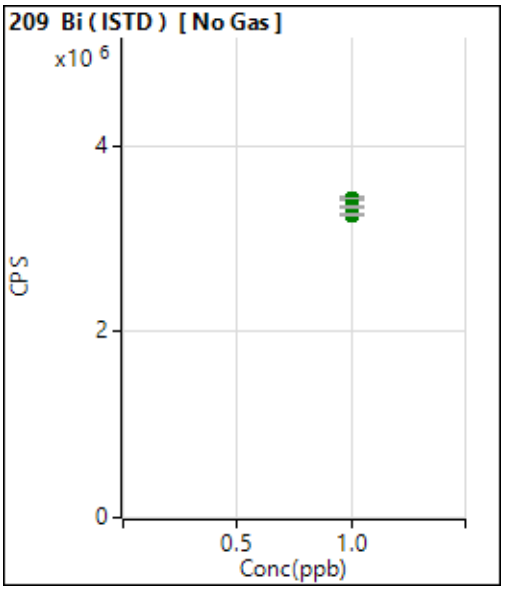


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		514002.11		P	1.3	
2	☐	1.000		515866.93		P	0.3	
3	☐	1.000		518203.58		P	0.2	
4	☐	1.000		513151.11		P	0.9	
5	☐	1.000		507673.23		P	0.9	
6	☐	1.000		492101.76		P	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2799462.89		A	0.5	
2	☐	1.000		2810325.67		A	0.1	
3	☐	1.000		2797574.52		A	0.2	
4	☐	1.000		2786834.01		A	0.3	
5	☐	1.000		2711989.03		A	0.2	
6	☐	1.000		2634933.38		A	0.4	

Calibration for 245_ICV.d

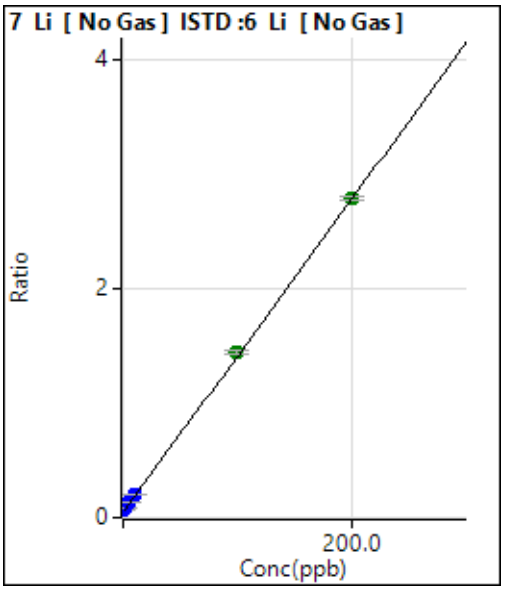


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3432725.99		A	1.0	
2	☐	1.000		3427876.41		A	0.8	
3	☐	1.000		3415552.03		A	0.5	
4	☐	1.000		3437419.01		A	0.2	
5	☐	1.000		3335584.22		A	0.7	
6	☐	1.000		3254629.74		A	0.5	

Calibration for 209_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

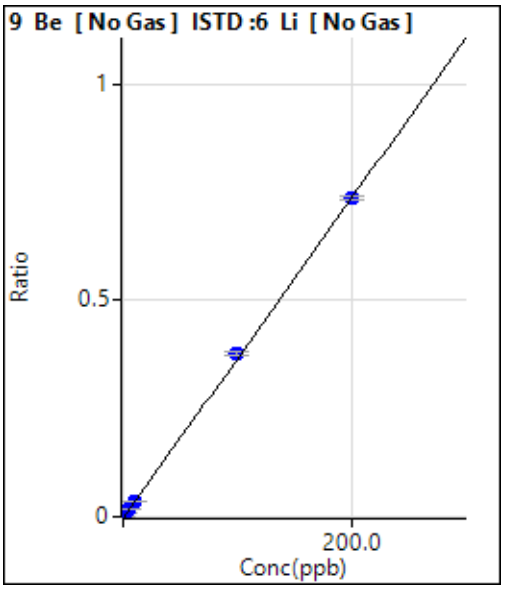
Level	Standard Data File	Sample Name	Acq. Date-Time
1	202CALB.d	CAL BLK	7/1/2024 8:44:27 PM
2	203CALS.d	2/10/200	7/1/2024 8:46:59 PM
3	204CALS.d	5/25/500	7/1/2024 8:49:30 PM
4	205CALS.d	10/50/100	7/1/2024 8:52:01 PM
5	206CALS.d	100/500/10K	7/1/2024 8:54:32 PM
6	207CALS.d	200/1000/20K	7/1/2024 8:57:03 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41349.69	0.0612	P	1.8	
2	☐	2.000	1.933	57328.04	0.0875	P	0.9	-3.4
3	☐	5.000	4.976	83859.88	0.1291	P	0.3	-0.5
4	☐	10.000	10.029	125847.80	0.1980	P	0.4	0.3
5	☐	100.000	100.836	850622.31	1.4375	A	2.1	0.8
6	☐	200.000	199.582	1563797.94	2.7854	A	0.8	-0.2

y = 0.0136 * x + 0.0612
R = 1.0000
DL = 0.2441 ppb
BEC = 4.481 ppb

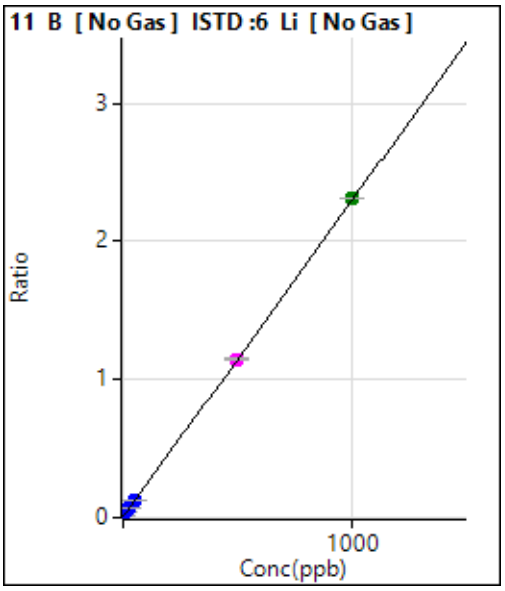
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0000	P	46.8	
2	☐	2.000	1.997	4872.54	0.0074	P	7.6	-0.2
3	☐	5.000	4.787	11544.77	0.0178	P	3.8	-4.3
4	☐	10.000	9.962	23461.04	0.0369	P	2.0	-0.4
5	☐	100.000	101.955	223311.55	0.3774	P	1.9	2.0
6	☐	200.000	199.029	413586.74	0.7367	P	0.8	-0.5

y = 0.0037 * x + 4.9437E-005
R = 0.9999
DL = 0.01874 ppb
BEC = 0.01336 ppb

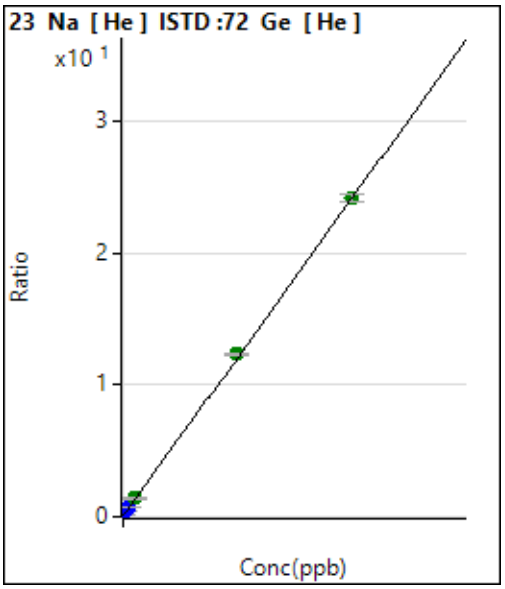
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10659.44	0.0158	P	3.4	
2	☐	10.000	8.977	23774.90	0.0363	P	1.5	-10.2
3	☐	25.000	23.099	44577.94	0.0686	P	0.3	-7.6
4	☐	50.000	48.314	80263.19	0.1263	P	1.2	-3.4
5	☐	500.000	493.326	677205.15	1.1444	M	1.5	-1.3
6	☐	1000.000	1003.479	1297792.19	2.3116	A	0.2	0.3

y = 0.0023 * x + 0.0158
R = 1.0000
DL = 0.7123 ppb
BEC = 6.892 ppb

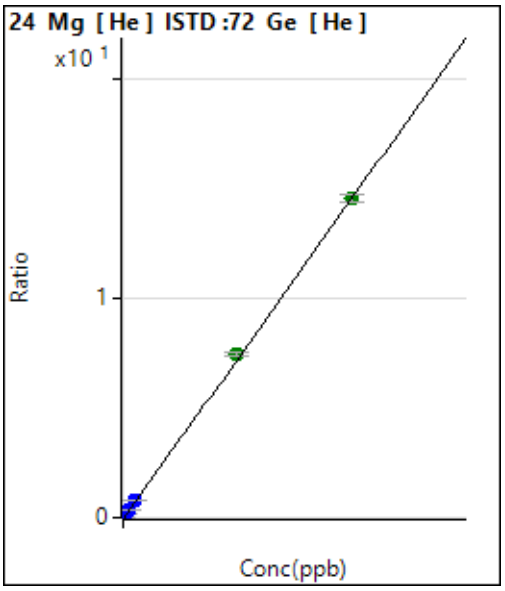
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140843.03	0.1722	P	1.5	
2	☐	200.000	186.633	322805.45	0.3969	P	0.2	-6.7
3	☐	500.000	479.846	607865.42	0.7499	P	0.8	-4.0
4	☐	1000.000	1008.011	1106405.71	1.3858	A	1.3	0.8
5	☐	10000.00	10114.06	9574453.19	12.3487	A	1.6	1.1
6	☐	20000.00	19943.20	18149792.65	24.1821	A	2.0	-0.3

y = 0.0012 * x + 0.1722
R = 1.0000
DL = 6.429 ppb
BEC = 143 ppb

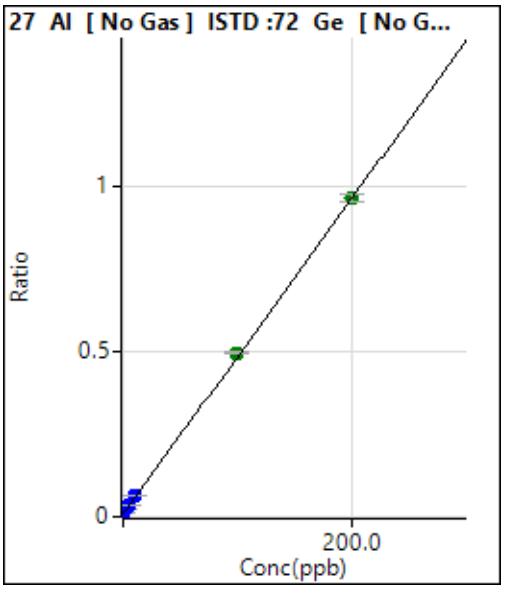
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2980.92	0.0036	P	22.5	
2	☐	200.000	201.785	123059.12	0.1513	P	1.1	0.9
3	☐	500.000	502.648	301114.95	0.3715	P	0.8	0.5
4	☐	1000.000	1039.926	610481.59	0.7646	P	1.5	4.0
5	☐	10000.00	10165.77	5770524.29	7.4426	A	1.8	1.7
6	☐	20000.00	19915.03	10940753.59	14.5767	A	1.8	-0.4

y = 7.3176E-004 * x + 0.0036
R = 1.0000
DL = 3.368 ppb
BEC = 4.979 ppb

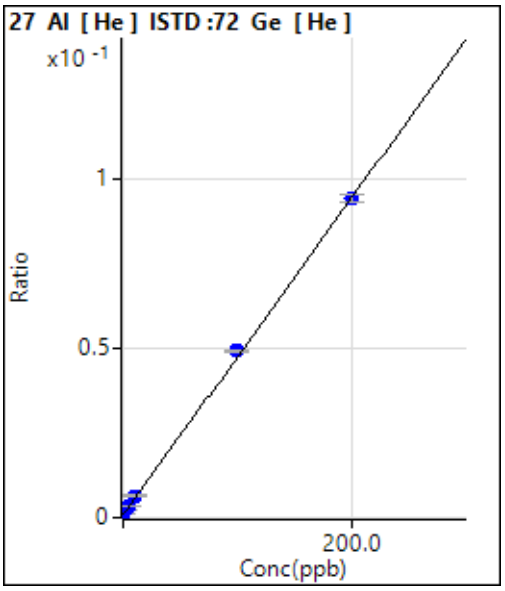
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35946.06	0.0128	P	1.8	
2	☐	2.000	2.084	63761.00	0.0227	P	0.6	4.2
3	☐	5.000	4.781	98781.12	0.0356	P	2.3	-4.4
4	☐	10.000	10.377	171432.97	0.0624	P	1.4	3.8
5	☐	100.000	101.236	1316379.05	0.4967	A	1.0	1.2
6	☐	200.000	199.368	2442972.46	0.9658	A	2.0	-0.3

y = 0.0048 * x + 0.0128
R = 1.0000
DL = 0.1446 ppb
BEC = 2.668 ppb

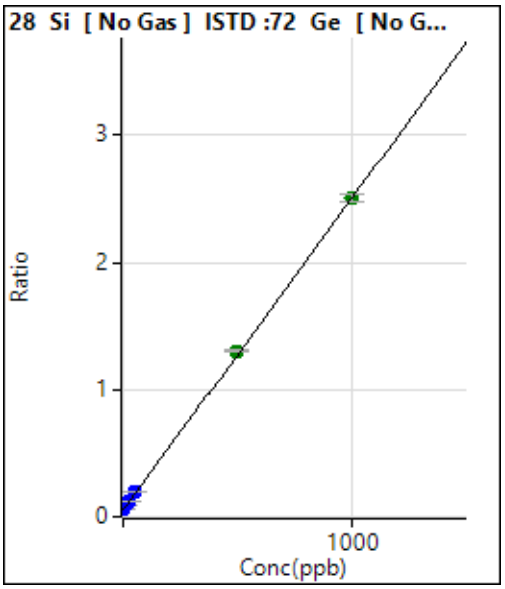
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1056.73	0.0013	P	2.8	
2	☐	2.000	1.667	1686.80	0.0021	P	4.3	-16.6
3	☐	5.000	5.003	2950.37	0.0036	P	2.0	0.1
4	☐	10.000	10.870	5104.36	0.0064	P	5.0	8.7
5	☐	100.000	102.453	38279.02	0.0494	P	0.9	2.5
6	☐	200.000	198.733	70968.50	0.0945	P	2.5	-0.6

y = 4.6926E-004 * x + 0.0013
R = 0.9999
DL = 0.2276 ppb
BEC = 2.753 ppb

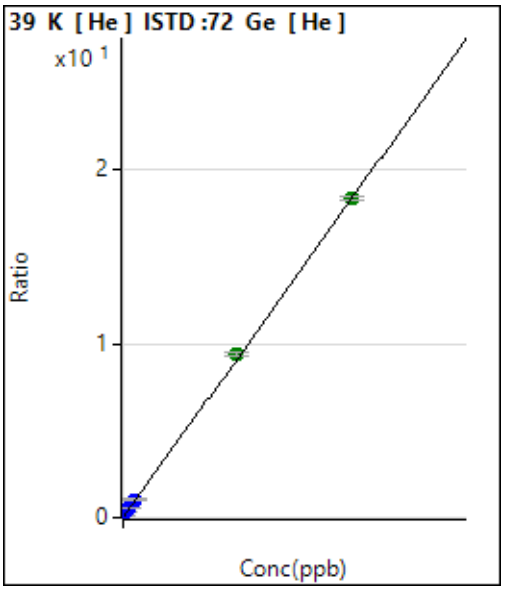
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	182272.70	0.0647	P	1.2	
2	☐	10.000	9.957	249973.26	0.0891	P	0.6	-0.4
3	☐	25.000	25.175	350490.13	0.1263	P	1.0	0.7
4	☐	50.000	51.795	526562.09	0.1916	P	1.1	3.6
5	☐	500.000	506.071	3456666.51	1.3043	A	0.5	1.2
6	☐	1000.000	996.871	6339958.87	2.5065	A	2.1	-0.3

y = 0.0024 * x + 0.0647
R = 1.0000
DL = 0.9229 ppb
BEC = 26.41 ppb

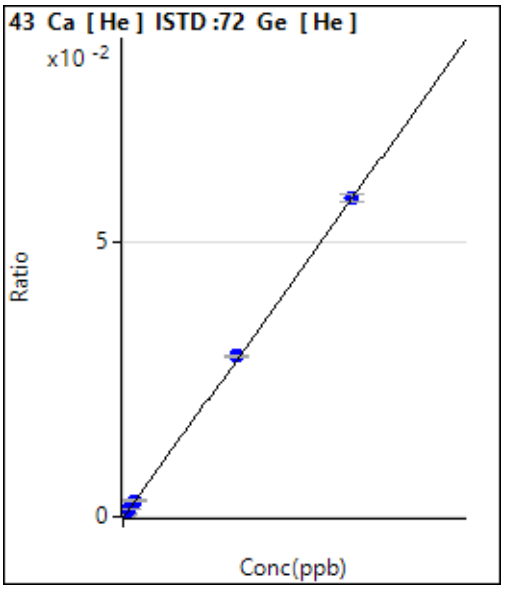
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	81527.51	0.0997	P	0.4	
2	☐	200.000	201.913	231489.49	0.2846	P	0.8	1.0
3	☐	500.000	505.042	455793.92	0.5623	P	0.5	1.0
4	☐	1000.000	1036.732	837738.87	1.0493	P	1.3	3.7
5	☐	10000.00	10158.71	7291634.06	9.4044	A	1.6	1.6
6	☐	20000.00	19918.66	13768221.46	18.3439	A	1.4	-0.4

y = 9.1594E-004 * x + 0.0997
R = 1.0000
DL = 1.414 ppb
BEC = 108.8 ppb

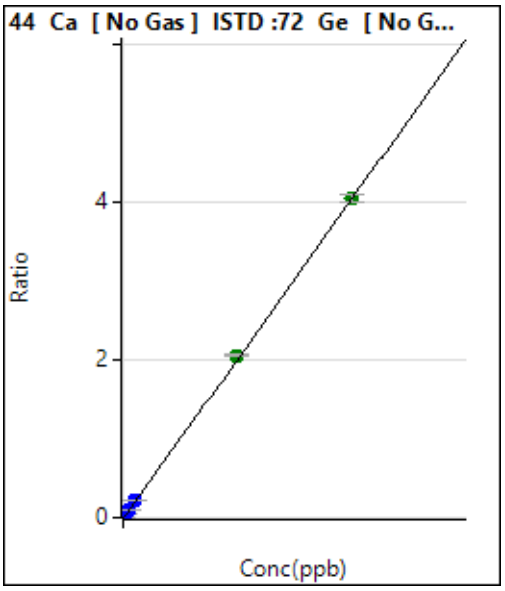
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	57.9	
2	☐	200.000	172.660	450.02	0.0006	P	11.3	-13.7
3	☐	500.000	451.195	1103.39	0.0014	P	12.5	-9.8
4	☐	1000.000	977.235	2303.57	0.0029	P	5.9	-2.3
5	☐	10000.00	10069.61	22668.70	0.0292	P	1.7	0.7
6	☐	20000.00	19967.82	43481.53	0.0579	P	2.4	-0.2

y = 2.8982E-006 * x + 5.2971E-005
R = 1.0000
DL = 31.77 ppb
BEC = 18.28 ppb

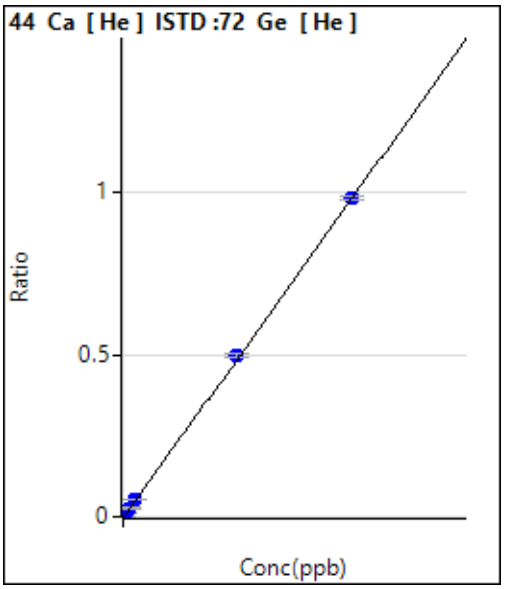
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11951.97	0.0042	P	3.5	
2	☐	200.000	204.122	128007.80	0.0456	P	1.6	2.1
3	☐	500.000	510.286	298637.16	0.1077	P	1.7	2.1
4	☐	1000.000	1032.016	586609.28	0.2134	P	1.0	3.2
5	☐	10000.00	10089.59	5430393.46	2.0490	A	1.1	0.9
6	☐	20000.00	19953.30	10238904.22	4.0480	A	2.2	-0.2

y = 2.0266E-004 * x + 0.0042
R = 1.0000
DL = 2.226 ppb
BEC = 20.93 ppb

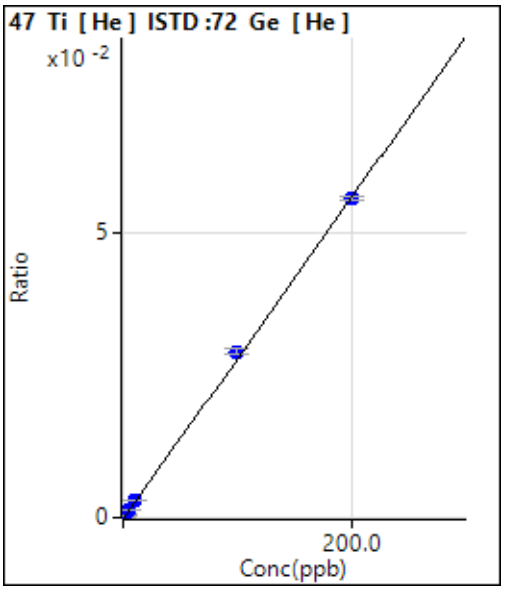
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.69	0.0008	P	16.3	
2	☐	200.000	201.935	8719.53	0.0107	P	5.4	1.0
3	☐	500.000	519.344	21373.41	0.0264	P	2.8	3.9
4	☐	1000.000	1036.543	41411.83	0.0519	P	0.8	3.7
5	☐	10000.00	10097.43	386560.37	0.4986	P	1.7	1.0
6	☐	20000.00	19948.95	738744.03	0.9842	P	1.3	-0.3

y = 4.9300E-005 * x + 7.6631E-004
R = 1.0000
DL = 7.585 ppb
BEC = 15.54 ppb

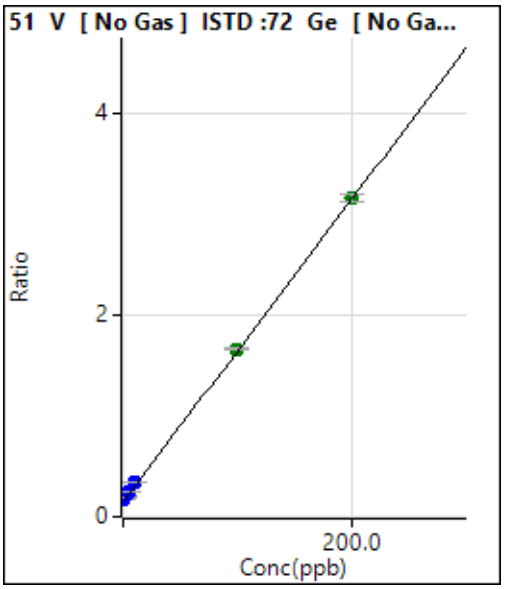
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	1.709	400.01	0.0005	P	9.4	-14.6
3	☐	5.000	4.766	1100.06	0.0014	P	11.8	-4.7
4	☐	10.000	10.663	2416.93	0.0030	P	7.4	6.6
5	☐	100.000	103.183	22658.85	0.0292	P	3.2	3.2
6	☐	200.000	198.384	42170.88	0.0562	P	1.2	-0.8

y = 2.8316E-004 * x + 8.1373E-006
R = 0.9998
DL = 0.1493 ppb
BEC = 0.02874 ppb

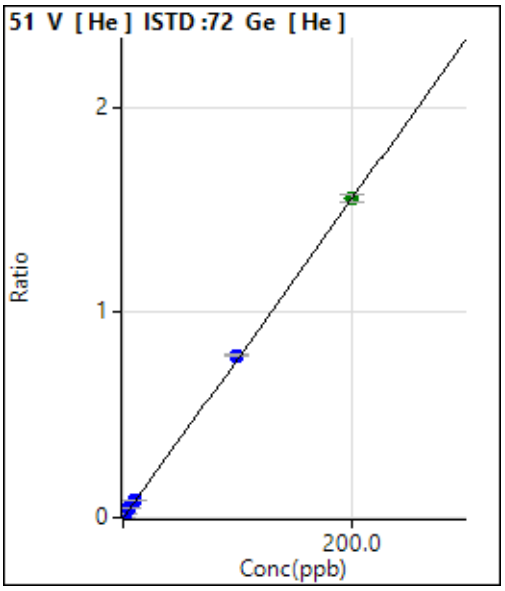
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	461297.75	0.1637	P	2.3	
2	☐	2.000	2.435	561742.44	0.2002	P	1.1	21.7
3	☐	5.000	5.892	698973.58	0.2520	P	0.7	17.8
4	☐	10.000	11.807	936161.19	0.3406	P	1.3	18.1
5	☐	100.000	100.034	4405637.61	1.6623	A	1.5	0.0
6	☐	200.000	199.866	7987708.91	3.1580	A	2.3	-0.1

y = 0.0150 * x + 0.1637
R = 1.0000
DL = 0.7548 ppb
BEC = 10.93 ppb

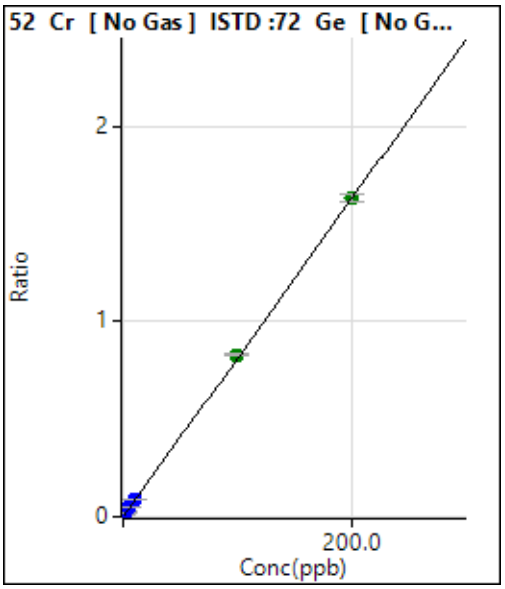
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3634.94	0.0044	P	0.4	
2	☐	2.000	1.989	16209.51	0.0199	P	2.0	-0.5
3	☐	5.000	4.980	35026.34	0.0432	P	2.5	-0.4
4	☐	10.000	10.291	67511.12	0.0846	P	1.4	2.9
5	☐	100.000	100.976	612906.64	0.7905	P	1.4	1.0
6	☐	200.000	199.498	1168975.51	1.5574	A	2.0	-0.3

y = 0.0078 * x + 0.0044
R = 1.0000
DL = 0.006699 ppb
BEC = 0.5709 ppb

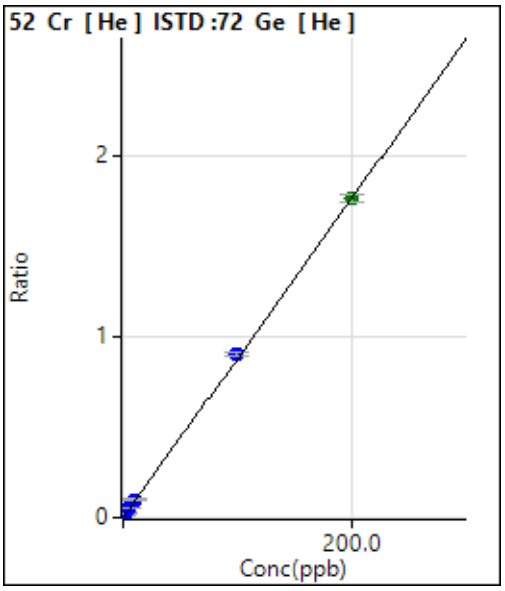
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20735.82	0.0074	P	4.6	
2	☐	2.000	2.077	68217.42	0.0243	P	2.6	3.9
3	☐	5.000	5.152	137002.10	0.0494	P	1.8	3.0
4	☐	10.000	10.393	253306.83	0.0921	P	1.6	3.9
5	☐	100.000	101.047	2204325.59	0.8317	A	2.1	1.0
6	☐	200.000	199.452	4134429.21	1.6346	A	2.2	-0.3

y = 0.0082 * x + 0.0074
R = 1.0000
DL = 0.1258 ppb
BEC = 0.9019 ppb

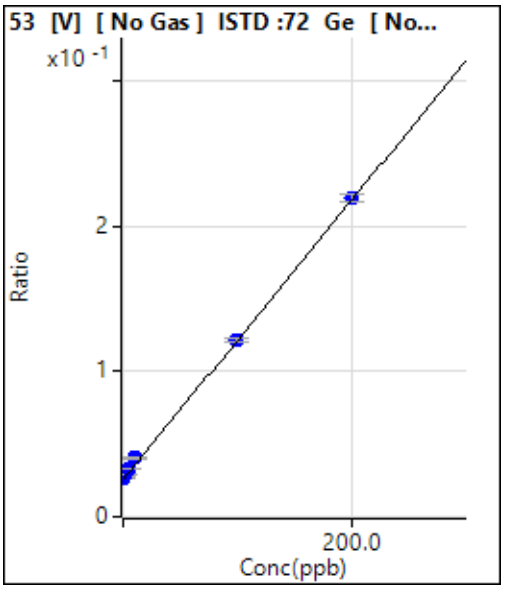
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7292.03	0.0089	P	6.9	
2	☐	2.000	1.973	21413.44	0.0263	P	3.5	-1.4
3	☐	5.000	5.174	44250.68	0.0546	P	0.9	3.5
4	☐	10.000	10.434	80654.16	0.1010	P	2.7	4.3
5	☐	100.000	101.635	702535.22	0.9061	P	1.7	1.6
6	☐	200.000	199.157	1326209.15	1.7670	A	1.9	-0.4

y = 0.0088 * x + 0.0089
R = 1.0000
DL = 0.2101 ppb
BEC = 1.01 ppb

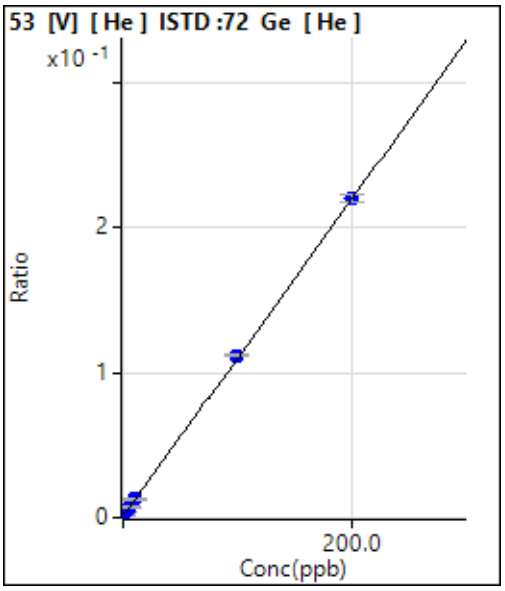
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	75348.33	0.0267	P	2.8	
2	☐	2.000	2.797	82568.95	0.0294	P	1.5	39.8
3	☐	5.000	6.797	92269.75	0.0333	P	1.9	35.9
4	☐	10.000	14.275	111156.92	0.0404	P	1.6	42.7
5	☐	100.000	98.471	321353.52	0.1213	P	2.0	-1.5
6	☐	200.000	200.498	554371.61	0.2192	P	2.9	0.2

y = 9.5983E-004 * x + 0.0267
R = 0.9998
DL = 2.349 ppb
BEC = 27.86 ppb

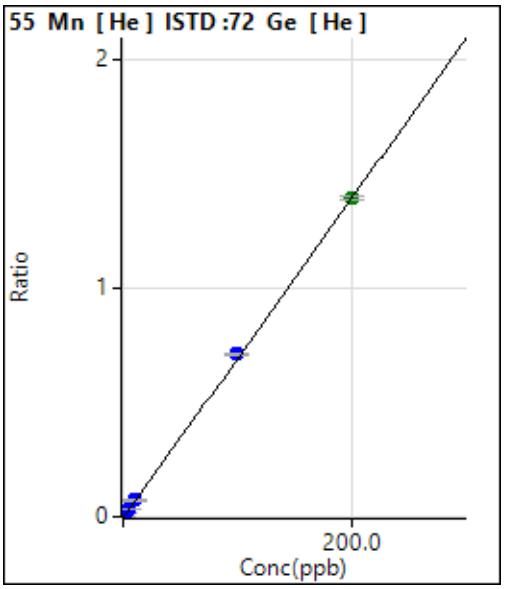
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.13	0.0020	P	10.2	
2	☐	2.000	1.715	3177.08	0.0039	P	5.2	-14.2
3	☐	5.000	4.774	5878.03	0.0073	P	4.1	-4.5
4	☐	10.000	9.803	10180.57	0.0128	P	2.5	-2.0
5	☐	100.000	100.703	86965.26	0.1122	P	1.3	0.7
6	☐	200.000	199.667	165418.89	0.2204	P	2.0	-0.2

y = 0.0011 * x + 0.0020
R = 1.0000
DL = 0.5682 ppb
BEC = 1.856 ppb

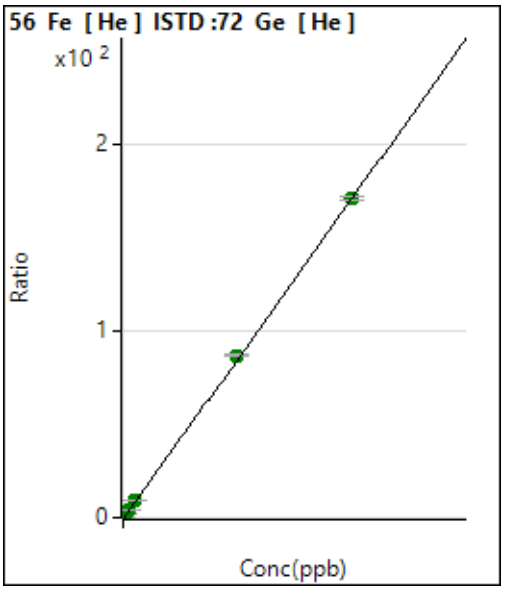
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	643.36	0.0008	P	8.0	
2	☐	2.000	1.990	11945.38	0.0147	P	3.9	-0.5
3	☐	5.000	5.031	29131.03	0.0359	P	2.1	0.6
4	☐	10.000	10.191	57476.26	0.0720	P	1.9	1.9
5	☐	100.000	101.455	550182.15	0.7096	P	0.9	1.5
6	☐	200.000	199.262	1045447.85	1.3929	A	1.7	-0.4

y = 0.0070 * x + 7.8669E-004
R = 1.0000
DL = 0.02693 ppb
BEC = 0.1126 ppb

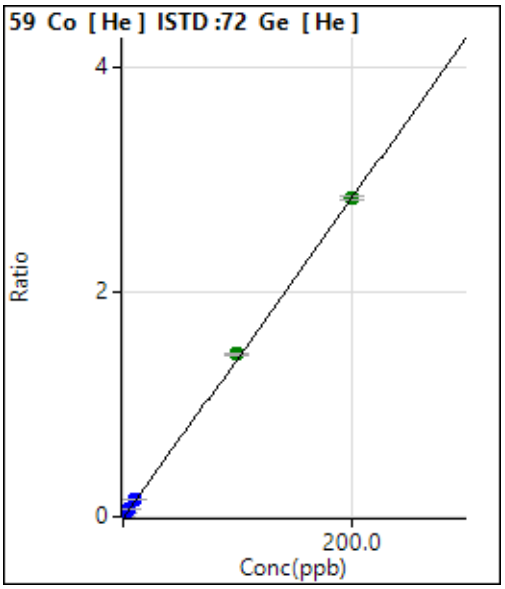
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14054.02	0.0172	P	4.8	
2	☐	200.000	200.760	1414286.59	1.7388	A	1.3	0.4
3	☐	500.000	503.826	3516325.57	4.3377	A	2.0	0.8
4	☐	1000.000	1043.852	7160738.64	8.9687	A	1.6	4.4
5	☐	10000.00	10118.90	67294057.33	86.7918	A	1.3	1.2
6	☐	20000.00	19938.25	128342718.0	170.997	A	1.3	-0.3

y = 0.0086 * x + 0.0172
R = 1.0000
DL = 0.2866 ppb
BEC = 2.004 ppb

Weight: <None>
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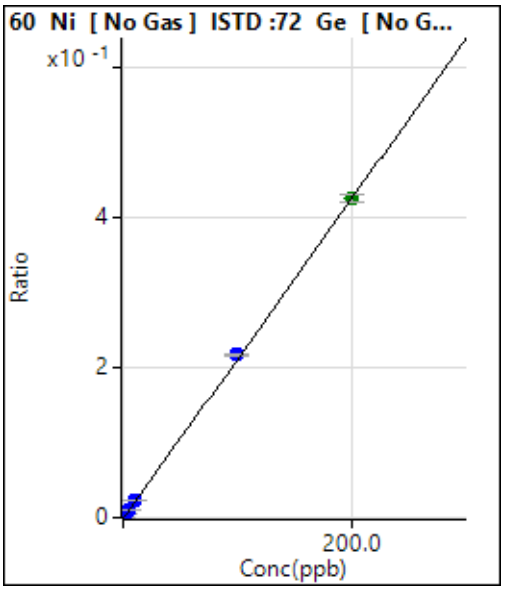


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	44.4	
2	☐	2.000	1.947	22658.95	0.0279	P	3.4	-2.7
3	☐	5.000	4.980	57627.10	0.0711	P	2.4	-0.4
4	☐	10.000	10.270	116956.16	0.1465	P	1.5	2.7
5	☐	100.000	101.538	1122144.23	1.4473	A	1.0	1.5
6	☐	200.000	199.219	2131174.97	2.8395	A	1.5	-0.4

y = 0.0143 * x + 1.1404E-004
R = 1.0000
DL = 0.01066 ppb
BEC = 0.008001 ppb

Weight: <None>
Min Conc: <None>

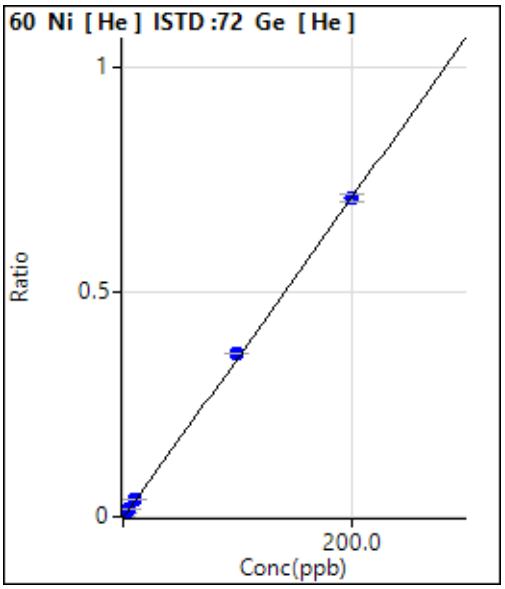
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1530.11	0.0005	P	8.5	
2	☐	2.000	2.037	13723.74	0.0049	P	1.4	1.8
3	☐	5.000	5.111	31766.95	0.0115	P	0.5	2.2
4	☐	10.000	10.356	62247.09	0.0226	P	0.3	3.6
5	☐	100.000	101.446	575247.70	0.2171	P	1.3	1.4
6	☐	200.000	199.256	1076993.24	0.4258	A	2.7	-0.4

y = 0.0021 * x + 5.4295E-004
R = 1.0000
DL = 0.06473 ppb
BEC = 0.2544 ppb

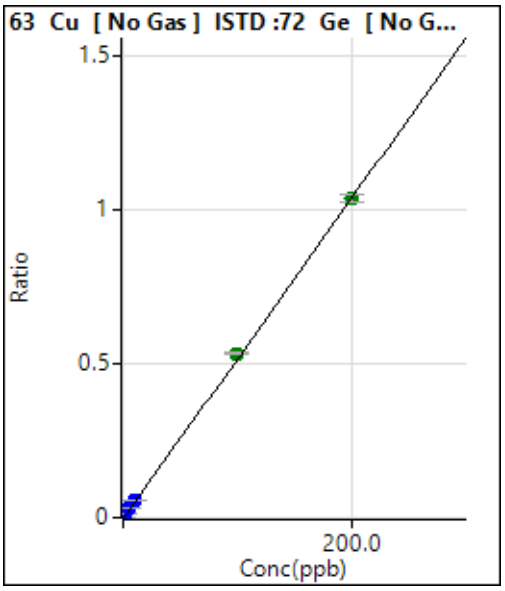
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0003	P	16.3	
2	☐	2.000	2.079	6288.20	0.0077	P	2.5	3.9
3	☐	5.000	5.175	15198.61	0.0188	P	4.3	3.5
4	☐	10.000	10.736	30771.30	0.0385	P	1.9	7.4
5	☐	100.000	102.150	282109.35	0.3638	P	0.5	2.1
6	☐	200.000	198.883	531459.91	0.7081	P	1.9	-0.6

y = 0.0036 * x + 3.3410E-004
R = 0.9999
DL = 0.04581 ppb
BEC = 0.09389 ppb

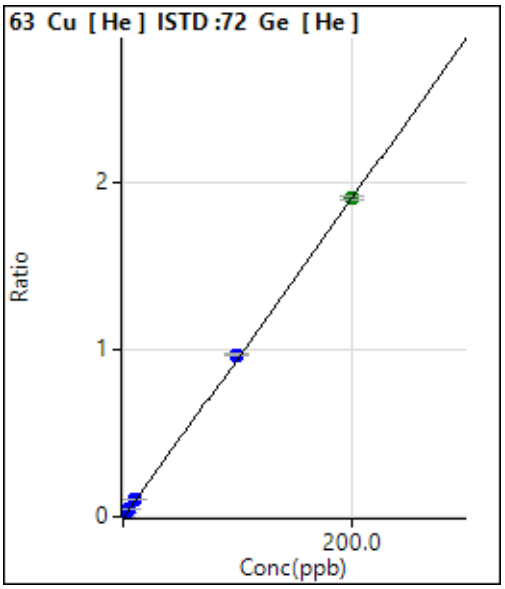
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3807.26	0.0014	P	10.1	
2	☐	2.000	2.101	34466.80	0.0123	P	2.3	5.0
3	☐	5.000	5.225	79163.46	0.0285	P	2.6	4.5
4	☐	10.000	10.507	154003.73	0.0560	P	1.5	5.1
5	☐	100.000	102.068	1411021.23	0.5324	A	1.8	2.1
6	☐	200.000	198.934	2621439.76	1.0364	A	2.5	-0.5

y = 0.0052 * x + 0.0014
R = 0.9999
DL = 0.07857 ppb
BEC = 0.2596 ppb

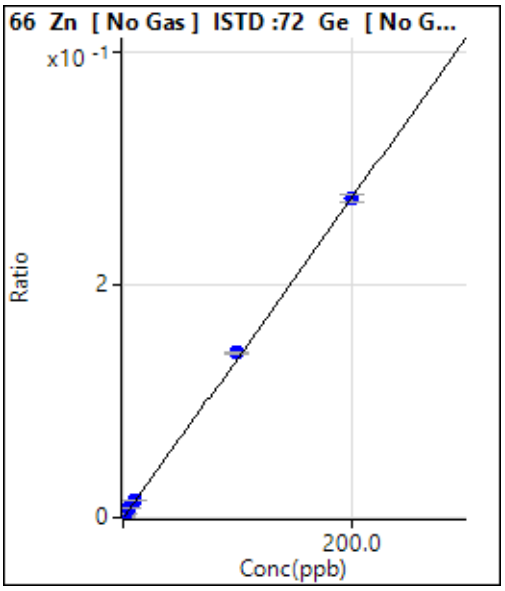
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	603.36	0.0007	P	15.4	
2	☐	2.000	2.077	16783.84	0.0206	P	3.1	3.9
3	☐	5.000	5.145	40546.62	0.0500	P	2.8	2.9
4	☐	10.000	10.459	80575.34	0.1009	P	0.4	4.6
5	☐	100.000	101.105	751420.67	0.9691	P	1.2	1.1
6	☐	200.000	199.420	1434189.36	1.9108	A	1.1	-0.3

y = 0.0096 * x + 7.3771E-004
R = 1.0000
DL = 0.03569 ppb
BEC = 0.07702 ppb

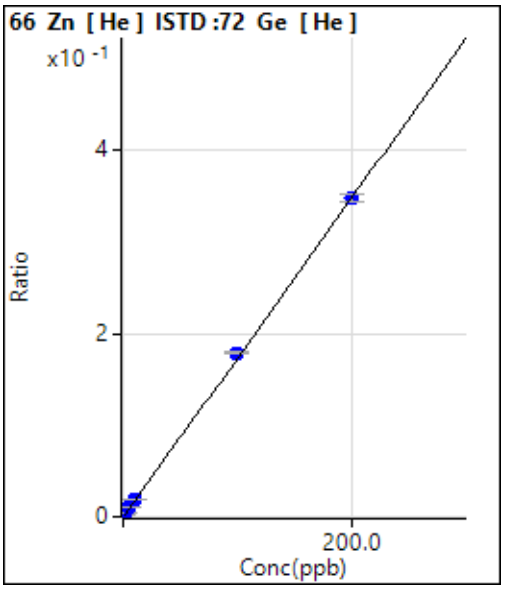
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.92	0.0008	P	13.4	
2	☐	2.000	2.003	10107.24	0.0036	P	3.1	0.2
3	☐	5.000	5.017	21483.77	0.0077	P	2.4	0.3
4	☐	10.000	10.271	41145.14	0.0150	P	0.4	2.7
5	☐	100.000	102.271	374888.93	0.1415	P	1.1	2.3
6	☐	200.000	198.850	693636.50	0.2742	P	2.5	-0.6

y = 0.0014 * x + 8.4673E-004
R = 0.9999
DL = 0.2471 ppb
BEC = 0.6159 ppb

Weight: <None>
Min Conc: <None>

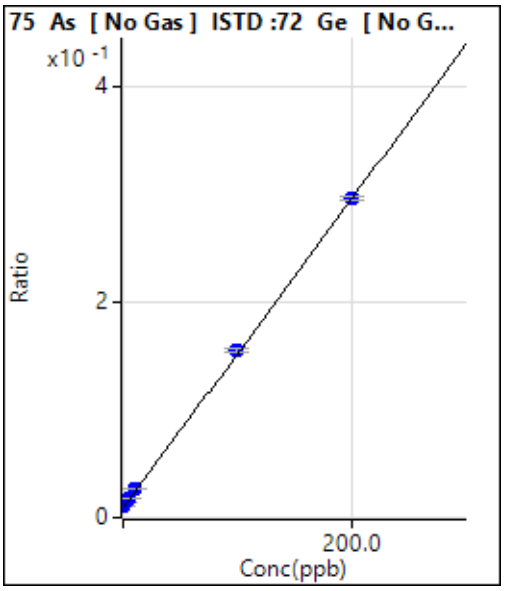


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	910.05	0.0011	P	10.0	
2	☐	2.000	2.169	3980.67	0.0049	P	9.9	8.5
3	☐	5.000	5.088	8092.53	0.0100	P	4.5	1.8
4	☐	10.000	10.312	15245.40	0.0191	P	0.6	3.1
5	☐	100.000	101.904	138644.14	0.1788	P	1.6	1.9
6	☐	200.000	199.028	261334.74	0.3482	P	2.2	-0.5

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.1914 ppb
BEC = 0.638 ppb

Weight: <None>
Min Conc: <None>

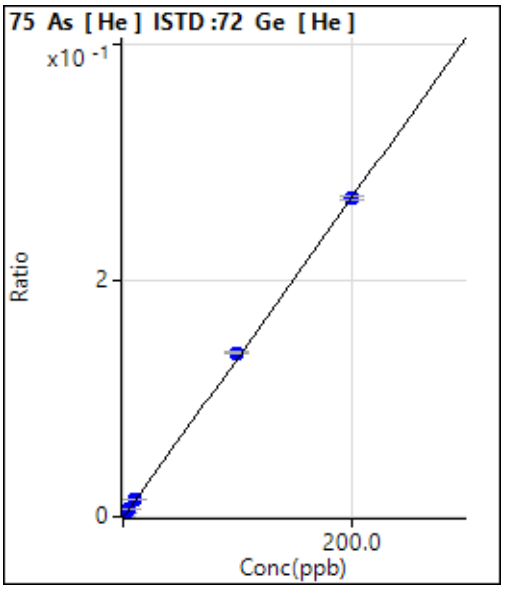
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	29482.27	0.0105	P	3.5	
2	☐	2.000	2.306	38655.20	0.0138	P	1.6	15.3
3	☐	5.000	5.508	50975.19	0.0184	P	2.2	10.2
4	☐	10.000	11.377	73695.32	0.0268	P	1.5	13.8
5	☐	100.000	101.157	412913.42	0.1558	P	1.5	1.2
6	☐	200.000	199.337	750934.13	0.2969	P	1.2	-0.3

y = 0.0014 * x + 0.0105
R = 1.0000
DL = 0.7722 ppb
BEC = 7.281 ppb

Weight: <None>
Min Conc: <None>

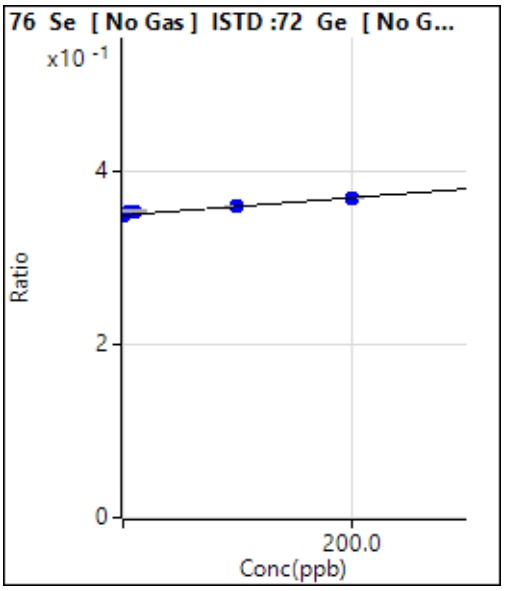


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	304.45	0.0004	P	10.9	
2	☐	2.000	1.898	2394.67	0.0029	P	4.1	-5.1
3	☐	5.000	4.859	5637.85	0.0070	P	2.6	-2.8
4	☐	10.000	10.325	11467.06	0.0144	P	1.0	3.2
5	☐	100.000	102.162	107620.06	0.1388	P	0.8	2.2
6	☐	200.000	198.907	202569.90	0.2699	P	1.4	-0.5

y = 0.0014 * x + 3.7225E-004
R = 0.9999
DL = 0.08999 ppb
BEC = 0.2747 ppb

Weight: <None>
Min Conc: <None>

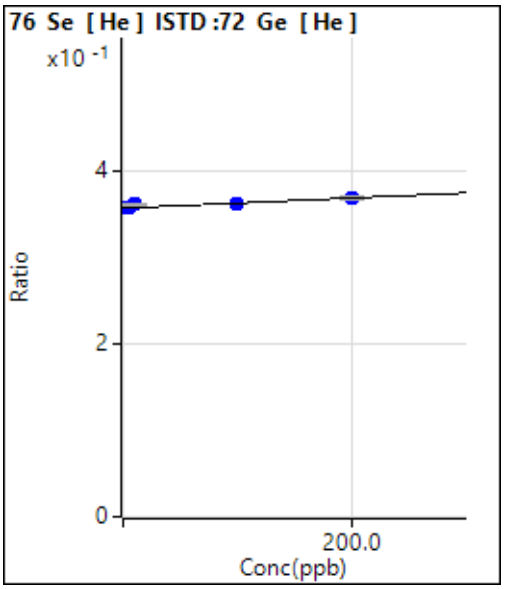
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	986809.18	0.3502	P	0.2	
2	☐	2.000	13.857	986693.01	0.3516	P	0.7	592.9
3	☐	5.000	46.490	984590.25	0.3549	P	0.5	829.8
4	☐	10.000	42.520	974528.03	0.3545	P	0.6	325.2
5	☐	100.000	110.349	957960.61	0.3615	P	0.1	10.3
6	☐	200.000	192.044	935588.92	0.3698	P	0.5	-4.0

y = 1.0241E-004 * x + 0.3502
R = 0.9777
DL = 22.41 ppb
BEC = 3419 ppb

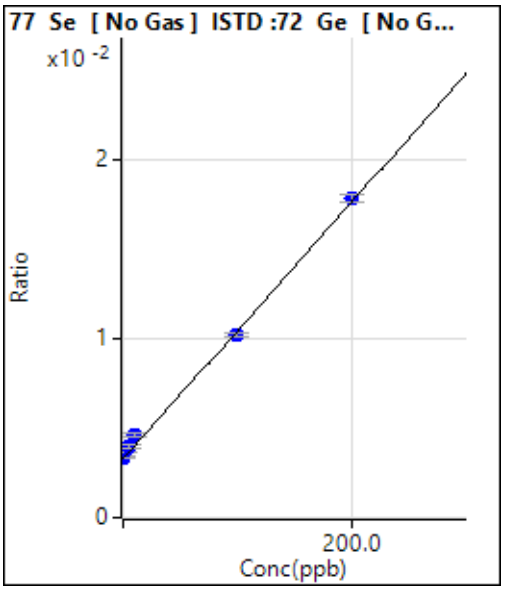
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	292004.58	0.3570	P	0.9	
2	☐	2.000	-3.977	290168.21	0.3568	P	0.4	-298.9
3	☐	5.000	19.753	290346.01	0.3582	P	0.3	295.1
4	☐	10.000	68.581	288298.83	0.3611	P	0.4	585.8
5	☐	100.000	95.418	281218.82	0.3627	P	0.2	-4.6
6	☐	200.000	199.053	276852.01	0.3689	P	0.9	-0.5

y = 5.9602E-005 * x + 0.3570
R = 0.9529
DL = 152.8 ppb
BEC = 5990 ppb

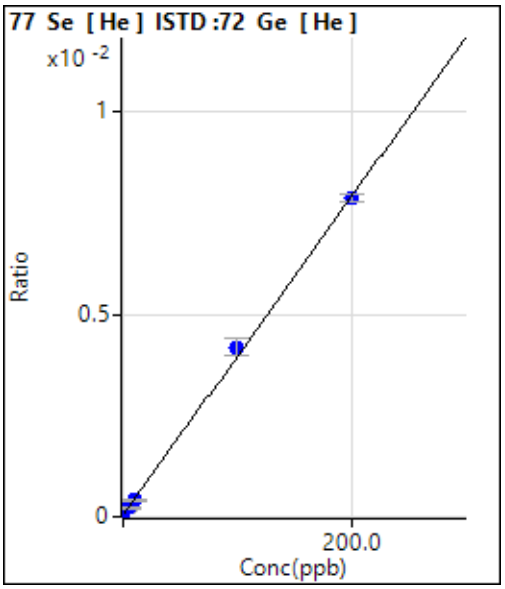
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9550.26	0.0034	P	3.1	
2	☐	2.000	5.447	10607.66	0.0038	P	4.8	172.3
3	☐	5.000	8.950	11184.78	0.0040	P	4.9	79.0
4	☐	10.000	17.191	12712.79	0.0046	P	3.0	71.9
5	☐	100.000	95.485	27174.01	0.0103	P	2.4	-4.5
6	☐	200.000	201.765	45265.46	0.0179	P	2.3	0.9

y = 7.1898E-005 * x + 0.0034
R = 0.9989
DL = 4.422 ppb
BEC = 47.13 ppb

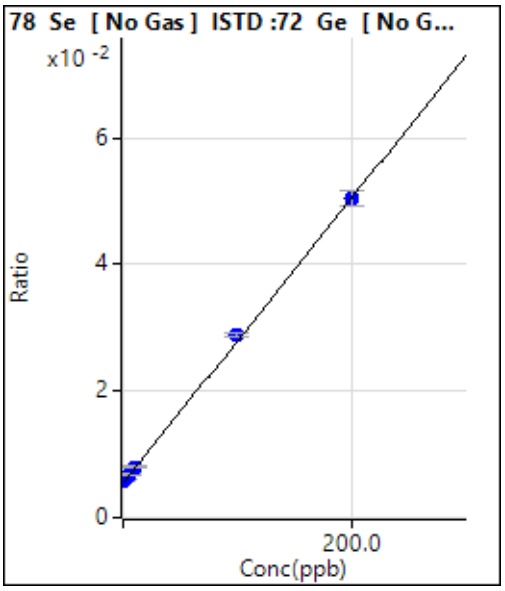
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70.00	0.0001	P	24.6	
2	☐	2.000	2.511	150.00	0.0002	P	30.4	25.6
3	☐	5.000	3.261	173.33	0.0002	P	3.5	-34.8
4	☐	10.000	8.335	330.01	0.0004	P	16.2	-16.7
5	☐	100.000	104.203	3243.79	0.0042	P	10.6	4.2
6	☐	200.000	198.020	5911.38	0.0079	P	2.0	-1.0

y = 3.9337E-005 * x + 8.5562E-005
R = 0.9996
DL = 1.604 ppb
BEC = 2.175 ppb

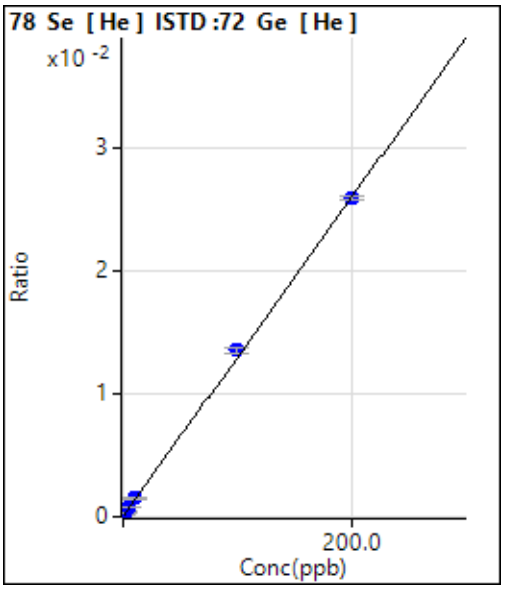
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16149.81	0.0057	P	2.3	
2	☐	2.000	1.177	16823.95	0.0060	P	1.6	-41.2
3	☐	5.000	4.475	18689.68	0.0067	P	3.9	-10.5
4	☐	10.000	10.179	22044.77	0.0080	P	3.7	1.8
5	☐	100.000	102.471	76262.94	0.0288	P	2.2	2.5
6	☐	200.000	198.777	127547.48	0.0504	P	4.3	-0.6

y = 2.2489E-004 * x + 0.0057
R = 0.9999
DL = 1.74 ppb
BEC = 25.48 ppb

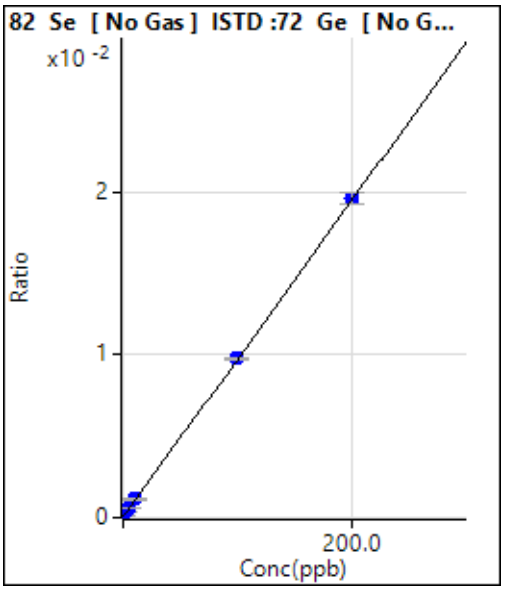
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	138.00	0.0002	P	5.3	
2	☐	2.000	1.693	316.00	0.0004	P	10.5	-15.3
3	☐	5.000	4.551	615.35	0.0008	P	0.9	-9.0
4	☐	10.000	10.163	1187.39	0.0015	P	2.4	1.6
5	☐	100.000	102.912	10482.04	0.0135	P	2.9	2.9
6	☐	200.000	198.550	19459.21	0.0259	P	1.8	-0.7

y = 1.2973E-004 * x + 1.6872E-004
R = 0.9998
DL = 0.2064 ppb
BEC = 1.301 ppb

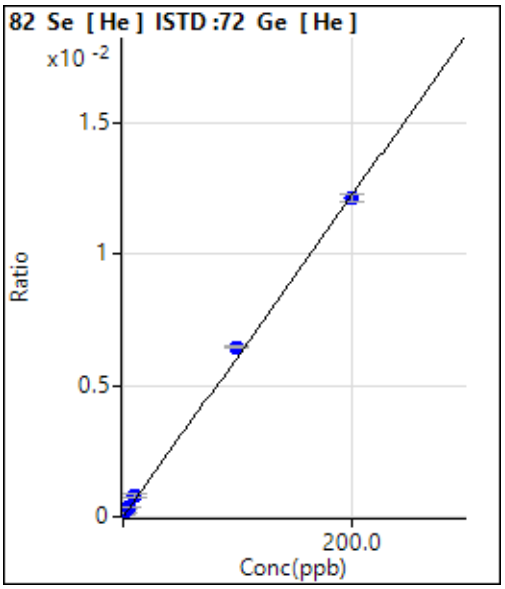
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416.68	0.0001	P	3.6	
2	☐	2.000	2.014	963.38	0.0003	P	6.2	0.7
3	☐	5.000	4.844	1713.46	0.0006	P	4.8	-3.1
4	☐	10.000	10.130	3107.08	0.0011	P	3.2	1.3
5	☐	100.000	98.961	25824.77	0.0097	P	1.9	-1.0
6	☐	200.000	200.517	49553.97	0.0196	P	3.4	0.3

y = 9.6974E-005 * x + 1.4785E-004
R = 1.0000
DL = 0.1636 ppb
BEC = 1.525 ppb

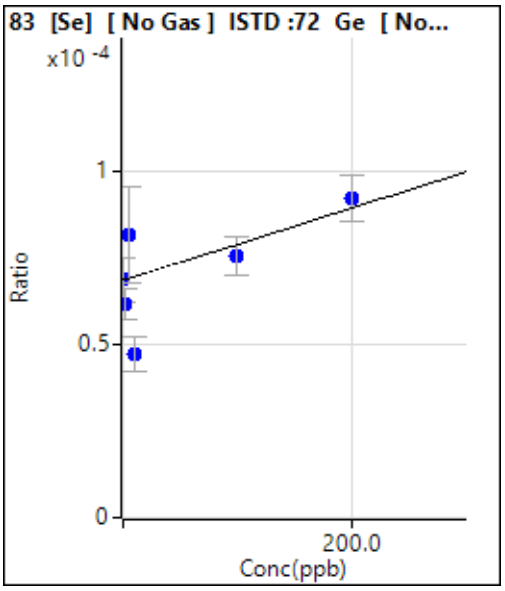
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0001	P	44.5	
2	☐	2.000	2.685	180.00	0.0002	P	41.8	34.3
3	☐	5.000	4.988	293.34	0.0004	P	3.3	-0.2
4	☐	10.000	12.258	643.36	0.0008	P	24.4	22.6
5	☐	100.000	104.690	5004.34	0.0065	P	0.7	4.7
6	☐	200.000	197.535	9103.22	0.0121	P	2.3	-1.2

y = 6.1104E-005 * x + 5.7039E-005
R = 0.9996
DL = 1.245 ppb
BEC = 0.9335 ppb

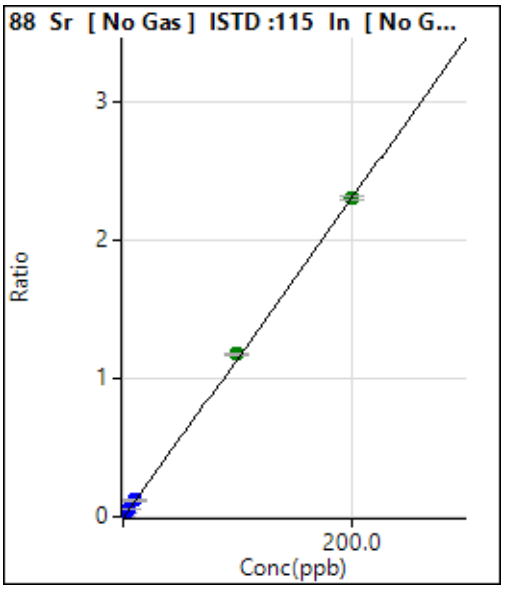
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	18.5	
2	☐	2.000	-65.955	173.33	0.0001	P	14.0	-3397.8
3	☐	5.000	125.292	226.67	0.0001	P	33.8	2405.8
4	☐	10.000	-204.074	130.00	0.0000	P	20.2	-2140.7
5	☐	100.000	65.277	200.01	0.0001	P	14.9	-34.7
6	☐	200.000	225.737	233.34	0.0001	P	15.0	12.9

y = 1.0460E-007 * x + 6.8631E-005
R = 0.6893
DL = 364.3 ppb
BEC = 656.1 ppb

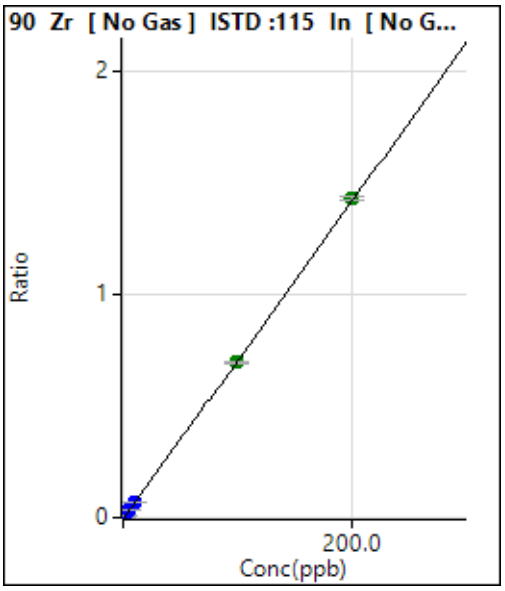
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3007.07	0.0007	P	5.8	
2	☐	2.000	2.008	97146.72	0.0240	P	1.7	0.4
3	☐	5.000	4.997	235511.23	0.0585	P	2.4	-0.1
4	☐	10.000	10.147	470997.78	0.1181	P	0.7	1.5
5	☐	100.000	101.449	4484236.50	1.1736	A	1.4	1.4
6	☐	200.000	199.268	8472793.00	2.3045	A	1.7	-0.4

y = 0.0116 * x + 7.4438E-004
R = 1.0000
DL = 0.01122 ppb
BEC = 0.06439 ppb

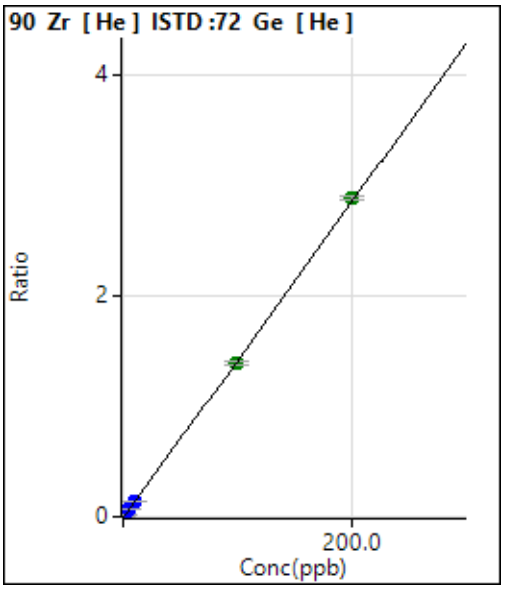
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1166.74	0.0003	P	4.0	
2	☐	2.000	1.649	48681.20	0.0120	P	1.3	-17.5
3	☐	5.000	4.397	126925.13	0.0315	P	2.1	-12.1
4	☐	10.000	9.435	268650.03	0.0673	P	1.9	-5.6
5	☐	100.000	97.802	2656536.42	0.6953	A	1.6	-2.2
6	☐	200.000	201.146	5256189.19	1.4296	A	1.4	0.6

y = 0.0071 * x + 2.8879E-004
R = 0.9999
DL = 0.004908 ppb
BEC = 0.04064 ppb

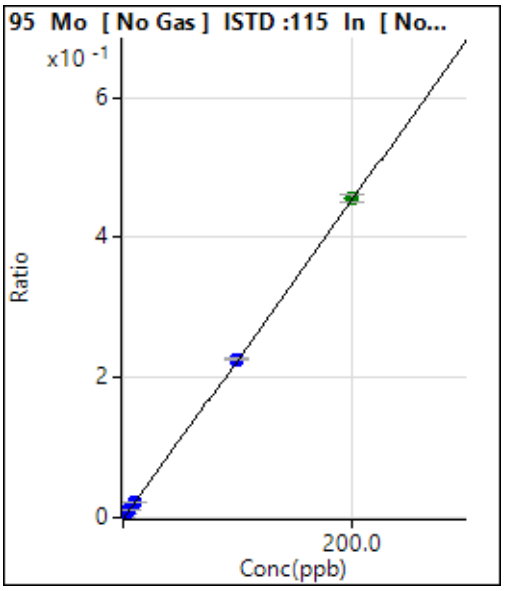
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1580.13	0.0019	P	5.8	
2	☐	2.000	1.649	20786.23	0.0256	P	3.7	-17.6
3	☐	5.000	4.345	52037.15	0.0642	P	0.9	-13.1
4	☐	10.000	9.446	109594.93	0.1373	P	0.9	-5.5
5	☐	100.000	96.984	1078872.93	1.3915	A	1.9	-3.0
6	☐	200.000	201.556	2168912.26	2.8898	A	1.2	0.8

y = 0.0143 * x + 0.0019
R = 0.9999
DL = 0.02339 ppb
BEC = 0.1348 ppb

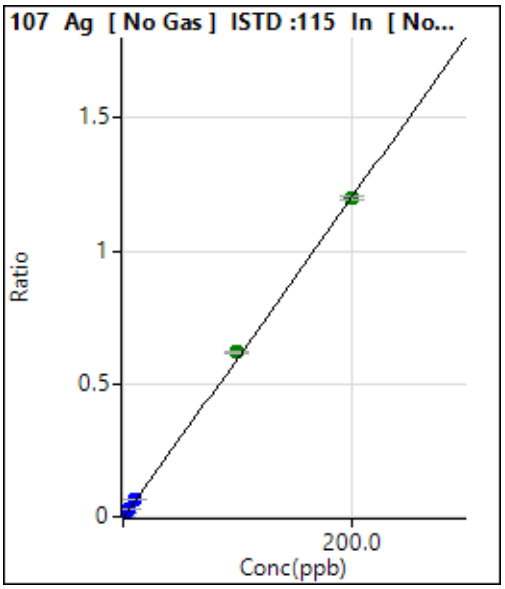
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	116.67	0.0000	P	16.9	
2	☐	2.000	1.914	17771.87	0.0044	P	2.3	-4.3
3	☐	5.000	4.799	44068.87	0.0109	P	2.8	-4.0
4	☐	10.000	9.833	89384.91	0.0224	P	1.4	-1.7
5	☐	100.000	99.296	863462.44	0.2260	P	1.3	-0.7
6	☐	200.000	200.366	1676413.98	0.4560	A	1.9	0.2

y = 0.0023 * x + 2.8850E-005
R = 1.0000
DL = 0.00643 ppb
BEC = 0.01268 ppb

Weight: <None>
Min Conc: <None>

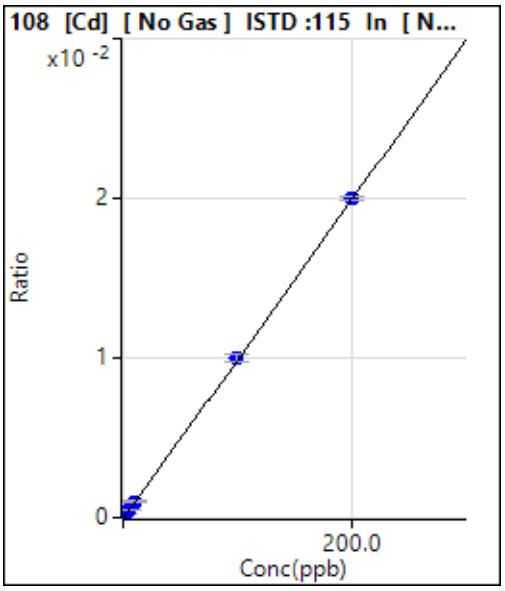


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.02	0.0001	P	12.6	
2	☐	2.000	2.080	51338.61	0.0127	P	2.5	4.0
3	☐	5.000	5.047	123017.80	0.0306	P	1.6	0.9
4	☐	10.000	10.336	249277.87	0.0625	P	1.4	3.4
5	☐	100.000	102.421	2361853.56	0.6181	A	1.2	2.4
6	☐	200.000	198.771	4410141.29	1.1995	A	1.2	-0.6

y = 0.0060 * x + 1.1147E-004
R = 0.9999
DL = 0.007005 ppb
BEC = 0.01847 ppb

Weight: <None>
Min Conc: <None>

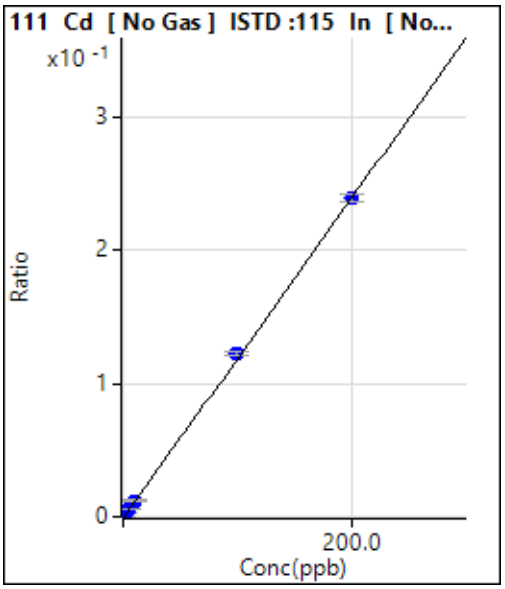
Calibration for 209_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	2.333	946.72	0.0002	P	6.5	16.7
3	☐	5.000	4.719	1900.18	0.0005	P	10.7	-5.6
4	☐	10.000	9.973	3980.68	0.0010	P	9.3	-0.3
5	☐	100.000	99.949	38215.00	0.0100	P	4.1	-0.1
6	☐	200.000	200.030	73595.60	0.0200	P	1.6	0.0

y = 1.0007E-004 * x + 0.0000E+000
R = 1.0000
DL = 0 ppb
BEC = 0 ppb

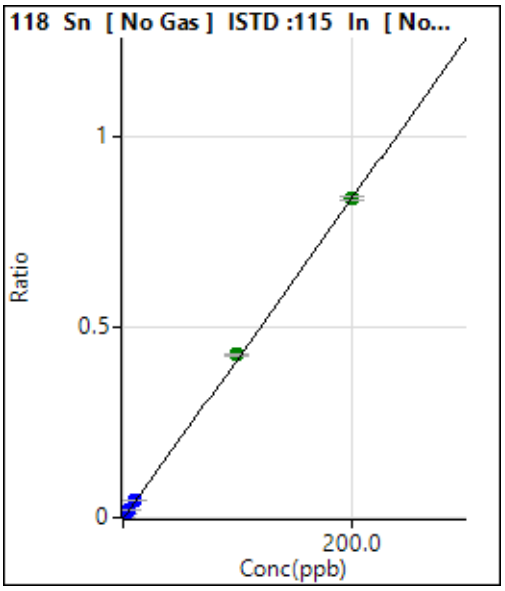
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.984	9665.32	0.0024	P	4.4	-0.8
3	☐	5.000	5.087	24597.94	0.0061	P	3.2	1.7
4	☐	10.000	10.163	48707.57	0.0122	P	2.8	1.6
5	☐	100.000	101.819	467296.89	0.1223	P	2.0	1.8
6	☐	200.000	199.080	879105.76	0.2391	P	2.0	-0.5

y = 0.0012 * x + 1.6433E-006
R = 0.9999
DL = 0.003555 ppb
BEC = 0.001368 ppb

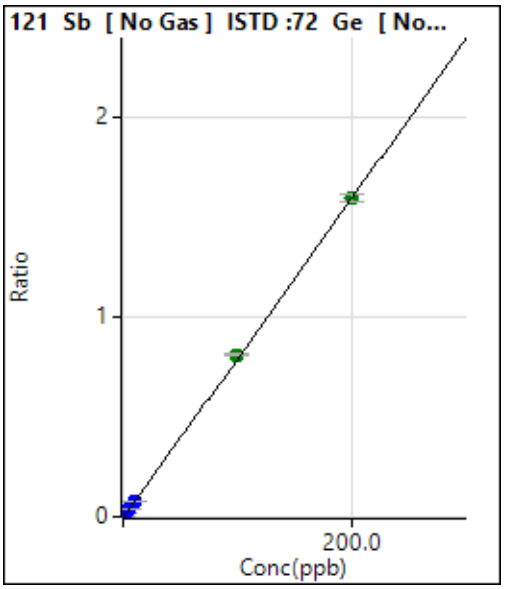
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3984.02	0.0010	P	9.0	
2	☐	2.000	1.925	36764.63	0.0091	P	2.2	-3.8
3	☐	5.000	4.898	86748.47	0.0216	P	1.7	-2.0
4	☐	10.000	10.047	172261.21	0.0432	P	0.7	0.5
5	☐	100.000	101.470	1632027.16	0.4271	A	1.4	1.5
6	☐	200.000	199.266	3080277.66	0.8378	A	1.1	-0.4

y = 0.0042 * x + 9.8668E-004
R = 1.0000
DL = 0.06316 ppb
BEC = 0.235 ppb

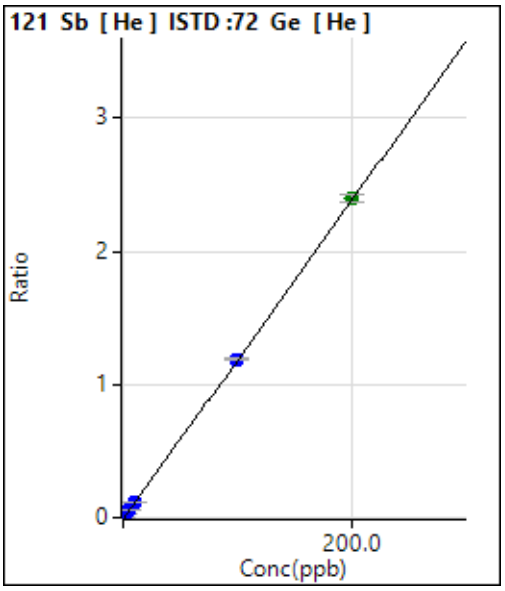
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	663.36	0.0002	P	9.6	
2	☐	2.000	1.930	43929.77	0.0157	P	0.8	-3.5
3	☐	5.000	4.938	110093.88	0.0397	P	2.4	-1.2
4	☐	10.000	9.977	219796.11	0.0800	P	1.5	-0.2
5	☐	100.000	101.315	2146037.68	0.8097	A	0.8	1.3
6	☐	200.000	199.346	4029441.40	1.5930	A	1.9	-0.3

y = 0.0080 * x + 2.3540E-004
R = 1.0000
DL = 0.008508 ppb
BEC = 0.02946 ppb

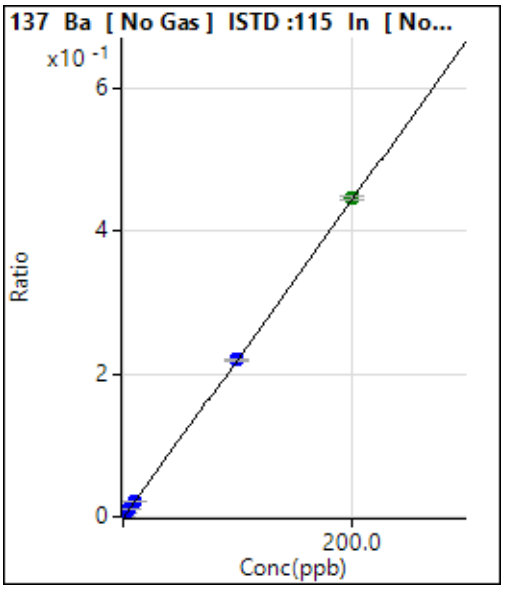
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0003	P	22.3	
2	☐	2.000	1.867	18446.43	0.0227	P	1.9	-6.7
3	☐	5.000	4.820	47043.84	0.0580	P	0.5	-3.6
4	☐	10.000	9.988	95720.19	0.1199	P	1.1	-0.1
5	☐	100.000	99.166	920578.97	1.1873	P	1.2	-0.8
6	☐	200.000	200.423	1800814.50	2.3993	A	2.0	0.2

y = 0.0120 * x + 3.3416E-004
R = 1.0000
DL = 0.01865 ppb
BEC = 0.02792 ppb

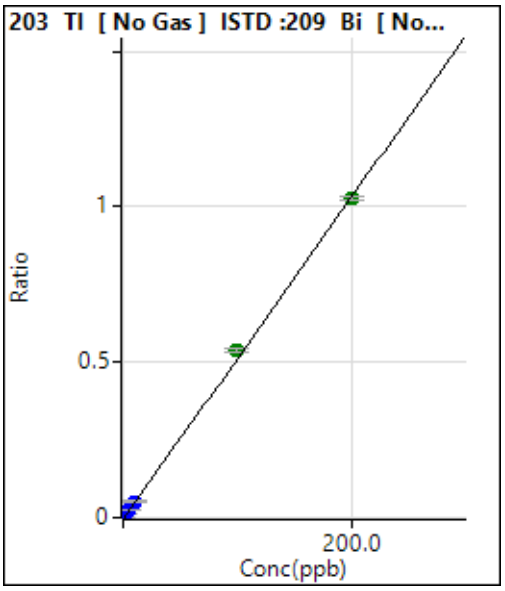
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.05	0.0002	P	14.0	
2	☐	2.000	1.939	18373.16	0.0045	P	3.7	-3.0
3	☐	5.000	4.932	45003.93	0.0112	P	2.3	-1.4
4	☐	10.000	9.837	88107.71	0.0221	P	1.8	-1.6
5	☐	100.000	98.939	840949.78	0.2201	P	1.2	-1.1
6	☐	200.000	200.541	1639314.92	0.4459	A	1.6	0.3

y = 0.0022 * x + 2.2267E-004
R = 1.0000
DL = 0.04203 ppb
BEC = 0.1002 ppb

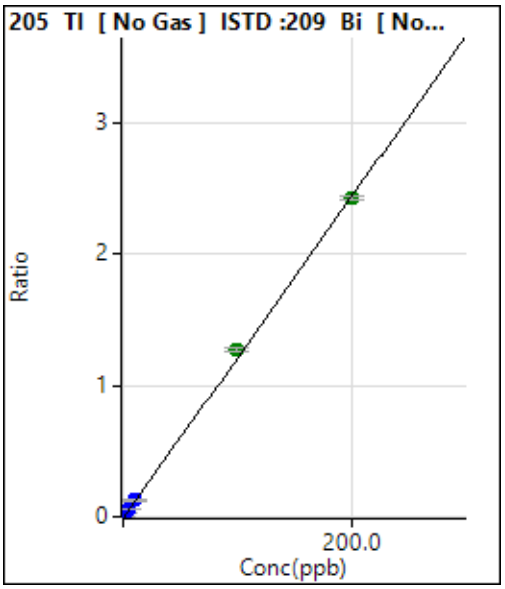
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.01	0.0000	P	21.0	
2	☐	2.000	2.176	50571.55	0.0113	P	2.3	8.8
3	☐	5.000	5.137	118435.75	0.0267	P	1.2	2.7
4	☐	10.000	10.107	231998.64	0.0524	P	1.3	1.1
5	☐	100.000	103.857	2304059.76	0.5385	A	1.9	3.9
6	☐	200.000	198.061	4205366.29	1.0268	A	1.7	-1.0

y = 0.0052 * x + 4.2778E-005
R = 0.9997
DL = 0.005209 ppb
BEC = 0.008252 ppb

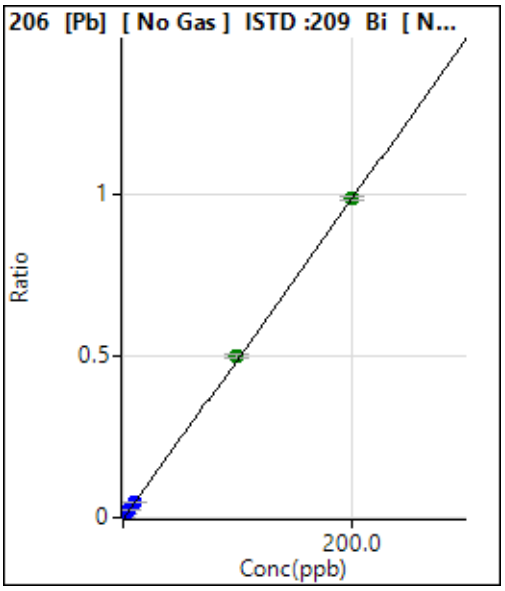
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520.02	0.0001	P	13.1	
2	☐	2.000	2.154	118600.08	0.0266	P	2.0	7.7
3	☐	5.000	5.193	283446.79	0.0638	P	2.3	3.9
4	☐	10.000	10.157	551889.00	0.1248	P	2.2	1.6
5	☐	100.000	103.669	5444053.88	1.2723	A	2.1	3.7
6	☐	200.000	198.152	9959070.27	2.4317	A	1.6	-0.9

y = 0.0123 * x + 1.1716E-004
R = 0.9998
DL = 0.003758 ppb
BEC = 0.009547 ppb

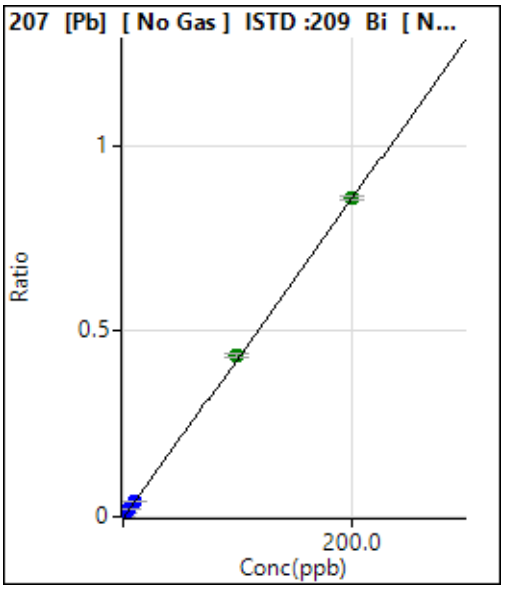
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0001	P	3.1	
2	☐	2.000	1.961	43980.49	0.0098	P	2.1	-1.9
3	☐	5.000	4.902	108329.47	0.0244	P	1.9	-2.0
4	☐	10.000	10.048	220599.62	0.0499	P	0.7	0.5
5	☐	100.000	100.875	2136483.77	0.4993	A	1.7	0.9
6	☐	200.000	199.563	4044745.98	0.9876	A	1.5	-0.2

y = 0.0049 * x + 1.4255E-004
R = 1.0000
DL = 0.002705 ppb
BEC = 0.02881 ppb

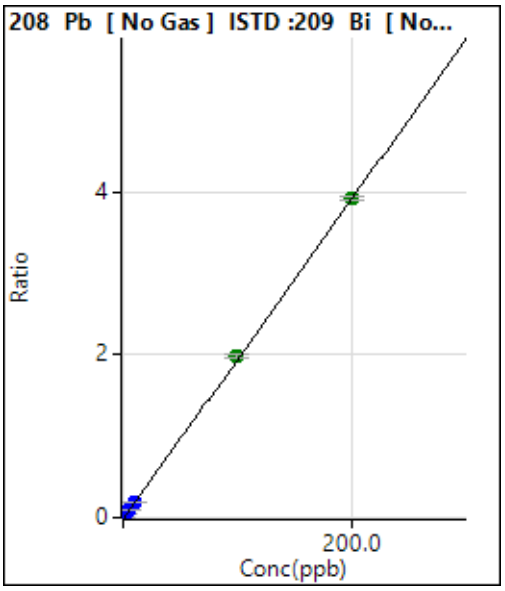
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	516.69	0.0001	P	8.9	
2	☐	2.000	1.966	38245.14	0.0086	P	1.5	-1.7
3	☐	5.000	4.957	95064.08	0.0214	P	2.3	-0.9
4	☐	10.000	10.008	190717.36	0.0431	P	2.1	0.1
5	☐	100.000	100.608	1849939.30	0.4323	A	2.2	0.6
6	☐	200.000	199.697	3514092.76	0.8580	A	1.1	-0.2

y = 0.0043 * x + 1.1632E-004
R = 1.0000
DL = 0.007233 ppb
BEC = 0.02708 ppb

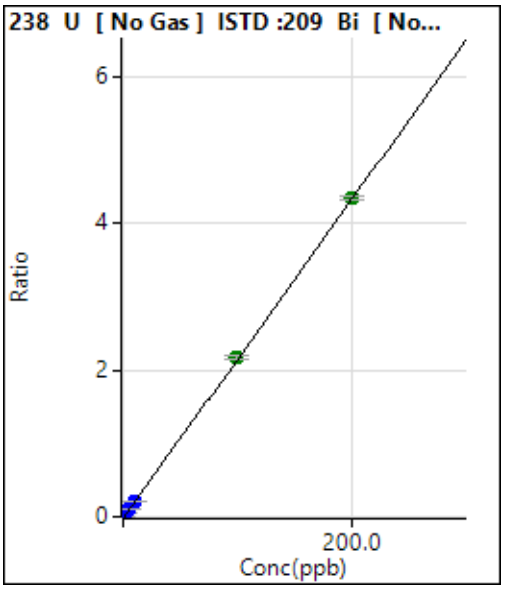
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2453.48	0.0006	P	9.6	
2	☐	2.000	1.971	175694.29	0.0393	P	1.5	-1.5
3	☐	5.000	4.967	436520.08	0.0983	P	0.8	-0.7
4	☐	10.000	10.067	879014.41	0.1987	P	1.4	0.7
5	☐	100.000	100.923	8502516.96	1.9870	A	2.1	0.9
6	☐	200.000	199.536	16087250.90	3.9280	A	1.4	-0.2

y = 0.0197 * x + 5.5256E-004
R = 1.0000
DL = 0.008093 ppb
BEC = 0.02807 ppb

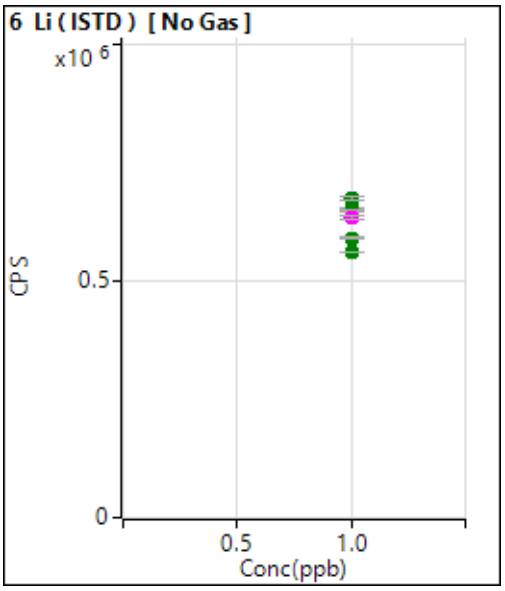
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Min Conc: <None>



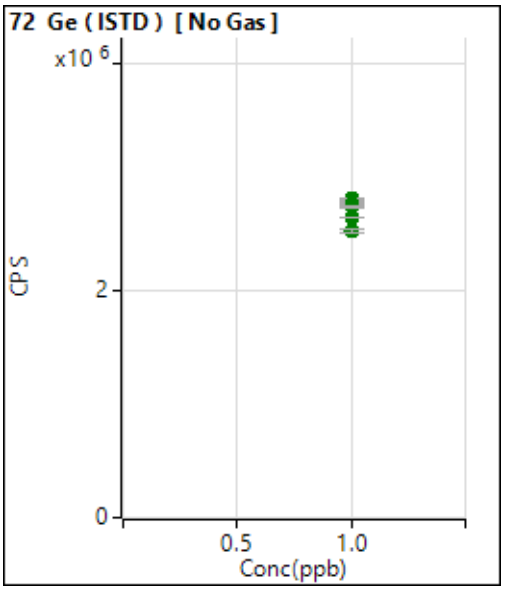
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	946.72	0.0002	P	11.6	
2	☐	2.000	1.861	181783.88	0.0407	P	1.6	-6.9
3	☐	5.000	4.617	446874.67	0.1007	P	1.2	-7.7
4	☐	10.000	9.487	913978.76	0.2066	P	1.6	-5.1
5	☐	100.000	100.029	9312190.48	2.1762	A	1.6	0.0
6	☐	200.000	200.022	17821171.40	4.3514	A	1.6	0.0

y = 0.0218 * x + 2.1323E-004
R = 1.0000
DL = 0.003397 ppb
BEC = 0.009802 ppb

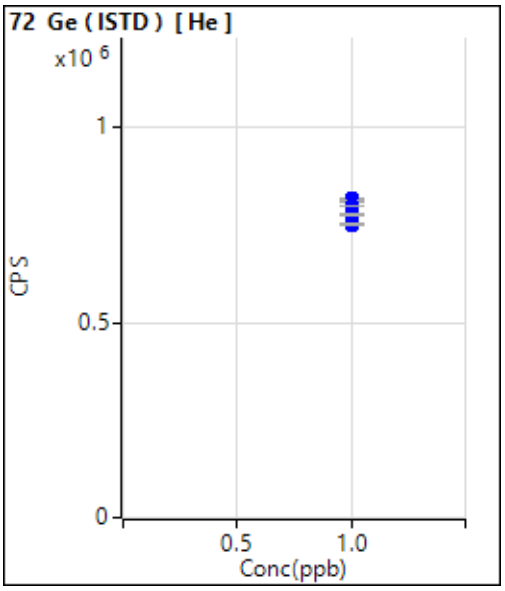
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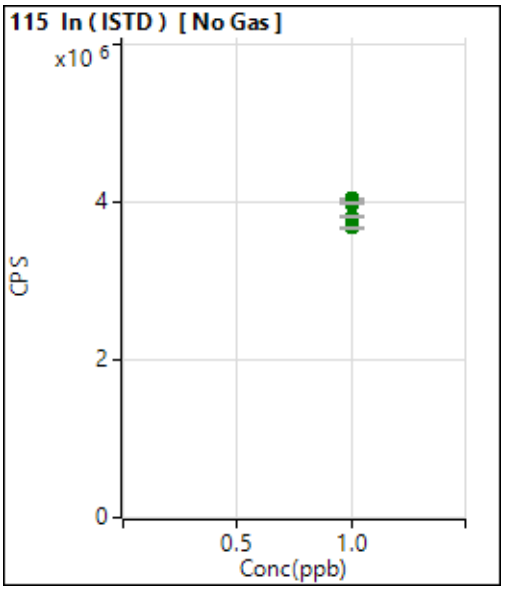
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		676146.54		A	0.9	
2	☐	1.000		654864.22		A	0.4	
3	☐	1.000		649678.19		A	0.7	
4	☐	1.000		635425.95		M	1.2	
5	☐	1.000		591754.24		A	0.4	
6	☐	1.000		561418.97		A	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2818142.46		A	0.5	
2	☐	1.000		2806502.77		A	0.5	
3	☐	1.000		2774129.65		A	0.5	
4	☐	1.000		2748944.44		A	0.7	
5	☐	1.000		2650222.57		A	0.3	
6	☐	1.000		2529720.64		A	0.9	

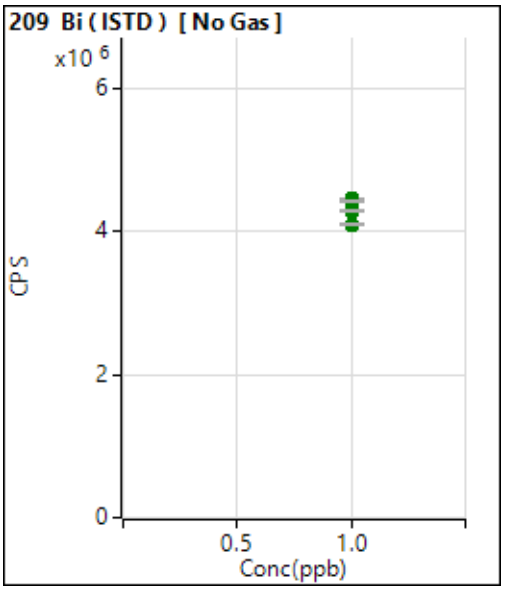


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		817937.77		P	0.3	
2	☐	1.000		813344.18		P	0.5	
3	☐	1.000		810633.24		P	0.9	
4	☐	1.000		798412.41		P	0.2	
5	☐	1.000		775375.07		P	0.4	
6	☐	1.000		750563.14		P	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4040052.29		A	1.0	
2	☐	1.000		4053897.21		A	0.3	
3	☐	1.000		4025000.67		A	0.6	
4	☐	1.000		3989670.88		A	0.4	
5	☐	1.000		3821163.54		A	0.8	
6	☐	1.000		3676850.33		A	0.5	

Calibration for 209_ICV.d



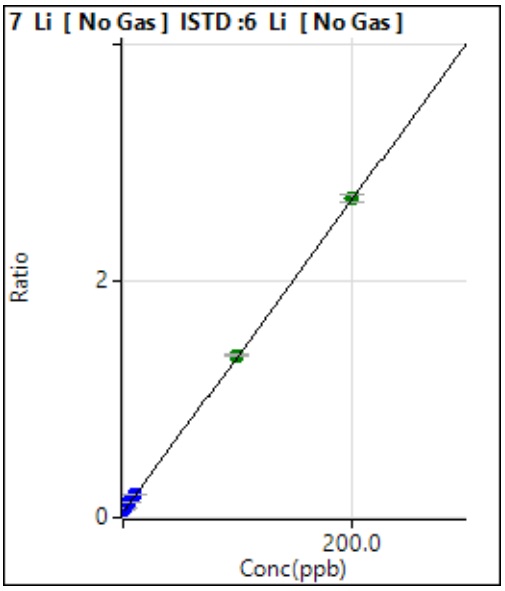
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4442679.10		A	1.1	
2	☐	1.000		4465881.39		A	0.5	
3	☐	1.000		4439558.99		A	0.5	
4	☐	1.000		4424313.06		A	0.7	
5	☐	1.000		4279282.33		A	0.7	
6	☐	1.000		4095807.86		A	0.9	

Calibration for 163_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	156CALB.d	CAL BLK	7/1/2024 5:24:33 PM
2	157CALS.d	2/10/200	7/1/2024 5:27:04 PM
3	158CALS.d	5/25/500	7/1/2024 5:29:35 PM
4	159CALS.d	10/50/100	7/1/2024 5:32:06 PM
5	160CALS.d	100/500/10K	7/1/2024 5:34:37 PM
6	161CALS.d	200/1000/20K	7/1/2024 5:37:08 PM

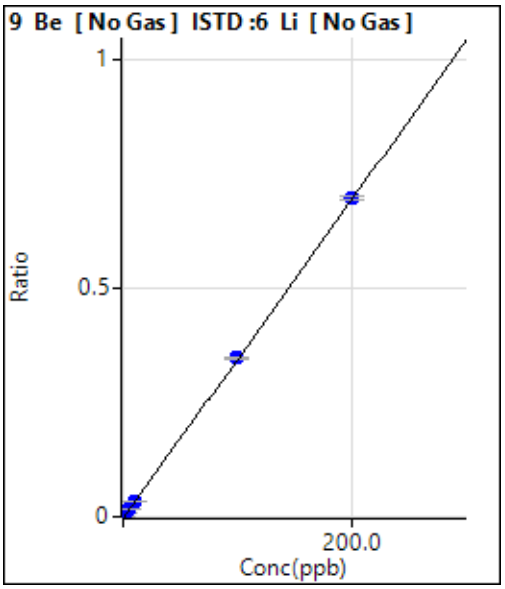
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	42264.12	0.0597	P	1.3	
2	☐	2.000	1.950	59064.99	0.0854	P	1.0	-2.5
3	☐	5.000	4.924	83576.35	0.1245	P	1.2	-1.5
4	☐	10.000	9.811	123047.15	0.1889	P	0.9	-1.9
5	☐	100.000	99.472	816100.98	1.3692	A	1.7	-0.5
6	☐	200.000	200.276	1493336.54	2.6963	A	1.9	0.1

y = 0.0132 * x + 0.0597
R = 1.0000
DL = 0.1722 ppb
BEC = 4.535 ppb

Weight: <None>
Min Conc: <None>

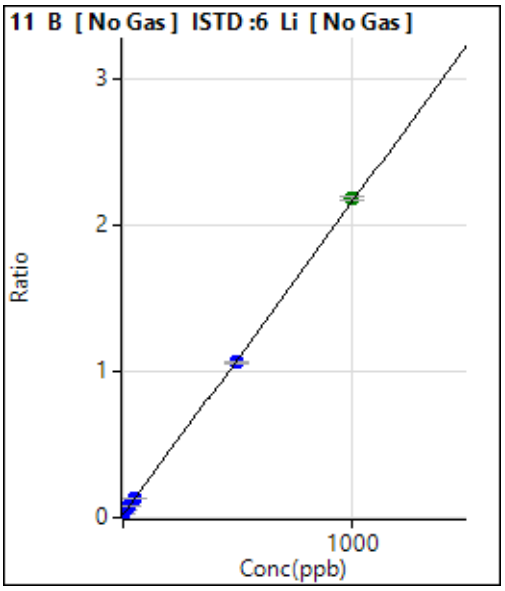


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	27.2	
2	☐	2.000	1.933	4694.14	0.0068	P	3.5	-3.3
3	☐	5.000	4.862	11399.64	0.0170	P	2.9	-2.8
4	☐	10.000	9.708	22060.50	0.0339	P	1.7	-2.9
5	☐	100.000	99.686	206943.22	0.3472	P	1.9	-0.3
6	☐	200.000	200.175	386122.84	0.6971	P	1.1	0.1

y = 0.0035 * x + 5.1670E-005
R = 1.0000
DL = 0.01213 ppb
BEC = 0.01484 ppb

Weight: <None>
Min Conc: <None>

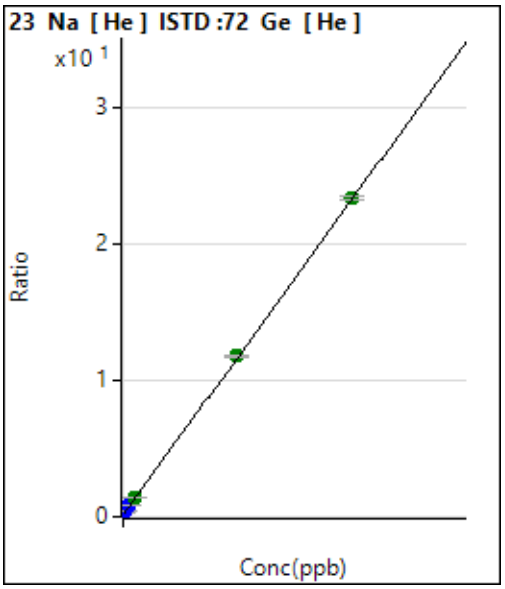
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21718.32	0.0307	P	1.1	
2	☐	10.000	8.579	33888.72	0.0490	P	1.1	-14.2
3	☐	25.000	22.235	52421.16	0.0781	P	1.3	-11.1
4	☐	50.000	46.306	84331.47	0.1294	P	0.3	-7.4
5	☐	500.000	483.266	632606.99	1.0614	P	1.3	-3.3
6	☐	1000.000	1008.635	1208460.82	2.1819	A	0.8	0.9

y = 0.0021 * x + 0.0307
R = 0.9998
DL = 0.4721 ppb
BEC = 14.39 ppb

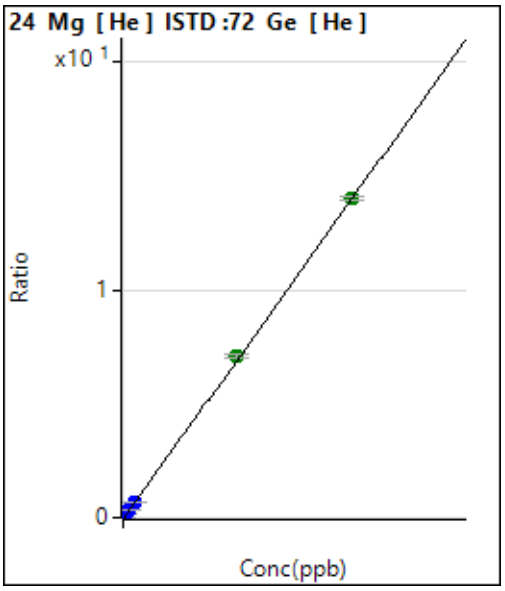
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	215663.67	0.2636	P	1.1	
2	☐	200.000	180.054	381030.37	0.4718	P	1.5	-10.0
3	☐	500.000	470.962	641829.85	0.8081	P	1.7	-5.8
4	☐	1000.000	944.323	1058357.77	1.3554	A	1.8	-5.6
5	☐	10000.00	9977.976	8831050.70	11.7999	A	1.6	-0.2
6	☐	20000.00	20014.72	16844299.33	23.4041	A	1.4	0.1

y = 0.0012 * x + 0.2636
R = 1.0000
DL = 7.519 ppb
BEC = 228 ppb

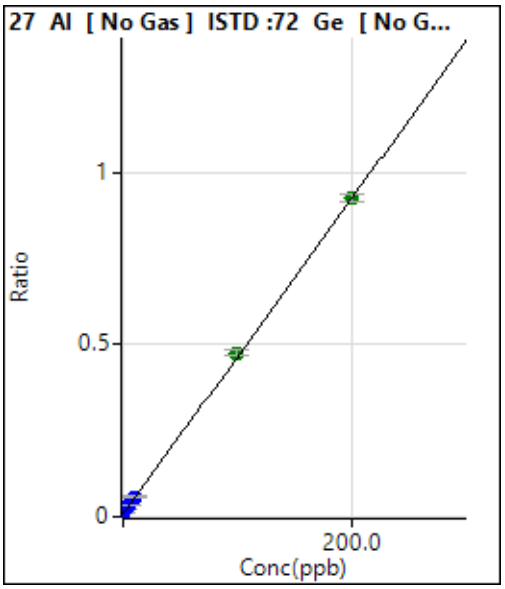
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3347.13	0.0041	P	8.6	
2	☐	200.000	203.655	118880.45	0.1472	P	2.3	1.8
3	☐	500.000	516.794	291664.90	0.3672	P	1.8	3.4
4	☐	1000.000	1002.320	553144.44	0.7084	P	2.3	0.2
5	☐	10000.00	10074.44	5300990.96	7.0833	A	2.0	0.7
6	☐	20000.00	19962.20	10098622.56	14.0314	A	1.3	-0.2

y = 7.0269E-004 * x + 0.0041
R = 1.0000
DL = 1.496 ppb
BEC = 5.822 ppb

Weight: <None>
Min Conc: <None>

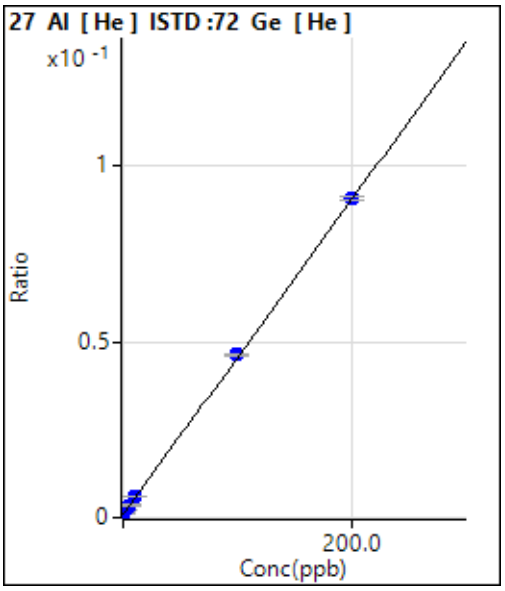


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35331.37	0.0125	P	3.0	
2	☐	2.000	2.075	61517.77	0.0220	P	2.0	3.8
3	☐	5.000	5.053	97817.63	0.0356	P	0.7	1.1
4	☐	10.000	10.042	157647.83	0.0585	P	1.9	0.4
5	☐	100.000	101.315	1211160.84	0.4764	A	3.3	1.3
6	☐	200.000	199.338	2250657.00	0.9253	A	1.9	-0.3

y = 0.0046 * x + 0.0125
R = 1.0000
DL = 0.2461 ppb
BEC = 2.723 ppb

Weight: <None>
Min Conc: <None>

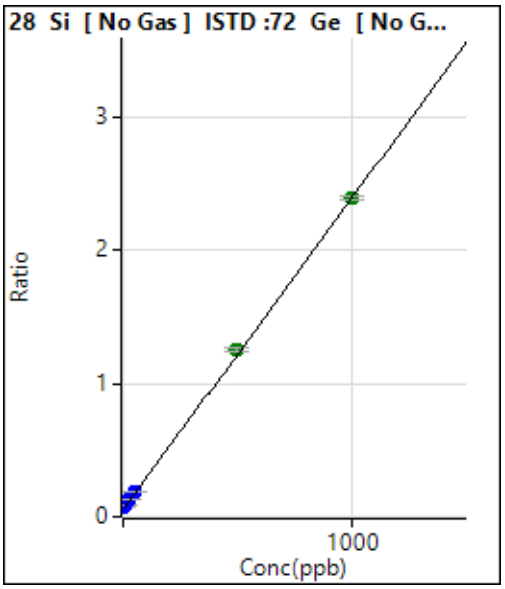
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1096.73	0.0013	P	9.1	
2	☐	2.000	1.405	1590.12	0.0020	P	4.8	-29.8
3	☐	5.000	4.940	2820.33	0.0036	P	8.7	-1.2
4	☐	10.000	9.941	4520.81	0.0058	P	0.8	-0.6
5	☐	100.000	100.326	34602.82	0.0462	P	1.9	0.3
6	☐	200.000	199.848	65334.74	0.0908	P	1.7	-0.1

y = 4.4754E-004 * x + 0.0013
R = 1.0000
DL = 0.8189 ppb
BEC = 2.995 ppb

Weight: <None>
Min Conc: <None>

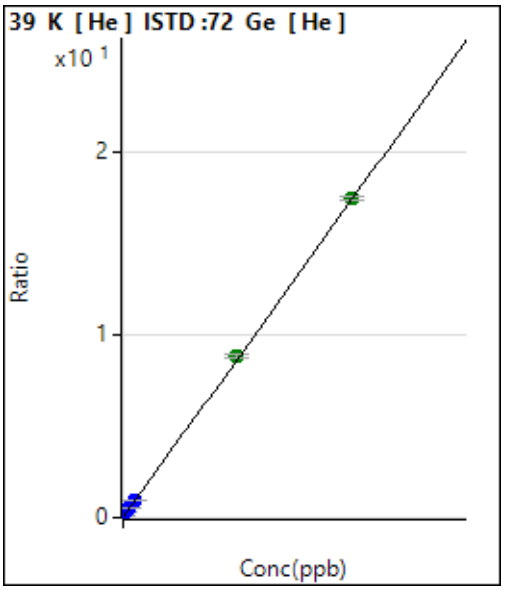


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	187836.87	0.0663	P	1.1	
2	☐	10.000	10.424	253718.27	0.0906	P	0.5	4.2
3	☐	25.000	25.553	345963.11	0.1259	P	0.6	2.2
4	☐	50.000	51.063	500271.88	0.1855	P	1.8	2.1
5	☐	500.000	507.315	3179637.76	1.2507	A	2.9	1.5
6	☐	1000.000	996.271	5818730.95	2.3922	A	1.6	-0.4

y = 0.0023 * x + 0.0663
R = 1.0000
DL = 0.9517 ppb
BEC = 28.4 ppb

Weight: <None>
Min Conc: <None>

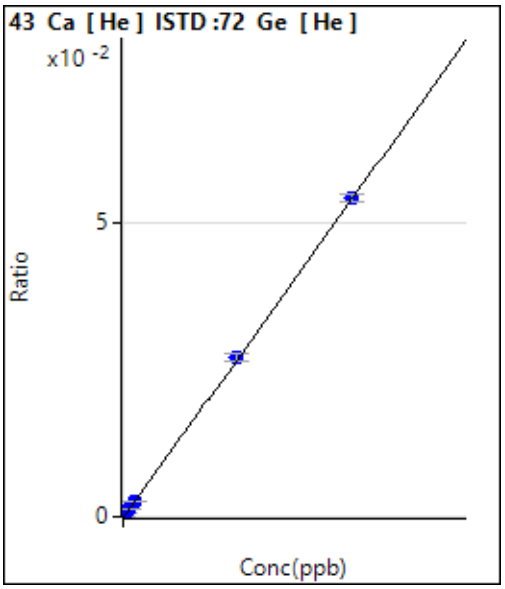
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80914.02	0.0989	P	0.5	
2	☐	200.000	204.750	223390.15	0.2766	P	2.1	2.4
3	☐	500.000	519.028	436318.40	0.5494	P	2.0	3.8
4	☐	1000.000	998.254	753720.61	0.9653	P	2.4	-0.2
5	☐	10000.00	10018.27	6581369.07	8.7938	A	2.4	0.2
6	☐	20000.00	19990.42	12558216.06	17.4486	A	0.9	0.0

y = 8.6790E-004 * x + 0.0989
R = 1.0000
DL = 1.549 ppb
BEC = 114 ppb

Weight: <None>
Min Conc: <None>

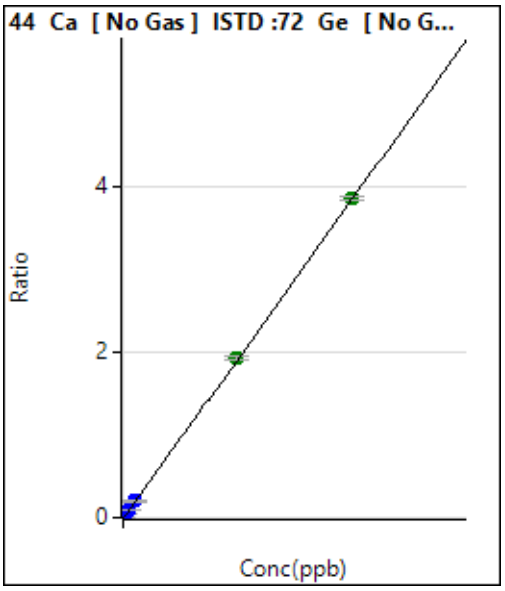


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0000	P	34.4	
2	☐	200.000	221.938	520.02	0.0006	P	3.8	11.0
3	☐	500.000	499.209	1110.06	0.0014	P	10.6	-0.2
4	☐	1000.000	949.468	2046.86	0.0026	P	3.6	-5.1
5	☐	10000.00	10008.88	20388.49	0.0272	P	5.0	0.1
6	☐	20000.00	19997.88	39151.96	0.0544	P	2.3	0.0

y = 2.7181E-006 * x + 4.0717E-005
R = 1.0000
DL = 15.47 ppb
BEC = 14.98 ppb

Weight: <None>
Min Conc: <None>

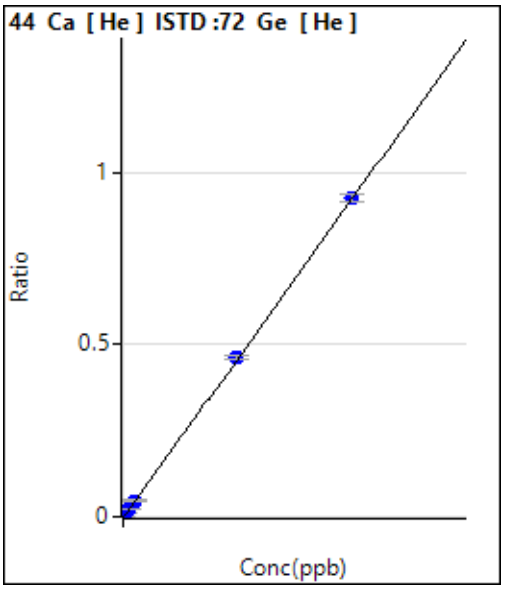
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13326.57	0.0047	P	3.3	
2	☐	200.000	204.493	123742.55	0.0442	P	0.9	2.2
3	☐	500.000	511.953	284548.71	0.1036	P	1.6	2.4
4	☐	1000.000	1010.399	538985.91	0.1999	P	2.2	1.0
5	☐	10000.00	9998.754	4921919.09	1.9359	A	2.8	0.0
6	☐	20000.00	19999.75	9407650.49	3.8676	A	1.7	0.0

y = 1.9315E-004 * x + 0.0047
R = 1.0000
DL = 2.417 ppb
BEC = 24.35 ppb

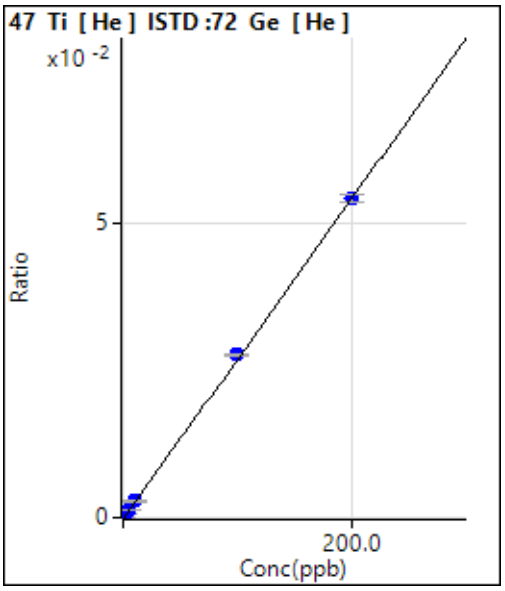
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	583.36	0.0007	P	11.1	
2	☐	200.000	204.410	8225.89	0.0102	P	4.4	2.2
3	☐	500.000	506.839	19223.59	0.0242	P	3.8	1.4
4	☐	1000.000	1007.081	37002.77	0.0474	P	2.6	0.7
5	☐	10000.00	10013.44	347865.00	0.4648	P	2.6	0.1
6	☐	20000.00	19992.71	667409.34	0.9273	P	1.9	0.0

y = 4.6348E-005 * x + 7.1306E-004
R = 1.0000
DL = 5.134 ppb
BEC = 15.38 ppb

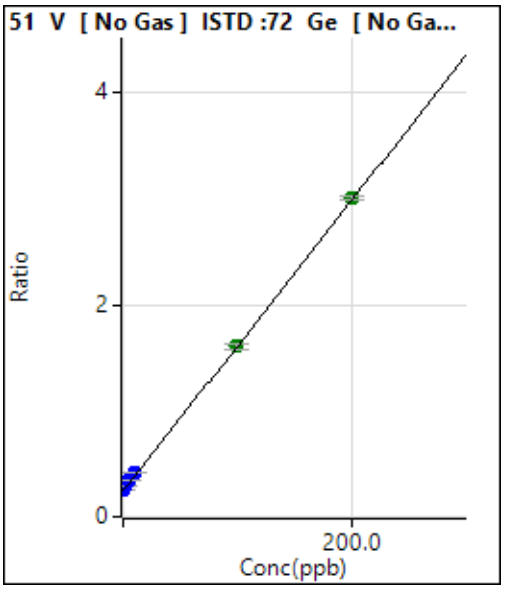
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.5	
2	☐	2.000	1.909	436.68	0.0005	P	8.9	-4.6
3	☐	5.000	4.591	1010.06	0.0013	P	3.4	-8.2
4	☐	10.000	10.170	2180.21	0.0028	P	5.1	1.7
5	☐	100.000	101.471	20715.68	0.0277	P	2.0	1.5
6	☐	200.000	199.267	39105.39	0.0543	P	1.8	-0.4

y = 2.7257E-004 * x + 2.0322E-005
R = 1.0000
DL = 0.2046 ppb
BEC = 0.07456 ppb

Weight: <None>
Min Conc: <None>

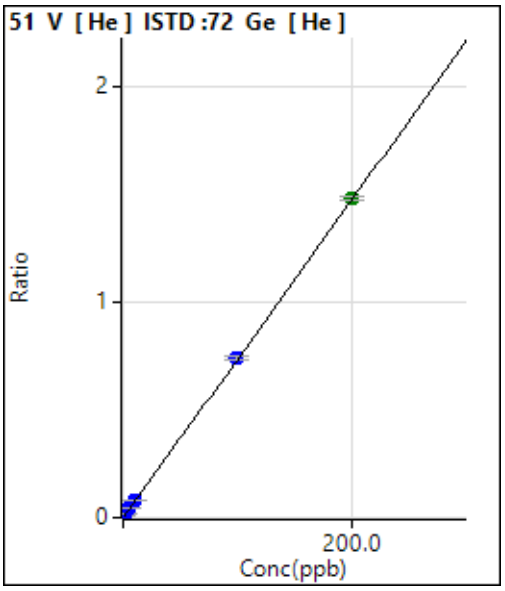


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	731962.02	0.2583	P	1.2	
2	☐	2.000	2.550	821022.97	0.2933	P	0.6	27.5
3	☐	5.000	6.029	936552.71	0.3410	P	1.0	20.6
4	☐	10.000	11.482	1121095.36	0.4157	P	1.2	14.8
5	☐	100.000	98.528	4090317.01	1.6088	A	3.2	-1.5
6	☐	200.000	200.631	7317403.13	3.0083	A	1.6	0.3

y = 0.0137 * x + 0.2583
R = 0.9999
DL = 0.6599 ppb
BEC = 18.85 ppb

Weight: <None>
Min Conc: <None>

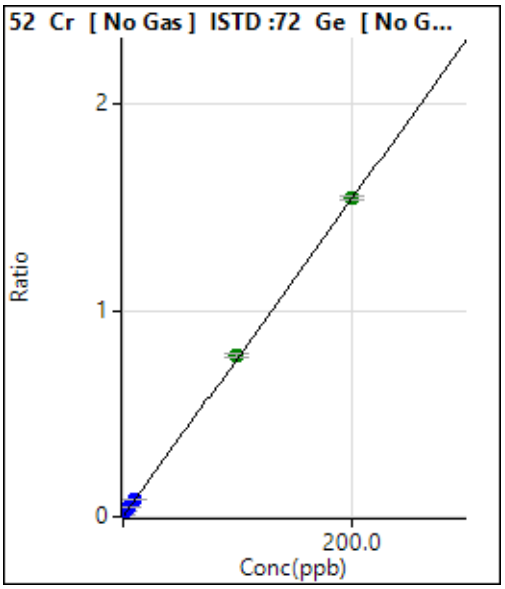
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5069.84	0.0062	P	0.8	
2	☐	2.000	2.011	16997.11	0.0210	P	2.8	0.5
3	☐	5.000	4.998	34241.06	0.0431	P	2.1	0.0
4	☐	10.000	9.782	61249.96	0.0784	P	2.0	-2.2
5	☐	100.000	99.808	556315.29	0.7434	P	2.0	-0.2
6	☐	200.000	200.107	1068152.46	1.4841	A	1.7	0.1

y = 0.0074 * x + 0.0062
R = 1.0000
DL = 0.019 ppb
BEC = 0.8391 ppb

Weight: <None>
Min Conc: <None>

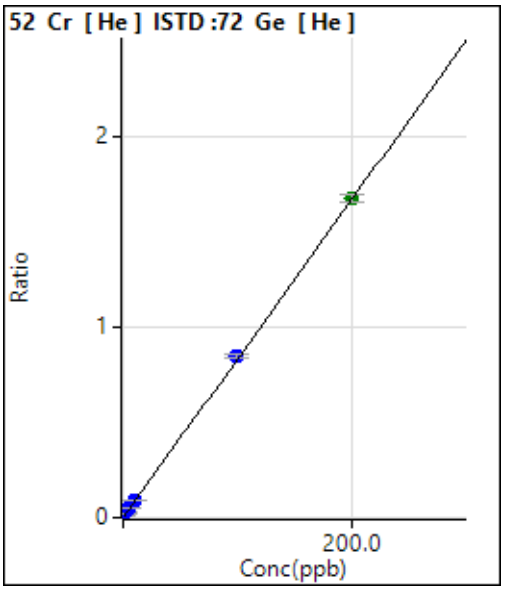


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26365.32	0.0093	P	2.8	
2	☐	2.000	2.090	71061.86	0.0254	P	0.7	4.5
3	☐	5.000	5.220	135864.82	0.0495	P	1.8	4.4
4	☐	10.000	10.107	234764.62	0.0871	P	2.5	1.1
5	☐	100.000	100.522	1989602.42	0.7825	A	2.5	0.5
6	☐	200.000	199.727	3759688.80	1.5456	A	1.4	-0.1

y = 0.0077 * x + 0.0093
R = 1.0000
DL = 0.1017 ppb
BEC = 1.21 ppb

Weight: <None>
Min Conc: <None>

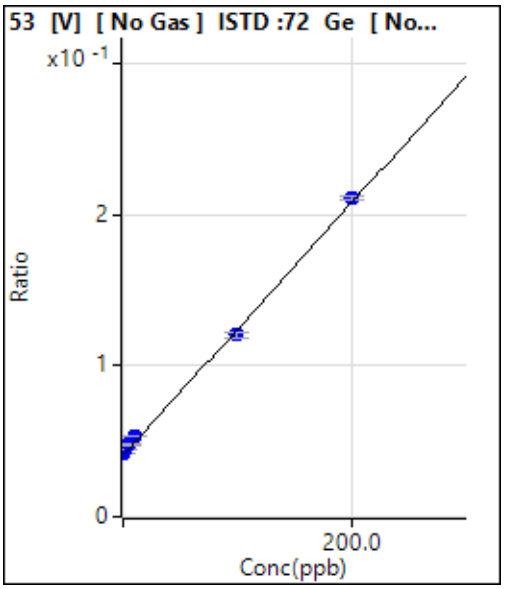
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6845.14	0.0084	P	3.2	
2	☐	2.000	2.028	20418.59	0.0253	P	3.1	1.4
3	☐	5.000	5.115	40532.94	0.0510	P	3.0	2.3
4	☐	10.000	9.989	71597.76	0.0917	P	1.8	-0.1
5	☐	100.000	100.334	632624.74	0.8453	P	2.2	0.3
6	☐	200.000	199.831	1205715.71	1.6753	A	2.3	-0.1

y = 0.0083 * x + 0.0084
R = 1.0000
DL = 0.09646 ppb
BEC = 1.003 ppb

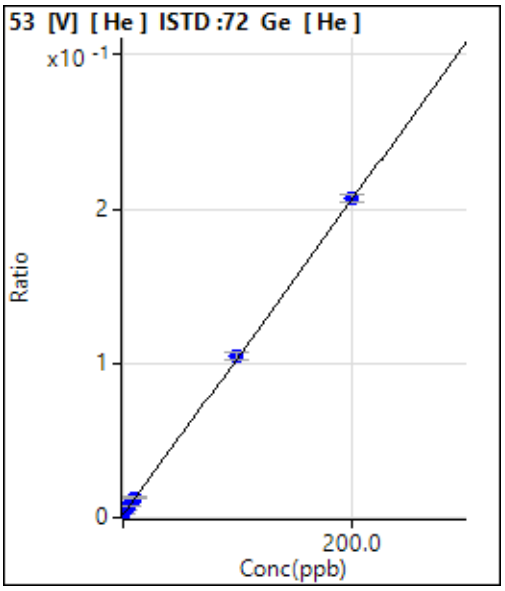
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	118541.11	0.0418	P	0.9	
2	☐	2.000	3.546	125421.13	0.0448	P	0.7	77.3
3	☐	5.000	7.472	132075.74	0.0481	P	1.6	49.4
4	☐	10.000	13.822	144003.43	0.0534	P	1.1	38.2
5	☐	100.000	94.275	306864.11	0.1207	P	3.1	-5.7
6	☐	200.000	202.594	513962.45	0.2113	P	1.3	1.3

y = 8.3645E-004 * x + 0.0418
R = 0.9991
DL = 1.379 ppb
BEC = 50.02 ppb

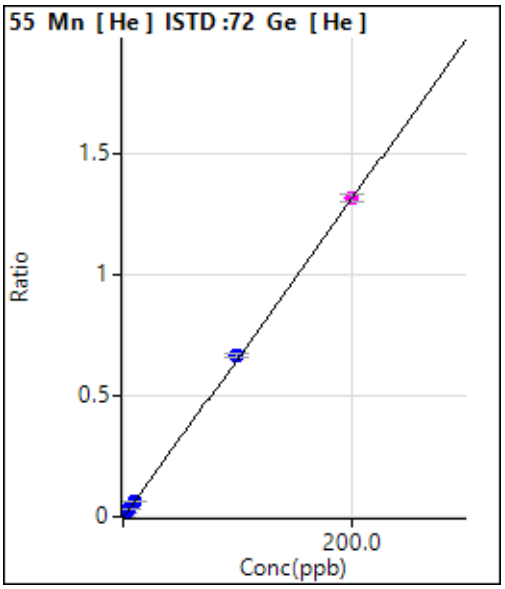
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2246.90	0.0027	P	2.8	
2	☐	2.000	1.826	3723.91	0.0046	P	2.0	-8.7
3	☐	5.000	4.993	6228.19	0.0078	P	4.2	-0.1
4	☐	10.000	10.077	10173.91	0.0130	P	3.5	0.8
5	☐	100.000	99.881	78331.27	0.1047	P	3.8	-0.1
6	☐	200.000	200.057	148896.70	0.2069	P	2.3	0.0

y = 0.0010 * x + 0.0027
R = 1.0000
DL = 0.2276 ppb
BEC = 2.692 ppb

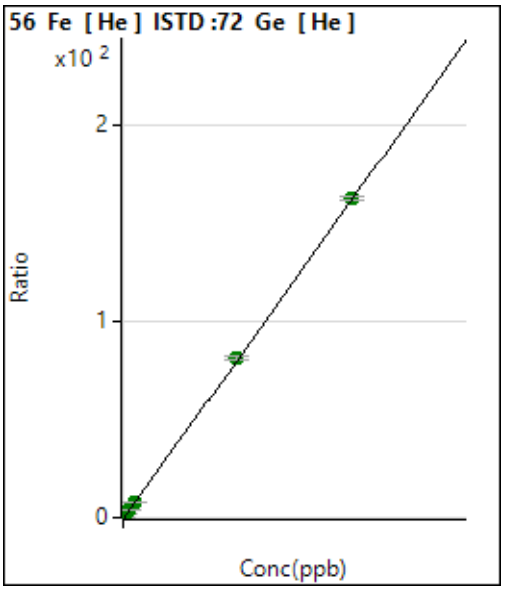
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	773.37	0.0009	P	2.7	
2	☐	2.000	1.983	11314.81	0.0140	P	4.0	-0.9
3	☐	5.000	4.980	26812.96	0.0338	P	1.2	-0.4
4	☐	10.000	9.910	51720.51	0.0662	P	2.1	-0.9
5	☐	100.000	100.600	496763.64	0.6638	P	2.2	0.6
6	☐	200.000	199.705	947676.76	1.3168	M	2.4	-0.1

y = 0.0066 * x + 9.4537E-004
R = 1.0000
DL = 0.01162 ppb
BEC = 0.1435 ppb

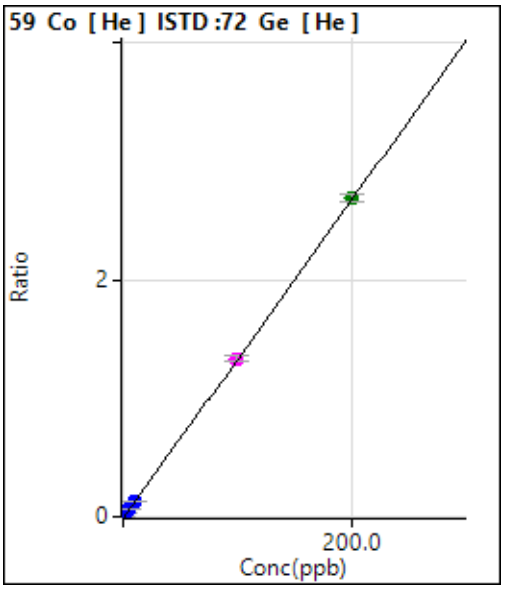
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13730.28	0.0168	P	1.5	
2	☐	200.000	198.797	1320538.76	1.6351	A	2.4	-0.6
3	☐	500.000	505.734	3283166.31	4.1339	A	1.8	1.1
4	☐	1000.000	993.722	6329612.61	8.1065	A	2.7	-0.6
5	☐	10000.00	9982.372	60828345.76	81.2811	A	2.3	-0.2
6	☐	20000.00	20008.99	117245044.9	162.905	A	1.6	0.0

y = 0.0081 * x + 0.0168
R = 1.0000
DL = 0.08983 ppb
BEC = 2.062 ppb

Weight: <None>
Min Conc: <None>

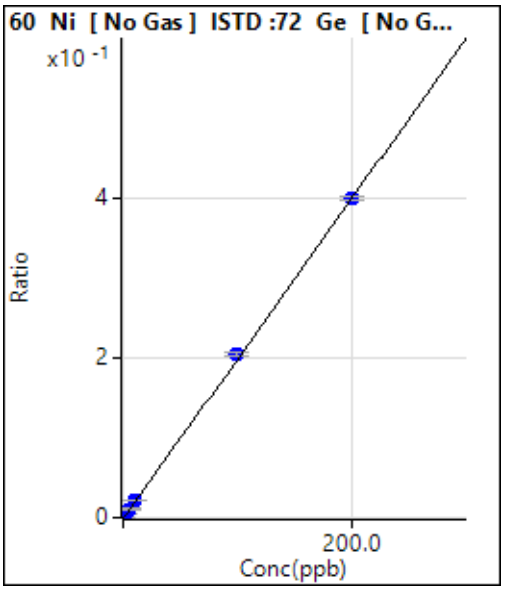


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	110.00	0.0001	P	24.0	
2	☐	2.000	1.969	21476.99	0.0266	P	0.8	-1.5
3	☐	5.000	5.034	53832.06	0.0678	P	3.9	0.7
4	☐	10.000	9.806	102986.21	0.1319	P	1.9	-1.9
5	☐	100.000	99.488	1000576.47	1.3369	M	2.6	-0.5
6	☐	200.000	200.265	1936777.37	2.6911	A	2.0	0.1

y = 0.0134 * x + 1.3445E-004
R = 1.0000
DL = 0.007216 ppb
BEC = 0.01001 ppb

Weight: <None>
Min Conc: <None>

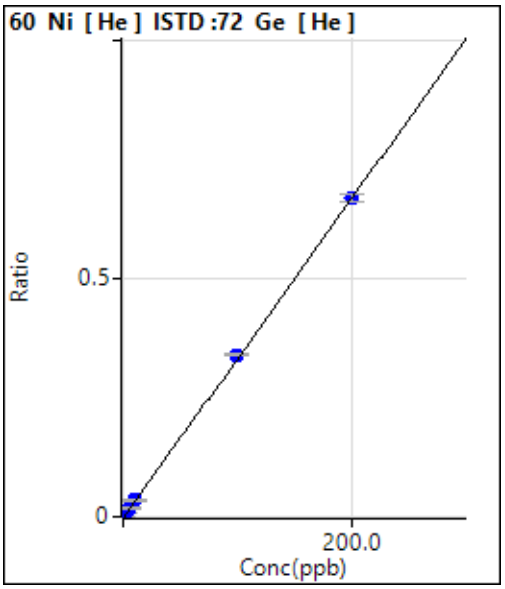
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1446.78	0.0005	P	9.0	
2	☐	2.000	2.095	13166.49	0.0047	P	0.9	4.8
3	☐	5.000	5.131	29605.47	0.0108	P	2.4	2.6
4	☐	10.000	10.332	57135.34	0.0212	P	1.7	3.3
5	☐	100.000	101.492	517667.22	0.2036	P	2.1	1.5
6	☐	200.000	199.233	971011.86	0.3992	P	1.2	-0.4

y = 0.0020 * x + 5.1042E-004
R = 1.0000
DL = 0.06852 ppb
BEC = 0.2551 ppb

Weight: <None>
Min Conc: <None>

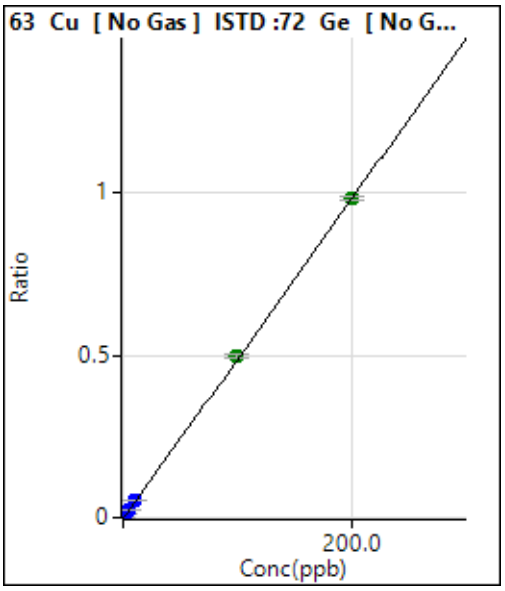


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	200.01	0.0002	P	26.4	
2	☐	2.000	1.979	5564.56	0.0069	P	2.8	-1.0
3	☐	5.000	5.251	14194.21	0.0179	P	3.9	5.0
4	☐	10.000	10.236	27020.09	0.0346	P	1.9	2.4
5	☐	100.000	101.222	254461.10	0.3400	P	1.4	1.2
6	☐	200.000	199.371	481835.16	0.6695	P	1.9	-0.3

y = 0.0034 * x + 2.4469E-004
R = 1.0000
DL = 0.05764 ppb
BEC = 0.07289 ppb

Weight: <None>
Min Conc: <None>

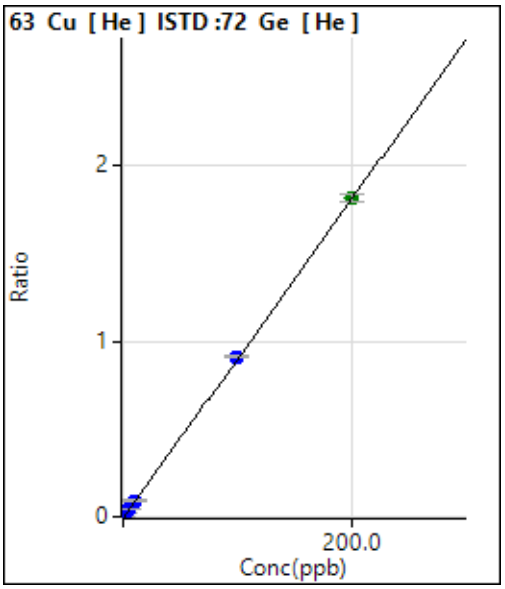
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2430.26	0.0009	P	7.9	
2	☐	2.000	2.078	31038.65	0.0111	P	1.0	3.9
3	☐	5.000	5.185	72486.85	0.0264	P	0.2	3.7
4	☐	10.000	10.191	137632.60	0.0510	P	2.5	1.9
5	☐	100.000	101.268	1269974.51	0.4995	A	2.2	1.3
6	☐	200.000	199.351	2389738.82	0.9824	A	1.1	-0.3

y = 0.0049 * x + 8.5799E-004
R = 1.0000
DL = 0.04151 ppb
BEC = 0.1742 ppb

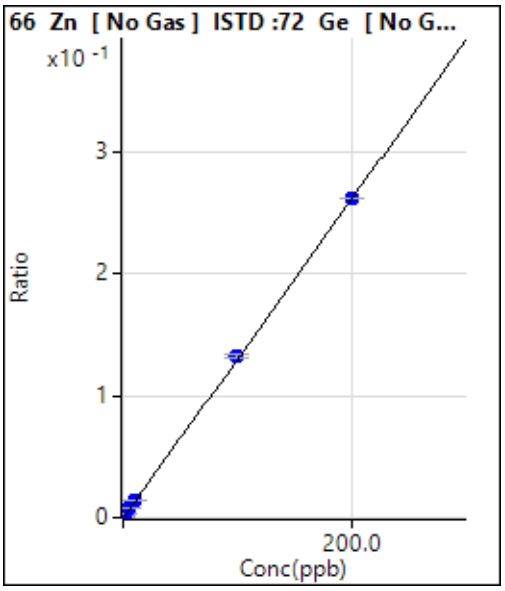
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	543.36	0.0007	P	11.5	
2	☐	2.000	2.035	15462.25	0.0191	P	3.6	1.8
3	☐	5.000	5.194	37976.08	0.0478	P	1.1	3.9
4	☐	10.000	10.045	71726.60	0.0919	P	2.6	0.5
5	☐	100.000	100.405	682669.99	0.9122	P	1.0	0.4
6	☐	200.000	199.790	1305882.12	1.8145	A	2.1	-0.1

y = 0.0091 * x + 6.6429E-004
R = 1.0000
DL = 0.02516 ppb
BEC = 0.07317 ppb

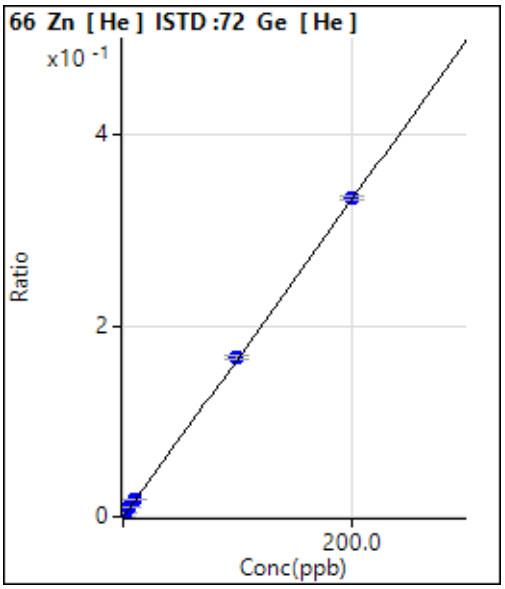
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2296.90	0.0008	P	6.6	
2	☐	2.000	2.078	9873.72	0.0035	P	4.3	3.9
3	☐	5.000	5.110	20575.69	0.0075	P	2.7	2.2
4	☐	10.000	10.316	38554.36	0.0143	P	1.1	3.2
5	☐	100.000	100.811	337121.65	0.1326	P	2.1	0.8
6	☐	200.000	199.575	636574.29	0.2617	P	0.4	-0.2

y = 0.0013 * x + 8.1046E-004
R = 1.0000
DL = 0.1228 ppb
BEC = 0.62 ppb

Weight: <None>
Min Conc: <None>

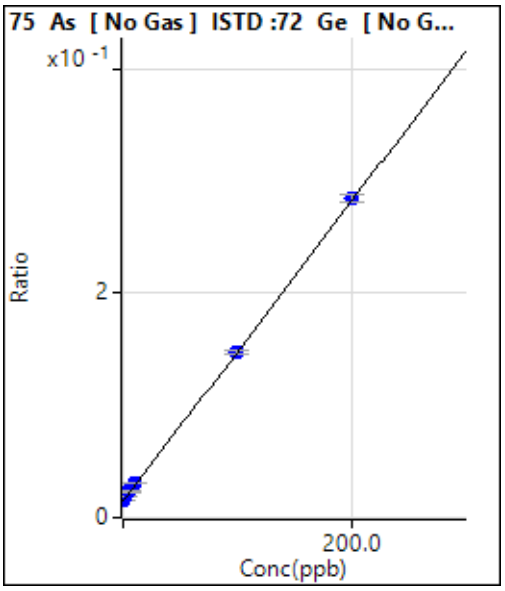


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	806.71	0.0010	P	3.6	
2	☐	2.000	2.078	3587.20	0.0044	P	0.8	3.9
3	☐	5.000	5.105	7525.53	0.0095	P	2.8	2.1
4	☐	10.000	9.803	13500.13	0.0173	P	0.8	-2.0
5	☐	100.000	99.665	124766.01	0.1667	P	1.5	-0.3
6	☐	200.000	200.174	240282.09	0.3339	P	1.6	0.1

y = 0.0017 * x + 9.8622E-004
R = 1.0000
DL = 0.06373 ppb
BEC = 0.5931 ppb

Weight: <None>
Min Conc: <None>

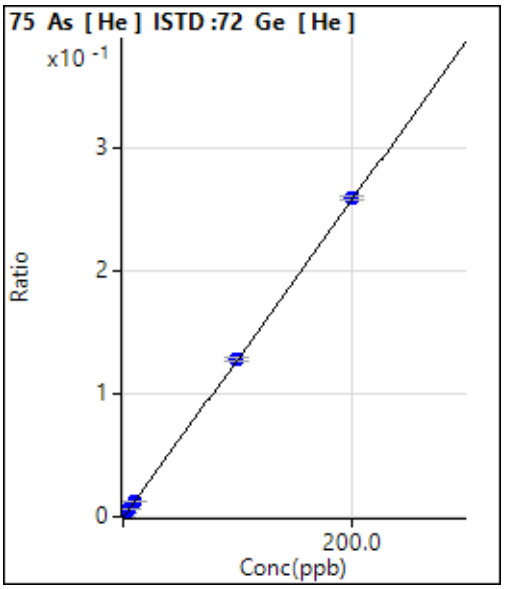
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	45007.99	0.0159	P	1.9	
2	☐	2.000	2.024	52042.61	0.0186	P	2.2	1.2
3	☐	5.000	5.455	63665.12	0.0232	P	1.9	9.1
4	☐	10.000	10.910	82179.53	0.0305	P	0.2	9.1
5	☐	100.000	98.203	374208.40	0.1472	P	2.0	-1.8
6	☐	200.000	200.841	691819.94	0.2844	P	2.2	0.4

y = 0.0013 * x + 0.0159
R = 0.9999
DL = 0.6599 ppb
BEC = 11.88 ppb

Weight: <None>
Min Conc: <None>

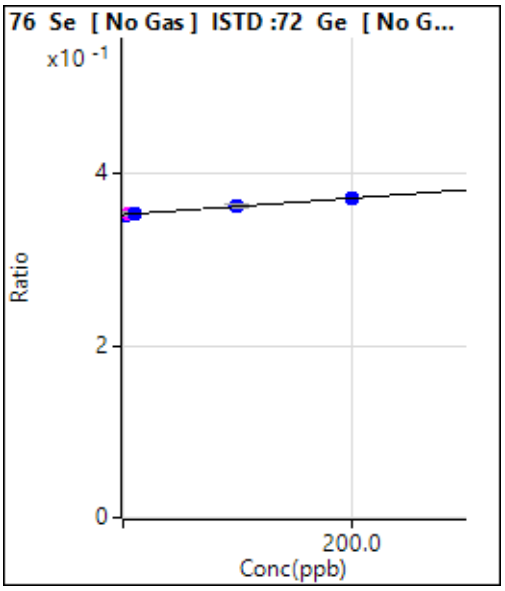


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	266.67	0.0003	P	9.6	
2	☐	2.000	1.986	2339.10	0.0029	P	3.0	-0.7
3	☐	5.000	4.899	5296.61	0.0067	P	5.2	-2.0
4	☐	10.000	9.765	10126.02	0.0130	P	3.6	-2.4
5	☐	100.000	99.033	96195.03	0.1285	P	1.7	-1.0
6	☐	200.000	200.498	187063.29	0.2599	P	0.8	0.2

y = 0.0013 * x + 3.2601E-004
R = 1.0000
DL = 0.07266 ppb
BEC = 0.2518 ppb

Weight: <None>
Min Conc: <None>

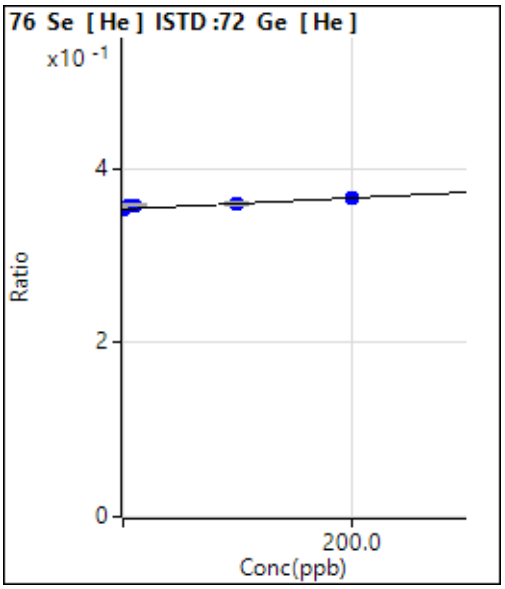
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	998333.11	0.3523	M	1.2	
2	☐	2.000	-7.974	984195.71	0.3516	P	0.4	-498.7
3	☐	5.000	14.291	971631.13	0.3537	M	1.3	185.8
4	☐	10.000	8.119	952313.37	0.3531	P	0.3	-18.8
5	☐	100.000	106.506	922016.68	0.3626	P	0.7	6.5
6	☐	200.000	196.709	903339.70	0.3714	P	0.6	-1.6

y = 9.6737E-005 * x + 0.3523
R = 0.9964
DL = 126.6 ppb
BEC = 3642 ppb

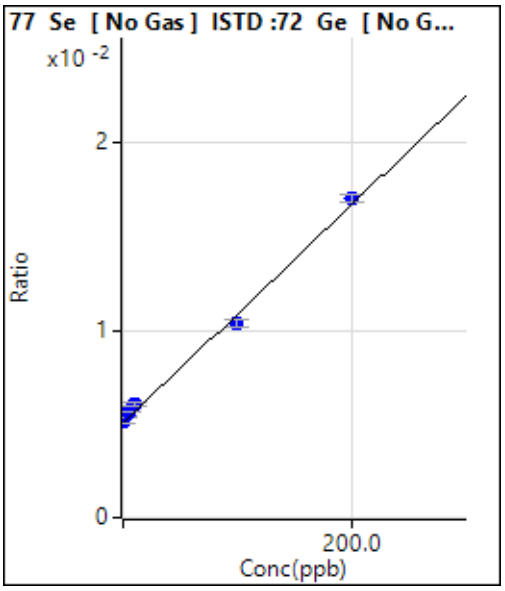
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	289503.37	0.3539	P	0.6	
2	☐	2.000	36.263	287723.25	0.3562	P	1.0	1713.2
3	☐	5.000	62.484	284294.40	0.3580	P	1.2	1149.7
4	☐	10.000	79.437	280382.55	0.3591	P	0.5	694.4
5	☐	100.000	91.474	269291.94	0.3598	P	1.3	-8.5
6	☐	200.000	199.012	264034.70	0.3668	P	0.4	-0.5

y = 6.5140E-005 * x + 0.3539
R = 0.9176
DL = 104.5 ppb
BEC = 5433 ppb

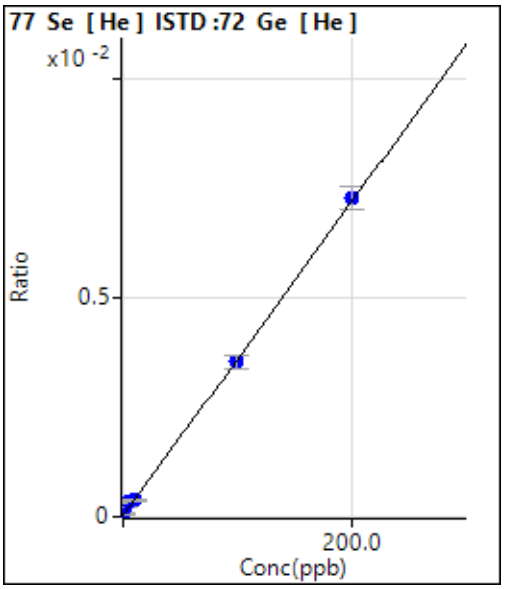
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14604.76	0.0052	P	5.7	
2	☐	2.000	4.531	15168.67	0.0054	P	2.8	126.5
3	☐	5.000	8.739	15555.73	0.0057	P	0.9	74.8
4	☐	10.000	15.485	16330.01	0.0061	P	2.3	54.9
5	☐	100.000	89.867	26379.23	0.0104	P	3.8	-10.1
6	☐	200.000	204.673	41470.13	0.0170	P	2.2	2.3

y = 5.8106E-005 * x + 0.0052
R = 0.9975
DL = 15.08 ppb
BEC = 88.72 ppb

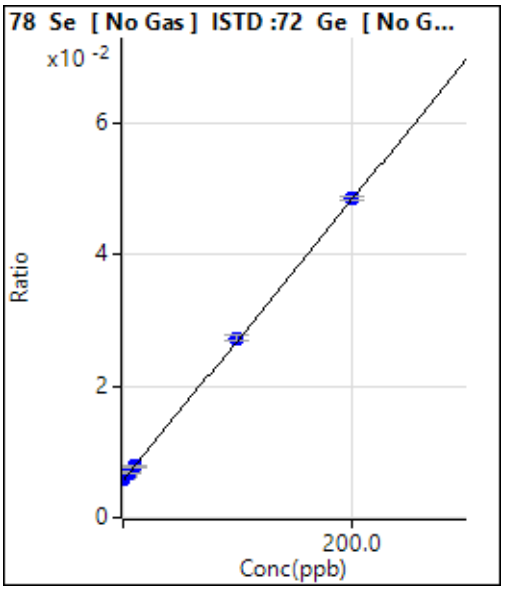
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0001	P	20.0	
2	☐	2.000	4.746	186.67	0.0002	P	6.7	137.3
3	☐	5.000	7.666	266.68	0.0003	P	7.9	53.3
4	☐	10.000	8.901	296.68	0.0004	P	14.4	-11.0
5	☐	100.000	97.081	2650.31	0.0035	P	8.7	-2.9
6	☐	200.000	201.420	5237.76	0.0073	P	7.3	0.7

y = 3.5833E-005 * x + 6.1113E-005
R = 0.9996
DL = 1.022 ppb
BEC = 1.705 ppb

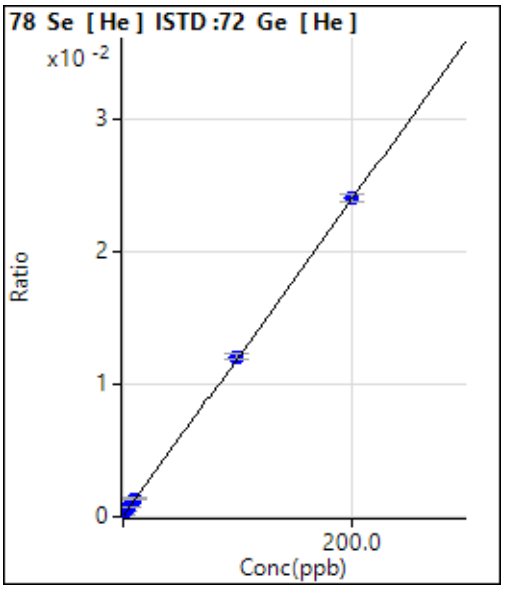
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16787.24	0.0059	P	5.0	
2	☐	2.000	1.837	17681.71	0.0063	P	0.9	-8.1
3	☐	5.000	4.427	18866.69	0.0069	P	1.0	-11.5
4	☐	10.000	8.819	21049.92	0.0078	P	1.7	-11.8
5	☐	100.000	99.954	69272.57	0.0272	P	3.3	0.0
6	☐	200.000	200.098	118235.99	0.0486	P	1.2	0.0

y = 2.1331E-004 * x + 0.0059
R = 1.0000
DL = 4.144 ppb
BEC = 27.77 ppb

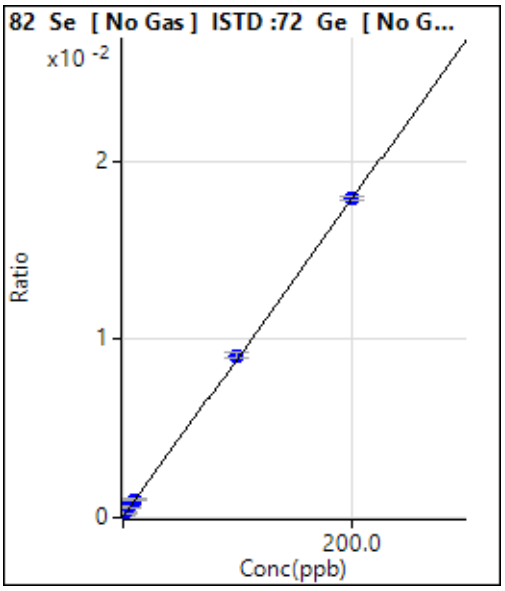
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	129.33	0.0002	P	11.6	
2	☐	2.000	1.823	304.00	0.0004	P	2.0	-8.8
3	☐	5.000	5.074	608.02	0.0008	P	1.6	1.5
4	☐	10.000	9.948	1053.38	0.0013	P	4.9	-0.5
5	☐	100.000	99.956	9075.05	0.0121	P	3.1	0.0
6	☐	200.000	200.024	17350.39	0.0241	P	1.8	0.0

y = 1.1973E-004 * x + 1.5805E-004
R = 1.0000
DL = 0.4605 ppb
BEC = 1.32 ppb

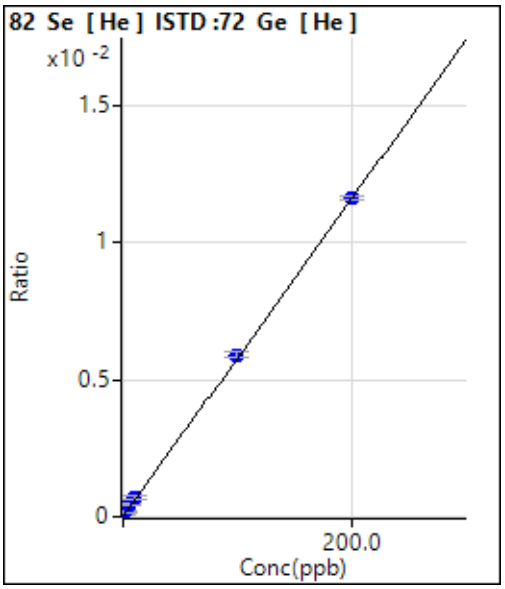
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	390.01	0.0001	P	22.7	
2	☐	2.000	1.581	780.04	0.0003	P	9.5	-21.0
3	☐	5.000	5.375	1693.47	0.0006	P	10.5	7.5
4	☐	10.000	9.573	2670.32	0.0010	P	10.3	-4.3
5	☐	100.000	100.825	23170.01	0.0091	P	3.1	0.8
6	☐	200.000	199.604	43560.12	0.0179	P	1.0	-0.2

y = 8.9027E-005 * x + 1.3780E-004
R = 1.0000
DL = 1.054 ppb
BEC = 1.548 ppb

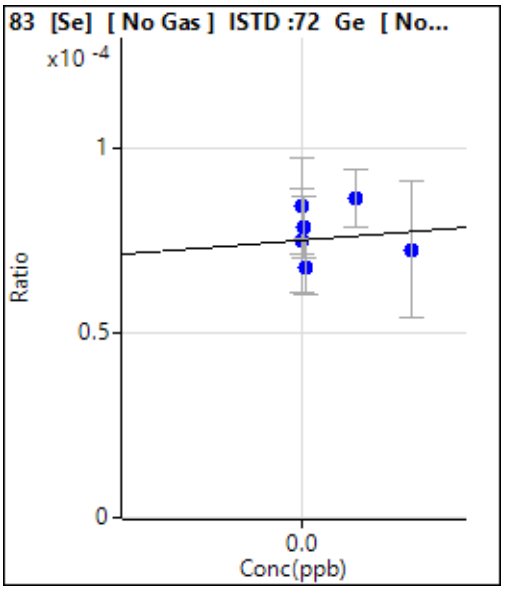
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0001	P	21.5	
2	☐	2.000	2.080	150.00	0.0002	P	30.9	4.0
3	☐	5.000	6.259	340.01	0.0004	P	13.4	25.2
4	☐	10.000	11.324	563.36	0.0007	P	18.4	13.2
5	☐	100.000	100.833	4424.14	0.0059	P	3.2	0.8
6	☐	200.000	199.485	8372.72	0.0116	P	1.5	-0.3

y = 5.7987E-005 * x + 6.5181E-005
R = 1.0000
DL = 0.7259 ppb
BEC = 1.124 ppb

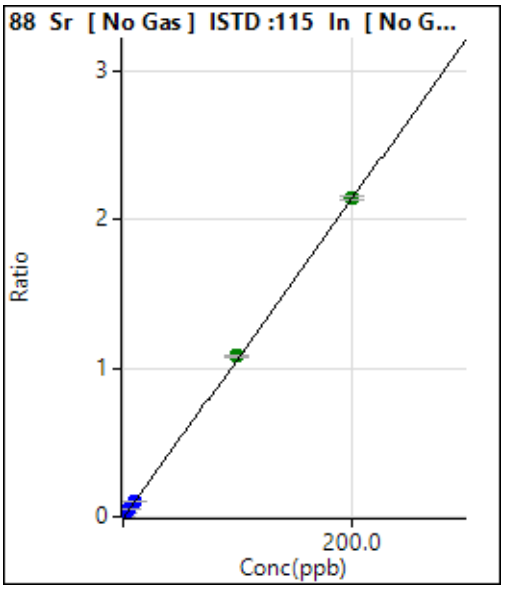
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	213.34	0.0001	P	37.3	
2	☐	2.000	794.313	236.67	0.0001	P	31.2	39615.
3	☐	5.000	319.097	216.67	0.0001	P	21.2	6281.9
4	☐	10.000	-617.617	183.34	0.0001	P	22.2	-6276.2
5	☐	100.000	972.906	220.01	0.0001	P	18.5	872.9
6	☐	200.000	-220.848	176.67	0.0001	P	51.4	-210.4

y = 1.1664E-008 * x + 7.5198E-005
R = -0.0636
DL = 7215 ppb
BEC = 6447 ppb

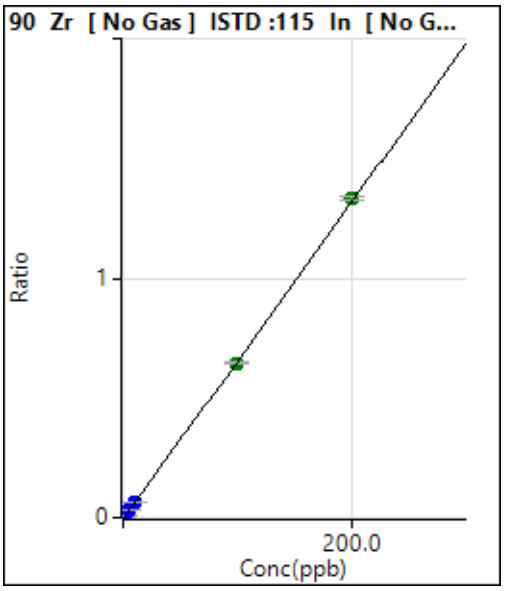
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2516.94	0.0006	P	6.1	
2	☐	2.000	2.015	88679.59	0.0223	P	2.6	0.8
3	☐	5.000	5.080	218644.09	0.0552	P	1.2	1.6
4	☐	10.000	10.028	420089.51	0.1084	P	2.0	0.3
5	☐	100.000	100.509	4004072.34	1.0812	A	1.9	0.5
6	☐	200.000	199.742	7625902.39	2.1480	A	1.5	-0.1

y = 0.0108 * x + 6.2110E-004
R = 1.0000
DL = 0.01059 ppb
BEC = 0.05777 ppb

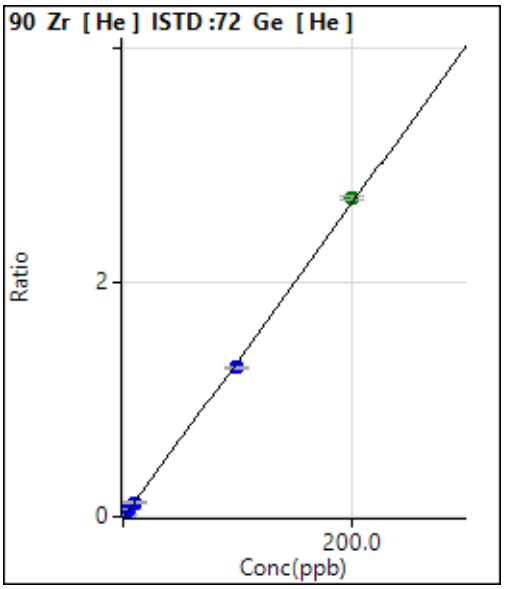
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	980.05	0.0002	P	6.4	
2	☐	2.000	1.637	44082.19	0.0111	P	1.4	-18.2
3	☐	5.000	4.449	117530.62	0.0297	P	0.9	-11.0
4	☐	10.000	9.248	238146.25	0.0615	P	1.2	-7.5
5	☐	100.000	97.180	2383562.00	0.6436	A	1.2	-2.8
6	☐	200.000	201.465	4735864.31	1.3340	A	1.7	0.7

y = 0.0066 * x + 2.4184E-004
R = 0.9999
DL = 0.00706 ppb
BEC = 0.03653 ppb

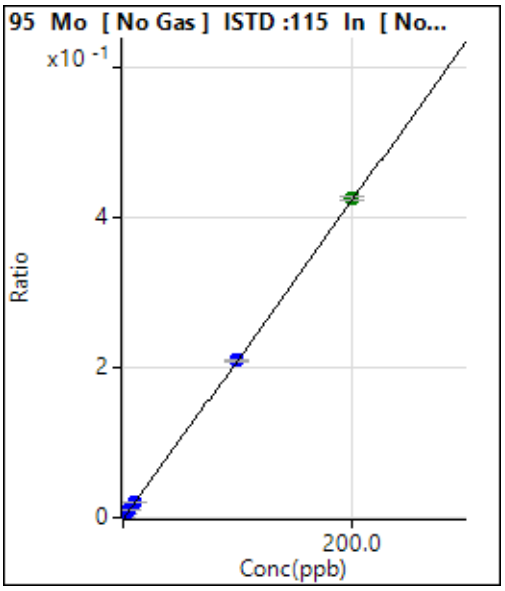
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1233.42	0.0015	P	15.0	
2	☐	2.000	1.597	18522.95	0.0229	P	2.8	-20.1
3	☐	5.000	4.481	48945.48	0.0616	P	2.6	-10.4
4	☐	10.000	8.940	94831.50	0.1215	P	2.7	-10.6
5	☐	100.000	94.892	953934.75	1.2746	P	1.3	-5.1
6	☐	200.000	202.624	1957633.20	2.7200	A	1.8	1.3

y = 0.0134 * x + 0.0015
R = 0.9996
DL = 0.05058 ppb
BEC = 0.1124 ppb

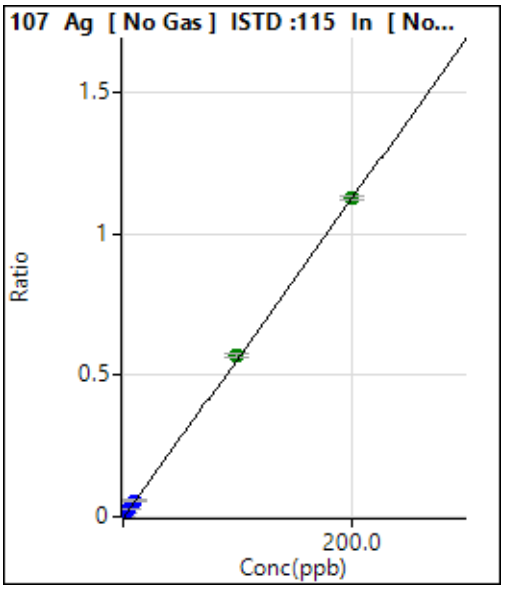
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0000	P	62.1	
2	☐	2.000	1.897	16076.52	0.0040	P	1.0	-5.1
3	☐	5.000	4.957	41634.81	0.0105	P	0.3	-0.9
4	☐	10.000	9.793	80422.53	0.0208	P	1.5	-2.1
5	☐	100.000	98.793	774708.27	0.2092	P	1.6	-1.2
6	☐	200.000	200.616	1507965.19	0.4248	A	1.6	0.3

y = 0.0021 * x + 2.3819E-005
R = 1.0000
DL = 0.02095 ppb
BEC = 0.01125 ppb

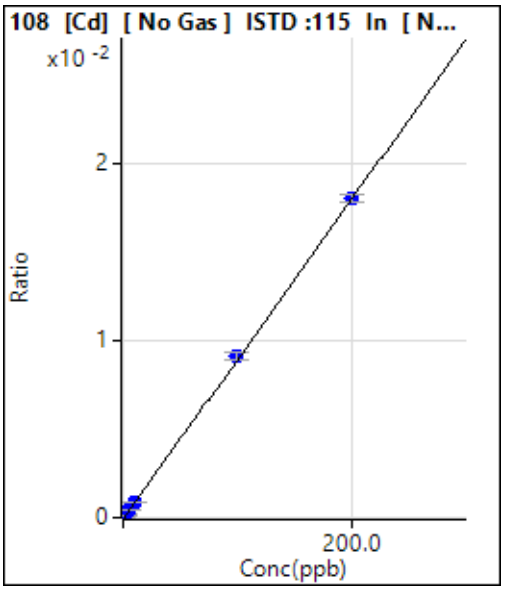
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	360.01	0.0001	P	9.7	
2	☐	2.000	2.062	46711.71	0.0117	P	3.2	3.1
3	☐	5.000	5.108	114574.08	0.0289	P	1.1	2.2
4	☐	10.000	10.140	222274.44	0.0574	P	1.5	1.4
5	☐	100.000	100.792	2109028.93	0.5695	A	1.7	0.8
6	☐	200.000	199.594	4003104.11	1.1276	A	1.6	-0.2

y = 0.0056 * x + 8.8814E-005
R = 1.0000
DL = 0.004562 ppb
BEC = 0.01572 ppb

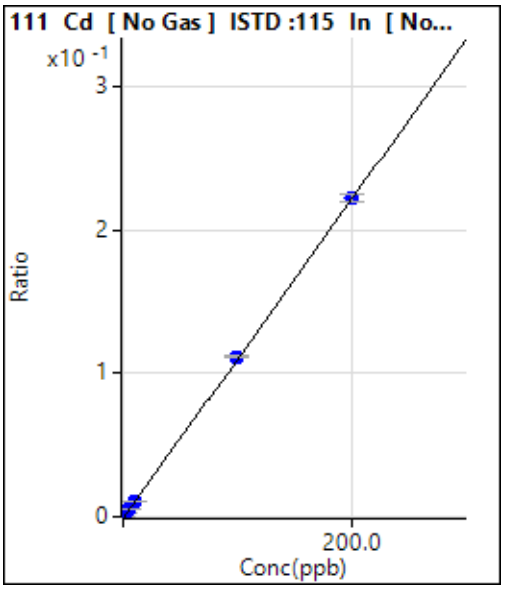
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.828	660.03	0.0002	P	10.1	-8.6
3	☐	5.000	5.167	1850.16	0.0005	P	4.6	3.3
4	☐	10.000	9.554	3347.15	0.0009	P	10.4	-4.5
5	☐	100.000	100.777	33716.12	0.0091	P	4.6	0.8
6	☐	200.000	199.631	64003.28	0.0180	P	3.0	-0.2

y = 9.0309E-005 * x + 8.2235E-007
R = 1.0000
DL = 0.04732 ppb
BEC = 0.009106 ppb

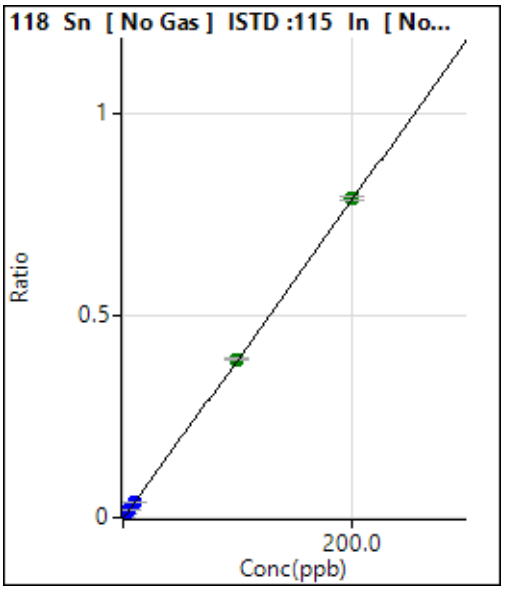
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.42	0.0000	P	327.7	
2	☐	2.000	1.989	8828.65	0.0022	P	1.7	-0.5
3	☐	5.000	5.025	22183.62	0.0056	P	4.2	0.5
4	☐	10.000	10.093	43591.98	0.0113	P	0.8	0.9
5	☐	100.000	100.305	414082.00	0.1118	P	1.2	0.3
6	☐	200.000	199.842	790806.94	0.2228	P	2.1	-0.1

y = 0.0011 * x + 1.5940E-006
R = 1.0000
DL = 0.01406 ppb
BEC = 0.00143 ppb

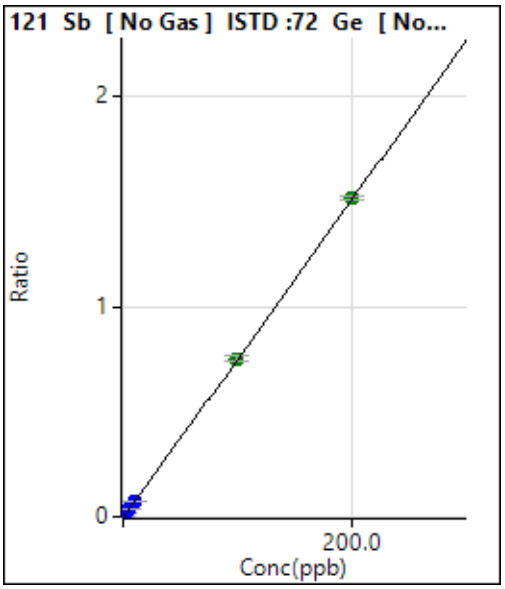
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3420.50	0.0008	P	3.5	
2	☐	2.000	1.954	34013.88	0.0085	P	0.9	-2.3
3	☐	5.000	4.892	79674.95	0.0201	P	0.9	-2.2
4	☐	10.000	9.748	152140.46	0.0393	P	0.6	-2.5
5	☐	100.000	99.384	1454044.72	0.3926	A	2.0	-0.6
6	☐	200.000	200.324	2806410.27	0.7905	A	1.4	0.2

y = 0.0039 * x + 8.4399E-004
R = 1.0000
DL = 0.02257 ppb
BEC = 0.2141 ppb

Weight: <None>
Min Conc: <None>

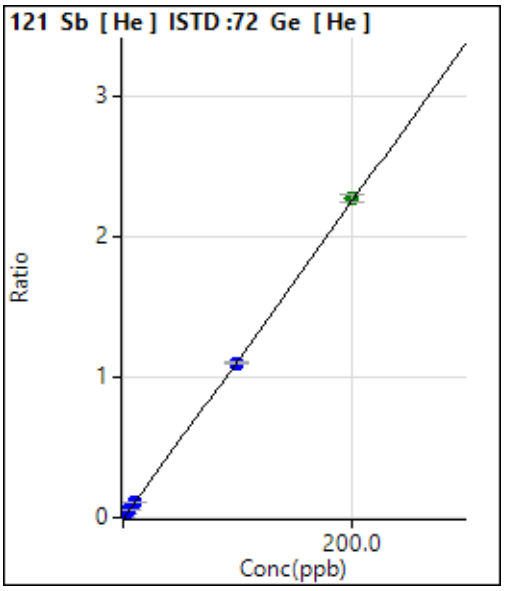


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	733.37	0.0003	P	8.9	
2	☐	2.000	1.923	41515.18	0.0148	P	2.3	-3.8
3	☐	5.000	4.888	102423.27	0.0373	P	2.0	-2.2
4	☐	10.000	9.622	197242.49	0.0731	P	1.8	-3.8
5	☐	100.000	99.458	1916033.46	0.7536	A	2.6	-0.5
6	☐	200.000	200.293	3690914.84	1.5174	A	1.7	0.1

y = 0.0076 * x + 2.5879E-004
R = 1.0000
DL = 0.009139 ppb
BEC = 0.03417 ppb

Weight: <None>
Min Conc: <None>

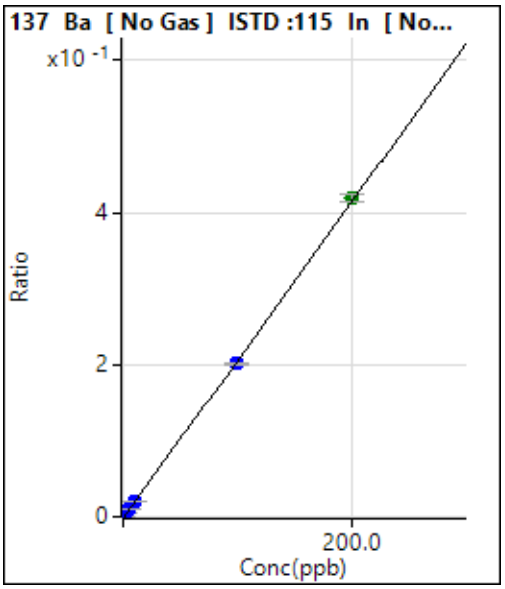
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0004	P	21.9	
2	☐	2.000	1.869	17368.28	0.0215	P	0.9	-6.5
3	☐	5.000	4.787	43294.21	0.0545	P	4.3	-4.3
4	☐	10.000	9.437	83619.42	0.1071	P	2.5	-5.6
5	☐	100.000	97.573	826138.90	1.1039	P	1.0	-2.4
6	☐	200.000	201.248	1638358.73	2.2765	A	2.3	0.6

y = 0.0113 * x + 3.6672E-004
R = 0.9999
DL = 0.02129 ppb
BEC = 0.03242 ppb

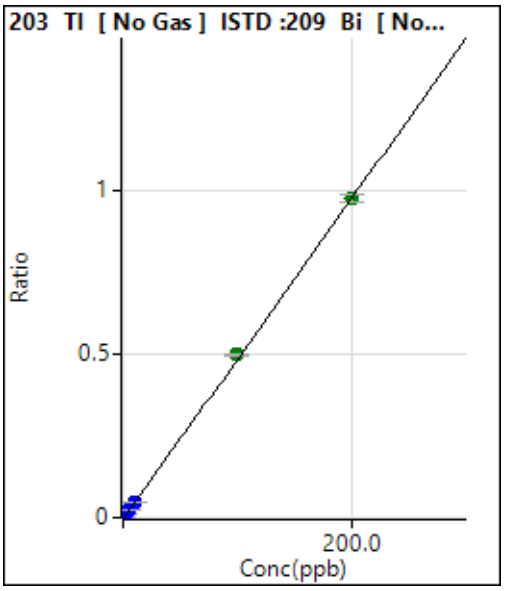
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	690.03	0.0002	P	7.4	
2	☐	2.000	1.895	16360.45	0.0041	P	4.7	-5.2
3	☐	5.000	4.917	41158.24	0.0104	P	2.4	-1.7
4	☐	10.000	9.665	78537.72	0.0203	P	2.3	-3.4
5	☐	100.000	96.930	747214.29	0.2018	P	1.1	-3.1
6	☐	200.000	201.555	1488748.15	0.4194	A	2.5	0.8

y = 0.0021 * x + 1.7024E-004
R = 0.9998
DL = 0.01821 ppb
BEC = 0.08186 ppb

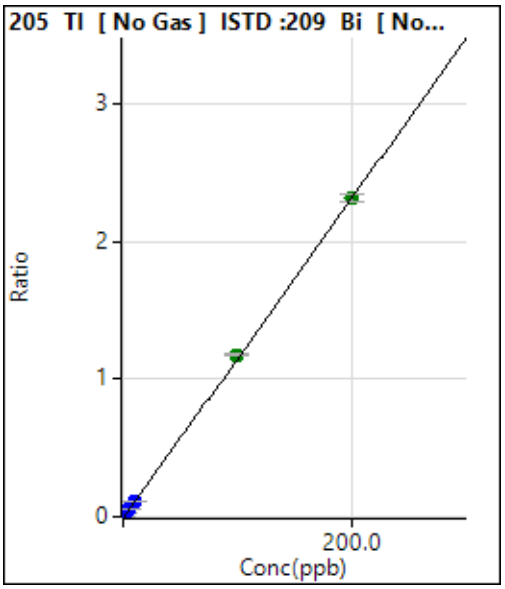
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0000	P	15.0	
2	☐	2.000	2.110	45324.94	0.0104	P	2.3	5.5
3	☐	5.000	5.181	110628.08	0.0255	P	1.9	3.6
4	☐	10.000	9.715	203321.60	0.0478	P	2.1	-2.9
5	☐	100.000	101.782	2044623.09	0.5006	A	1.1	1.8
6	☐	200.000	199.117	3844545.88	0.9792	A	2.6	-0.4

y = 0.0049 * x + 4.0723E-005
R = 0.9999
DL = 0.003715 ppb
BEC = 0.008281 ppb

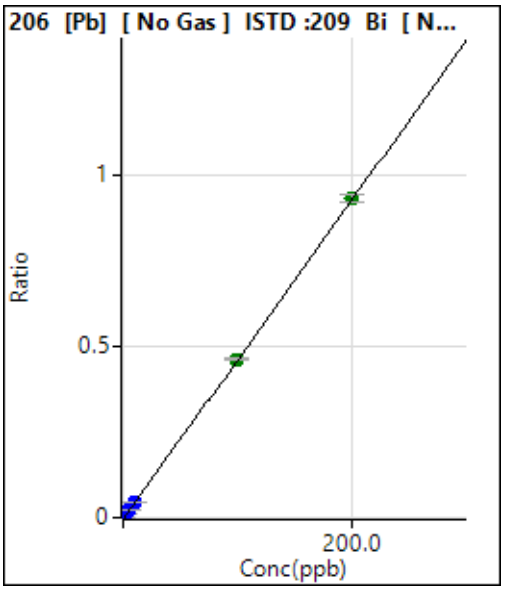
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	346.68	0.0001	P	10.9	
2	☐	2.000	2.114	107280.74	0.0247	P	2.0	5.7
3	☐	5.000	5.272	265999.27	0.0614	P	2.3	5.4
4	☐	10.000	9.913	490321.80	0.1153	P	3.2	-0.9
5	☐	100.000	101.381	4813527.01	1.1785	A	1.2	1.4
6	☐	200.000	199.306	9095408.20	2.3167	A	2.4	-0.3

y = 0.0116 * x + 7.9798E-005
R = 1.0000
DL = 0.002247 ppb
BEC = 0.006865 ppb

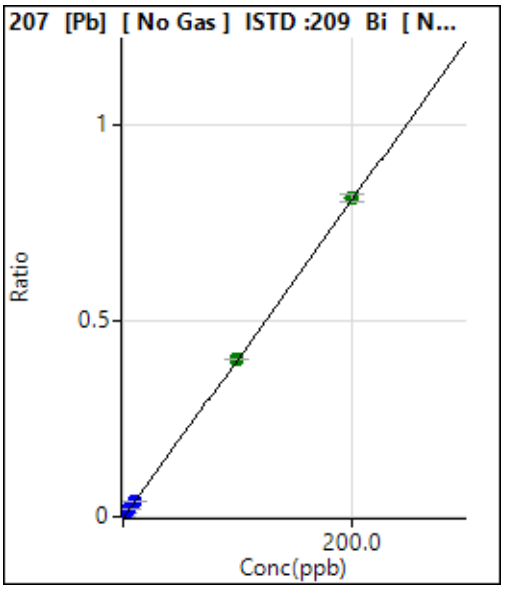
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	506.68	0.0001	P	13.1	
2	☐	2.000	1.977	40642.39	0.0093	P	1.2	-1.1
3	☐	5.000	4.959	100794.75	0.0232	P	2.0	-0.8
4	☐	10.000	9.789	194680.03	0.0458	P	1.2	-2.1
5	☐	100.000	99.500	1896431.12	0.4643	A	0.8	-0.5
6	☐	200.000	200.262	3668451.19	0.9343	A	1.9	0.1

y = 0.0047 * x + 1.1662E-004
R = 1.0000
DL = 0.009801 ppb
BEC = 0.025 ppb

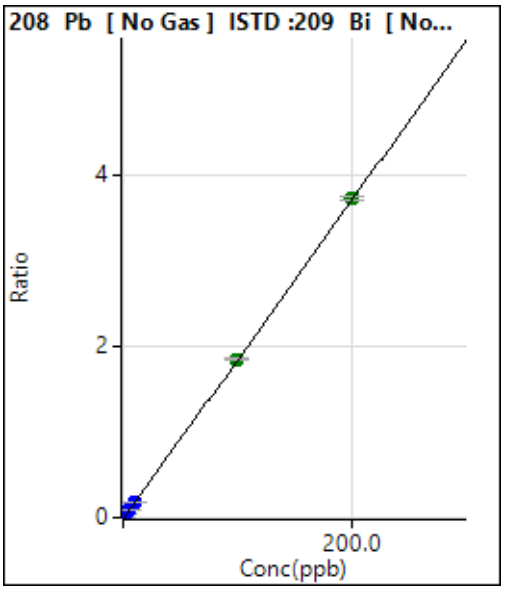
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	573.48	0.0001	P	63.0	
2	☐	2.000	1.948	35045.76	0.0081	P	1.7	-2.6
3	☐	5.000	4.942	87700.70	0.0202	P	2.0	-1.2
4	☐	10.000	9.874	171317.26	0.0403	P	2.6	-1.3
5	☐	100.000	98.944	1644082.00	0.4025	A	0.8	-1.1
6	☐	200.000	200.536	3202401.62	0.8157	A	1.8	0.3

y = 0.0041 * x + 1.3259E-004
R = 1.0000
DL = 0.06159 ppb
BEC = 0.0326 ppb

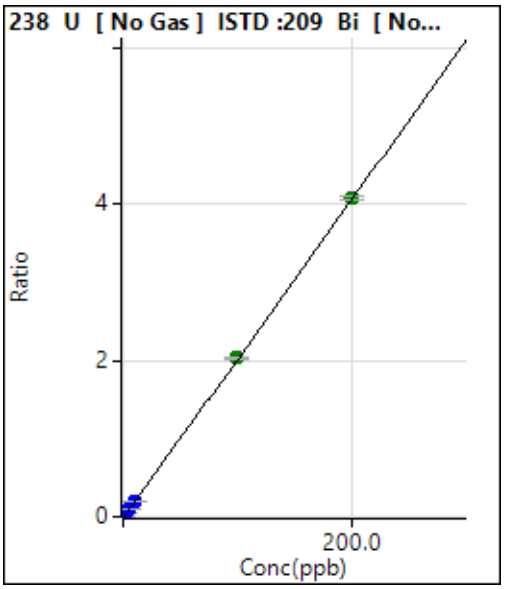
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2256.91	0.0005	P	19.4	
2	☐	2.000	1.958	160593.26	0.0369	P	0.1	-2.1
3	☐	5.000	4.970	402637.88	0.0929	P	1.6	-0.6
4	☐	10.000	9.874	782392.50	0.1840	P	1.6	-1.3
5	☐	100.000	99.337	7541323.37	1.8463	A	1.0	-0.7
6	☐	200.000	200.339	14616929.78	3.7230	A	1.7	0.2

y = 0.0186 * x + 5.2046E-004
R = 1.0000
DL = 0.01629 ppb
BEC = 0.02801 ppb

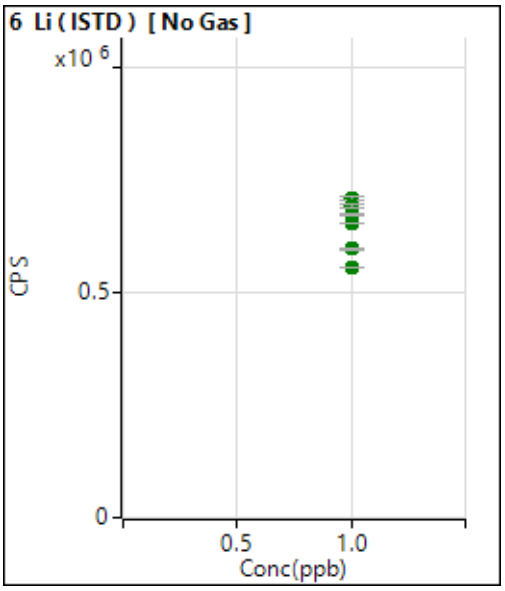
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Min Conc: <None>



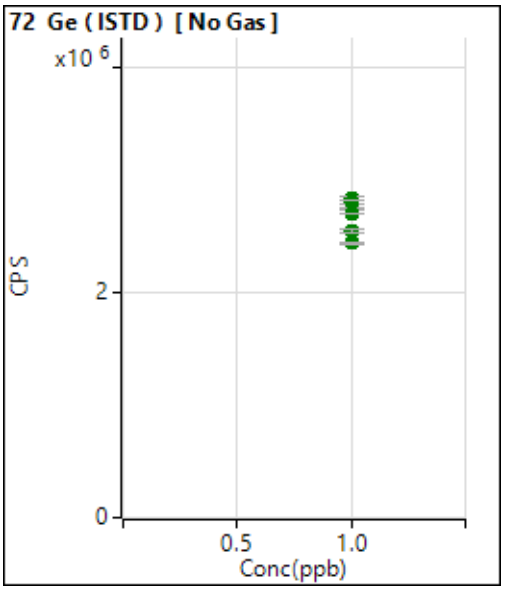
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1000.06	0.0002	P	4.8	
2	☐	2.000	1.828	162906.89	0.0374	P	1.7	-8.6
3	☐	5.000	4.676	413688.54	0.0954	P	0.7	-6.5
4	☐	10.000	9.302	806152.23	0.1896	P	1.6	-7.0
5	☐	100.000	99.790	8298256.33	2.0316	A	0.9	-0.2
6	☐	200.000	200.150	15998180.59	4.0746	A	1.4	0.1

y = 0.0204 * x + 2.3036E-004
R = 1.0000
DL = 0.001618 ppb
BEC = 0.01132 ppb

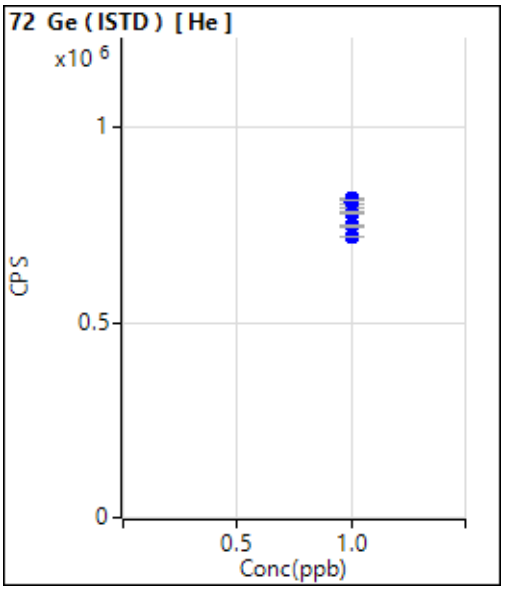
Weight: <None>
Min Conc: <None>



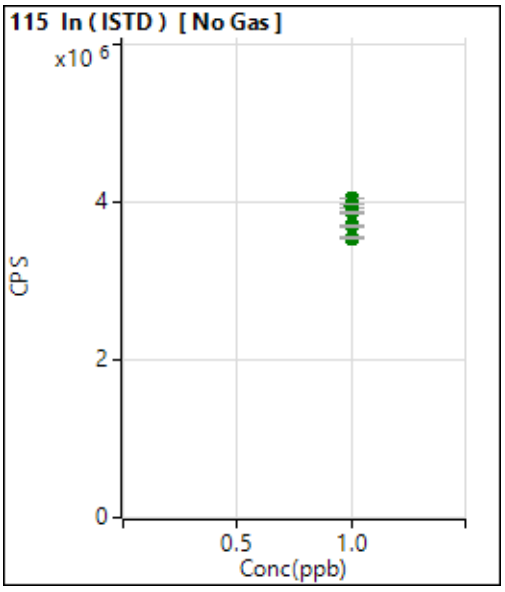
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		707912.67		A	1.4	
2	☐	1.000		691876.44		A	1.2	
3	☐	1.000		671142.05		A	0.7	
4	☐	1.000		651504.38		A	0.4	
5	☐	1.000		596010.80		A	0.4	
6	☐	1.000		553873.52		A	0.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2833616.73		A	0.8	
2	☐	1.000		2799555.06		A	0.8	
3	☐	1.000		2746832.36		A	0.5	
4	☐	1.000		2696876.31		A	0.2	
5	☐	1.000		2542670.48		A	1.1	
6	☐	1.000		2432486.16		A	0.2	

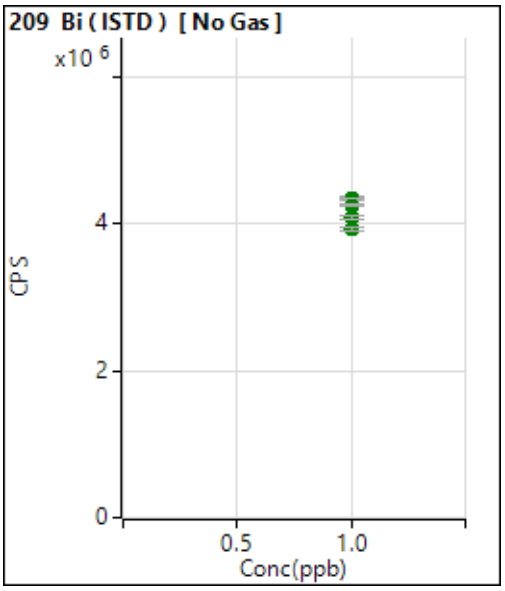


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		818068.40		P	0.5	
2	☐	1.000		807629.96		P	0.9	
3	☐	1.000		794209.88		P	0.1	
4	☐	1.000		780872.05		P	0.4	
5	☐	1.000		748388.79		P	0.8	
6	☐	1.000		719741.92		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4052649.65		A	0.4	
2	☐	1.000		3979150.31		A	0.3	
3	☐	1.000		3958484.60		A	0.9	
4	☐	1.000		3874106.01		A	0.7	
5	☐	1.000		3703349.99		A	0.9	
6	☐	1.000		3550286.04		A	0.5	

Calibration for 163_ICV.d



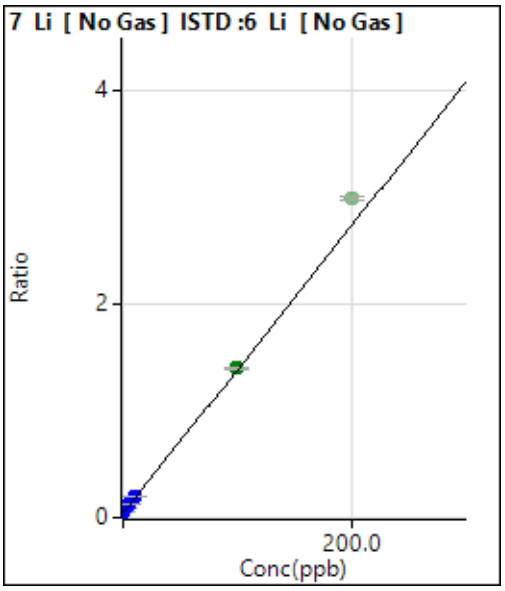
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4341940.88		A	1.1	
2	☐	1.000		4351061.29		A	1.0	
3	☐	1.000		4335305.14		A	0.2	
4	☐	1.000		4252020.98		A	0.5	
5	☐	1.000		4084398.27		A	0.9	
6	☐	1.000		3926521.40		A	1.1	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070124A.b\
Analysis File: 070124A.batch.bin
DA Date-Time: 7/1/2024 11:22:18 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	7/1/2024 10:13:08 AM
2	011CALS.d	2/10/200	7/1/2024 10:15:51 AM
3	012CALS.d	5/25/500	7/1/2024 10:18:32 AM
4	013CALS.d	10/50/100	7/1/2024 10:21:13 AM
5	014CALS.d	100/500/10K	7/1/2024 10:23:53 AM
6	015CALS.d	200/1000/20K	7/1/2024 10:27:02 AM

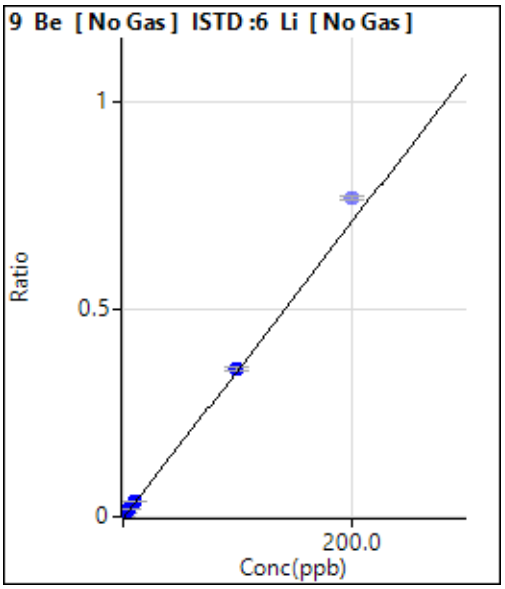
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36346.29	0.0584	P	1.9	
2	☐	2.000	2.049	52718.60	0.0860	P	1.2	2.4
3	☐	5.000	5.120	77204.13	0.1274	P	0.8	2.4
4	☐	10.000	10.301	117465.93	0.1973	P	2.2	3.0
5	☐	100.000	99.963	787320.64	1.4065	A	1.2	0.0
6	☑	200.000		1555325.81	2.9968	A	1.0	

y = 0.0135 * x + 0.0584
R = 1.0000
DL = 0.2481 ppb
BEC = 4.33 ppb

Weight: <None>
Min Conc: <None>

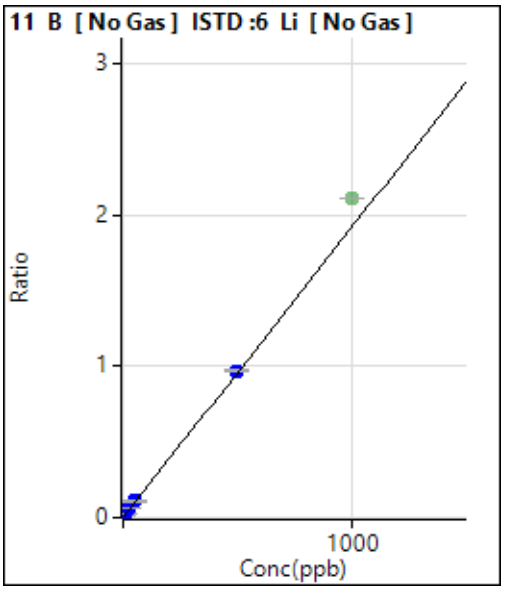


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	24.4	
2	☐	2.000	1.939	4315.70	0.0070	P	2.0	-3.1
3	☐	5.000	5.060	11012.62	0.0182	P	1.5	1.2
4	☐	10.000	10.222	21790.13	0.0366	P	2.0	2.2
5	☐	100.000	99.976	199782.00	0.3569	P	1.9	0.0
6	☑	200.000		398984.52	0.7688	P	1.4	

y = 0.0036 * x + 1.2310E-004
R = 1.0000
DL = 0.02528 ppb
BEC = 0.03449 ppb

Weight: <None>
Min Conc: <None>

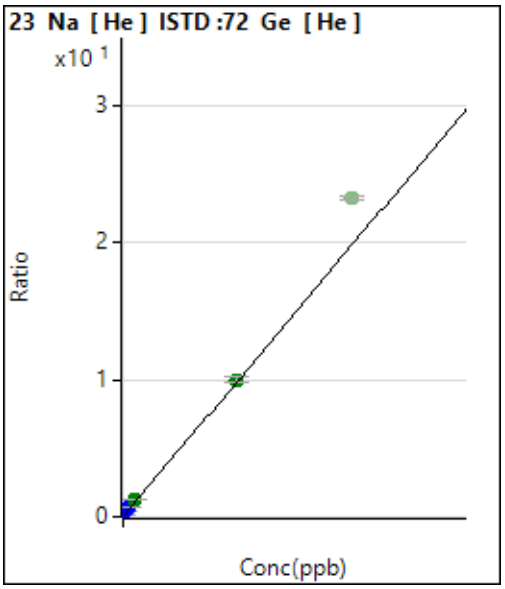
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7523.69	0.0121	P	0.9	
2	☐	10.000	9.412	18488.75	0.0302	P	3.3	-5.9
3	☐	25.000	24.177	35457.49	0.0585	P	1.2	-3.3
4	☐	50.000	50.337	64766.64	0.1088	P	1.1	0.7
5	☐	500.000	500.019	544451.60	0.9727	P	0.9	0.0
6	☑	1000.000		1097397.46	2.1145	A	0.5	

y = 0.0019 * x + 0.0121
R = 1.0000
DL = 0.162 ppb
BEC = 6.292 ppb

Weight: <None>
Min Conc: <None>

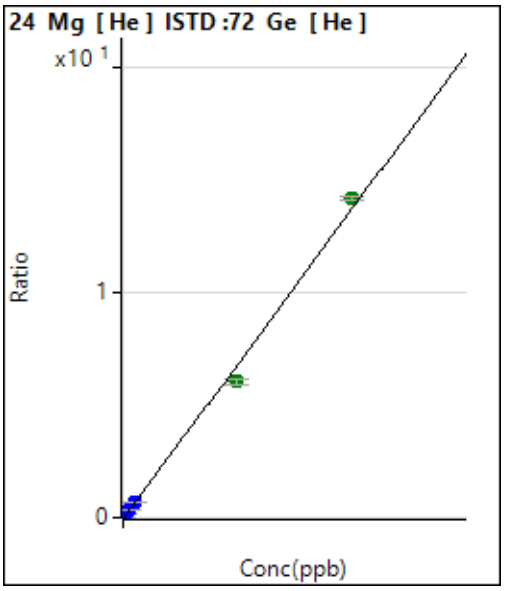


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	98350.91	0.1522	P	1.0	
2	☐	200.000	215.314	236664.48	0.3648	P	2.5	7.7
3	☐	500.000	546.429	445009.40	0.6918	P	2.2	9.3
4	☐	1000.000	1133.246	808275.80	1.2713	A	1.4	13.3
5	☐	10000.00	9984.048	6242287.41	10.0119	A	3.4	-0.2
6	☑	20000.00		13724794.79	23.2470	A	0.7	

y = 9.8754E-004 * x + 0.1522
R = 0.9999
DL = 4.517 ppb
BEC = 154.1 ppb

Weight: <None>
Min Conc: <None>

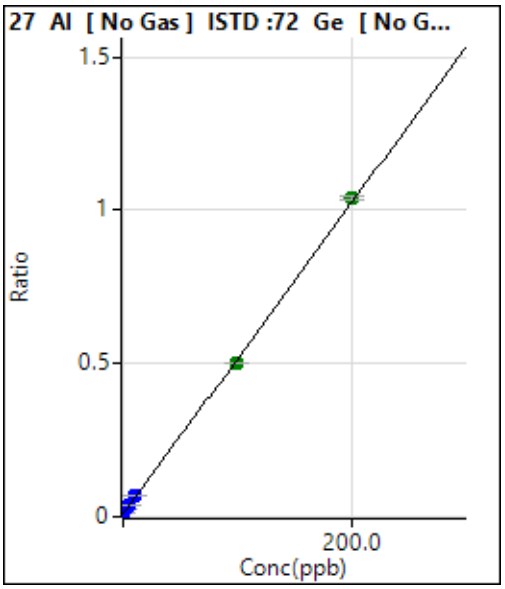
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3620.53	0.0056	P	5.7	
2	☐	200.000	198.146	91914.79	0.1417	P	3.1	-0.9
3	☐	500.000	491.045	220546.00	0.3429	P	2.5	-1.8
4	☐	1000.000	1009.849	444534.38	0.6992	P	1.3	1.0
5	☐	10000.00	8773.863	3760801.40	6.0319	A	3.5	-12.3
6	☐	20000.00	20612.81	8362117.79	14.1635	A	1.0	3.1

y = 6.8685E-004 * x + 0.0056
R = 0.9974
DL = 1.391 ppb
BEC = 8.156 ppb

Weight: <None>
Min Conc: <None>

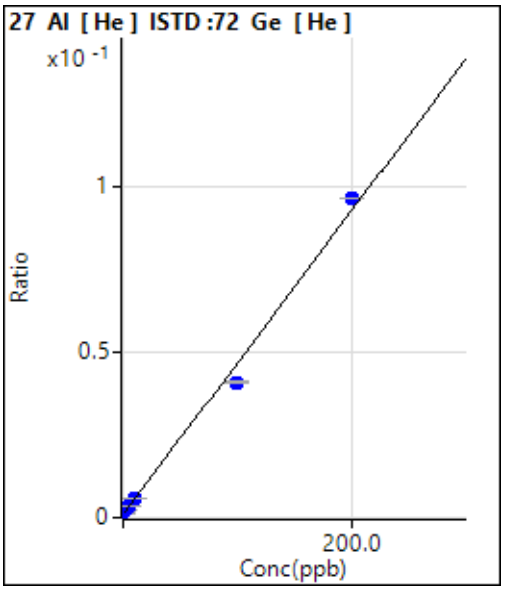


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	31548.97	0.0140	P	3.2	
2	☐	2.000	2.084	55532.86	0.0246	P	1.2	4.2
3	☐	5.000	4.912	87339.75	0.0390	P	3.3	-1.8
4	☐	10.000	10.348	146138.67	0.0666	P	1.8	3.5
5	☐	100.000	95.991	1066858.45	0.5017	A	0.9	-4.0
6	☐	200.000	201.988	2119459.86	1.0401	A	1.4	1.0

y = 0.0051 * x + 0.0140
R = 0.9997
DL = 0.2649 ppb
BEC = 2.762 ppb

Weight: <None>
Min Conc: <None>

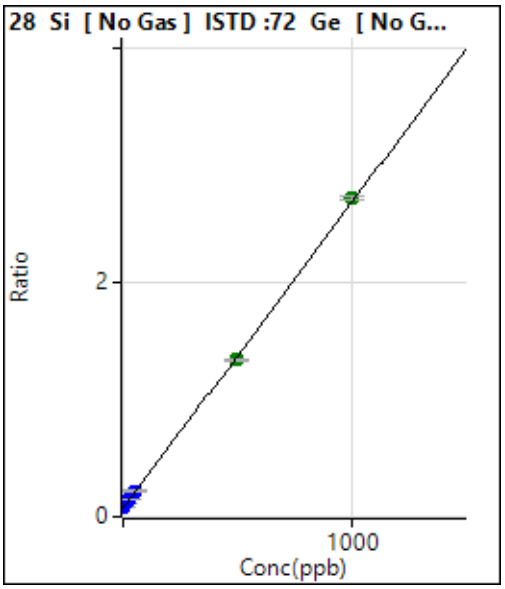
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	956.72	0.0015	P	6.9	
2	☐	2.000	1.520	1413.42	0.0022	P	6.1	-24.0
3	☐	5.000	4.696	2340.23	0.0036	P	7.6	-6.1
4	☐	10.000	8.903	3540.51	0.0056	P	1.1	-11.0
5	☐	100.000	86.013	25553.41	0.0410	P	2.2	-14.0
6	☐	200.000	207.061	57015.52	0.0966	P	0.2	3.5

y = 4.5927E-004 * x + 0.0015
R = 0.9967
DL = 0.6719 ppb
BEC = 3.224 ppb

Weight: <None>
Min Conc: <None>

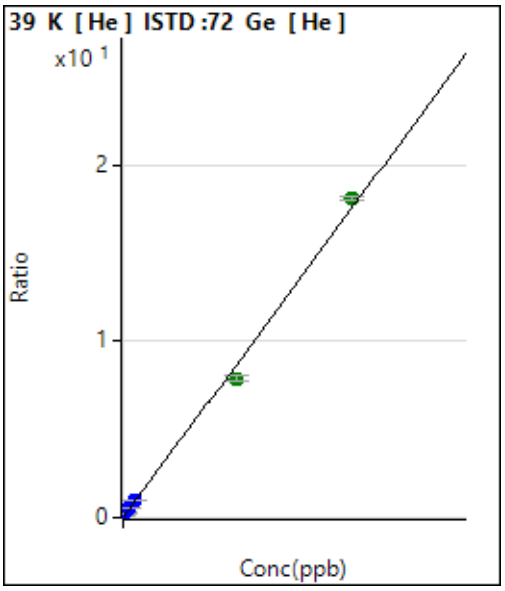


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	192642.92	0.0857	P	1.8	
2	☐	10.000	9.226	247498.35	0.1097	P	0.7	-7.7
3	☐	25.000	24.300	333822.25	0.1490	P	1.2	-2.8
4	☐	50.000	51.366	481709.17	0.2195	P	2.3	2.7
5	☐	500.000	480.054	2842289.54	1.3365	A	1.0	-4.0
6	☐	1000.000	1009.930	5536700.54	2.7171	A	1.3	1.0

y = 0.0026 * x + 0.0857
R = 0.9997
DL = 1.756 ppb
BEC = 32.88 ppb

Weight: <None>
Min Conc: <None>

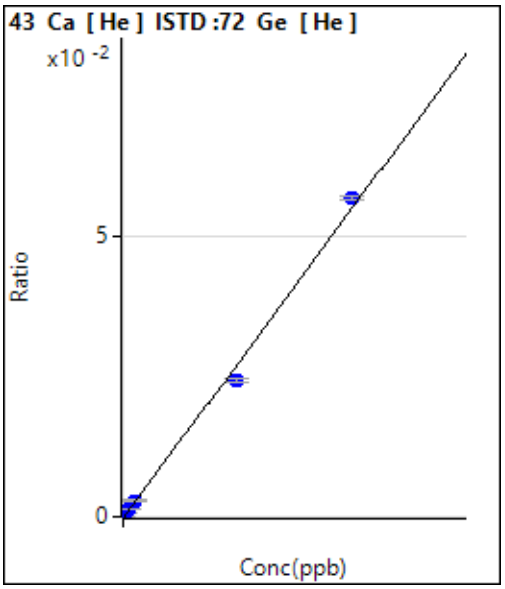
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	64720.04	0.1002	P	1.2	
2	☐	200.000	197.287	177343.91	0.2734	P	1.8	-1.4
3	☐	500.000	495.205	344103.59	0.5350	P	2.5	-1.0
4	☐	1000.000	1002.620	623356.27	0.9805	P	1.3	0.3
5	☐	10000.00	8907.453	4938583.36	7.9210	A	3.9	-10.9
6	☐	20000.00	20546.29	10709749.42	18.1400	A	1.0	2.7

y = 8.7801E-004 * x + 0.1002
R = 0.9979
DL = 4.051 ppb
BEC = 114.1 ppb

Weight: <None>
Min Conc: <None>

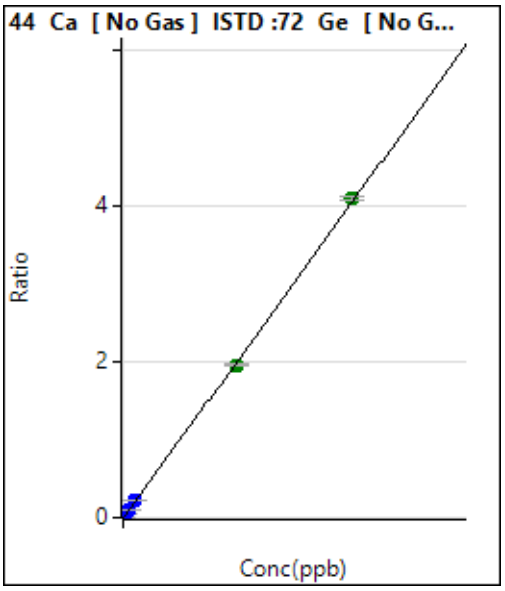


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	124.9	
2	☐	200.000	229.769	426.68	0.0007	P	3.6	14.9
3	☐	500.000	484.257	873.38	0.0014	P	10.3	-3.1
4	☐	1000.000	1037.258	1830.15	0.0029	P	6.4	3.7
5	☐	10000.00	8783.271	15075.04	0.0242	P	2.7	-12.2
6	☐	20000.00	20606.59	33470.46	0.0567	P	1.5	3.0

y = 2.7498E-006 * x + 2.5945E-005
R = 0.9974
DL = 35.34 ppb
BEC = 9.435 ppb

Weight: <None>
Min Conc: <None>

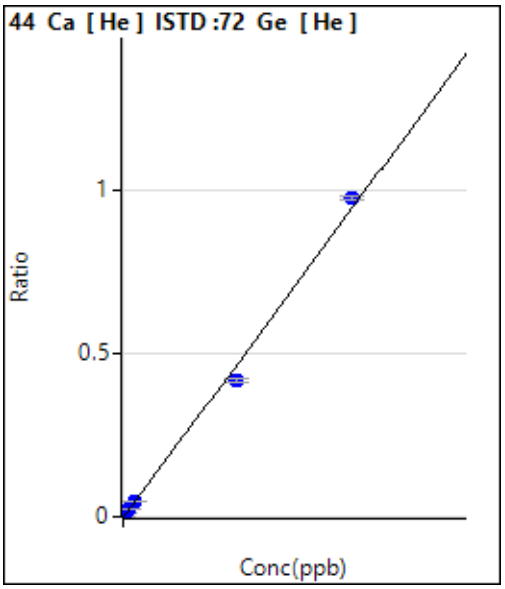
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21590.46	0.0096	P	1.5	
2	☐	200.000	196.204	111365.54	0.0494	P	1.4	-1.9
3	☐	500.000	491.058	244504.43	0.1091	P	2.8	-1.8
4	☐	1000.000	1001.417	466429.21	0.2126	P	2.0	0.1
5	☐	10000.00	9632.706	4172178.27	1.9618	A	0.8	-3.7
6	☐	20000.00	20183.83	8355057.79	4.1002	A	1.2	0.9

y = 2.0267E-004 * x + 0.0096
R = 0.9998
DL = 2.135 ppb
BEC = 47.38 ppb

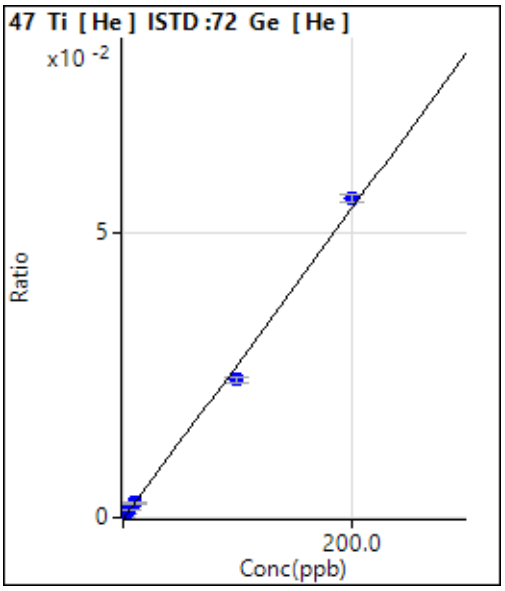
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	693.36	0.0011	P	10.7	
2	☐	200.000	191.920	6595.03	0.0102	P	4.6	-4.0
3	☐	500.000	491.836	15682.41	0.0244	P	3.2	-1.6
4	☐	1000.000	1000.963	30841.17	0.0485	P	3.0	0.1
5	☐	10000.00	8795.610	260544.73	0.4179	P	3.2	-12.0
6	☐	20000.00	20602.43	577052.26	0.9774	P	1.6	3.0

y = 4.7388E-005 * x + 0.0011
R = 0.9975
DL = 7.282 ppb
BEC = 22.63 ppb

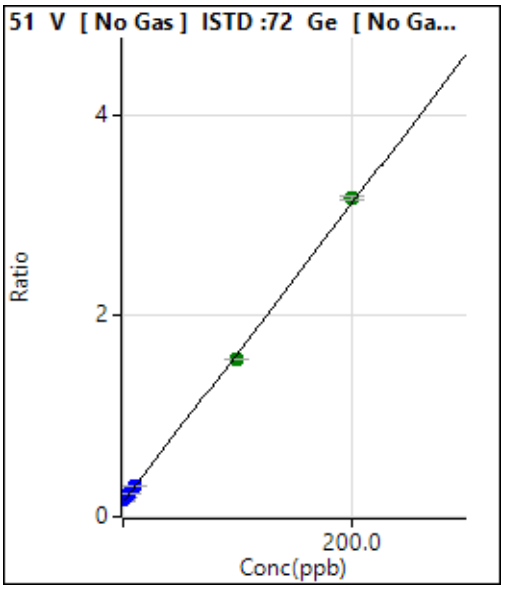
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.032	366.68	0.0006	P	3.3	1.6
3	☐	5.000	4.762	843.38	0.0013	P	17.3	-4.8
4	☐	10.000	9.460	1650.13	0.0026	P	9.4	-5.4
5	☐	100.000	88.655	15105.06	0.0242	P	4.5	-11.3
6	☐	200.000	205.705	33183.15	0.0562	P	2.6	2.9

y = 2.7316E-004 * x + 1.0291E-005
R = 0.9978
DL = 0.09789 ppb
BEC = 0.03767 ppb

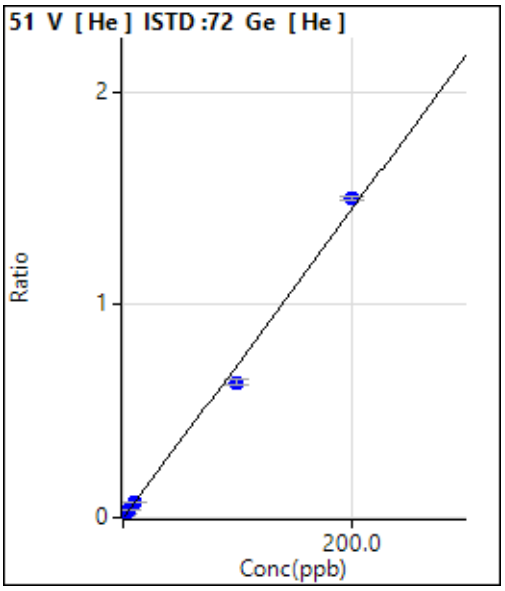
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366413.58	0.1629	P	1.3	
2	☐	2.000	1.539	419171.91	0.1858	P	1.7	-23.0
3	☐	5.000	4.714	521977.21	0.2330	P	1.2	-5.7
4	☐	10.000	9.970	682523.04	0.3110	P	1.2	-0.3
5	☐	100.000	94.434	3329263.85	1.5655	A	0.7	-5.6
6	☐	200.000	202.796	6469506.81	3.1749	A	0.9	1.4

y = 0.0149 * x + 0.1629
R = 0.9995
DL = 0.4407 ppb
BEC = 10.97 ppb

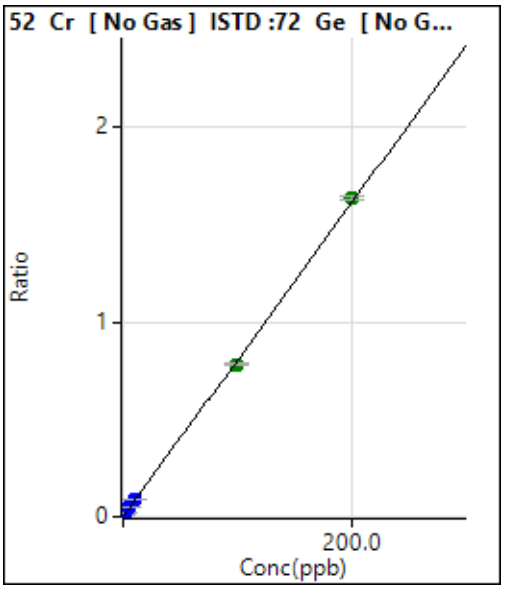
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2945.88	0.0046	P	1.0	
2	☐	2.000	1.916	11955.20	0.0184	P	4.5	-4.2
3	☐	5.000	4.768	25138.30	0.0391	P	2.2	-4.6
4	☐	10.000	9.841	48200.12	0.0758	P	1.8	-1.6
5	☐	100.000	87.138	396216.44	0.6355	P	3.6	-12.9
6	☐	200.000	206.446	885207.71	1.4993	P	1.1	3.2

y = 0.0072 * x + 0.0046
R = 0.9972
DL = 0.01938 ppb
BEC = 0.6297 ppb

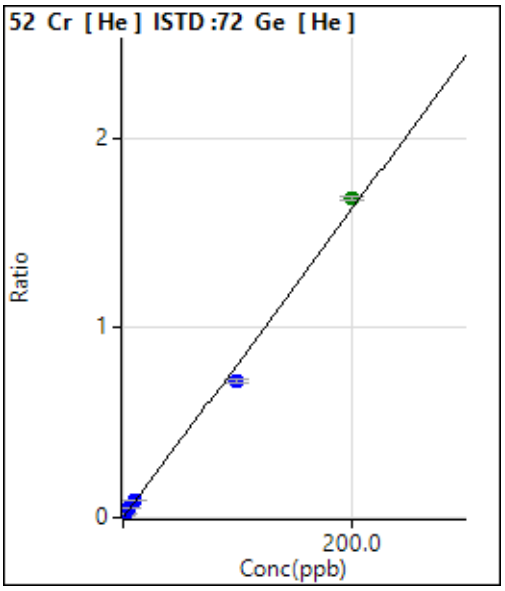
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19767.71	0.0088	P	0.8	
2	☐	2.000	1.897	54292.96	0.0241	P	0.9	-5.2
3	☐	5.000	4.910	108317.57	0.0483	P	2.5	-1.8
4	☐	10.000	10.059	197082.07	0.0898	P	2.1	0.6
5	☐	100.000	95.918	1661661.44	0.7814	A	0.6	-4.1
6	☐	200.000	202.042	3333940.58	1.6361	A	0.9	1.0

y = 0.0081 * x + 0.0088
R = 0.9997
DL = 0.02678 ppb
BEC = 1.091 ppb

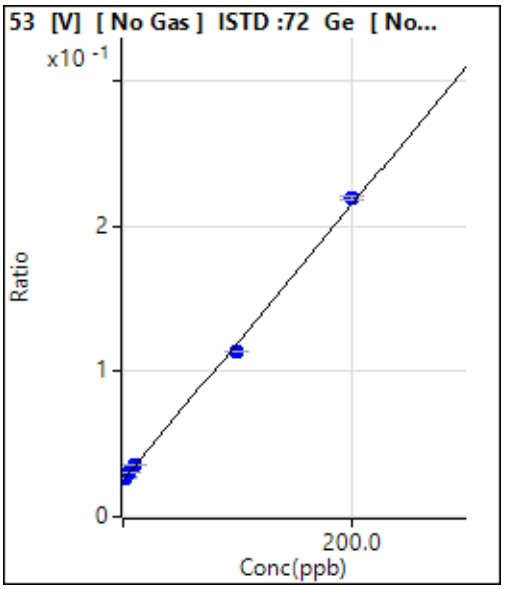
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5297.78	0.0082	P	6.8	
2	☐	2.000	2.029	16009.45	0.0247	P	3.2	1.5
3	☐	5.000	5.038	31593.06	0.0491	P	3.3	0.8
4	☐	10.000	10.089	57308.32	0.0901	P	1.5	0.9
5	☐	100.000	87.512	448255.53	0.7189	P	3.1	-12.5
6	☐	200.000	206.239	993775.85	1.6832	A	1.2	3.1

y = 0.0081 * x + 0.0082
R = 0.9973
DL = 0.2064 ppb
BEC = 1.009 ppb

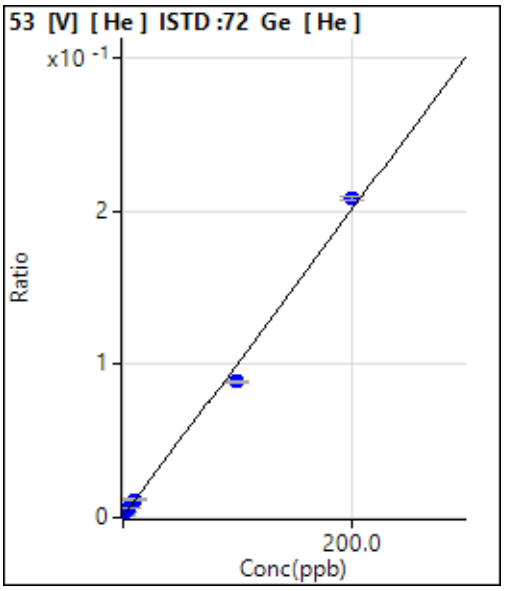
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59243.78	0.0263	P	1.7	
2	☐	2.000	0.730	60991.02	0.0270	P	2.8	-63.5
3	☐	5.000	4.490	68546.04	0.0306	P	0.4	-10.2
4	☐	10.000	9.757	78062.94	0.0356	P	1.2	-2.4
5	☐	100.000	92.249	241551.76	0.1136	P	1.0	-7.8
6	☐	200.000	203.913	446624.63	0.2192	P	1.0	2.0

y = 9.4567E-004 * x + 0.0263
R = 0.9990
DL = 1.443 ppb
BEC = 27.86 ppb

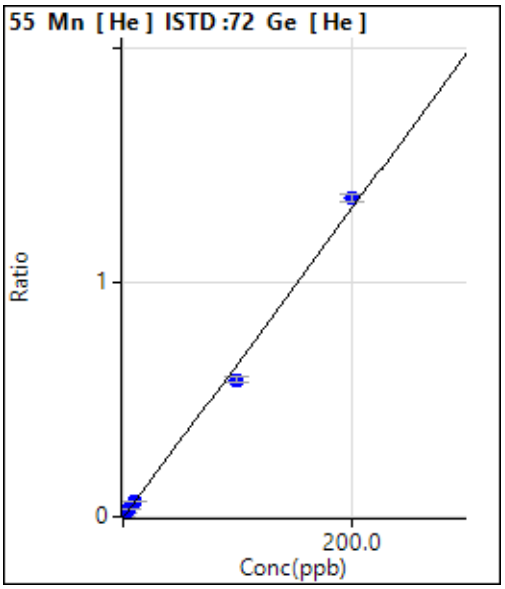
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1220.08	0.0019	P	9.6	
2	☐	2.000	1.765	2370.25	0.0037	P	8.4	-11.7
3	☐	5.000	4.749	4267.39	0.0066	P	2.6	-5.0
4	☐	10.000	9.954	7525.49	0.0118	P	3.6	-0.5
5	☐	100.000	86.807	55267.08	0.0886	P	1.7	-13.2
6	☐	200.000	206.608	123013.35	0.2084	P	1.8	3.3

y = 9.9933E-004 * x + 0.0019
R = 0.9970
DL = 0.542 ppb
BEC = 1.891 ppb

Weight: <None>
Min Conc: <None>

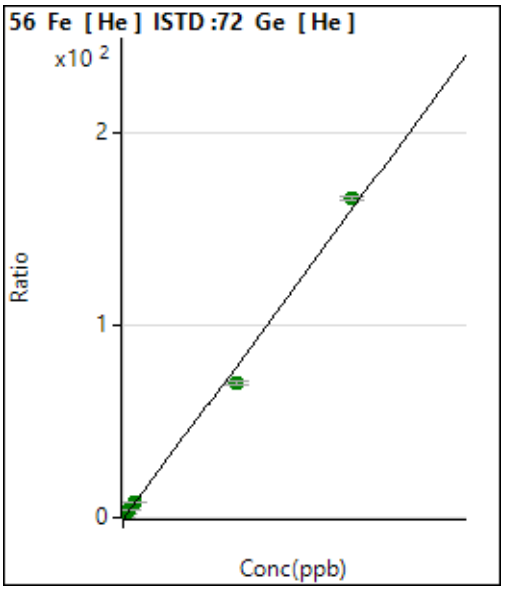


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	943.39	0.0015	P	18.2	
2	☐	2.000	1.955	9326.64	0.0144	P	5.7	-2.2
3	☐	5.000	4.992	22151.42	0.0344	P	4.0	-0.2
4	☐	10.000	9.935	42659.59	0.0671	P	3.4	-0.6
5	☐	100.000	88.075	363694.25	0.5833	P	4.0	-11.9
6	☐	200.000	205.966	804279.18	1.3622	P	1.9	3.0

y = 0.0066 * x + 0.0015
R = 0.9975
DL = 0.1207 ppb
BEC = 0.2212 ppb

Weight: <None>
Min Conc: <None>

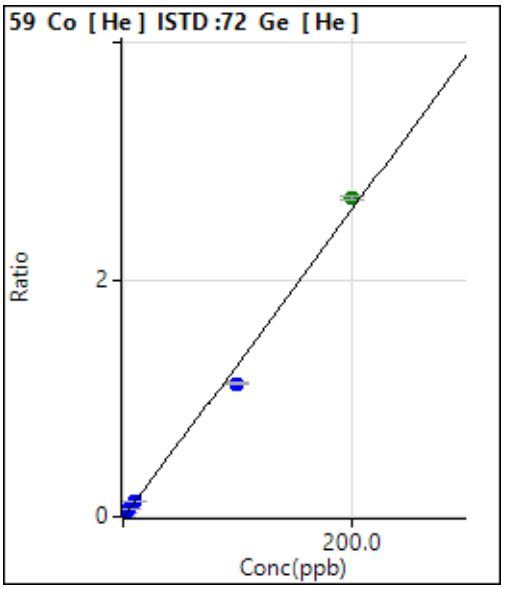
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24465.37	0.0379	P	2.0	
2	☐	200.000	193.145	1031370.90	1.5900	A	2.1	-3.4
3	☐	500.000	495.971	2587930.17	4.0235	A	2.7	-0.8
4	☐	1000.000	1002.443	5145651.90	8.0935	A	1.8	0.2
5	☐	10000.00	8699.389	43610472.68	69.9459	A	3.4	-13.0
6	☐	20000.00	20650.35	97997488.54	165.983	A	1.2	3.3

y = 0.0080 * x + 0.0379
R = 0.9971
DL = 0.2784 ppb
BEC = 4.713 ppb

Weight: <None>
Min Conc: <None>

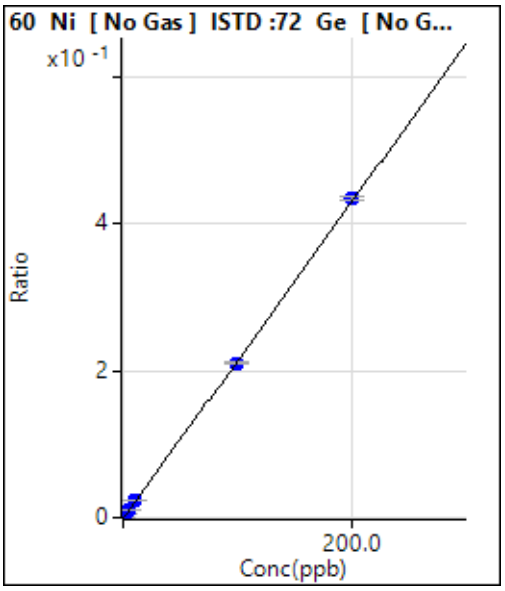


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	356.68	0.0006	P	19.1	
2	☐	2.000	1.908	16466.78	0.0254	P	4.3	-4.6
3	☐	5.000	4.936	41669.99	0.0648	P	3.7	-1.3
4	☐	10.000	9.877	82083.35	0.1291	P	2.7	-1.2
5	☐	100.000	86.524	702455.25	1.1266	P	2.8	-13.5
6	☐	200.000	206.747	1588902.63	2.6913	A	0.8	3.4

y = 0.0130 * x + 5.5129E-004
R = 0.9969
DL = 0.02431 ppb
BEC = 0.04236 ppb

Weight: <None>
Min Conc: <None>

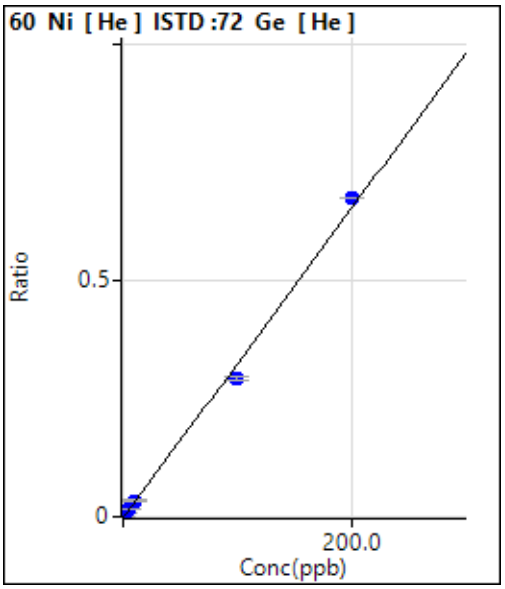
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1296.75	0.0006	P	10.2	
2	☐	2.000	1.999	11014.58	0.0049	P	1.0	0.0
3	☐	5.000	5.074	25781.12	0.0115	P	3.6	1.5
4	☐	10.000	10.241	49669.92	0.0226	P	1.7	2.4
5	☐	100.000	97.321	447036.97	0.2102	P	1.5	-2.7
6	☐	200.000	201.326	884795.19	0.4342	P	1.8	0.7

y = 0.0022 * x + 5.7660E-004
R = 0.9999
DL = 0.08162 ppb
BEC = 0.2677 ppb

Weight: <None>
Min Conc: <None>

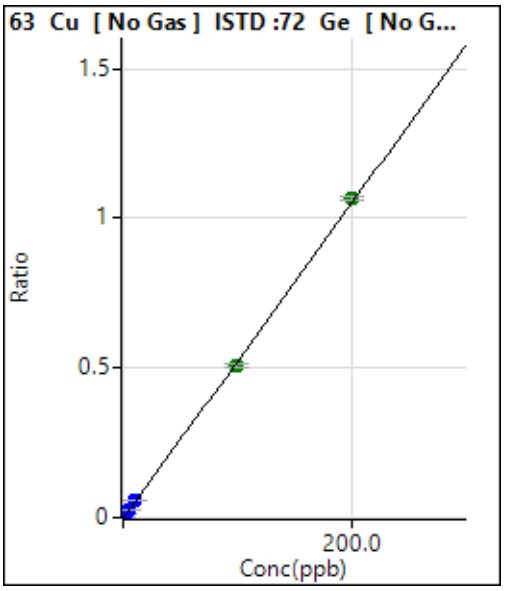


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.01	0.0007	P	5.4	
2	☐	2.000	2.054	4807.60	0.0074	P	5.4	2.7
3	☐	5.000	5.201	11401.58	0.0177	P	3.7	4.0
4	☐	10.000	10.179	21643.96	0.0340	P	3.0	1.8
5	☐	100.000	88.857	182002.89	0.2919	P	2.8	-11.1
6	☐	200.000	205.557	398129.33	0.6744	P	0.2	2.8

y = 0.0033 * x + 6.8125E-004
R = 0.9978
DL = 0.03396 ppb
BEC = 0.2079 ppb

Weight: <None>
Min Conc: <None>

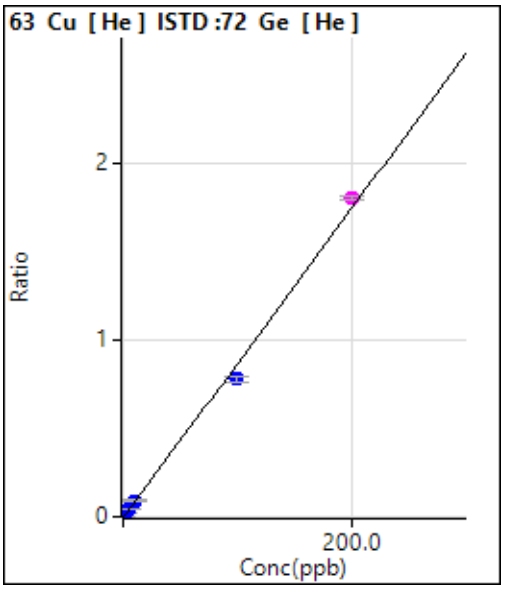
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3400.48	0.0015	P	6.0	
2	☐	2.000	2.032	27587.98	0.0122	P	3.5	1.6
3	☐	5.000	5.088	63506.38	0.0283	P	2.0	1.8
4	☐	10.000	10.319	122720.29	0.0559	P	3.2	3.2
5	☐	100.000	95.908	1078742.79	0.5072	A	1.8	-4.1
6	☐	200.000	202.028	2173799.39	1.0668	A	1.6	1.0

y = 0.0053 * x + 0.0015
R = 0.9997
DL = 0.05152 ppb
BEC = 0.2868 ppb

Weight: <None>
Min Conc: <None>

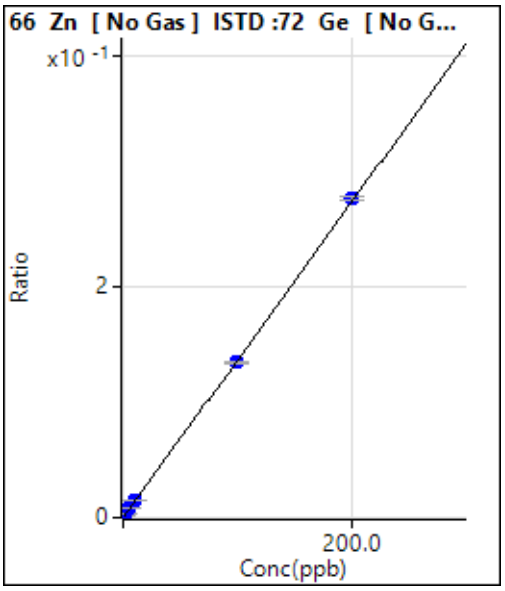


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1383.43	0.0021	P	13.3	
2	☐	2.000	2.092	13276.68	0.0205	P	1.9	4.6
3	☐	5.000	5.072	29952.99	0.0466	P	4.9	1.4
4	☐	10.000	10.277	58588.23	0.0922	P	0.9	2.8
5	☐	100.000	88.564	485025.33	0.7779	P	3.4	-11.4
6	☐	200.000	205.702	1065071.18	1.8040	M	0.8	2.9

y = 0.0088 * x + 0.0021
R = 0.9977
DL = 0.09751 ppb
BEC = 0.2445 ppb

Weight: <None>
Min Conc: <None>

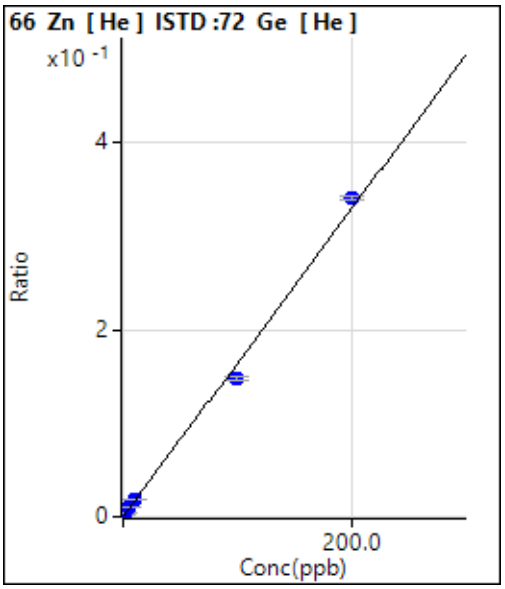
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3093.72	0.0014	P	5.9	
2	☐	2.000	1.887	8923.07	0.0040	P	3.3	-5.7
3	☐	5.000	4.955	18262.39	0.0082	P	0.9	-0.9
4	☐	10.000	10.244	33751.80	0.0154	P	2.8	2.4
5	☐	100.000	97.320	285894.18	0.1344	P	1.1	-2.7
6	☐	200.000	201.330	563702.05	0.2766	P	1.0	0.7

y = 0.0014 * x + 0.0014
R = 0.9999
DL = 0.1775 ppb
BEC = 1.006 ppb

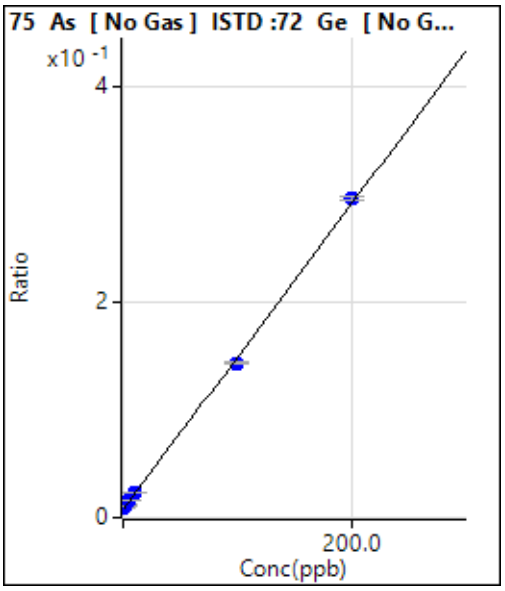
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1206.74	0.0019	P	19.6	
2	☐	2.000	1.854	3193.76	0.0049	P	3.3	-7.3
3	☐	5.000	5.042	6548.33	0.0102	P	3.2	0.8
4	☐	10.000	9.819	11481.66	0.0181	P	6.0	-1.8
5	☐	100.000	88.237	91882.98	0.1474	P	2.8	-11.8
6	☐	200.000	205.891	201545.14	0.3414	P	1.0	2.9

y = 0.0016 * x + 0.0019
R = 0.9976
DL = 0.666 ppb
BEC = 1.132 ppb

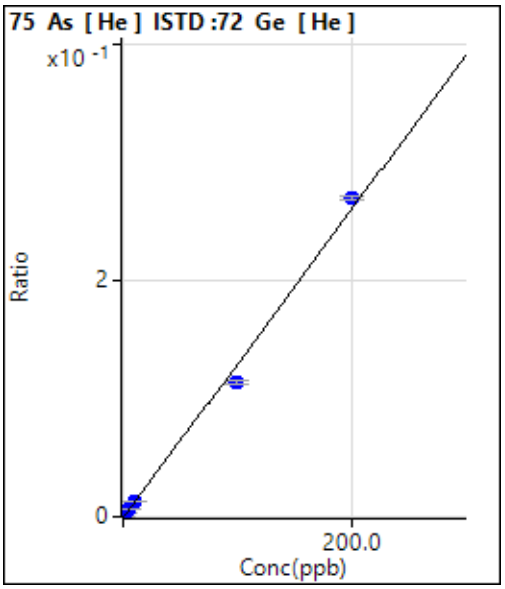
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20405.60	0.0091	P	0.5	
2	☐	2.000	1.771	26142.09	0.0116	P	3.9	-11.5
3	☐	5.000	4.816	35646.90	0.0159	P	3.4	-3.7
4	☐	10.000	9.970	50961.94	0.0232	P	1.4	-0.3
5	☐	100.000	94.882	305659.60	0.1437	P	0.6	-5.1
6	☐	200.000	202.567	604293.97	0.2966	P	0.7	1.3

y = 0.0014 * x + 0.0091
R = 0.9995
DL = 0.09065 ppb
BEC = 6.394 ppb

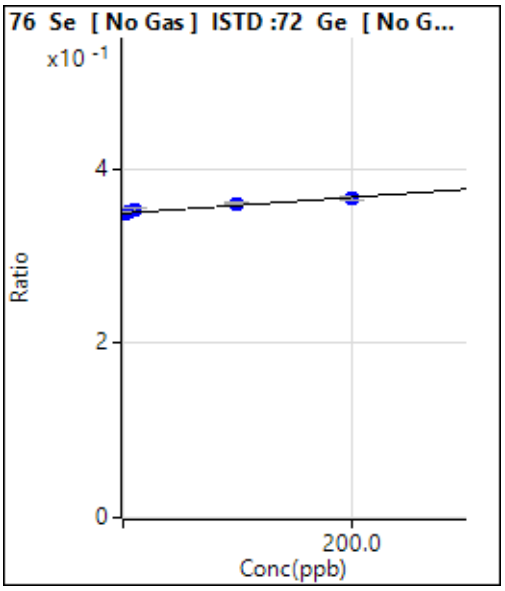
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.67	0.0004	P	9.0	
2	☐	2.000	1.880	1841.25	0.0028	P	5.8	-6.0
3	☐	5.000	4.872	4340.72	0.0067	P	2.4	-2.6
4	☐	10.000	9.768	8359.27	0.0131	P	3.1	-2.3
5	☐	100.000	87.238	71322.90	0.1144	P	3.0	-12.8
6	☐	200.000	206.397	159478.93	0.2701	P	1.3	3.2

y = 0.0013 * x + 3.8182E-004
R = 0.9972
DL = 0.07929 ppb
BEC = 0.2922 ppb

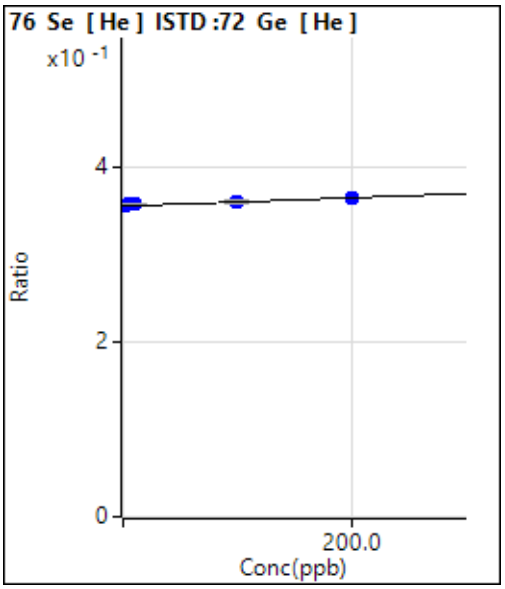
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	785402.85	0.3493	P	0.5	
2	☐	2.000	-10.525	785730.66	0.3483	P	0.7	-626.2
3	☐	5.000	8.988	784468.40	0.3501	P	0.5	79.8
4	☐	10.000	45.030	775596.06	0.3535	P	0.8	350.3
5	☐	100.000	122.768	766977.41	0.3607	P	0.7	22.8
6	☐	200.000	186.890	747070.67	0.3666	P	0.7	-6.6

y = 9.2810E-005 * x + 0.3493
R = 0.9716
DL = 54.2 ppb
BEC = 3763 ppb

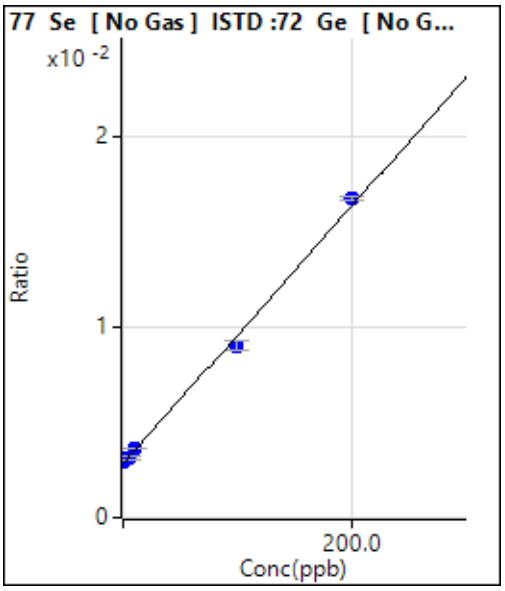
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230100.96	0.3562	P	1.1	
2	☐	2.000	21.314	231705.33	0.3572	P	1.2	965.7
3	☐	5.000	44.212	230473.84	0.3583	P	0.9	784.2
4	☐	10.000	39.140	227624.43	0.3581	P	1.1	291.4
5	☐	100.000	106.791	225319.13	0.3614	P	1.0	6.8
6	☐	200.000	193.974	215835.91	0.3656	P	0.6	-3.0

y = 4.8723E-005 * x + 0.3562
R = 0.9825
DL = 237.2 ppb
BEC = 7310 ppb

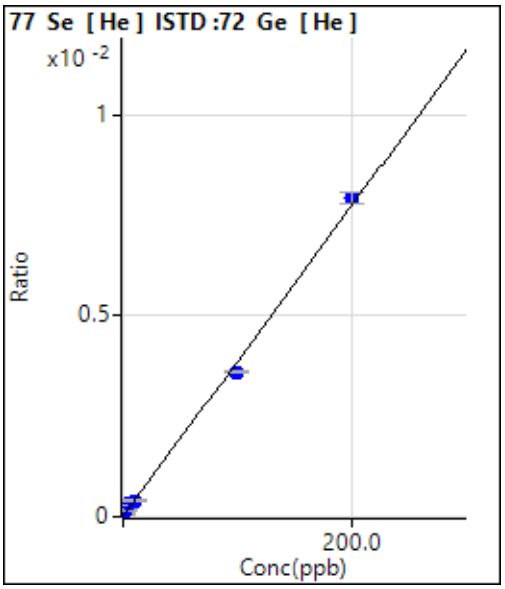
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6575.05	0.0029	P	2.6	
2	☐	2.000	2.690	7005.25	0.0031	P	2.8	34.5
3	☐	5.000	2.919	6991.93	0.0031	P	3.9	-41.6
4	☐	10.000	10.318	7942.41	0.0036	P	0.3	3.2
5	☐	100.000	90.259	19160.46	0.0090	P	5.2	-9.7
6	☐	200.000	204.900	34102.98	0.0167	P	0.9	2.4

y = 6.7408E-005 * x + 0.0029
R = 0.9983
DL = 3.425 ppb
BEC = 43.38 ppb

Weight: <None>
Min Conc: <None>

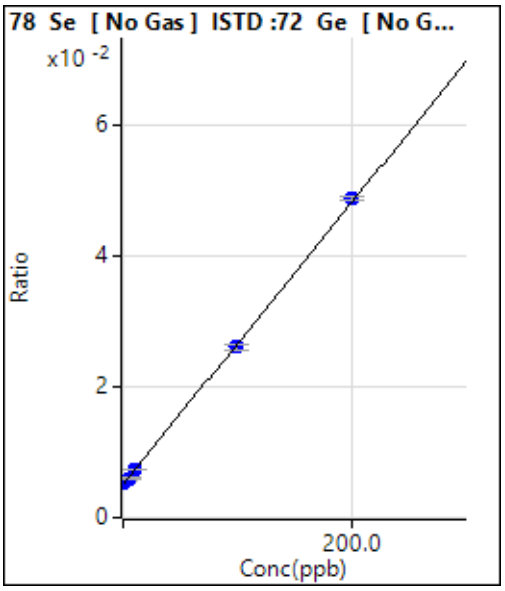


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	55.6	
2	☐	2.000	2.531	100.00	0.0002	P	36.0	26.6
3	☐	5.000	7.265	216.67	0.0003	P	23.4	45.3
4	☐	10.000	8.870	253.34	0.0004	P	6.7	-11.3
5	☐	100.000	91.966	2246.89	0.0036	P	1.7	-8.0
6	☐	200.000	204.011	4677.57	0.0079	P	3.6	2.0

y = 3.8567E-005 * x + 5.6528E-005
R = 0.9987
DL = 2.447 ppb
BEC = 1.466 ppb

Weight: <None>
Min Conc: <None>

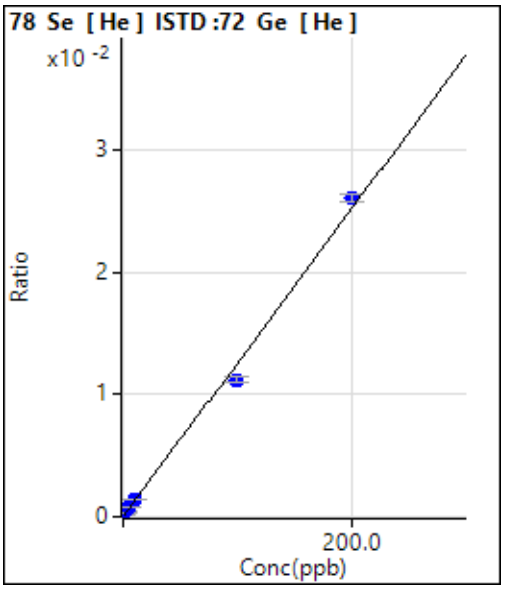
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11948.76	0.0053	P	0.4	
2	☐	2.000	1.475	12702.84	0.0056	P	3.6	-26.3
3	☐	5.000	2.951	13330.09	0.0059	P	2.8	-41.0
4	☐	10.000	9.648	16216.61	0.0074	P	2.1	-3.5
5	☐	100.000	96.392	55422.67	0.0261	P	2.7	-3.6
6	☐	200.000	201.878	99363.64	0.0488	P	1.7	0.9

y = 2.1521E-004 * x + 0.0053
R = 0.9998
DL = 0.3306 ppb
BEC = 24.69 ppb

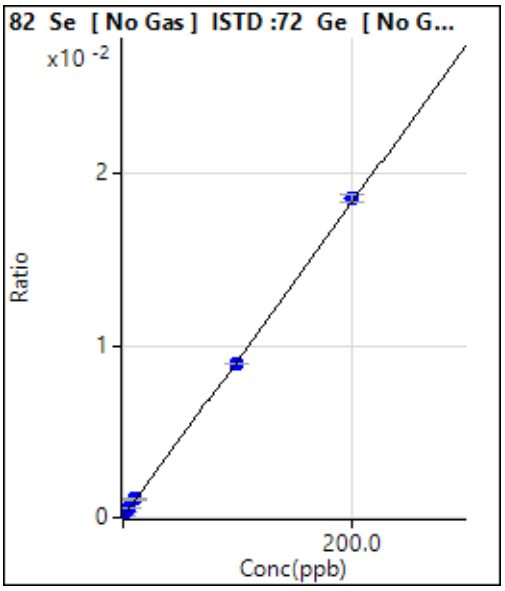
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	105.33	0.0002	P	10.4	
2	☐	2.000	1.852	257.33	0.0004	P	5.0	-7.4
3	☐	5.000	4.444	465.34	0.0007	P	0.3	-11.1
4	☐	10.000	10.327	931.37	0.0015	P	3.2	3.3
5	☐	100.000	87.985	7019.16	0.0113	P	4.6	-12.0
6	☐	200.000	206.007	15434.74	0.0261	P	2.5	3.0

y = 1.2610E-004 * x + 1.6315E-004
R = 0.9975
DL = 0.4025 ppb
BEC = 1.294 ppb

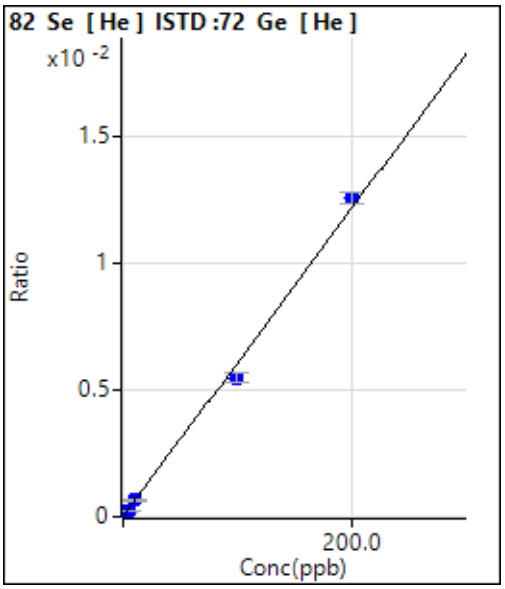
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	270.01	0.0001	P	17.0	
2	☐	2.000	2.047	693.37	0.0003	P	9.7	2.4
3	☐	5.000	4.607	1213.41	0.0005	P	12.5	-7.9
4	☐	10.000	10.477	2366.92	0.0011	P	7.3	4.8
5	☐	100.000	96.262	18983.45	0.0089	P	0.4	-3.7
6	☐	200.000	201.854	37876.37	0.0186	P	2.6	0.9

y = 9.1487E-005 * x + 1.2008E-004
R = 0.9997
DL = 0.6702 ppb
BEC = 1.313 ppb

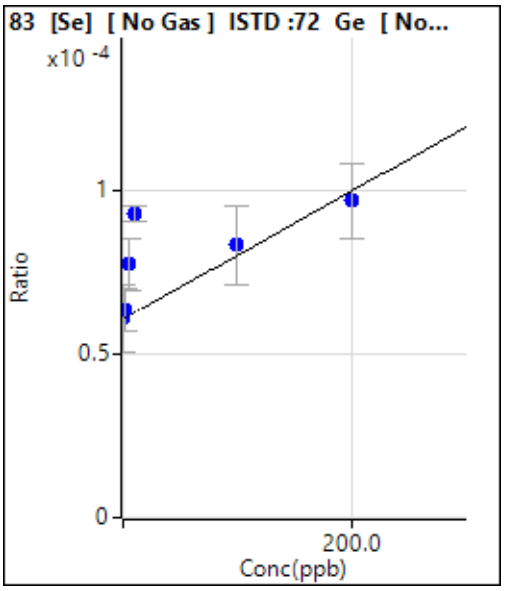
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0001	P	46.2	
2	☐	2.000	1.946	130.00	0.0002	P	38.4	-2.7
3	☐	5.000	2.488	150.00	0.0002	P	13.4	-50.2
4	☐	10.000	9.706	426.69	0.0007	P	8.8	-2.9
5	☐	100.000	88.723	3407.17	0.0055	P	6.5	-11.3
6	☐	200.000	205.717	7415.47	0.0126	P	3.5	2.9

y = 6.0672E-005 * x + 8.2304E-005
R = 0.9978
DL = 1.879 ppb
BEC = 1.357 ppb

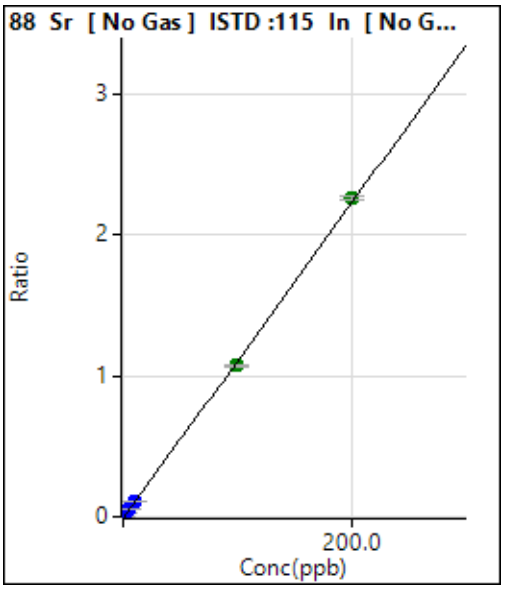
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	136.67	0.0001	P	33.2	
2	☐	2.000	13.882	143.33	0.0001	P	19.9	594.1
3	☐	5.000	84.848	173.34	0.0001	P	20.5	1597.0
4	☐	10.000	163.015	203.34	0.0001	P	5.2	1530.1
5	☐	100.000	114.513	176.67	0.0001	P	29.1	14.5
6	☐	200.000	182.978	196.67	0.0001	P	23.2	-8.5

y = 1.9536E-007 * x + 6.0804E-005
R = 0.6681
DL = 309.7 ppb
BEC = 311.2 ppb

Weight: <None>
Min Conc: <None>

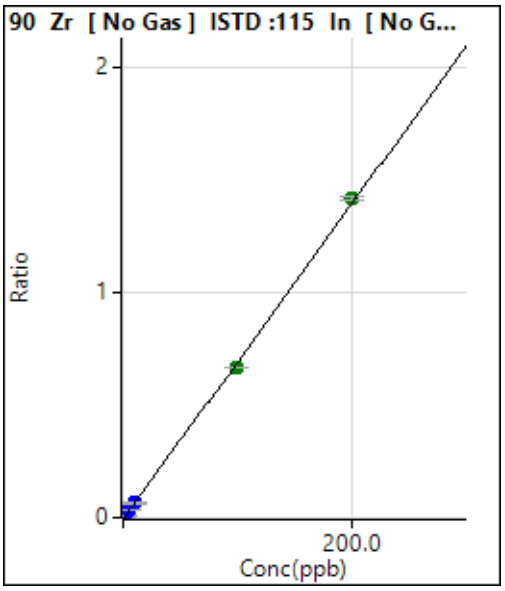


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2777.00	0.0009	P	11.9	
2	☐	2.000	1.920	70710.92	0.0223	P	3.0	-4.0
3	☐	5.000	4.858	173739.71	0.0552	P	1.4	-2.8
4	☐	10.000	9.998	351250.39	0.1126	P	1.5	0.0
5	☐	100.000	95.609	3198230.89	1.0696	A	0.3	-4.4
6	☐	200.000	202.200	6478697.61	2.2611	A	1.4	1.1

y = 0.0112 * x + 8.7612E-004
R = 0.9997
DL = 0.02788 ppb
BEC = 0.07838 ppb

Weight: <None>
Min Conc: <None>

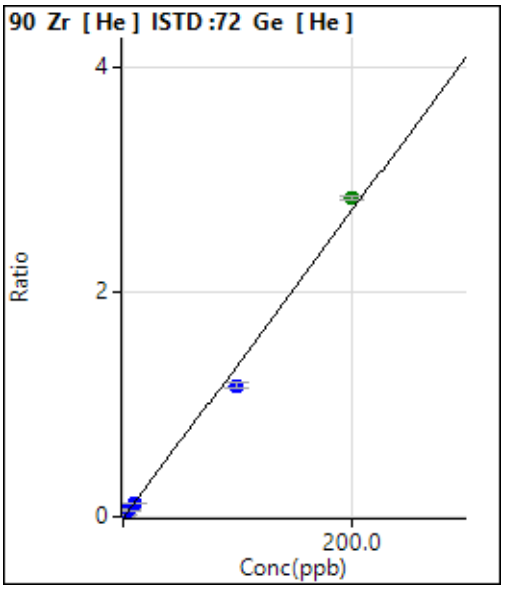
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1566.78	0.0005	P	11.1	
2	☐	2.000	1.588	36733.57	0.0116	P	4.2	-20.6
3	☐	5.000	4.329	96932.76	0.0308	P	3.4	-13.4
4	☐	10.000	9.103	200192.25	0.0642	P	2.8	-9.0
5	☐	100.000	94.896	1987143.20	0.6646	A	0.5	-5.1
6	☐	200.000	202.618	4064135.77	1.4184	A	1.6	1.3

y = 0.0070 * x + 4.9428E-004
R = 0.9996
DL = 0.02359 ppb
BEC = 0.07063 ppb

Weight: <None>
Min Conc: <None>

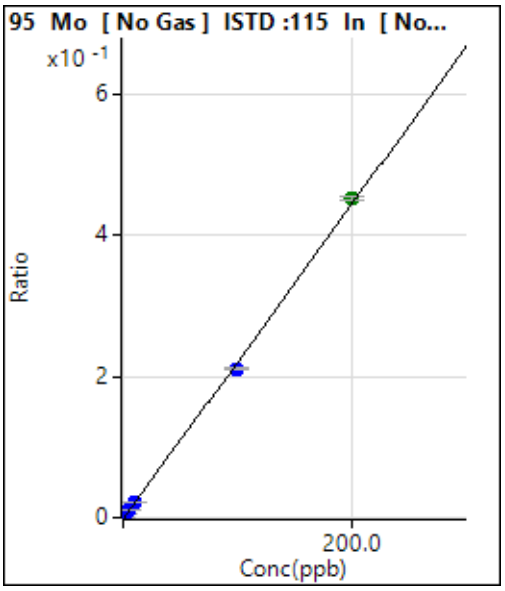


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1283.43	0.0020	P	21.7	
2	☐	2.000	1.581	15302.24	0.0236	P	1.1	-21.0
3	☐	5.000	4.299	39069.96	0.0607	P	3.9	-14.0
4	☐	10.000	8.981	79315.50	0.1247	P	3.4	-10.2
5	☐	100.000	85.289	728032.52	1.1677	P	3.9	-14.7
6	☐	200.000	207.428	1675053.83	2.8371	A	1.7	3.7

y = 0.0137 * x + 0.0020
R = 0.9964
DL = 0.09475 ppb
BEC = 0.1454 ppb

Weight: <None>
Min Conc: <None>

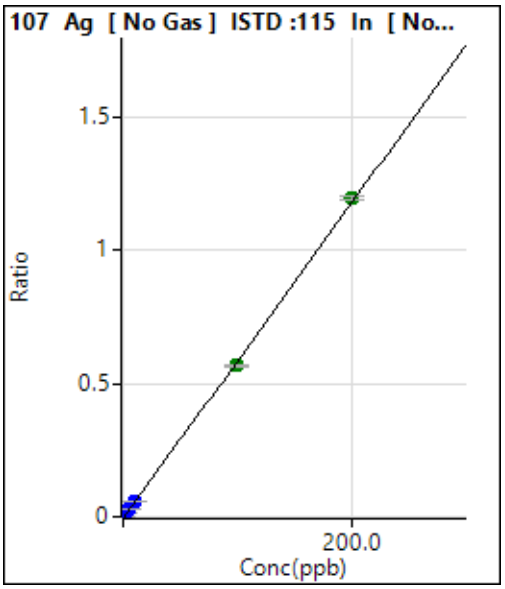
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	290.01	0.0001	P	13.5	
2	☐	2.000	1.881	13563.74	0.0043	P	5.4	-6.0
3	☐	5.000	4.702	33304.97	0.0106	P	2.5	-6.0
4	☐	10.000	9.610	67123.83	0.0215	P	3.4	-3.9
5	☐	100.000	94.408	629842.45	0.2106	P	1.0	-5.6
6	☐	200.000	202.824	1296346.39	0.4524	A	1.6	1.4

y = 0.0022 * x + 9.1425E-005
R = 0.9995
DL = 0.01659 ppb
BEC = 0.04099 ppb

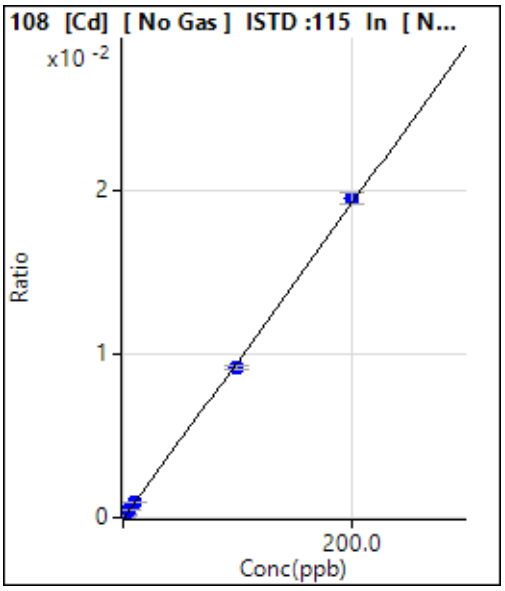
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1240.08	0.0004	P	3.7	
2	☐	2.000	1.990	38502.31	0.0122	P	3.6	-0.5
3	☐	5.000	4.927	93038.69	0.0295	P	2.9	-1.5
4	☐	10.000	10.096	187552.87	0.0601	P	1.2	1.0
5	☐	100.000	95.840	1697216.07	0.5676	A	1.1	-4.2
6	☐	200.000	202.077	3427843.39	1.1963	A	1.3	1.0

y = 0.0059 * x + 3.9109E-004
R = 0.9997
DL = 0.007261 ppb
BEC = 0.06608 ppb

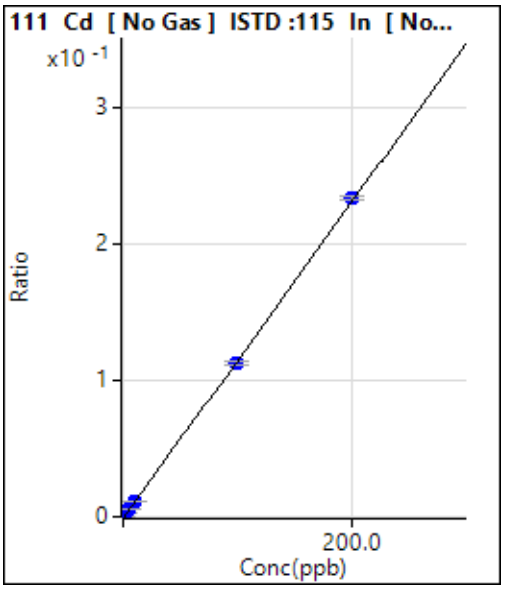
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.776	550.02	0.0002	P	15.9	-11.2
3	☐	5.000	4.837	1480.11	0.0005	P	6.3	-3.3
4	☐	10.000	9.406	2843.68	0.0009	P	3.9	-5.9
5	☐	100.000	95.277	27565.37	0.0092	P	2.1	-4.7
6	☐	200.000	202.398	56104.53	0.0196	P	3.1	1.2

y = 9.6732E-005 * x + 2.1093E-006
R = 0.9996
DL = 0.05665 ppb
BEC = 0.02181 ppb

Weight: <None>
Min Conc: <None>

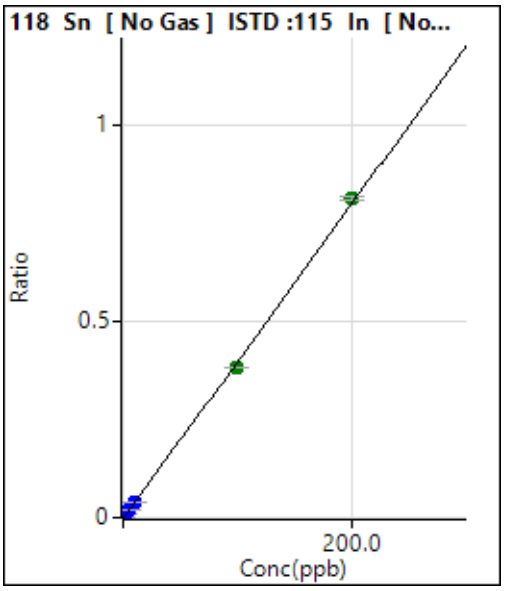


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	109.51	0.0000	P	18.8	
2	☐	2.000	1.944	7242.25	0.0023	P	0.8	-2.8
3	☐	5.000	4.985	18307.00	0.0058	P	2.0	-0.3
4	☐	10.000	9.992	36233.55	0.0116	P	3.6	-0.1
5	☐	100.000	96.840	335789.94	0.1123	P	2.3	-3.2
6	☐	200.000	201.581	669657.46	0.2337	P	1.5	0.8

y = 0.0012 * x + 3.4552E-005
R = 0.9998
DL = 0.0168 ppb
BEC = 0.02981 ppb

Weight: <None>
Min Conc: <None>

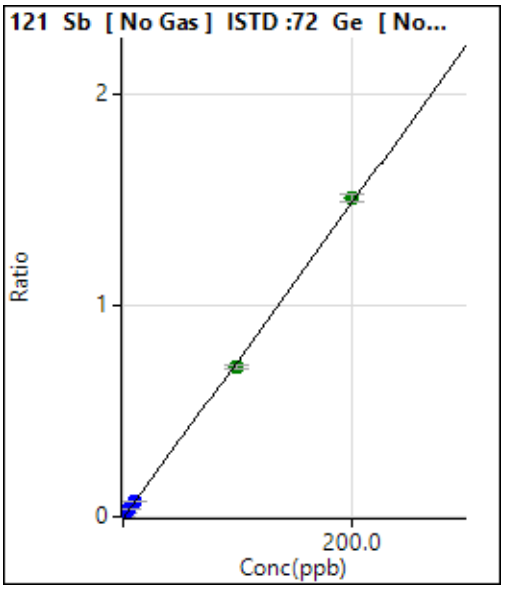
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3790.62	0.0012	P	8.8	
2	☐	2.000	1.940	28390.61	0.0090	P	3.5	-3.0
3	☐	5.000	4.829	64680.30	0.0205	P	1.7	-3.4
4	☐	10.000	9.866	126999.63	0.0407	P	3.3	-1.3
5	☐	100.000	94.845	1139860.84	0.3812	A	0.5	-5.2
6	☐	200.000	202.589	2329240.33	0.8129	A	1.4	1.3

y = 0.0040 * x + 0.0012
R = 0.9995
DL = 0.07919 ppb
BEC = 0.2984 ppb

Weight: <None>
Min Conc: <None>

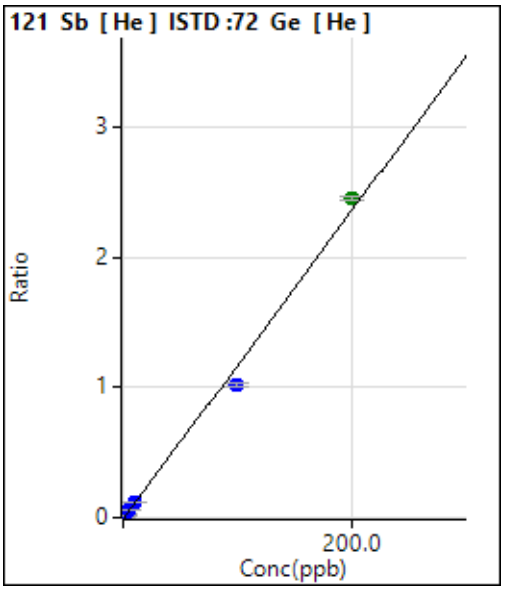


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	996.72	0.0004	P	12.2	
2	☐	2.000	1.913	33151.72	0.0147	P	3.3	-4.3
3	☐	5.000	4.844	81841.87	0.0365	P	1.4	-3.1
4	☐	10.000	9.914	163014.92	0.0743	P	1.2	-0.9
5	☐	100.000	95.148	1508211.80	0.7092	A	1.4	-4.9
6	☐	200.000	202.435	3073545.47	1.5083	A	1.9	1.2

y = 0.0074 * x + 4.4331E-004
R = 0.9996
DL = 0.02185 ppb
BEC = 0.05952 ppb

Weight: <None>
Min Conc: <None>

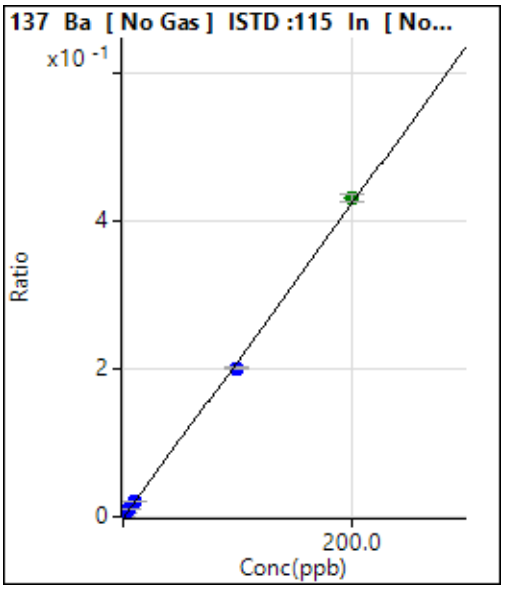
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.02	0.0007	P	12.4	
2	☐	2.000	1.839	14564.87	0.0225	P	3.8	-8.1
3	☐	5.000	4.635	35725.08	0.0555	P	1.5	-7.3
4	☐	10.000	9.661	73124.42	0.1150	P	1.4	-3.4
5	☐	100.000	85.995	634879.58	1.0183	P	3.3	-14.0
6	☐	200.000	207.030	1446760.45	2.4505	A	0.9	3.5

y = 0.0118 * x + 6.9649E-004
R = 0.9966
DL = 0.02188 ppb
BEC = 0.05886 ppb

Weight: <None>
Min Conc: <None>

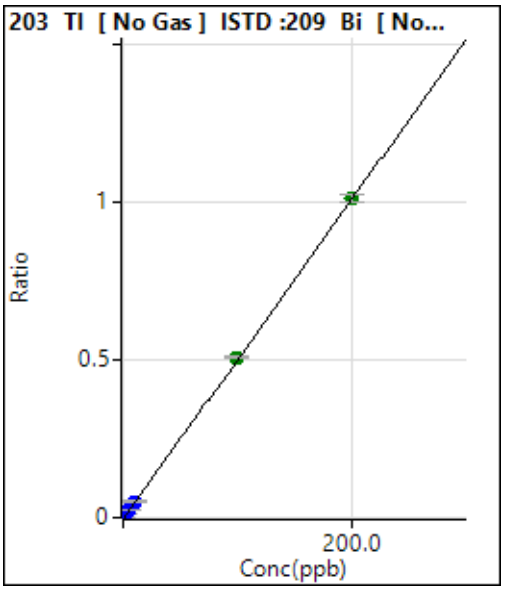


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	810.04	0.0003	P	16.4	
2	☐	2.000	1.915	13714.08	0.0043	P	1.6	-4.2
3	☐	5.000	4.933	33867.33	0.0108	P	2.8	-1.3
4	☐	10.000	9.796	65824.80	0.0211	P	1.6	-2.0
5	☐	100.000	94.395	601570.19	0.2012	P	0.6	-5.6
6	☐	200.000	202.815	1237724.43	0.4320	A	2.3	1.4

y = 0.0021 * x + 2.5548E-004
R = 0.9995
DL = 0.05893 ppb
BEC = 0.12 ppb

Weight: <None>
Min Conc: <None>

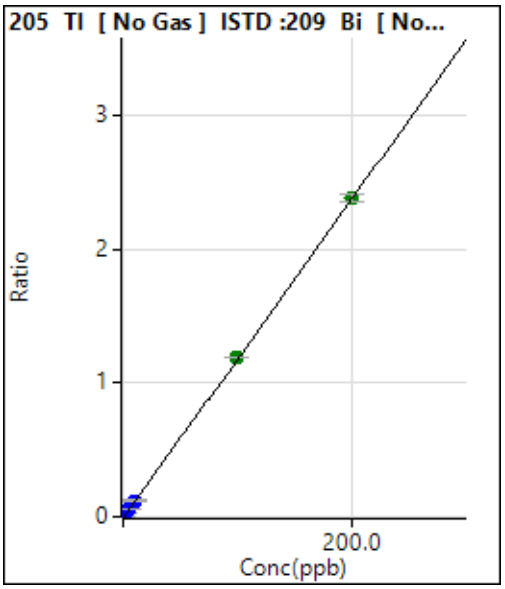
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	866.71	0.0003	P	8.3	
2	☐	2.000	2.131	37850.45	0.0110	P	3.2	6.6
3	☐	5.000	5.241	91281.88	0.0268	P	2.2	4.8
4	☐	10.000	10.113	175035.35	0.0515	P	2.6	1.1
5	☐	100.000	100.386	1650438.46	0.5088	A	0.2	0.4
6	☐	200.000	199.794	3143447.76	1.0124	A	2.3	-0.1

y = 0.0051 * x + 2.5288E-004
R = 1.0000
DL = 0.01247 ppb
BEC = 0.04992 ppb

Weight: <None>
Min Conc: <None>

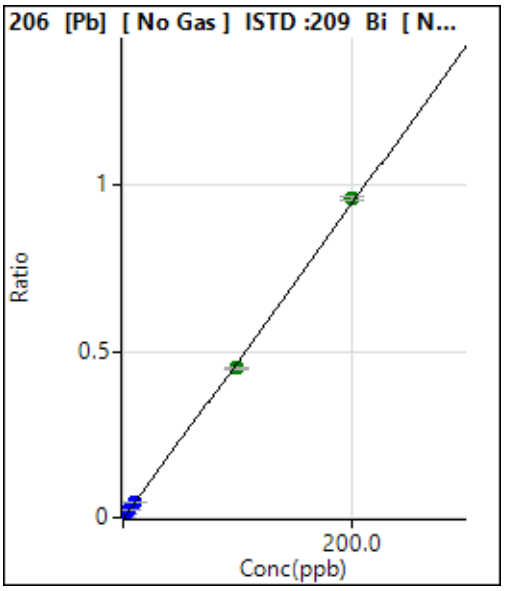


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2063.54	0.0006	P	3.0	
2	☐	2.000	2.112	88268.41	0.0258	P	2.3	5.6
3	☐	5.000	5.242	214774.69	0.0631	P	2.1	4.8
4	☐	10.000	10.149	413145.59	0.1215	P	1.5	1.5
5	☐	100.000	100.212	3875105.04	1.1946	A	0.5	0.2
6	☐	200.000	199.879	7396313.43	2.3821	A	2.3	-0.1

y = 0.0119 * x + 6.0191E-004
R = 1.0000
DL = 0.004486 ppb
BEC = 0.05052 ppb

Weight: <None>
Min Conc: <None>

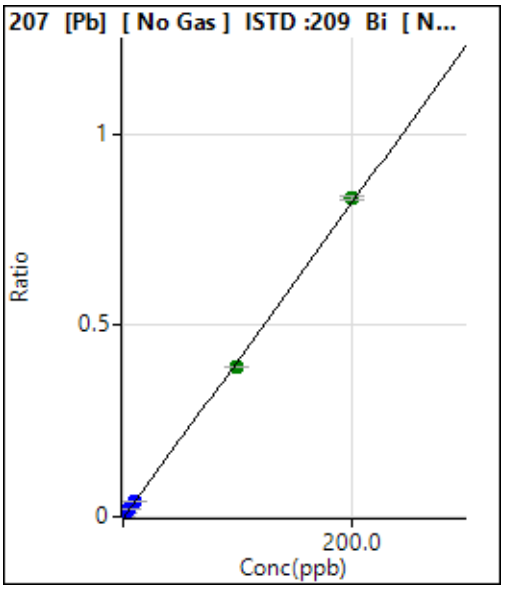
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1060.06	0.0003	P	8.7	
2	☐	2.000	1.931	32452.31	0.0095	P	4.9	-3.4
3	☐	5.000	4.835	79191.23	0.0233	P	1.6	-3.3
4	☐	10.000	9.773	158722.58	0.0467	P	1.1	-2.3
5	☐	100.000	94.686	1458457.11	0.4496	A	0.6	-5.3
6	☐	200.000	202.673	2986989.65	0.9620	A	1.6	1.3

y = 0.0047 * x + 3.0914E-004
R = 0.9995
DL = 0.01696 ppb
BEC = 0.06515 ppb

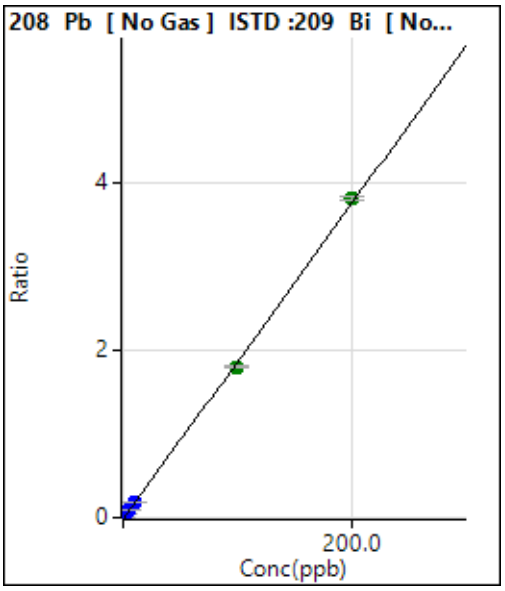
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	993.39	0.0003	P	11.3	
2	☐	2.000	1.918	28068.23	0.0082	P	1.8	-4.1
3	☐	5.000	4.879	69444.53	0.0204	P	2.3	-2.4
4	☐	10.000	10.016	141282.24	0.0416	P	0.9	0.2
5	☐	100.000	95.300	1274611.99	0.3929	A	0.7	-4.7
6	☐	200.000	202.353	2589504.70	0.8340	A	1.3	1.2

y = 0.0041 * x + 2.8962E-004
R = 0.9996
DL = 0.02393 ppb
BEC = 0.0703 ppb

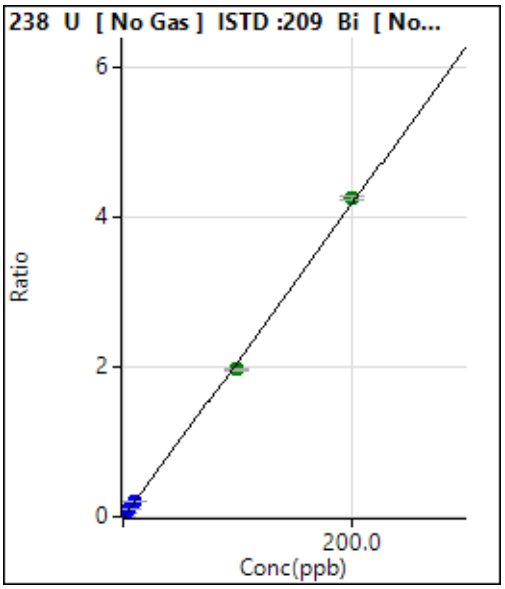
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4403.72	0.0013	P	6.1	
2	☐	2.000	1.947	130015.42	0.0380	P	2.4	-2.7
3	☐	5.000	4.885	317756.55	0.0933	P	1.5	-2.3
4	☐	10.000	9.891	637771.18	0.1876	P	1.4	-1.1
5	☐	100.000	95.250	5824240.82	1.7954	A	1.1	-4.8
6	☐	200.000	202.384	11840379.88	3.8133	A	1.3	1.2

y = 0.0188 * x + 0.0013
R = 0.9996
DL = 0.01253 ppb
BEC = 0.06818 ppb

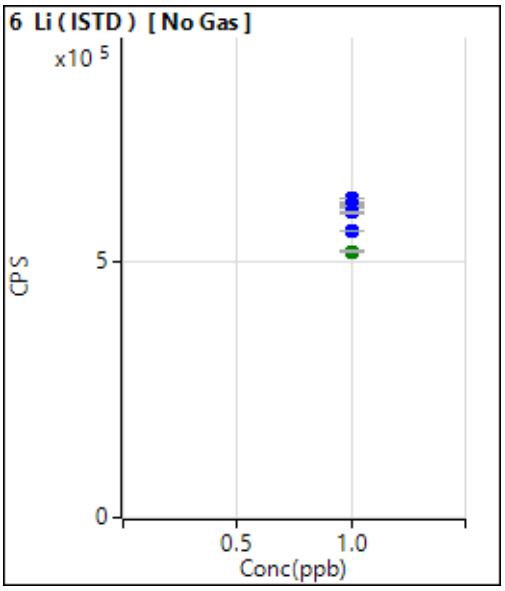
Weight: <None>
Min Conc: <None>



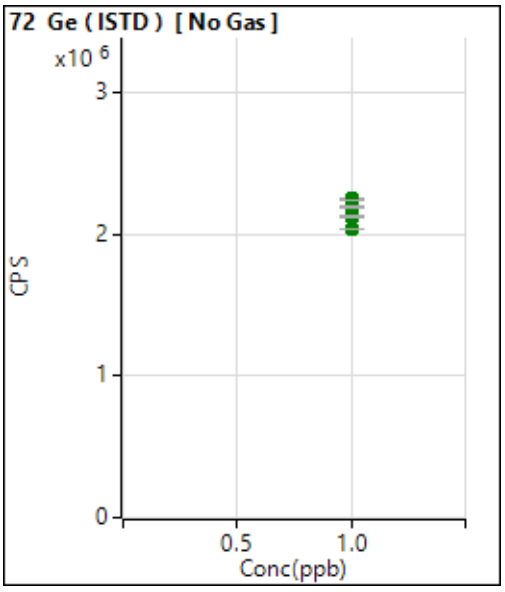
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2500.31	0.0007	P	2.9	
2	☐	2.000	1.832	134175.31	0.0392	P	1.1	-8.4
3	☐	5.000	4.618	332485.70	0.0976	P	2.6	-7.6
4	☐	10.000	9.384	671843.46	0.1976	P	2.2	-6.2
5	☐	100.000	94.090	6405808.65	1.9746	A	1.3	-5.9
6	☐	200.000	202.997	13225565.64	4.2594	A	1.1	1.5

y = 0.0210 * x + 7.2934E-004
R = 0.9994
DL = 0.002976 ppb
BEC = 0.03477 ppb

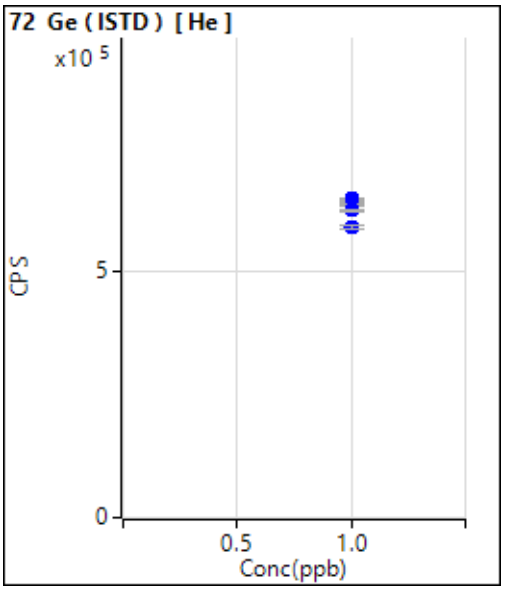
Weight: <None>
Min Conc: <None>



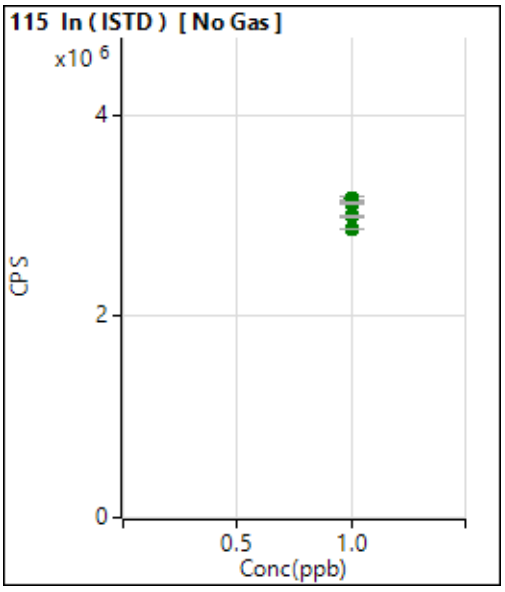
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		622487.59		P	0.3	
2	☐	1.000		612855.95		P	0.2	
3	☐	1.000		605808.88		P	0.7	
4	☐	1.000		595362.47		P	0.5	
5	☐	1.000		559757.28		P	0.2	
6	☐	1.000		518985.75		A	0.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2248670.91		A	0.2	
2	☐	1.000		2255952.10		A	0.2	
3	☐	1.000		2240673.19		A	0.2	
4	☐	1.000		2194396.42		A	0.5	
5	☐	1.000		2126602.26		A	0.6	
6	☐	1.000		2037717.00		A	0.3	

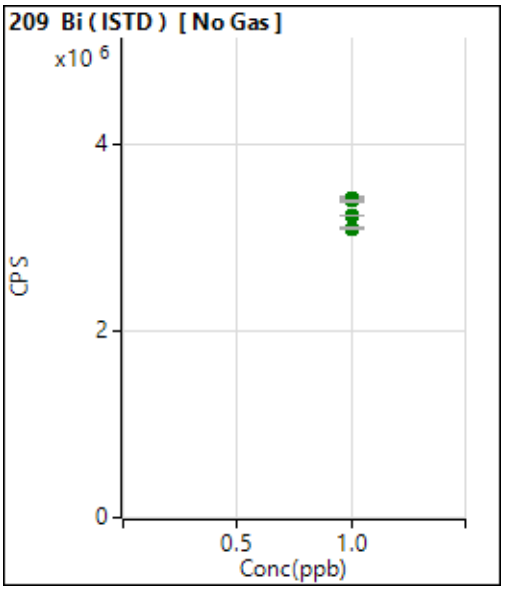


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		646115.07		P	1.1	
2	☐	1.000		648675.79		P	0.1	
3	☐	1.000		643207.97		P	0.4	
4	☐	1.000		635715.52		P	0.9	
5	☐	1.000		623543.40		P	0.5	
6	☐	1.000		590364.78		P	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3171445.01		A	0.7	
2	☐	1.000		3165678.94		A	1.2	
3	☐	1.000		3148763.18		A	0.5	
4	☐	1.000		3118576.33		A	0.4	
5	☐	1.000		2990124.82		A	0.4	
6	☐	1.000		2865334.03		A	0.0	

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3428605.26		A	0.8	
2	☐	1.000		3425806.30		A	0.2	
3	☐	1.000		3405878.70		A	0.8	
4	☐	1.000		3399979.33		A	0.4	
5	☐	1.000		3243888.18		A	0.5	
6	☐	1.000		3104986.00		A	0.6	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:13:08-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	36346	0.00
Be	9	1	No Gas	77	32.21
V	51	2	He	2946	0.07
Cr	52	2	He	5298	0.14
Fe	56	2	He	24465	0.00
Se	78	2	He	105	8.89
As	75	2	He	247	3.59
Ca	44	2	He	693	1.67
Na	23	2	He	98351	0.00
Mg	24	2	He	3621	0.18
K	39	2	He	64720	0.00
Mn	55	2	He	943	1.85
Co	59	2	He	357	5.69
Ni	60	2	He	440	1.03
Cu	63	2	He	1383	0.94
Zn	66	2	He	1207	1.67
Al	27	2	He	957	0.71
B	11	1	No Gas	7524	0.01
Al	27	1	No Gas	31549	0.01
Si	28	1	No Gas	192643	0.00
Ag	107	1	No Gas	1240	0.23
Cd	111	1	No Gas	110	16.68
Sr	88	1	No Gas	2777	0.40
Mo	95	1	No Gas	290	4.76
Sn	118	1	No Gas	3791	0.22
Sb	121	1	No Gas	997	1.21
Ba	137	1	No Gas	810	1.99
Tl	205	1	No Gas	2064	0.13
Tl	203	1	No Gas	867	0.89
Pb	208	1	No Gas	4404	0.15
U	238	1	No Gas	2500	0.09
Ca	43	2	He	17	749.40
Sb	121	2	He	450	2.75
Ti	47	2	He	7	1299.04
Cu	63	1	No Gas	3400	0.18

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	622488	0.34
Ge	72	2	He	646115	1.07
Ge	72	1	No Gas	2248671	0.19
In	115	1	No Gas	3171445	0.75

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	3428605	0.75

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:15:51-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	4316	0.05
V	51	2	He	11955	0.04
Cr	52	2	He	16009	0.02
Fe	56	2	He	1031371	0.00
Se	78	2	He	257	1.94
As	75	2	He	1841	0.31
Ca	44	2	He	6595	0.07
Na	23	2	He	236664	0.00
Mg	24	2	He	91915	0.00
K	39	2	He	177344	0.00
Mn	55	2	He	9327	0.06
Co	59	2	He	16467	0.03
Ni	60	2	He	4808	0.11
Cu	63	2	He	13277	0.01
Zn	66	2	He	3194	0.10
Al	27	2	He	1413	0.43
B	11	1	No Gas	18489	0.02
Al	27	1	No Gas	55533	0.00
Si	28	1	No Gas	247498	0.00
Ag	107	1	No Gas	38502	0.01
Cd	111	1	No Gas	7242	0.01
Sr	88	1	No Gas	70711	0.00
Mo	95	1	No Gas	13564	0.03
Sn	118	1	No Gas	28391	0.01
Sb	121	1	No Gas	33152	0.01
Ba	137	1	No Gas	13714	0.01
Tl	205	1	No Gas	88268	0.00
Tl	203	1	No Gas	37850	0.01
Pb	208	1	No Gas	130015	0.00
U	238	1	No Gas	134175	0.00
Ca	43	2	He	427	0.84
Sb	121	2	He	14565	0.03
Cu	63	1	No Gas	27588	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	612856	0.17	622488	98.45	70	120	
Ge	72	2	He	648676	0.12	646115	100.40	70	120	
Ge	72	1	No Gas	2255952	0.24	2248671	100.32	70	120	

Calibration Standard Report

In	115	1	No Gas	3165679	1.23	3171445	99.82	70	120	
Bi	209	1	No Gas	3425806	0.16	3428605	99.92	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:18:32-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	11013	0.01
V	51	2	He	25138	0.01
Cr	52	2	He	31593	0.01
Fe	56	2	He	2587930	0.00
Se	78	2	He	465	0.11
As	75	2	He	4341	0.06
Ca	44	2	He	15682	0.02
Na	23	2	He	445009	0.00
Mg	24	2	He	220546	0.00
K	39	2	He	344104	0.00
Mn	55	2	He	22151	0.02
Co	59	2	He	41670	0.01
Ni	60	2	He	11402	0.03
Cu	63	2	He	29953	0.02
Zn	66	2	He	6548	0.05
Al	27	2	He	2340	0.34
B	11	1	No Gas	35457	0.00
Al	27	1	No Gas	87340	0.00
Si	28	1	No Gas	333822	0.00
Ag	107	1	No Gas	93039	0.00
Cd	111	1	No Gas	18307	0.01
Sr	88	1	No Gas	173740	0.00
Mo	95	1	No Gas	33305	0.01
Sn	118	1	No Gas	64680	0.00
Sb	121	1	No Gas	81842	0.00
Ba	137	1	No Gas	33867	0.01
Tl	205	1	No Gas	214775	0.00
Tl	203	1	No Gas	91282	0.00
Pb	208	1	No Gas	317757	0.00
U	238	1	No Gas	332486	0.00
Ca	43	2	He	873	1.22
Sb	121	2	He	35725	0.01
Cu	63	1	No Gas	63506	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	605809	0.68	622488	97.32	70	120	
Ge	72	2	He	643208	0.38	646115	99.55	70	120	
Ge	72	1	No Gas	2240673	0.20	2248671	99.64	70	120	

Calibration Standard Report

In	115	1	No Gas	3148763	0.47	3171445	99.28	70	120	
Bi	209	1	No Gas	3405879	0.80	3428605	99.34	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:21:13-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	21790	0.01
V	51	2	He	48200	0.01
Cr	52	2	He	57308	0.00
Fe	56	2	He	5145652	0.00
Se	78	2	He	931	0.25
As	75	2	He	8359	0.04
Ca	44	2	He	30841	0.01
Na	23	2	He	808276	0.00
Mg	24	2	He	444534	0.00
K	39	2	He	623356	0.00
Mn	55	2	He	42660	0.01
Co	59	2	He	82083	0.00
Ni	60	2	He	21644	0.02
Cu	63	2	He	58588	0.00
Zn	66	2	He	11482	0.06
Al	27	2	He	3541	0.02
B	11	1	No Gas	64767	0.00
Al	27	1	No Gas	146139	0.00
Si	28	1	No Gas	481709	0.00
Ag	107	1	No Gas	187553	0.00
Cd	111	1	No Gas	36234	0.01
Sr	88	1	No Gas	351250	0.00
Mo	95	1	No Gas	67124	0.01
Sn	118	1	No Gas	127000	0.00
Sb	121	1	No Gas	163015	0.00
Ba	137	1	No Gas	65825	0.00
Tl	205	1	No Gas	413146	0.00
Tl	203	1	No Gas	175035	0.00
Pb	208	1	No Gas	637771	0.00
U	238	1	No Gas	671843	0.00
Ca	43	2	He	1830	0.38
Sb	121	2	He	73124	0.00
Cu	63	1	No Gas	122720	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	595362	0.47	622488	95.64	70	120	
Ge	72	2	He	635716	0.87	646115	98.39	70	120	
Ge	72	1	No Gas	2194396	0.46	2248671	97.59	70	120	

Calibration Standard Report

In	115	1	No Gas	3118576	0.38	3171445	98.33	70	120	
Bi	209	1	No Gas	3399979	0.37	3428605	99.17	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:23:53-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	199782	0.00
V	51	2	He	396216	0.00
Cr	52	2	He	448256	0.00
Fe	56	2	He	43610473	0.00
Se	78	2	He	7019	0.06
As	75	2	He	71323	0.00
Ca	44	2	He	260545	0.00
Na	23	2	He	6242287	0.00
Mg	24	2	He	3760801	0.00
K	39	2	He	4938583	0.00
Mn	55	2	He	363694	0.00
Co	59	2	He	702455	0.00
Ni	60	2	He	182003	0.00
Cu	63	2	He	485025	0.00
Zn	66	2	He	91883	0.00
Al	27	2	He	25553	0.01
B	11	1	No Gas	544452	0.00
Al	27	1	No Gas	1066858	0.00
Si	28	1	No Gas	2842290	0.00
Ag	107	1	No Gas	1697216	0.00
Cd	111	1	No Gas	335790	0.00
Sr	88	1	No Gas	3198231	0.00
Mo	95	1	No Gas	629842	0.00
Sn	118	1	No Gas	1139861	0.00
Sb	121	1	No Gas	1508212	0.00
Ba	137	1	No Gas	601570	0.00
Tl	205	1	No Gas	3875105	0.00
Tl	203	1	No Gas	1650438	0.00
Pb	208	1	No Gas	5824241	0.00
U	238	1	No Gas	6405809	0.00
Ca	43	2	He	15075	0.01
Sb	121	2	He	634880	0.00
Cu	63	1	No Gas	1078743	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	559757	0.16	622488	89.92	70	120	
Ge	72	2	He	623543	0.47	646115	96.51	70	120	
Ge	72	1	No Gas	2126602	0.63	2248671	94.57	70	120	

Calibration Standard Report

In	115	1	No Gas	2990125	0.44	3171445	94.28	70	120	
Bi	209	1	No Gas	3243888	0.53	3428605	94.61	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:27:02-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	398985	0.00
V	51	2	He	885208	0.00
Cr	52	2	He	993776	0.00
Fe	56	2	He	97997489	0.00
Se	78	2	He	15435	0.02
As	75	2	He	159479	0.00
Ca	44	2	He	577052	0.00
Na	23	2	He	13724795	0.00
Mg	24	2	He	8362118	0.00
K	39	2	He	10709749	0.00
Mn	55	2	He	804279	0.00
Co	59	2	He	1588903	0.00
Ni	60	2	He	398129	0.00
Cu	63	2	He	1065071	0.00
Zn	66	2	He	201545	0.00
Al	27	2	He	57016	0.00
B	11	1	No Gas	1097397	0.00
Al	27	1	No Gas	2119460	0.00
Si	28	1	No Gas	5536701	0.00
Ag	107	1	No Gas	3427843	0.00
Cd	111	1	No Gas	669657	0.00
Sr	88	1	No Gas	6478698	0.00
Mo	95	1	No Gas	1296346	0.00
Sn	118	1	No Gas	2329240	0.00
Sb	121	1	No Gas	3073545	0.00
Ba	137	1	No Gas	1237724	0.00
Tl	205	1	No Gas	7396313	0.00
Tl	203	1	No Gas	3143448	0.00
Pb	208	1	No Gas	11840380	0.00
U	238	1	No Gas	13225566	0.00
Ca	43	2	He	33470	0.01
Sb	121	2	He	1446760	0.00
Cu	63	1	No Gas	2173799	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	518986	0.34	622488	83.37	70	120	
Ge	72	2	He	590365	0.93	646115	91.37	70	120	
Ge	72	1	No Gas	2037717	0.28	2248671	90.62	70	120	

Calibration Standard Report

In	115	1	No Gas	2865334	0.03	3171445	90.35	70	120	
Bi	209	1	No Gas	3104986	0.62	3428605	90.56	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	020CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:40:29-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	209367	0.00
V	51	2	He	451699	0.00
Cr	52	2	He	514177	0.00
Fe	56	2	He	50175644	0.00
Se	78	2	He	7826	0.03
As	75	2	He	81242	0.00
Ca	44	2	He	294787	0.00
Na	23	2	He	7020856	0.00
Mg	24	2	He	4296269	0.00
K	39	2	He	5510034	0.00
Mn	55	2	He	411014	0.00
Co	59	2	He	804287	0.00
Ni	60	2	He	206685	0.00
Cu	63	2	He	552045	0.00
Zn	66	2	He	106300	0.00
Al	27	2	He	29344	0.00
B	11	1	No Gas	561607	0.00
Al	27	1	No Gas	1115176	0.00
Si	28	1	No Gas	2952328	0.00
Ag	107	1	No Gas	1756136	0.00
Cd	111	1	No Gas	348485	0.00
Sr	88	1	No Gas	3338637	0.00
Mo	95	1	No Gas	649369	0.00
Sn	118	1	No Gas	1194750	0.00
Sb	121	1	No Gas	1569858	0.00
Ba	137	1	No Gas	621303	0.00
Tl	205	1	No Gas	3862006	0.00
Tl	203	1	No Gas	1646690	0.00
Pb	208	1	No Gas	6080667	0.00
U	238	1	No Gas	6706853	0.00
Ca	43	2	He	16914	0.01
Sb	121	2	He	714969	0.00
Cu	63	1	No Gas	1129188	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	563585	0.56	622488	90.54	70	120	
Ge	72	2	He	620635	1.06	646115	96.06	70	120	
Ge	72	1	No Gas	2135107	0.45	2248671	94.95	70	120	

Calibration Standard Report

In	115	1	No Gas	3005400	0.53	3171445	94.76	70	120	
Bi	209	1	No Gas	3278648	0.64	3428605	95.63	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\070124A.b
Acq Date Time	2024-07-01T10:48:12-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.478	2.742	828647	3.00	100	100.5	90	110	
Be	9	1	No Gas	101.623	2.597	213530	2.94	100	101.6	90	110	
V	51	2	He	100.520	0.562	469795	1.01	100	100.5	90	110	
Cr	52	2	He	101.532	1.295	534949	1.73	100	101.5	90	110	
Fe	56	2	He	9941.715	1.739	51362056	2.11	10000	99.4	90	110	
Se	78	2	He	99.347	2.710	8108	3.06	100	99.3	90	110	
As	75	2	He	100.032	1.923	84096	2.30	100	100.0	90	110	
Ca	44	2	He	9898.566	0.867	301197	1.07	10000	99.0	90	110	
Na	23	2	He	10150.891	0.870	7182813	1.23	10000	101.5	90	110	
Mg	24	2	He	9973.125	0.676	4400115	1.06	10000	99.7	90	110	
K	39	2	He	9968.611	1.299	5657814	1.59	10000	99.7	90	110	
Mn	55	2	He	100.981	1.509	428258	1.85	100	101.0	90	110	
Co	59	2	He	98.949	1.713	826973	2.01	100	98.9	90	110	
Ni	60	2	He	101.168	2.549	213071	2.73	100	101.2	90	110	
Cu	63	2	He	101.736	2.148	573089	2.46	100	101.7	90	110	
Zn	66	2	He	101.331	2.558	108735	2.89	100	101.3	90	110	
Al	27	2	He	102.826	1.980	31278	1.28	100	102.8	90	110	
B	11	1	No Gas	472.702	0.936	561813	1.36	500	94.5	90	110	
Al	27	1	No Gas	101.849	1.926	1146837	2.24	100	101.8	90	110	
Si	28	1	No Gas	497.736	2.063	2980008	2.32	500	99.5	90	110	
Ag	107	1	No Gas	99.499	1.842	1789984	2.25	100	99.5	90	110	
Cd	111	1	No Gas	99.895	2.500	352093	2.58	100	99.9	90	110	
Sr	88	1	No Gas	98.865	1.496	3365492	1.89	100	98.9	90	110	
Mo	95	1	No Gas	97.450	1.508	659958	1.93	100	97.5	90	110	
Sn	118	1	No Gas	99.159	1.677	1213494	2.10	100	99.2	90	110	
Sb	121	1	No Gas	99.818	1.935	1604083	2.31	100	99.8	90	110	
Ba	137	1	No Gas	97.999	1.358	634167	1.78	100	98.0	90	110	
Tl	205	1	No Gas	105.113	2.557	4133564	2.73	100	105.1	90	110	
Tl	203	1	No Gas	105.305	2.080	1761049	2.25	100	105.3	90	110	
Pb	208	1	No Gas	98.770	2.093	6197449	2.27	100	98.8	90	110	
U	238	1	No Gas	99.032	1.914	6921879	2.08	100	99.0	90	110	
Ca	43	2	He	10110.845	2.924	17798	2.72	10000	101.1	90	110	
Sb	121	2	He	98.218	1.037	743993	1.52	100	98.2	90	110	
Ti	47	2	He	99.736	3.025	17464	2.56	100	99.7	90	110	
Cu	63	1	No Gas	100.977	2.045	1152653	2.44	100	101.0	90	110	
Se	82	1	No Gas	101.060	1.471	20125	1.75	100	101.1	90	110	
Zr	90	1	No Gas	89.182	1.395	1887274	1.71	100	89.2	90	110	ICV Main CR1 Failed
Zr	90	2	He	88.759	1.542	773577	1.96	100	88.8	90	1100	ICV 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	565713	0.62	622488	90.88	70	120	
Ge	72	2	He	625643	0.67	646115	96.83	70	120	
Ge	72	1	No Gas	2141076	0.54	2248671	95.22	70	120	
In	115	1	No Gas	3020587	0.42	3171445	95.24	70	120	
Bi	209	1	No Gas	3308146	0.18	3428605	96.49	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	024LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:53:00-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.968	1.968	2.93	51575	0.00	2	
Be	9	1	No Gas	1.968	1.968	1.12	4459	0.04	2	
V	51	2	He	1.873	1.873	2.94	11818	0.02	2	
Cr	52	2	He	1.931	1.931	1.70	15552	0.01	2	
Fe	56	2	He	195.946	195.946	2.48	1059171	0.02	200	
Se	78	2	He	1.660	1.660	29.09	241	0.69	2	
As	75	2	He	1.966	1.966	2.54	1930	0.10	2	
Ca	44	2	He	192.865	192.865	1.45	6675	2.89	200	
Na	23	2	He	176.894	176.894	1.71	223733	0.08	200	
Mg	24	2	He	198.571	198.571	3.93	93127	0.21	200	
K	39	2	He	198.516	198.516	3.95	178073	0.11	200	
Mn	55	2	He	1.895	1.895	2.56	9136	0.02	2	
Co	59	2	He	1.943	1.943	3.01	16957	0.01	2	
Ni	60	2	He	2.054	2.054	2.69	4851	0.04	2	
Cu	63	2	He	2.008	2.008	2.90	12913	0.02	2	
Zn	66	2	He	1.946	1.946	5.55	3307	0.06	2	
Al	27	2	He	2.129	2.129	20.01	1590	0.13	2	
B	11	1	No Gas	10.214	10.214	2.61	19974	0.05	10	
Al	27	1	No Gas	2.106	2.106	1.88	54760	0.00	2	
Si	28	1	No Gas	7.415	7.415	1.92	231977	0.00	10	
Ag	107	1	No Gas	1.980	1.980	2.58	38509	0.01	2	
Cd	111	1	No Gas	1.930	1.930	2.53	7229	0.03	2	
Sr	88	1	No Gas	1.920	1.920	0.51	71140	0.00	2	
Mo	95	1	No Gas	1.914	1.914	2.50	13857	0.01	2	
Sn	118	1	No Gas	1.948	1.948	3.50	28661	0.01	2	
Sb	121	1	No Gas	1.999	1.999	1.97	34064	0.01	2	
Ba	137	1	No Gas	1.942	1.942	0.82	13948	0.01	2	
Tl	205	1	No Gas	2.169	2.169	1.13	90483	0.00	2	
Tl	203	1	No Gas	2.183	2.183	2.07	38716	0.01	2	
Pb	208	1	No Gas	1.977	1.977	1.31	132983	0.00	2	
U	238	1	No Gas	1.860	1.860	1.31	137249	0.00	2	
Ca	43	2	He	229.780	229.780	5.98	430	53.44	200	
Sb	121	2	He	1.912	1.912	2.88	15252	0.01	2	
Ti	47	2	He	2.180	2.180	28.42	397	0.55	200	
Cu	63	1	No Gas	2.076	2.076	1.98	27692	0.01	2	
Se	82	1	No Gas	1.885	1.885	36.75	647	0.29	2	
Zr	90	1	No Gas	1.675	1.675	1.61	38656	0.00	2	
Zr	90	2	He	1.705	1.705	2.72	16444	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	600120	0.30	622488	96.41	70	120	

Sample Report

Ge	72	2	He	639897	0.40	646115	99.04	70	120	
Ge	72	1	No Gas	2206639	0.27	2248671	98.13	70	120	
In	115	1	No Gas	3162777	0.21	3171445	99.73	70	120	
Bi	209	1	No Gas	3430775	0.35	3428605	100.06	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	025LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T10:55:25-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.884	4.884	0.95	75394	0.01	5	
Be	9	1	No Gas	4.871	4.871	2.65	10833	0.04	5	
V	51	2	He	4.844	4.844	0.88	25568	0.02	5	
Cr	52	2	He	5.025	5.025	0.86	31610	0.02	5	
Fe	56	2	He	498.838	498.838	1.42	2621273	0.02	500	
Se	78	2	He	4.829	4.829	2.00	495	0.97	5	
As	75	2	He	4.825	4.825	0.85	4320	0.11	5	
Ca	44	2	He	498.989	498.989	1.00	15953	3.13	500	
Na	23	2	He	482.088	482.088	1.00	435434	0.11	500	
Mg	24	2	He	506.702	506.702	1.35	228781	0.22	500	
K	39	2	He	496.301	496.301	1.75	344090	0.14	500	
Mn	55	2	He	4.973	4.973	5.08	22148	0.02	5	
Co	59	2	He	4.994	4.994	1.37	42416	0.01	5	
Ni	60	2	He	4.914	4.914	2.72	10844	0.05	5	
Cu	63	2	He	4.991	4.991	1.58	29635	0.02	5	
Zn	66	2	He	4.333	4.333	5.98	5815	0.07	5	
Al	27	2	He	4.162	4.162	9.32	2174	0.19	5	
B	11	1	No Gas	23.207	23.207	1.90	35838	0.06	25	
Al	27	1	No Gas	4.712	4.712	2.39	83725	0.01	5	
Si	28	1	No Gas	22.043	22.043	4.02	314853	0.01	25	
Ag	107	1	No Gas	5.040	5.040	1.24	94908	0.01	5	
Cd	111	1	No Gas	5.000	5.000	4.17	18325	0.03	5	
Sr	88	1	No Gas	4.944	4.944	1.74	176613	0.00	5	
Mo	95	1	No Gas	4.782	4.782	1.98	33753	0.01	5	
Sn	118	1	No Gas	4.891	4.891	3.71	65434	0.01	5	
Sb	121	1	No Gas	4.929	4.929	2.79	82083	0.01	5	
Ba	137	1	No Gas	4.816	4.816	3.05	32982	0.01	5	
Tl	205	1	No Gas	5.307	5.307	2.72	218605	0.00	5	
Tl	203	1	No Gas	5.242	5.242	3.40	91823	0.01	5	
Pb	208	1	No Gas	4.869	4.869	2.06	321292	0.00	5	
U	238	1	No Gas	4.651	4.651	1.31	339818	0.00	5	
Ca	43	2	He	582.820	582.820	7.78	1050	55.50	500	
Sb	121	2	He	4.857	4.857	4.51	37503	0.01	5	
Ti	47	2	He	4.947	4.947	12.39	880	0.56	5	
Cu	63	1	No Gas	4.986	4.986	2.57	61474	0.01	5	
Se	82	1	No Gas	5.428	5.428	12.50	1357	0.40	5	
Zr	90	1	No Gas	4.395	4.395	1.52	97641	0.00	5	
Zr	90	2	He	4.493	4.493	1.31	40681	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	594833	0.37	622488	95.56	70	120	

Sample Report

Ge	72	2	He	630869	1.03	646115	97.64	70	120	
Ge	72	1	No Gas	2193953	0.17	2248671	97.57	70	120	
In	115	1	No Gas	3123222	0.27	3171445	98.48	70	120	
Bi	209	1	No Gas	3433849	0.77	3428605	100.15	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\070124A.b
Acq Date Time	2024-07-01T10:57:49-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.085	-81.7	33932	1.9	0.5	
Be	9	1	No Gas	-0.011	-90.1	48	46.6	0.5	
V	51	2	He	-0.062	-13.1	2617	0.9	2.5	
Cr	52	2	He	0.019	315.0	5338	5.5	2.5	
Fe	56	2	He	0.707	17.2	27925	2.3	100	
Se	78	2	He	0.013	707.0	105	7.2	1	
As	75	2	He	-0.049	-48.9	202	9.9	2.5	
Ca	44	2	He	21.109	18.6	1340	9.5	100	
Na	23	2	He	-31.609	-4.3	74714	1.1	100	
Mg	24	2	He	-3.151	-6.3	2160	4.2	100	
K	39	2	He	-7.387	-9.1	59771	1.2	100	
Mn	55	2	He	0.017	221.3	1007	16.3	2.5	
Co	59	2	He	-0.025	-9.2	137	15.2	2.5	
Ni	60	2	He	-0.049	-18.4	330	5.2	2.5	
Cu	63	2	He	-0.097	-21.6	810	15.5	1	
Zn	66	2	He	0.136	47.7	1340	5.2	2.5	
Al	27	2	He	1.350	16.9	1353	5.7	5	
B	11	1	No Gas	0.937	31.2	8324	4.8	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	1.711	4.5	50156	2.0	5	
Si	28	1	No Gas	0.553	57.2	191719	1.2	10	
Ag	107	1	No Gas	-0.039	-6.9	490	10.8	2.5	
Cd	111	1	No Gas	-0.035	-4.8	-18	-32.6	1	
Sr	88	1	No Gas	0.040	10.6	4127	3.5	2.5	
Mo	95	1	No Gas	-0.014	-49.1	190	24.1	2.5	
Sn	118	1	No Gas	0.073	24.5	4651	4.7	5	
Sb	121	1	No Gas	-0.017	-33.7	703	13.4	2.5	
Ba	137	1	No Gas	0.151	14.0	1803	7.8	2.5	
Tl	205	1	No Gas	-0.025	-8.8	1050	9.2	1	
Tl	203	1	No Gas	-0.022	-13.5	483	11.4	1	
Pb	208	1	No Gas	-0.030	-5.1	2460	4.5	2.5	
U	238	1	No Gas	-0.023	-4.1	833	8.5	2.5	
Ca	43	2	He	50.220	71.8	107	60.3	100	
Sb	121	2	He	-0.020	-26.0	290	13.8	2.5	
Ti	47	2	He	-0.037	0.0	0	#DIV/0!	2.5	
Se	82	1	No Gas	0.095	162.9	283	10.8	1	
Zr	90	1	No Gas	0.066	7.7	2984	4.3	2.5	
Zr	90	2	He	0.074	14.0	1924	4.2	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	593237	0.51	622488	95.30	70	120	
Ge	72	2	He	638915	0.65	646115	98.89	70	120	
Ge	72	1	No Gas	2200640	0.40	2248671	97.86	70	120	
In	115	1	No Gas	3122312	0.67	3171445	98.45	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	3460705	0.52	3428605	100.94	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\070124A.b
Acq Date Time	2024-07-01T11:04:28-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.265	8.6	35030	0.7	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.000	1563.6	70	12.4	0	ICSA Main CR1 Failed
V	51	2	He	0.223	7.2	3825	2.3	0	ICSA Main CR1 Failed
Cr	52	2	He	0.843	7.3	9377	2.8	0	ICSA Main CR1 Failed
Fe	56	2	He	103572.934	0.9	526366072	0.5	0	
Se	78	2	He	-0.039	-493.7	97	15.6	0	ICSA Main CR1 Failed
As	75	2	He	0.312	18.5	492	9.9	0	ICSA Main CR1 Failed
Ca	44	2	He	106707.847	1.3	3188964	1.0	0	
Na	23	2	He	108573.056	1.2	74697462	0.8	0	
Mg	24	2	He	105013.309	1.4	45562466	0.9	0	
K	39	2	He	106248.998	1.3	58748826	0.9	0	
Mn	55	2	He	1.873	1.8	8700	2.1	0	ICSA Main CR1 Failed
Co	59	2	He	1.020	3.2	8730	3.5	0	ICSA Main CR1 Failed
Ni	60	2	He	0.977	4.7	2440	3.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.538	8.1	4294	5.6	0	ICSA Main CR1 Failed
Zn	66	2	He	2.724	6.9	3994	4.3	0	ICSA Main CR1 Failed
Al	27	2	He	107653.503	1.1	31276070	0.7	0	
B	11	1	No Gas	1.761	10.6	8880	2.2	0	
Al	27	1	No Gas	100458.617	2.3	1076730304	1.5	0	
Si	28	1	No Gas	31.401	4.2	351810	2.6	0	
Ag	107	1	No Gas	-0.020	-30.0	767	13.4	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.797	9.7	2738	9.4	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.948	2.9	32813	2.6	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2086.636	1.6	13278493	1.5	0	
Sn	118	1	No Gas	0.235	13.1	6092	5.7	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.053	4.3	1760	1.5	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.445	8.5	3431	6.7	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	-0.023	-14.0	990	11.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	-0.021	-12.7	433	9.6	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.879	3.4	53845	3.0	0	ICSA Main CR1 Failed
U	238	1	No Gas	-0.017	-7.6	1100	7.4	0	ICSA Main CR1 Failed
Ca	43	2	He	103601.235	1.5	179339	1.3	0	
Sb	121	2	He	0.069	11.8	947	6.8	0	ICSA Main CR1 Failed
Ti	47	2	He	2124.401	1.0	366003	0.6	0	
Se	82	1	No Gas	0.234	146.3	297	22.9	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	564136	0.22	622488	90.63	70	120	
Ge	72	2	He	615735	0.60	646115	95.30	70	120	
Ge	72	1	No Gas	2093122	0.87	2248671	93.08	70	120	
In	115	1	No Gas	2839568	0.10	3171445	89.54	70	120	
Bi	209	1	No Gas	3001008	0.08	3428605	87.53	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\070124A.b
Acq Date Time	2024-07-01T11:06:57-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	105.900	1.886	864777	0.95	100	105.9	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	97.647	2.706	203569	1.88	100	97.6	80	120	
V	51	2	He	104.837	1.278	492510	1.28	100	104.8	80	120	
Cr	52	2	He	103.425	1.562	547767	1.42	100	103.4	80	120	
Fe	56	2	He	110828.564	1.186	575426685	1.15	100	110828.6	80	120	ICSB Main CR1 Failed
Se	78	2	He	110.089	1.650	9022	1.63	100	110.1	80	120	
As	75	2	He	106.611	1.049	90096	1.19	100	106.6	80	120	
Ca	44	2	He	114027.863	1.751	3481407	1.61	100	114027.9	80	120	ICSB Main CR1 Failed
Na	23	2	He	116674.833	1.570	82001767	1.44	100	116674.8	80	120	
Mg	24	2	He	112298.220	1.579	49777994	1.46	100	112298.2	80	120	ICSB Main CR1 Failed
K	39	2	He	113453.057	1.910	64085879	1.79	100	113453.1	80	120	ICSB Main CR1 Failed
Mn	55	2	He	104.140	2.438	444001	2.19	100	104.1	80	120	
Co	59	2	He	99.644	1.347	837284	1.16	100	99.6	80	120	
Ni	60	2	He	99.101	2.265	209848	1.97	100	99.1	80	120	
Cu	63	2	He	97.949	1.381	554789	1.37	100	97.9	80	120	
Zn	66	2	He	102.186	2.724	110233	2.74	100	102.2	80	120	
Al	27	2	He	103614.244	1.594	30754173	1.48	100	103614.2	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	502.086	1.686	591681	0.84	100	502.1	80	120	
Al	27	1	No Gas	98660.571	1.532	1082854171	1.08	100	98660.6	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	552.147	1.158	3288811	1.01	100	552.1	80	120	
Ag	107	1	No Gas	99.837	2.179	1745920	1.52	100	99.8	80	120	
Cd	111	1	No Gas	102.589	1.984	351509	1.32	100	102.6	80	120	
Sr	88	1	No Gas	108.016	2.038	3574183	1.40	100	108.0	80	120	
Mo	95	1	No Gas	2159.991	2.421	14213961	1.76	100	2160.0	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	104.762	1.815	1246105	1.15	100	104.8	80	120	
Sb	121	1	No Gas	102.902	1.334	1655134	0.98	100	102.9	80	120	
Ba	137	1	No Gas	102.957	1.646	647652	1.35	100	103.0	80	120	
Tl	205	1	No Gas	101.149	1.559	3718172	1.41	100	101.1	80	120	
Tl	203	1	No Gas	101.339	1.865	1584168	1.68	100	101.3	80	120	
Pb	208	1	No Gas	104.736	1.017	6142824	0.95	100	104.7	80	120	
U	238	1	No Gas	105.897	1.260	6918647	1.18	100	105.9	80	120	
Ca	43	2	He	110524.129	1.539	195458	1.26	100	110524.1	80	120	ICSB Main CR1 Failed
Sb	121	2	He	101.615	1.453	773870	1.40	100	101.6	80	120	
Ti	47	2	He	2157.622	1.412	379779	1.56	100	2157.6	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	98.128	1.448	1121232	1.05	100	98.1	80	120	
Se	82	1	No Gas	110.195	5.246	21941	5.04	100	110.2	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	561386	0.86	622488	90.18	70	120	
Ge	72	2	He	629048	0.39	646115	97.36	70	120	
Ge	72	1	No Gas	2143226	0.64	2248671	95.31	70	120	
In	115	1	No Gas	2936709	0.79	3171445	92.60	70	120	
Bi	209	1	No Gas	3092411	0.34	3428605	90.19	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	034_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:25:37-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	100.572	1.112	778579	1.92	100	100.6	90	110	
Be	9	1	No Gas	100.989	1.066	199200	1.93	100	101.0	90	110	
V	51	2	He	101.639	1.231	464020	0.79	100	101.6	90	110	
Cr	52	2	He	102.164	1.173	525803	0.91	100	102.2	90	110	
Fe	56	2	He	10121.723	1.868	51081161	1.42	10000	101.2	90	110	
Se	78	2	He	104.096	1.256	8294	0.84	100	104.1	90	110	
As	75	2	He	101.233	1.226	83133	0.76	100	101.2	90	110	
Ca	44	2	He	10113.376	1.770	300608	1.33	10000	101.1	90	110	
Na	23	2	He	10274.870	1.488	7101348	1.02	10000	102.7	90	110	
Mg	24	2	He	10090.051	1.296	4348820	0.92	10000	100.9	90	110	
K	39	2	He	10120.858	1.324	5610528	0.89	10000	101.2	90	110	
Mn	55	2	He	102.490	1.976	424590	1.57	100	102.5	90	110	
Co	59	2	He	101.056	1.496	825051	1.06	100	101.1	90	110	
Ni	60	2	He	102.547	1.005	210978	0.63	100	102.5	90	110	
Cu	63	2	He	101.855	1.612	560483	1.18	100	101.9	90	110	
Zn	66	2	He	101.383	1.233	106272	0.94	100	101.4	90	110	
Al	27	2	He	103.436	1.946	30734	1.47	100	103.4	90	110	
B	11	1	No Gas	474.948	0.444	529868	1.28	500	95.0	90	110	
Al	27	1	No Gas	99.796	1.901	1097676	1.92	100	99.8	90	110	
Si	28	1	No Gas	486.505	1.823	2847744	1.75	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.344	0.428	1765404	1.87	100	99.3	90	110	
Cd	111	1	No Gas	100.971	0.767	351551	1.80	100	101.0	90	110	
Sr	88	1	No Gas	100.152	0.763	3367651	1.82	100	100.2	90	110	
Mo	95	1	No Gas	97.432	0.141	651755	1.32	100	97.4	90	110	
Sn	118	1	No Gas	100.555	0.541	1215542	1.99	100	100.6	90	110	
Sb	121	1	No Gas	102.752	2.199	1611997	2.00	100	102.8	90	110	
Ba	137	1	No Gas	99.413	0.498	635468	1.91	100	99.4	90	110	
Tl	205	1	No Gas	105.912	1.524	4134907	2.02	100	105.9	90	110	
Tl	203	1	No Gas	106.087	1.240	1761338	1.87	100	106.1	90	110	
Pb	208	1	No Gas	99.944	0.957	6225673	1.44	100	99.9	90	110	
U	238	1	No Gas	100.429	0.682	6968732	1.31	100	100.4	90	110	
Ca	43	2	He	10045.306	3.476	17274	3.03	10000	100.5	90	110	
Sb	121	2	He	101.147	1.560	748446	1.13	100	101.1	90	110	
Ti	47	2	He	101.481	1.628	17361	1.25	100	101.5	90	110	
Cu	63	1	No Gas	100.393	2.817	1118813	2.79	100	100.4	90	110	
Se	82	1	No Gas	102.355	1.937	19898	2.39	100	102.4	90	110	
Zr	90	1	No Gas	88.141	0.357	1842506	1.60	100	88.1	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	89.467	1.749	761695	1.34	100	89.5	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	531054	0.87	622488	85.31	70	120	
Ge	72	2	He	611215	0.47	646115	94.60	70	120	
Ge	72	1	No Gas	2090406	0.47	2248671	92.96	70	120	
In	115	1	No Gas	2983768	1.46	3171445	94.08	70	120	
Bi	209	1	No Gas	3284207	0.63	3428605	95.79	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	035_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:28:01-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.059	29.6	33947	0.6	0.5	
Be	9	1	No Gas	0.016	101.9	105	33.3	0.5	
V	51	2	He	-0.309	-0.1	1419	0.6	2.5	
Cr	52	2	He	-0.330	-0.2	3414	0.6	2.5	
Fe	56	2	He	-1.540	-5.1	15779	2.8	100	
Se	78	2	He	0.004	5337.5	103	18.1	2	
As	75	2	He	-0.067	-44.9	183	14.2	2.5	
Ca	44	2	He	-7.978	-39.8	430	22.9	100	
Na	23	2	He	-40.902	-3.3	66828	1.9	100	
Mg	24	2	He	-5.046	-4.6	1283	8.4	100	
K	39	2	He	0.530	286.4	63116	1.8	100	
Mn	55	2	He	-0.073	-21.5	607	10.5	2.5	
Co	59	2	He	-0.019	-22.8	183	20.7	2.5	
Ni	60	2	He	-0.087	-29.7	243	22.6	2.5	
Cu	63	2	He	-0.153	-3.2	483	5.2	2	
Zn	66	2	He	-0.116	-78.9	1047	9.8	2.5	
Al	27	2	He	-0.232	-60.8	860	5.3	5	
B	11	1	No Gas	2.321	23.4	9690	7.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.048	-69.0	29899	0.9	5	
Si	28	1	No Gas	-1.585	-7.2	176800	0.1	10	
Ag	107	1	No Gas	-0.040	-12.9	470	20.3	2.5	
Cd	111	1	No Gas	-0.021	-12.9	30	33.6	1	
Sr	88	1	No Gas	-0.056	-4.2	773	10.8	2.5	
Mo	95	1	No Gas	0.067	34.3	750	21.0	2.5	
Sn	118	1	No Gas	0.057	34.6	4414	5.7	5	
Sb	121	1	No Gas	0.005	155.7	1040	11.3	2.5	
Ba	137	1	No Gas	-0.077	-4.0	280	7.1	2.5	
Tl	205	1	No Gas	0.083	71.6	5358	43.9	1	
Tl	203	1	No Gas	0.089	75.5	2374	47.8	1	
Pb	208	1	No Gas	-0.022	-3.3	2934	1.4	2.5	
U	238	1	No Gas	-0.016	-17.1	1290	14.9	2.5	
Ca	43	2	He	9.691	34.8	33	17.3	100	
Sb	121	2	He	0.003	391.3	460	19.6	2.5	
Ti	47	2	He	0.020	281.0	10	100.0	2.5	
Cu	63	1	No Gas	-0.185	-4.2	1143	7.5	2.5	
Se	82	1	No Gas	0.132	194.1	287	17.6	2	
Zr	90	1	No Gas	0.065	34.5	2930	16.1	2.5	
Zr	90	2	He	0.050	5.9	1683	1.2	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	573211	0.33	622488	92.08	70	120	
Ge	72	2	He	627046	0.49	646115	97.05	70	120	
Ge	72	1	No Gas	2169113	0.49	2248671	96.46	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	3098670	0.41	3171445	97.71	70	120	
Bi	209	1	No Gas	3373975	0.58	3428605	98.41	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10SD
Data File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:34:32-05:00
Sample Type	Sample
Dilution	50
Comment	TW B 214140
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.401	20.026	13.38	36679	0.00	2000	
Be	9	1	No Gas	0.004	0.222	52.34	80	0.01	2000	
V	51	2	He	-0.305	-15.227	-0.79	1433	-0.02	2000	
Cr	52	2	He	-0.321	-16.052	-5.38	3444	-0.01	2000	
Fe	56	2	He	641.015	32050.731	1.99	3323594	0.02	200000	
Se	78	2	He	0.136	6.814	173.01	113	0.12	2000	
As	75	2	He	-0.044	-2.217	-67.86	201	-0.02	2000	
Ca	44	2	He	446.331	22316.571	4.31	14178	3.15	200000	
Na	23	2	He	2849.440	142471.977	2.66	2078355	0.14	200000	
Mg	24	2	He	158.163	7908.146	2.81	73005	0.22	200000	
K	39	2	He	52.569	2628.438	2.22	91904	0.06	200000	
Mn	55	2	He	10.211	510.530	1.40	43990	0.02	2000	
Co	59	2	He	-0.001	-0.043	-943.91	337	0.00	2000	
Ni	60	2	He	-0.104	-5.214	-36.64	207	-0.05	2000	
Cu	63	2	He	-0.151	-7.546	-7.74	490	-0.03	2000	
Zn	66	2	He	-0.130	-6.481	-32.63	1027	-0.01	2000	
Al	27	2	He	-0.272	-13.622	-102.65	843	-0.03	2000	
B	11	1	No Gas	-0.701	-35.066	-15.68	6093	-0.01	2000	
Al	27	1	No Gas	-0.287	-14.342	-23.00	27247	0.00	2000	
Si	28	1	No Gas	263.083	13154.162	2.17	1683298	0.02	2000	
Ag	107	1	No Gas	-0.050	-2.501	-5.60	290	-0.02	2000	
Cd	111	1	No Gas	-0.022	-1.115	-18.74	26	-0.08	2000	
Sr	88	1	No Gas	6.573	328.666	2.01	232428	0.00	2000	
Mo	95	1	No Gas	-0.001	-0.049	-1326.94	277	0.00	2000	
Sn	118	1	No Gas	0.017	0.867	19.11	3927	0.00	2000	
Sb	121	1	No Gas	-0.024	-1.203	-6.68	570	0.00	2000	
Ba	137	1	No Gas	12.359	617.971	1.46	82864	0.01	2000	
Tl	205	1	No Gas	-0.023	-1.135	-5.20	1130	0.00	2000	
Tl	203	1	No Gas	-0.021	-1.057	-3.98	497	0.00	2000	
Pb	208	1	No Gas	-0.025	-1.229	-7.71	2783	0.00	2000	
U	238	1	No Gas	-0.023	-1.147	-4.76	833	0.00	2000	
Ca	43	2	He	466.175	23308.775	8.95	833	55.94	200000	
Sb	121	2	He	-0.022	-1.090	-27.36	270	-0.01	2000	
Ti	47	2	He	-0.018	-0.885	-186.54	3	-0.53	2000	
Cu	63	1	No Gas	-0.161	-8.065	-7.07	1420	-0.01	2000	
Ca	44	1	No Gas	434.406	21720.289	2.64	212987	0.20	200000	
Zn	66	1	No Gas	0.019	0.935	304.36	3040	0.00	2000	
Se	82	1	No Gas	-0.254	-12.684	-104.19	210	-0.12	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	573136	0.10	622488	92.07	70	120	
Ge	72	2	He	623783	0.67	646115	96.54	70	120	
Ge	72	1	No Gas	2169199	0.23	2248671	96.47	70	120	

Sample Report

In	115	1	No Gas	3103279	0.84	3171445	97.85	70	120	
Bi	209	1	No Gas	3401262	0.65	3428605	99.20	70	120	

Sample Report

Sample Table

Sample Name	HS24061196-10PDS
Data File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:36:56-05:00
Sample Type	Sample
Dilution	10
Comment	TW B 214140
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.106	21.056	1.43	48796	0.00	2000	
Be	9	1	No Gas	96.633	966.327	2.02	199330	0.05	2000	
V	51	2	He	98.438	984.376	1.61	452860	0.02	2000	
Cr	52	2	He	99.158	991.578	1.87	514294	0.02	2000	
Fe	56	2	He	13181.863	131818.633	1.82	67016659	0.02	200000	
Se	78	2	He	99.068	990.678	2.63	7957	1.25	2000	
As	75	2	He	98.629	986.285	1.22	81609	0.12	2000	
Ca	44	2	He	12134.498	121344.981	2.05	363254	3.34	200000	
Na	23	2	He	24609.555	246095.548	1.73	17005488	0.14	200000	
Mg	24	2	He	10874.577	108745.775	2.01	4721709	0.23	200000	
K	39	2	He	10404.260	104042.603	1.55	5809086	0.18	200000	
Mn	55	2	He	148.767	1487.666	0.94	620541	0.02	2000	
Co	59	2	He	97.143	971.432	1.94	799052	0.01	2000	
Ni	60	2	He	97.717	977.169	2.50	202557	0.05	2000	
Cu	63	2	He	98.446	984.456	1.77	545823	0.02	2000	
Zn	66	2	He	98.864	988.638	2.22	104432	0.09	2000	
Al	27	2	He	97.061	970.614	0.90	29114	0.33	2000	
B	11	1	No Gas	2.101	21.014	6.97	9135	0.02	2000	
Al	27	1	No Gas	97.124	971.236	1.05	1084188	0.01	2000	
Si	28	1	No Gas	1326.126	13261.263	1.66	7558992	0.02	2000	
Ag	107	1	No Gas	100.668	1006.676	2.19	1797176	0.01	2000	
Cd	111	1	No Gas	98.014	980.139	1.38	342857	0.03	2000	
Sr	88	1	No Gas	31.926	319.265	2.13	1080325	0.00	2000	
Mo	95	1	No Gas	96.419	964.187	1.80	647998	0.01	2000	
Sn	118	1	No Gas	0.041	0.410	33.07	4081	0.00	2000	
Sb	121	1	No Gas	94.618	946.185	0.58	1505495	0.01	2000	
Ba	137	1	No Gas	156.167	1561.671	1.56	1002427	0.02	2000	
Tl	205	1	No Gas	110.439	1104.388	0.38	4242608	0.00	2000	
Tl	203	1	No Gas	110.787	1107.869	0.36	1809948	0.01	2000	
Pb	208	1	No Gas	96.919	969.189	0.50	5941229	0.00	2000	
U	238	1	No Gas	0.014	0.141	22.65	3321	0.00	2000	
Ca	43	2	He	11826.670	118266.697	4.39	20489	57.72	200000	
Sb	121	2	He	95.133	951.333	2.08	709254	0.01	2000	
Ti	47	2	He	97.088	970.876	2.24	16734	0.58	2000	
Cu	63	1	No Gas	96.347	963.472	1.45	1089070	0.01	2000	
Ca	44	1	No Gas	12161.124	121611.235	1.62	5278027	0.23	200000	
Zn	66	1	No Gas	98.676	986.763	1.84	290757	0.03	2000	
Se	82	1	No Gas	97.556	975.561	0.37	19244	0.51	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	555383	0.09	622488	89.22	70	120	
Ge	72	2	He	615812	0.74	646115	95.31	70	120	
Ge	72	1	No Gas	2119899	0.54	2248671	94.27	70	120	

Sample Report

In	115	1	No Gas	2997799	0.70	3171445	94.52	70	120	
Bi	209	1	No Gas	3231900	1.02	3428605	94.26	70	120	

Sample Report

Sample Table

Sample Name	HS24061218-02
Data File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:46:33-05:00
Sample Type	Sample
Dilution	20
Comment	TW B 214140
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	3.183	63.658	3.85	57666	0.01	2000	
Be	9	1	No Gas	0.032	0.636	40.75	135	0.02	2000	
V	51	2	He	-0.276	-5.523	-1.14	1575	-0.02	2000	
Cr	52	2	He	2.188	43.752	5.10	16597	0.01	2000	
Fe	56	2	He	6202.749	124054.987	1.60	32155801	0.02	200000	
Se	78	2	He	-0.038	-0.766	-443.24	99	-0.04	2000	
As	75	2	He	0.238	4.767	26.79	440	0.05	2000	
Ca	44	2	He	3132.188	62643.765	2.94	96070	3.26	200000	
Na	23	2	He	8869.238	177384.753	1.60	6308013	0.14	200000	
Mg	24	2	He	1999.025	39980.503	1.56	887595	0.23	200000	
K	39	2	He	189.636	3792.723	1.90	169653	0.11	200000	
Mn	55	2	He	118.368	2367.363	1.48	503436	0.02	2000	
Co	59	2	He	0.020	0.399	9.94	513	0.00	2000	
Ni	60	2	He	0.891	17.825	3.81	2307	0.04	2000	
Cu	63	2	He	0.013	0.269	316.90	1420	0.00	2000	
Zn	66	2	He	0.155	3.110	68.20	1337	0.01	2000	
Al	27	2	He	-0.065	-1.301	-389.03	910	-0.01	2000	
B	11	1	No Gas	-0.482	-9.649	-48.62	6210	-0.01	2000	
Al	27	1	No Gas	0.285	5.695	9.64	33159	0.00	2000	
Si	28	1	No Gas	1115.993	22319.853	1.94	6452921	0.02	2000	
Ag	107	1	No Gas	-0.046	-0.923	-17.00	360	-0.01	2000	
Cd	111	1	No Gas	-0.010	-0.191	-59.05	72	-0.01	2000	
Sr	88	1	No Gas	72.072	1441.442	1.16	2510519	0.00	2000	
Mo	95	1	No Gas	0.140	2.804	6.76	1253	0.01	2000	
Sn	118	1	No Gas	-0.003	-0.054	-830.61	3661	0.00	2000	
Sb	121	1	No Gas	-0.019	-0.381	-11.32	643	0.00	2000	
Ba	137	1	No Gas	67.321	1346.422	2.48	445906	0.02	2000	
Tl	205	1	No Gas	-0.034	-0.676	-7.93	673	-0.01	2000	
Tl	203	1	No Gas	-0.035	-0.706	-9.55	250	-0.01	2000	
Pb	208	1	No Gas	0.020	0.410	16.64	5621	0.00	2000	
U	238	1	No Gas	-0.016	-0.319	-12.44	1320	0.00	2000	
Ca	43	2	He	3108.822	62176.439	5.31	5501	56.51	200000	
Sb	121	2	He	-0.019	-0.387	-23.90	290	-0.01	2000	
Ti	47	2	He	0.115	2.298	75.33	27	0.43	2000	
Cu	63	1	No Gas	0.025	0.504	70.48	3524	0.00	2000	
Ca	44	1	No Gas	3033.248	60664.958	1.54	1344863	0.23	200000	
Zn	66	1	No Gas	0.290	5.806	6.19	3801	0.01	2000	
Se	82	1	No Gas	-0.155	-3.091	-40.87	227	-0.07	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	560222	0.88	622488	90.00	70	120	
Ge	72	2	He	627666	0.34	646115	97.14	70	120	
Ge	72	1	No Gas	2140993	0.37	2248671	95.21	70	120	

Sample Report

In	115	1	No Gas	3090073	0.13	3171445	97.43	70	120	
Bi	209	1	No Gas	3360701	0.66	3428605	98.02	70	120	

Sample Report

Sample Table

Sample Name	HS24061218-05
Data File Name	043SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:48:57-05:00
Sample Type	Sample
Dilution	20
Comment	TW B 214140
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	3.220	64.390	1.82	59095	0.01	2000	
Be	9	1	No Gas	-0.003	-0.050	-340.85	65	0.00	2000	
V	51	2	He	-0.111	-2.222	-13.78	2380	0.00	2000	
Cr	52	2	He	-0.234	-4.671	-4.00	3984	-0.01	2000	
Fe	56	2	He	32.217	644.338	2.22	193633	0.02	200000	
Se	78	2	He	0.114	2.281	183.19	113	0.10	2000	
As	75	2	He	0.181	3.617	18.40	398	0.05	2000	
Ca	44	2	He	10815.077	216301.539	1.13	335207	3.23	200000	
Na	23	2	He	32406.036	648120.713	1.07	23148790	0.14	200000	
Mg	24	2	He	7618.164	152363.284	1.12	3425144	0.22	200000	
K	39	2	He	152.629	3052.576	1.65	151130	0.10	200000	
Mn	55	2	He	93.512	1870.239	0.16	404096	0.02	2000	
Co	59	2	He	0.558	11.152	5.30	5098	0.01	2000	
Ni	60	2	He	0.454	9.086	11.52	1407	0.03	2000	
Cu	63	2	He	-0.153	-3.057	-14.51	490	-0.03	2000	
Zn	66	2	He	0.564	11.289	26.35	1800	0.03	2000	
Al	27	2	He	-0.090	-1.801	-416.52	917	-0.01	2000	
B	11	1	No Gas	-0.172	-3.440	-161.29	6700	0.00	2000	
Al	27	1	No Gas	0.164	3.285	15.87	32481	0.00	2000	
Si	28	1	No Gas	943.408	18868.168	1.58	5593956	0.02	2000	
Ag	107	1	No Gas	-0.045	-0.901	-3.34	380	-0.01	2000	
Cd	111	1	No Gas	-0.007	-0.138	-238.88	82	-0.01	2000	
Sr	88	1	No Gas	194.738	3894.755	1.73	6785373	0.00	2000	
Mo	95	1	No Gas	0.024	0.483	27.82	450	0.01	2000	
Sn	118	1	No Gas	0.019	0.389	80.70	3941	0.00	2000	
Sb	121	1	No Gas	-0.021	-0.413	-39.33	630	0.00	2000	
Ba	137	1	No Gas	26.482	529.633	0.62	176047	0.02	2000	
Tl	205	1	No Gas	-0.027	-0.543	-7.81	930	0.00	2000	
Tl	203	1	No Gas	-0.030	-0.609	-7.35	330	-0.01	2000	
Pb	208	1	No Gas	-0.025	-0.509	-10.68	2673	0.00	2000	
U	238	1	No Gas	0.215	4.295	3.93	17553	0.00	2000	
Ca	43	2	He	11061.469	221229.390	5.49	19838	55.76	200000	
Sb	121	2	He	-0.015	-0.304	-42.11	327	0.00	2000	
Ti	47	2	He	0.132	2.633	74.37	30	0.44	2000	
Cu	63	1	No Gas	0.121	2.421	12.19	4708	0.00	2000	
Ca	44	1	No Gas	10546.666	210933.326	2.10	4718321	0.22	200000	
Zn	66	1	No Gas	0.679	13.582	10.78	5044	0.01	2000	
Se	82	1	No Gas	0.104	2.089	258.30	283	0.04	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	571234	0.14	622488	91.77	70	120	
Ge	72	2	He	637402	0.39	646115	98.65	70	120	
Ge	72	1	No Gas	2184109	0.86	2248671	97.13	70	120	

Sample Report

In	115	1	No Gas	3092987	0.35	3171445	97.53	70	120	
Bi	209	1	No Gas	3333705	0.73	3428605	97.23	70	120	

Sample Report

Sample Table

Sample Name	HS24061218-07
Data File Name	044SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:51:21-05:00
Sample Type	Sample
Dilution	50
Comment	TW B 214140
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.843	42.162	3.27	40100	0.00	2000	
Be	9	1	No Gas	-0.012	-0.597	-39.19	45	-0.03	2000	
V	51	2	He	-0.231	-11.561	-6.41	1797	-0.01	2000	
Cr	52	2	He	4.657	232.858	3.70	29742	0.02	2000	
Fe	56	2	He	2211.950	110597.485	1.86	11566623	0.02	200000	
Se	78	2	He	-0.104	-5.187	-141.74	95	-0.11	2000	
As	75	2	He	-0.050	-2.493	-103.02	199	-0.03	2000	
Ca	44	2	He	2839.730	141986.494	4.48	87809	3.23	200000	
Na	23	2	He	24990.206	1249510.282	2.04	17728128	0.14	200000	
Mg	24	2	He	1624.857	81242.865	2.48	727358	0.22	200000	
K	39	2	He	90.017	4500.844	3.87	114385	0.08	200000	
Mn	55	2	He	51.082	2554.122	2.65	219355	0.02	2000	
Co	59	2	He	0.099	4.928	9.14	1180	0.01	2000	
Ni	60	2	He	4.742	237.115	3.56	10501	0.05	2000	
Cu	63	2	He	-0.060	-2.977	-51.95	1017	-0.01	2000	
Zn	66	2	He	-0.019	-0.932	-771.31	1160	0.00	2000	
Al	27	2	He	1.436	71.780	31.08	1363	0.11	2000	
B	11	1	No Gas	-1.554	-77.679	-11.97	5063	-0.03	2000	
Al	27	1	No Gas	1.730	86.485	10.46	50341	0.00	2000	
Si	28	1	No Gas	280.073	14003.628	5.65	1804870	0.02	2000	
Ag	107	1	No Gas	-0.051	-2.544	-5.22	277	-0.02	2000	
Cd	111	1	No Gas	-0.007	-0.362	-19.29	82	-0.01	2000	
Sr	88	1	No Gas	40.277	2013.864	1.92	1424600	0.00	2000	
Mo	95	1	No Gas	-0.008	-0.379	-10.54	233	0.00	2000	
Sn	118	1	No Gas	0.017	0.840	110.10	3961	0.00	2000	
Sb	121	1	No Gas	-0.035	-1.752	-9.75	397	-0.01	2000	
Ba	137	1	No Gas	4.211	210.558	2.41	29049	0.01	2000	
Tl	205	1	No Gas	-0.038	-1.876	-5.63	527	-0.01	2000	
Tl	203	1	No Gas	-0.032	-1.584	-13.64	313	-0.01	2000	
Pb	208	1	No Gas	-0.023	-1.173	-3.19	2834	0.00	2000	
U	238	1	No Gas	-0.020	-1.023	-5.40	1003	0.00	2000	
Ca	43	2	He	2732.377	136618.865	5.00	4871	56.10	200000	
Sb	121	2	He	-0.029	-1.462	-34.31	217	-0.01	2000	
Ti	47	2	He	0.020	0.994	287.50	10	0.20	2000	
Cu	63	1	No Gas	0.150	7.480	10.09	5074	0.00	2000	
Ca	44	1	No Gas	2776.623	138831.140	2.39	1266447	0.22	200000	
Zn	66	1	No Gas	0.124	6.187	89.24	3400	0.00	2000	
Se	82	1	No Gas	-0.037	-1.853	-609.42	257	-0.01	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	571279	0.21	622488	91.77	70	120	
Ge	72	2	He	632272	1.32	646115	97.86	70	120	
Ge	72	1	No Gas	2199340	0.39	2248671	97.81	70	120	

Sample Report

In	115	1	No Gas	3135063	0.11	3171445	98.85	70	120	
Bi	209	1	No Gas	3375465	0.19	3428605	98.45	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	046_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:56:09-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	99.939	2.116	778879	1.45	100	99.9	90	110	
Be	9	1	No Gas	100.772	2.498	200055	2.03	100	100.8	90	110	
V	51	2	He	100.568	0.715	473687	0.96	100	100.6	90	110	
Cr	52	2	He	101.488	0.943	538868	0.68	100	101.5	90	110	
Fe	56	2	He	10003.900	1.574	52085688	1.73	10000	100.0	90	110	
Se	78	2	He	99.116	3.042	8153	3.72	100	99.1	90	110	
As	75	2	He	99.864	0.850	84612	1.64	100	99.9	90	110	
Ca	44	2	He	10019.720	1.911	307265	2.13	10000	100.2	90	110	
Na	23	2	He	10227.837	1.102	7293241	1.57	10000	102.3	90	110	
Mg	24	2	He	10051.885	1.192	4469538	1.51	10000	100.5	90	110	
K	39	2	He	10054.315	0.986	5750488	1.28	10000	100.5	90	110	
Mn	55	2	He	101.680	0.663	434586	1.18	100	101.7	90	110	
Co	59	2	He	100.523	1.096	846676	1.26	100	100.5	90	110	
Ni	60	2	He	101.766	1.705	215992	1.60	100	101.8	90	110	
Cu	63	2	He	101.473	1.544	576062	1.65	100	101.5	90	110	
Zn	66	2	He	100.903	0.666	109117	0.20	100	100.9	90	110	
Al	27	2	He	101.305	2.964	31078	3.66	100	101.3	90	110	
B	11	1	No Gas	481.970	2.077	541109	1.58	500	96.4	90	110	
Al	27	1	No Gas	99.362	2.144	1107410	1.56	100	99.4	90	110	
Si	28	1	No Gas	486.953	2.706	2887645	2.00	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.532	1.007	1819533	1.69	100	100.5	90	110	
Cd	111	1	No Gas	100.751	0.651	357277	1.46	100	100.8	90	110	
Sr	88	1	No Gas	100.439	0.908	3439840	1.73	100	100.4	90	110	
Mo	95	1	No Gas	98.782	0.925	673020	1.32	100	98.8	90	110	
Sn	118	1	No Gas	100.348	1.300	1235468	1.96	100	100.3	90	110	
Sb	121	1	No Gas	103.349	2.132	1642737	1.62	100	103.3	90	110	
Ba	137	1	No Gas	99.034	1.919	644747	2.34	100	99.0	90	110	
Tl	205	1	No Gas	105.657	0.936	4211037	2.06	100	105.7	90	110	
Tl	203	1	No Gas	105.776	0.966	1792783	1.90	100	105.8	90	110	
Pb	208	1	No Gas	100.111	0.669	6366276	1.79	100	100.1	90	110	
U	238	1	No Gas	100.370	1.050	7110137	2.12	100	100.4	90	110	
Ca	43	2	He	10143.624	4.382	17999	4.81	10000	101.4	90	110	
Sb	121	2	He	100.171	1.125	764732	1.89	100	100.2	90	110	
Ti	47	2	He	102.784	2.496	18139	1.96	100	102.8	90	110	
Cu	63	1	No Gas	100.805	2.413	1138165	1.86	100	100.8	90	110	
Se	82	1	No Gas	105.499	3.501	20769	3.00	100	105.5	90	110	
Zr	90	1	No Gas	89.133	0.674	1897721	1.46	100	89.1	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	89.033	1.270	782039	1.91	100	89.0	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	534563	0.68	622488	85.88	70	120	
Ge	72	2	He	630539	0.83	646115	97.59	70	120	
Ge	72	1	No Gas	2118056	0.55	2248671	94.19	70	120	
In	115	1	No Gas	3038963	0.92	3171445	95.82	70	120	
Bi	209	1	No Gas	3352682	1.13	3428605	97.79	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	047_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq Date Time	2024-07-01T11:58:34-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.056	-112.7	33469	1.7	0.5	
Be	9	1	No Gas	0.009	15.3	92	3.1	0.5	
V	51	2	He	-0.313	-5.4	1445	6.2	2.5	
Cr	52	2	He	-0.325	-3.5	3551	2.2	2.5	
Fe	56	2	He	-2.078	-5.9	13407	5.2	100	
Se	78	2	He	-0.163	-78.4	92	12.1	2	
As	75	2	He	-0.091	-7.5	168	2.3	2.5	
Ca	44	2	He	-8.187	-6.5	437	2.6	100	
Na	23	2	He	-46.658	-4.8	64789	2.9	100	
Mg	24	2	He	-5.259	-1.3	1227	2.9	100	
K	39	2	He	-4.852	-47.7	61981	1.3	100	
Mn	55	2	He	-0.079	-6.5	600	4.4	2.5	
Co	59	2	He	-0.023	-20.9	160	27.2	2.5	
Ni	60	2	He	-0.102	-6.6	220	7.9	2.5	
Cu	63	2	He	-0.166	-4.0	423	8.9	2	
Zn	66	2	He	-0.125	-59.1	1070	7.1	2.5	
Al	27	2	He	-0.081	-190.1	933	5.9	5	
B	11	1	No Gas	1.822	35.8	9218	8.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.044	-270.1	30597	3.7	5	
Si	28	1	No Gas	-2.201	-23.8	177100	1.1	10	
Ag	107	1	No Gas	-0.041	-22.5	473	36.4	2.5	
Cd	111	1	No Gas	-0.023	-7.4	23	28.4	1	
Sr	88	1	No Gas	-0.057	-1.2	737	3.1	2.5	
Mo	95	1	No Gas	0.027	48.5	483	19.6	2.5	
Sn	118	1	No Gas	0.018	76.6	4017	4.5	5	
Sb	121	1	No Gas	-0.015	-62.9	727	21.3	2.5	
Ba	137	1	No Gas	-0.075	-7.1	300	12.0	2.5	
Tl	205	1	No Gas	0.062	89.2	4628	49.3	1	
Tl	203	1	No Gas	0.071	71.0	2114	41.9	1	
Pb	208	1	No Gas	-0.032	-12.6	2347	11.5	2.5	
U	238	1	No Gas	-0.018	-1.2	1207	1.7	2.5	
Ca	43	2	He	-1.941	-325.2	13	86.6	100	
Sb	121	2	He	-0.007	-47.9	393	8.2	2.5	
Ti	47	2	He	-0.018	-178.0	3	173.2	2.5	
Cu	63	1	No Gas	-0.192	-5.7	1090	12.0	2.5	
Se	82	1	No Gas	-0.013	-2277.9	263	21.6	2	
Zr	90	1	No Gas	0.066	5.1	3030	2.4	2.5	
Zr	90	2	He	0.052	18.6	1757	4.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	581046	0.23	622488	93.34	70	120	
Ge	72	2	He	646926	1.35	646115	100.13	70	120	
Ge	72	1	No Gas	2216860	0.76	2248671	98.59	70	120	

Continuing Calibration Blank (CCB) Report

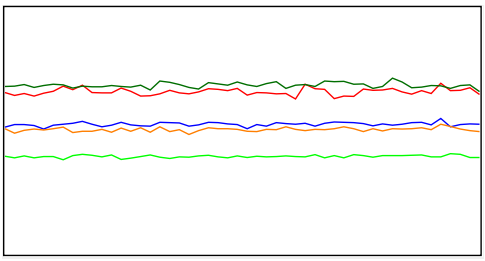
In	115	1	No Gas	3163243	0.27	3171445	99.74	70	120	
Bi	209	1	No Gas	3464927	0.60	3428605	101.06	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\070124A.b
Acq. Date-Time	7/1/2024 9:12:41 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



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

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	5000	3295	32953.17		
24	50000	19821	198214.21		
59	50000	26356	263562.07		
115	100000	50547	505469.14		
208	50000	34263	342629.87		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.107	5.000	
24	1.333	5.000	
59	1.453	5.000	
115	1.542	5.000	
208	1.503	5.000	

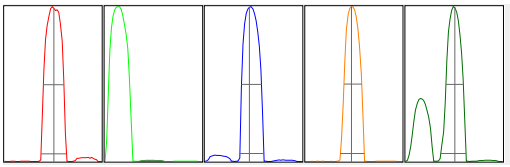
Mass	Background	Background (Required)	Background (Flag)
9	1.300		
24	2.300		
59	0.900		
115	1.300		
208	1.700		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.258 %
Doubly Charged	70 / 140 0.763 %

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	3293.40	9.05	8.90 - 9.10	
24	20139.47	23.90	23.90 - 24.10	
59	26734.75	58.90	58.90 - 59.10	
115	51547.69	114.95	114.90 - 115.10	
208	33993.10	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.779		
24	0.64	0.746		
59	0.61	0.739		
115	0.54	0.727		
208	0.53	0.772		

Tune Parameters

Plasma Parameters

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

Lens Parameters

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

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

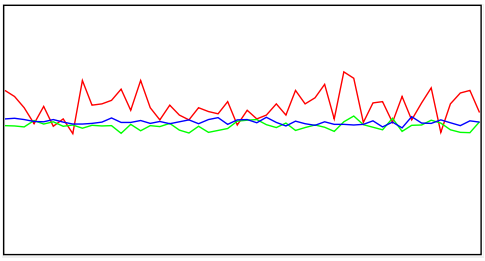
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 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	200	119	1194.05		
24	2000	1031	10311.34		
59	20000	10635	106347.51		

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

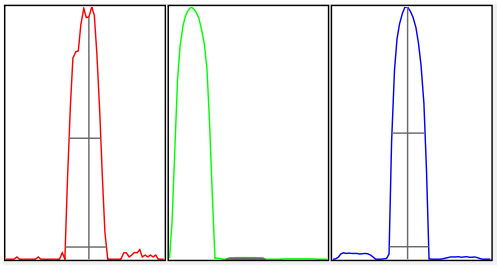
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	9.778	5.000	Fail
24	3.241	5.000	
59	1.933	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.200		
24	1.000		
59	0.100		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.720 %
Doubly Charged	70 / 140 0.727 %

Resolution/Axis



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

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	114.51	9.10	8.90 - 9.10	
24	1011.40	23.95	23.90 - 24.10	
59	10726.53	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.770		
24	0.66	0.744		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.740		

Tune Parameters

Plasma Parameters

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

Lens Parameters

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

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Prep Batch Report

Batch ID:	214140	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	26 Jun 2024 01:00 PM	**Original Factor:**	1
End Date:	26 Jun 2024 05:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060985-01	B	Groundwater	<2	10	10	1	1	DOD
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24060985-02	B	Groundwater	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24060985-04	B	Groundwater	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24060985-09	B	Groundwater	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24060985-10	B	Groundwater	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061196-01	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061196-02	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061196-05	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061196-06	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061196-08	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061196-09	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061196-10	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061196-10MS	A		<2	10	10	1	1	
HS24061196-10MSD	A		<2	10	10	1	1	
HS24061196-10PDS	A		<2	10	10	1	1	
HS24061196-10SD	A		<2	10	10	1	1	
HS24061218-02	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061218-03	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061218-05	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
HS24061218-07	C	Water	<2	10	10	1	1	
AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN								
LCS-214140	A			10	10	1	1	
MBLK-214140	A			10	10	1	1	

Prep Batch Report

Batch ID:	214140	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	26 Jun 2024 01:00 PM	**Original Factor:**	1
End Date:	26 Jun 2024 05:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB10
3010A	Thermometer ID	942333
3010A	Thermometer Location	A3
3010A	Dig. Cup ID	3111202609
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202611
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)

Prep Batch Report

Batch ID:	214374	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	01 Jul 2024 09:30 AM	**Original Factor:**	1
End Date:	01 Jul 2024 12:30 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24061196-01	C	Water		10	10	1	1	
HG								
HS24061196-02	C	Water		10	10	1	1	
HG								
HS24061196-05	C	Water		10	10	1	1	
HG								
HS24061196-06	C	Water		10	10	1	1	
HG								
HS24061196-08	C	Water		10	10	1	1	
HG								
HS24061196-09	C	Water		10	10	1	1	
HG								
HS24061196-10	C	Water		10	10	1	1	
HG								
HS24061218-02	C	Water		10	10	1	1	
HG								
HS24061218-03	C	Water		10	10	1	1	
HG								
HS24061218-05	C	Water		10	10	1	1	
HG								
HS24061218-07	C	Water		10	10	1	1	
HG								
HS24061313-01	B	Water		10	10	1	1	
HG								
HS24061313-01MS	A			10	10	1	1	
HS24061313-01MSD	A			10	10	1	1	
HS24061313-02	B	Water		10	10	1	1	
HG								
HS24061313-03	B	Water		10	10	1	1	
HG								
HS24061313-04	B	Water		10	10	1	1	
HG								
LCS-214374	A			10	10	1	1	
MBLK-214374	A			10	10	1	1	

Prep Batch Report

Batch ID:	214374	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	01 Jul 2024 09:30 AM	**Original Factor:**	1
End Date:	01 Jul 2024 12:30 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
200.8PR	Dig. End Temp, C (U)	94
HG	Sample Tube	3111202316
Hg_W	Method for SOP HS-MET004 (7470A / EPA 245.1)	7470A / EPA 245.1
Hg_W	Cal Std ID	CalStd ID -062424
Hg_W	Cal 0.0 vol, mL	0
Hg_W	Cal 0.2 vol, mL	0.10
Hg_W	Cal 0.5 vol, mL	0.25
Hg_W	Cal 2.0 vol, mL	1
Hg_W	Cal 5.0 vol, mL	2.5
Hg_W	Cal 10.0 vol, mL	5
Hg_W	ICV Std vol, mL	0.25
Hg_W	ICB Std vol, mL	0
Hg_W	CCV Std vol, mL	2.5
Hg_W	CCB Std vol, mL	0
Hg_W	Digestion Cup ID	3111202516
Hg_W	Filter ID	N/A
Hg_W	Hotblock ID	HB 1
Hg_W	Thermometer ID	W21857
Hg_W	Thermometer Position	A10
Hg_W	LCS/MS ID:	02- SPK- 062124
Hg_W	LCS Volume, mL	0.5
Hg_W	MS Volume, mL	0.5
Hg_W	H2SO4 ID	311120201819
Hg_W	K2S2O8 ID	PER - 7/3/23
Hg_W	HNO3 ID	3111202304
Hg_W	5% KMnO4 ID	KMNO - 7/3/23
Hg_W	NaCl/Hydroxylamine ID	HYDRO - 7/3/23
Hg_W	Dig. Start Time	13:30PM
Hg_W	Dig. Start Temp, C (U)	94
Hg_W	Dig. Start Temp, C (C)	94
Hg_W	0.5 mL H2SO4 (Time)	YES
Hg_W	0.25 mL HNO3 (Time)	YES
Hg_W	Dig. End Time	15:30PM
Hg_W	1.5 mL 5% KMnO4 (Time)	YES
Hg_W	Dig. End Temp, C (C)	94

Prep Batch Report

Batch ID:	214374	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	01 Jul 2024 09:30 AM	**Original Factor:**	1
End Date:	01 Jul 2024 12:30 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

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

HS24061218 ALS Middletown Level IV
Package AHH-133

ALS WO# HS24061218

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project AHH133|HS24061218
Workorder 3366036
Report ID 334059 on 7/1/2024 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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Certificate of Analysis

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Analytical Results Report For **ALS Environmental-Houston**

Project AHH133|HS24061218
Workorder 3366036
Report ID 334059 on 7/1/2024 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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Project AHH133|HS24061218
Workorder 3366036

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3366036001	HS24061218-01	Ground Water	06/17/2024 07:20	06/26/2024 09:36	CBC	Collected By Client
3366036002	HS24061218-02	Ground Water	06/17/2024 08:05	06/26/2024 09:36	CBC	Collected By Client
3366036003	HS24061218-03	Ground Water	06/17/2024 08:05	06/26/2024 09:36	CBC	Collected By Client
3366036004	HS24061218-04	Ground Water	06/17/2024 09:50	06/26/2024 09:36	CBC	Collected By Client
3366036005	HS24061218-05	Ground Water	06/17/2024 10:35	06/26/2024 09:36	CBC	Collected By Client
3366036006	HS24061218-06	Ground Water	06/17/2024 11:20	06/26/2024 09:36	CBC	Collected By Client
3366036007	HS24061218-07	Ground Water	06/17/2024 12:05	06/26/2024 09:36	CBC	Collected By Client
3366036008	HS24061218-08	Ground Water	06/17/2024 12:45	06/26/2024 09:36	CBC	Collected By Client
3366036009	HS24061218-09	Ground Water	06/17/2024 00:00	06/26/2024 09:36	CBC	Collected By Client

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Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

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Project AHH133|HS24061218
Workorder 3366036

Project Notations

P1 This certificate of analysis was reissued to generate a level IV deliverable.

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.

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Project AHH133|HS24061218
Workorder 3366036

Detected Results Summary

Client Sample ID	HS24061218-01	Collected	06/17/2024 07:20
Lab Sample ID	3366036001	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	0.75J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloroform	1.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	13.3	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	254	ug/L	5.0	3.8	1.7	SW846 8260D	#
Vinyl Chloride	3.0	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH133|HS24061218
Workorder 3366036

Detected Results Summary

Client Sample ID	HS24061218-02	Collected	06/17/2024 08:05
Lab Sample ID	3366036002	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Trichloroethene	0.93J	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH133|HS24061218
Workorder 3366036

Detected Results Summary

Client Sample ID	HS24061218-07	Collected	06/17/2024 12:05
Lab Sample ID	3366036007	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,2-Dichloroethane	0.48J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	4.3	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	2.0	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH133|HS24061218
Workorder 3366036

Detected Results Summary

Client Sample ID	HS24061218-08	Collected	06/17/2024 12:45
Lab Sample ID	3366036008	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Trichloroethene	2.3	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-01	Collected	06/17/2024 07:20
Lab Sample ID	3366036001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,1-Dichloroethane	0.75J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 22:34	BST	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 22:34	BST	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 22:34	BST	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 22:34	BST	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 22:34	BST	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 22:34	BST	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 22:34	BST	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Chloroform	1.8	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
cis-1,2-Dichloroethene	13.3	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 22:34	BST	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 22:34	BST	A

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-01	Collected	06/17/2024 07:20
Lab Sample ID	3366036001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Trichloroethene	254	P1	ug/L	5.0	3.8	1.7	SW846 8260D	5	06/28/2024 17:11	TMP	B
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A
Vinyl Chloride	3.0	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:34	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/27/2024 22:34	
1,2-Dichloroethane-d4	17060-07-0	109%	81 – 118	06/28/2024 17:11	
4-Bromofluorobenzene	460-00-4	104%	85 – 114	06/27/2024 22:34	
4-Bromofluorobenzene	460-00-4	97.5%	85 – 114	06/28/2024 17:11	
Dibromofluoromethane	1868-53-7	95.9%	80 – 119	06/27/2024 22:34	
Dibromofluoromethane	1868-53-7	99.1%	80 – 119	06/28/2024 17:11	
Toluene-d8	2037-26-5	103%	89 – 112	06/27/2024 22:34	
Toluene-d8	2037-26-5	106%	89 – 112	06/28/2024 17:11	

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-02	Collected	06/17/2024 08:05
Lab Sample ID	3366036002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 22:54	BST	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 22:54	BST	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 22:54	BST	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 22:54	BST	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 22:54	BST	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 22:54	BST	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 22:54	BST	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 22:54	BST	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 22:54	BST	A

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-02	Collected	06/17/2024 08:05
Lab Sample ID	3366036002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Trichloroethene	0.93J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 22:54	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	81 – 118	06/27/2024 22:54	
4-Bromofluorobenzene	460-00-4	99.4%	85 – 114	06/27/2024 22:54	
Dibromofluoromethane	1868-53-7	92.8%	80 – 119	06/27/2024 22:54	
Toluene-d8	2037-26-5	102%	89 – 112	06/27/2024 22:54	

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-03	Collected	06/17/2024 08:05
Lab Sample ID	3366036003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 23:14	BST	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 23:14	BST	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:14	BST	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:14	BST	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:14	BST	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:14	BST	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 23:14	BST	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 23:14	BST	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 23:14	BST	A

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-03	Collected	06/17/2024 08:05
Lab Sample ID	3366036003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:14	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	105%	81 – 118	06/27/2024 23:14	
4-Bromofluorobenzene	460-00-4	94.2%	85 – 114	06/27/2024 23:14	
Dibromofluoromethane	1868-53-7	94.9%	80 – 119	06/27/2024 23:14	
Toluene-d8	2037-26-5	102%	89 – 112	06/27/2024 23:14	

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-04	Collected	06/17/2024 09:50
Lab Sample ID	3366036004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 23:35	BST	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 23:35	BST	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:35	BST	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:35	BST	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:35	BST	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:35	BST	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 23:35	BST	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 23:35	BST	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 23:35	BST	A

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-04	Collected	06/17/2024 09:50
Lab Sample ID	3366036004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:35	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	81 – 118	06/27/2024 23:35	
4-Bromofluorobenzene	460-00-4	94%	85 – 114	06/27/2024 23:35	
Dibromofluoromethane	1868-53-7	92.1%	80 – 119	06/27/2024 23:35	
Toluene-d8	2037-26-5	97.5%	89 – 112	06/27/2024 23:35	

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-05	Collected	06/17/2024 10:35
Lab Sample ID	3366036005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 23:55	BST	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 23:55	BST	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:55	BST	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:55	BST	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:55	BST	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 23:55	BST	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 23:55	BST	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 23:55	BST	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 23:55	BST	A

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-05	Collected	06/17/2024 10:35
Lab Sample ID	3366036005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 23:55	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/27/2024 23:55	
4-Bromofluorobenzene	460-00-4	93.4%	85 – 114	06/27/2024 23:55	
Dibromofluoromethane	1868-53-7	94.9%	80 – 119	06/27/2024 23:55	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 23:55	

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-06	Collected	06/17/2024 11:20
Lab Sample ID	3366036006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 00:16	BST	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 00:16	BST	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 00:16	BST	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 00:16	BST	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 00:16	BST	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 00:16	BST	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/28/2024 00:16	BST	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/28/2024 00:16	BST	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/28/2024 00:16	BST	A

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-06	Collected	06/17/2024 11:20
Lab Sample ID	3366036006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:16	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/28/2024 00:16	
4-Bromofluorobenzene	460-00-4	100%	85 – 114	06/28/2024 00:16	
Dibromofluoromethane	1868-53-7	89.5%	80 – 119	06/28/2024 00:16	
Toluene-d8	2037-26-5	101%	89 – 112	06/28/2024 00:16	

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-07	Collected	06/17/2024 12:05
Lab Sample ID	3366036007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 04:00	BST	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 04:00	BST	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,2-Dichloroethane	0.48J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 04:00	BST	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 04:00	BST	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 04:00	BST	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 04:00	BST	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/28/2024 04:00	BST	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
cis-1,2-Dichloroethene	4.3	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/28/2024 04:00	BST	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/28/2024 04:00	BST	A

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-07	Collected	06/17/2024 12:05
Lab Sample ID	3366036007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Trichloroethene	2.0	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 04:00	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/28/2024 04:00	
4-Bromofluorobenzene	460-00-4	90.4%	85 – 114	06/28/2024 04:00	
Dibromofluoromethane	1868-53-7	94.9%	80 – 119	06/28/2024 04:00	
Toluene-d8	2037-26-5	98.8%	89 – 112	06/28/2024 04:00	

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-08	Collected	06/17/2024 12:45
Lab Sample ID	3366036008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 00:36	BST	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 00:36	BST	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 00:36	BST	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 00:36	BST	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 00:36	BST	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 00:36	BST	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/28/2024 00:36	BST	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/28/2024 00:36	BST	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/28/2024 00:36	BST	A

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-08	Collected	06/17/2024 12:45
Lab Sample ID	3366036008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Trichloroethene	2.3	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 00:36	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	81 – 118	06/28/2024 00:36	
4-Bromofluorobenzene	460-00-4	102%	85 – 114	06/28/2024 00:36	
Dibromofluoromethane	1868-53-7	98.3%	80 – 119	06/28/2024 00:36	
Toluene-d8	2037-26-5	104%	89 – 112	06/28/2024 00:36	

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-09	Collected	06/17/2024 00:00
Lab Sample ID	3366036009	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 21:33	BST	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 21:33	BST	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 21:33	BST	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 21:33	BST	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 21:33	BST	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 21:33	BST	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 21:33	BST	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 21:33	BST	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 21:33	BST	A

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Project AHH133|HS24061218
Workorder 3366036

Results

Client Sample ID	HS24061218-09	Collected	06/17/2024 00:00
Lab Sample ID	3366036009	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 21:33	BST	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 21:33	
4-Bromofluorobenzene	460-00-4	91.6%	85 – 114	06/27/2024 21:33	
Dibromofluoromethane	1868-53-7	94%	80 – 119	06/27/2024 21:33	
Toluene-d8	2037-26-5	99.9%	89 – 112	06/27/2024 21:33	

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Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3366036001	HS24061218-01	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366036002	HS24061218-02	SW846 8260D	N/A	
3366036003	HS24061218-03	SW846 8260D	N/A	
3366036004	HS24061218-04	SW846 8260D	N/A	
3366036005	HS24061218-05	SW846 8260D	N/A	
3366036006	HS24061218-06	SW846 8260D	N/A	
3366036007	HS24061218-07	SW846 8260D	N/A	
3366036008	HS24061218-08	SW846 8260D	N/A	
3366036009	HS24061218-09	SW846 8260D	N/A	

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1235666	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366036001	3366036003	3366036004	3366036002
3366036005	3366036006	3366036007	3366036008
3366036009			

Method Blank 3845608 (MB) Created on 06/27/2024 20:24 For QC Batch 1235666

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.90	30	99.7	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.70	30	99.1	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.60	30	91.9	80 - 119	
Toluene-d8	2037-26-5	BLK	30.20	30	101	89 - 112	

Lab Control Standard 3845609 (LCS) Created on 06/27/2024 20:24 For QC Batch 1235666

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.20		20	96	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	20.20		20	101	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.50		20	113	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	21.20		20	106	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	19.70		20	98.7	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	19.40		20	97	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	19.10		20	95.6	79 - 125		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,3-Trichlorobenzene	87-61-6	LCS	19.30		20	96.5	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.90		20	110	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.80		20	119	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	20		20	100	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90		20	94.7	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19.10		20	95.7	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	22		20	110	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	20		20	99.9	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	20.20		20	101	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.20		20	106	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	21.60		20	108	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	21.50		20	108	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	21.50		20	107	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21		20	105	60 - 139		
2-Butanone	78-93-3	LCS	105		100	105	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	102		100	102	67 - 130		
Acetone	67-64-1	LCS	112		100	112	39 - 160		
Benzene	71-43-2	LCS	19.20		20	96	79 - 120		
Bromobenzene	108-86-1	LCS	21.60		20	108	80 - 120		
Bromochloromethane	74-97-5	LCS	21.10		20	105	78 - 123		
Bromodichloromethane	75-27-4	LCS	18.90		20	94.4	79 - 125		
Bromoform	75-25-2	LCS	17.90		20	89.6	66 - 130		
Bromomethane	74-83-9	LCS	16.20		20	81.2	53 - 141		
Carbon Disulfide	75-15-0	LCS	19		20	94.9	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.40		20	87	72 - 136		
Chlorobenzene	108-90-7	LCS	20.40		20	102	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.50		20	92.6	74 - 126		
Chloroethane	75-00-3	LCS	18		20	90	60 - 138		
Chloroform	67-66-3	LCS	20.10		20	101	79 - 124		
Chloromethane	74-87-3	LCS	17.30		20	86.3	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	20.40		20	102	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.80		20	94.1	75 - 124		
Dibromomethane	74-95-3	LCS	20.60		20	103	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	16.20		20	81	32 - 152		
Ethylbenzene	100-41-4	LCS	19.20		20	96	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	20.20		20	101	66 - 134		
Isopropylbenzene	98-82-8	LCS	22.40		20	112	72 - 131		
Methylene Chloride	75-09-2	LCS	19.80		20	99	74 - 124		
mp-Xylene	108383/106423	LCS	37.60		40	93.9	80 - 121		
Naphthalene	91-20-3	LCS	20		20	99.9	61 - 128		
n-Butylbenzene	104-51-8	LCS	21.10		20	105	75 - 128		
n-Propylbenzene	103-65-1	LCS	21.20		20	106	76 - 126		
o-Chlorotoluene	95-49-8	LCS	21.70		20	109	79 - 122		
o-Xylene	95-47-6	LCS	19.10		20	95.6	78 - 122		
p-Chlorotoluene	106-43-4	LCS	22.10		20	110	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	21.50		20	107	77 - 127		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
sec-Butylbenzene	135-98-8	LCS	21.90		20	109	77 - 126		
Styrene	100-42-5	LCS	19.90		20	99.4	78 - 123		
tert-Butylbenzene	98-06-6	LCS	21.70		20	109	78 - 124		
Tetrachloroethene	127-18-4	LCS	19.60		20	97.9	74 - 129		
Toluene	108-88-3	LCS	19.20		20	95.8	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	20		20	100	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.40		20	97.2	73 - 127		
Trichloroethene	79-01-6	LCS	19.10		20	95.4	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	17		20	84.9	65 - 141		
Vinyl Chloride	75-01-4	LCS	16.70		20	83.6	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.60	30	102	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	30.60	30	102	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.80	30	99.4	80 - 119	
Toluene-d8	2037-26-5	LCS	30.90	30	103	89 - 112	

Matrix Spike 3845610 (MS) 3366036002 For QC Batch 1235666

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3845611 (MSD) 3366036002 For QC Batch 1235666

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	20.60	0	20	103	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	19.60	0	20	98.2	78 - 124	RPD 4.86 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	23.70	0	20	118	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	22.10	0	20	111	74 - 131	RPD 6.85 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.50	0	20	118	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	22.90	0	20	114	71 - 121	RPD 2.92 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.40	0	20	112	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21	0	20	105	80 - 119	RPD 6.54 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	23	0	20	115	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	21.40	0	20	107	77 - 125	RPD 7.46 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	23.30	0	20	116	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	21.50	0	20	107	71 - 131	RPD 8.09 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.10	0	20	116	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.10	0	20	106	79 - 125	RPD 8.94 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	19.10	0	20	95.6	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	18.70	0	20	93.3	69 - 129	RPD 2.42 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.80	0	20	114	73 - 122		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,3-Trichloropropane	96-18-4	MSD	22.60	0	20	113	73 - 122	RPD 1.14 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	23.40	0	20	117	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.90	0	20	114	69 - 130	RPD 2.38 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.90	0	20	110	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	21.40	0	20	107	76 - 124	RPD 2.34 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19	0	20	95.2	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	17.70	0	20	88.6	62 - 128	RPD 7.16 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	20.20	0	20	101	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	19.30	0	20	96.4	77 - 121	RPD 4.64 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	23.20	0	20	116	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	22.30	0	20	111	80 - 119	RPD 3.86 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	21.90	0	20	109	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	20.50	0	20	103	73 - 128	RPD 6.41 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	22.60	0	20	113	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.20	0	20	106	78 - 122	RPD 6.41 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.80	0	20	119	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	22.90	0	20	115	75 - 124	RPD 3.56 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	23.30	0	20	117	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	22.50	0	20	112	80 - 119	RPD 3.69 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	22.80	0	20	114	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	22	0	20	110	80 - 119	RPD 3.92 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	23.10	0	20	116	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	22.20	0	20	111	79 - 118	RPD 3.96 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	21.60	0	20	108	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	19.70	0	20	98.6	60 - 139	RPD 9.35 (Max-30)	
2-Butanone	78-93-3	MS	102	0	100	102	56 - 143		
2-Butanone	78-93-3	MSD	97.40	0	100	97.4	56 - 143	RPD 4.92 (Max-30)	
2-Hexanone	591-78-6	MS	103	0	100	103	57 - 139		
2-Hexanone	591-78-6	MSD	98.80	0	100	98.8	57 - 139	RPD 4.62 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	106	0	100	106	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	102	0	100	102	67 - 130	RPD 4.01 (Max-30)	
Acetone	67-64-1	MS	97.10	0	100	97.1	39 - 160		
Acetone	67-64-1	MSD	93	0	100	93	39 - 160	RPD 4.28 (Max-30)	
Benzene	71-43-2	MS	21.80	0	20	109	79 - 120		
Benzene	71-43-2	MSD	20.50	0	20	102	79 - 120	RPD 6.31 (Max-30)	
Bromobenzene	108-86-1	MS	23.20	0	20	116	80 - 120		
Bromobenzene	108-86-1	MSD	22.70	0	20	113	80 - 120	RPD 2.17 (Max-30)	
Bromochloromethane	74-97-5	MS	22.10	0	20	110	78 - 123		
Bromochloromethane	74-97-5	MSD	21.80	0	20	109	78 - 123	RPD 1.46 (Max-30)	
Bromodichloromethane	75-27-4	MS	20.70	0	20	103	79 - 125		
Bromodichloromethane	75-27-4	MSD	18.90	0	20	94.6	79 - 125	RPD 8.78 (Max-30)	
Bromoform	75-25-2	MS	18.40	0	20	91.9	66 - 130		
Bromoform	75-25-2	MSD	17.90	0	20	89.6	66 - 130	RPD 2.55 (Max-30)	
Bromomethane	74-83-9	MS	21.60	0	20	108	53 - 141		
Bromomethane	74-83-9	MSD	19.70	0	20	98.7	53 - 141	RPD 8.99 (Max-30)	
Carbon Disulfide	75-15-0	MS	20.80	0	20	104	64 - 133		
Carbon Disulfide	75-15-0	MSD	19.50	0	20	97.4	64 - 133	RPD 6.49 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	19.80	0	20	98.9	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	18.30	0	20	91.3	72 - 136	RPD 8.49 (Max-30)	

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Project AHH133|HS24061218
Workorder 3366036

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorobenzene	108-90-7	MS	22.50	0	20	113	82 - 118		
Chlorobenzene	108-90-7	MSD	21.30	0	20	107	82 - 118	RPD 5.40 (Max-30)	
Chlorodibromomethane	124-48-1	MS	18.90	0	20	94.7	74 - 126		
Chlorodibromomethane	124-48-1	MSD	18.20	0	20	90.8	74 - 126	RPD 4.18 (Max-30)	
Chloroethane	75-00-3	MS	21.90	0	20	110	60 - 138		
Chloroethane	75-00-3	MSD	19.90	0	20	99.3	60 - 138	RPD 9.94 (Max-30)	
Chloroform	67-66-3	MS	22.20	0	20	111	79 - 124		
Chloroform	67-66-3	MSD	21.10	0	20	105	79 - 124	RPD 5.16 (Max-30)	
Chloromethane	74-87-3	MS	21.70	0	20	108	50 - 139		
Chloromethane	74-87-3	MSD	19.50	0	20	97.4	50 - 139	RPD 10.70 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	23.10	0	20	115	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	21.30	0	20	107	78 - 123	RPD 7.94 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.70	0	20	98.7	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	18.80	0	20	94.2	75 - 124	RPD 4.66 (Max-30)	
Dibromomethane	74-95-3	MS	22.20	0	20	111	79 - 123		
Dibromomethane	74-95-3	MSD	20.40	0	20	102	79 - 123	RPD 8.58 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	20.70	0	20	103	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	18.80	0	20	94.1	32 - 152	RPD 9.25 (Max-30)	
Ethylbenzene	100-41-4	MS	21.40	0	20	107	79 - 121		
Ethylbenzene	100-41-4	MSD	20.10	0	20	101	79 - 121	RPD 6.16 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	20.80	0	20	104	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.80	0	20	104	66 - 134	RPD 0.28 (Max-30)	
Isopropylbenzene	98-82-8	MS	25.40	0	20	127	72 - 131		
Isopropylbenzene	98-82-8	MSD	24.40	0	20	122	72 - 131	RPD 3.98 (Max-30)	
Methylene Chloride	75-09-2	MS	21.80	0	20	109	74 - 124		
Methylene Chloride	75-09-2	MSD	20.40	0	20	102	74 - 124	RPD 6.73 (Max-30)	
mp-Xylene	108383/106423	MS	42.40	0	40	106	80 - 121		
mp-Xylene	108383/106423	MSD	40.40	0	40	101	80 - 121	RPD 4.71 (Max-30)	
Naphthalene	91-20-3	MS	19.30	0	20	96.7	61 - 128		
Naphthalene	91-20-3	MSD	19	0	20	95.2	61 - 128	RPD 1.61 (Max-30)	
n-Butylbenzene	104-51-8	MS	22.80	0	20	114	75 - 128		
n-Butylbenzene	104-51-8	MSD	22.90	0	20	114	75 - 128	RPD 0.48 (Max-30)	
n-Propylbenzene	103-65-1	MS	24	0	20	120	76 - 126		
n-Propylbenzene	103-65-1	MSD	23.10	0	20	116	76 - 126	RPD 3.62 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.90	0	20	120	79 - 122		
o-Chlorotoluene	95-49-8	MSD	23.30	0	20	117	79 - 122	RPD 2.52 (Max-30)	
o-Xylene	95-47-6	MS	21.20	0	20	106	78 - 122		
o-Xylene	95-47-6	MSD	19.90	0	20	99.6	78 - 122	RPD 6.39 (Max-30)	
p-Chlorotoluene	106-43-4	MS	24	0	20	120	78 - 122		
p-Chlorotoluene	106-43-4	MSD	23.30	0	20	117	78 - 122	RPD 2.72 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	24.30	0	20	122	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	23	0	20	115	77 - 127	RPD 5.42 (Max-30)	
sec-Butylbenzene	135-98-8	MS	25.20	0	20	126	77 - 126		
sec-Butylbenzene	135-98-8	MSD	24.30	0	20	122	77 - 126	RPD 3.43 (Max-30)	
Styrene	100-42-5	MS	21.90	0	20	109	78 - 123		
Styrene	100-42-5	MSD	21	0	20	105	78 - 123	RPD 4.26 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24.80	0	20	124	78 - 124		
tert-Butylbenzene	98-06-6	MSD	23.90	0	20	120	78 - 124	RPD 3.71 (Max-30)	

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Project AHH133|HS24061218
Workorder 3366036

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Tetrachloroethene	127-18-4	MS	21.10	0	20	106	74 - 129		
Tetrachloroethene	127-18-4	MSD	20.30	0	20	102	74 - 129	RPD 3.88 (Max-30)	
Toluene	108-88-3	MS	21.40	0	20	107	80 - 121		
Toluene	108-88-3	MSD	20.30	0	20	101	80 - 121	RPD 5.38 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23	0	20	115	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	21.10	0	20	106	75 - 124	RPD 8.76 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	20	0	20	99.9	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19	0	20	95.1	73 - 127	RPD 4.91 (Max-30)	
Trichloroethene	79-01-6	MS	22.40	0.93	20	107	79 - 123		
Trichloroethene	79-01-6	MSD	20.90	0.93	20	99.8	79 - 123	RPD 6.78 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	21.70	0	20	109	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	19.60	0	20	98.2	65 - 141	RPD 10 (Max-30)	
Vinyl Chloride	75-01-4	MS	21.50	0	20	108	58 - 137		
Vinyl Chloride	75-01-4	MSD	19.50	0	20	97.3	58 - 137	RPD 10.20 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32.40	30	108	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	32.60	30	109	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30	30	100	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	31	30	103	85 - 114	
Dibromofluoromethane	1868-53-7	MS	29.10	30	97.1	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	30.80	30	103	80 - 119	
Toluene-d8	2037-26-5	MS	30.20	30	101	89 - 112	
Toluene-d8	2037-26-5	MSD	31	30	103	89 - 112	

QC Batch

QC Batch	1236144	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366036001

Method Blank 3845975 (MB) Created on 06/28/2024 10:24 For QC Batch 1236144

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U

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Workorder 3366036

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.60	30	102	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	26.80	30	89.4	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.60	30	92	80 - 119	
Toluene-d8	2037-26-5	BLK	30.30	30	101	89 - 112	

Lab Control Standard 3845976 (LCS) Created on 06/28/2024 10:24 For QC Batch 1236144

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.10		20	95.6	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.50		20	108	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.60		20	108	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	20.70		20	104	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	20.80		20	104	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.50		20	108	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20.60		20	103	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.50		20	97.3	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.20		20	106	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.10		20	121	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.10		20	101	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90		20	94.7	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19		20	94.8	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	21.90		20	110	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	19.70		20	98.5	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	20.80		20	104	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.20		20	106	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.10		20	110	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	21.60		20	108	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	21.80		20	109	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.30		20	107	60 - 139		
2-Butanone	78-93-3	LCS	104		100	104	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	104		100	104	67 - 130		
Acetone	67-64-1	LCS	108		100	108	39 - 160		
Benzene	71-43-2	LCS	19.90		20	99.3	79 - 120		
Bromobenzene	108-86-1	LCS	20.10		20	100	80 - 120		
Bromochloromethane	74-97-5	LCS	21.20		20	106	78 - 123		
Bromodichloromethane	75-27-4	LCS	18.80		20	94.2	79 - 125		
Bromoform	75-25-2	LCS	18.10		20	90.3	66 - 130		
Bromomethane	74-83-9	LCS	20		20	100	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.10		20	106	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.40		20	87.2	72 - 136		
Chlorobenzene	108-90-7	LCS	20.60		20	103	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.10		20	90.4	74 - 126		
Chloroethane	75-00-3	LCS	20.30		20	102	60 - 138		
Chloroform	67-66-3	LCS	20.80		20	104	79 - 124		
Chloromethane	74-87-3	LCS	20.10		20	100	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	21.10		20	106	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.90		20	94.3	75 - 124		
Dibromomethane	74-95-3	LCS	20.20		20	101	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	20.10		20	101	32 - 152		
Ethylbenzene	100-41-4	LCS	19.10		20	95.7	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	22.70		20	113	66 - 134		
Isopropylbenzene	98-82-8	LCS	24.20		20	121	72 - 131		
Methylene Chloride	75-09-2	LCS	21.40		20	107	74 - 124		
mp-Xylene	108383/106423	LCS	38.90		40	97.2	80 - 121		
Naphthalene	91-20-3	LCS	19.90		20	99.6	61 - 128		
n-Butylbenzene	104-51-8	LCS	21.30		20	107	75 - 128		
n-Propylbenzene	103-65-1	LCS	21.10		20	106	76 - 126		
o-Chlorotoluene	95-49-8	LCS	21.40		20	107	79 - 122		
o-Xylene	95-47-6	LCS	19.30		20	96.4	78 - 122		
p-Chlorotoluene	106-43-4	LCS	22.40		20	112	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	21.80		20	109	77 - 127		
sec-Butylbenzene	135-98-8	LCS	22.90		20	115	77 - 126		
Styrene	100-42-5	LCS	21.20		20	106	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.20		20	101	74 - 129		
Toluene	108-88-3	LCS	19.60		20	98.2	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.50		20	108	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.60		20	97.9	73 - 127		
Trichloroethene	79-01-6	LCS	20.20		20	101	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	19.30		20	96.5	65 - 141		
Vinyl Chloride	75-01-4	LCS	19.70		20	98.7	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.40	30	101	81 - 118	

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Project AHH133|HS24061218
Workorder 3366036

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4-Bromofluorobenzene	460-00-4	LCS	29.20	30	97.3	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.70	30	98.9	80 - 119	
Toluene-d8	2037-26-5	LCS	30.30	30	101	89 - 112	

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Project AHH133|HS24061218
Workorder 3366036

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3366036001	HS24061218-01	N/A	N/A	N/A		SW846 8260D	1235666
		N/A	N/A	N/A		SW846 8260D	1236144
3366036002	HS24061218-02	N/A	N/A	N/A		SW846 8260D	1235666
3366036003	HS24061218-03	N/A	N/A	N/A		SW846 8260D	1235666
3366036004	HS24061218-04	N/A	N/A	N/A		SW846 8260D	1235666
3366036005	HS24061218-05	N/A	N/A	N/A		SW846 8260D	1235666
3366036006	HS24061218-06	N/A	N/A	N/A		SW846 8260D	1235666
3366036007	HS24061218-07	N/A	N/A	N/A		SW846 8260D	1235666
3366036008	HS24061218-08	N/A	N/A	N/A		SW846 8260D	1235666
3366036009	HS24061218-09	N/A	N/A	N/A		SW846 8260D	1235666

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3366036

Logged By: MJE
PM: SSL

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:** **26166**

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057

Phone: +1 717 702 2244

CUSTOMER INFORMATION:

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

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24061218
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24061218-01**	**1824DPTMW02_061724**	**Water**	**17 Jun 2024 07:20**
	8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
2.	**HS24061218-02**	**18WW18_061724**	**Water**	**17 Jun 2024 08:05**
	8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
3.	**HS24061218-03**	**CO3_061724**	**Water**	**17 Jun 2024 08:05**
	8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
4.	**HS24061218-04**	**1824DPTMW01_061724**	**Water**	**17 Jun 2024 09:50**
	8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
5.	**HS24061218-05**	**18CPTMW18_061724**	**Water**	**17 Jun 2024 10:35**
	8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
6.	**HS24061218-06**	**1824DPTMW03_061724**	**Water**	**17 Jun 2024 11:20**
	8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
7.	**HS24061218-07**	**MW19_061724**	**Water**	**17 Jun 2024 12:05**
	8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
8.	**HS24061218-08**	**MW18_061724**	**Water**	**17 Jun 2024 12:45**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID: 26166**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
9.	**HS24061218-09**	**Trip Blank**	**Water**	**17 Jun 2024 00:00**
	8260 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024

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

QC Level: DOD IV (DoD Data Package)

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 570

	MJE
Receipt Info Completed By:	Y N NA
Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	Y N NA
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N
NI≤ 4 Days?	
Rad Screen (uCi)	
Courier/Tracking #:	
738879234761	Y N
SDWA Compliance	
PWSID	Y N NA
WV Containers 0-6°C	

*No Sampler, GC, GHCL ALE 6/26/24

pm notified via ZM

Relinquished By: _____ Date/Time: _____

Received By: Fedex Date/Time: _____

~~Cooler ID(s):~~ Fedex ~~Temperature(s):~~ 6/26/24 936

6/26/24 936

41 of 41

7/1/2024 10:48 AM

ALS Environmental

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Internal Chain of Custody

Work Order: 3366036

3366036-A	OPHG - Output Container - HG		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
07-29-21 14:32	META-PREP		Christian, Sarah
07-27-21 08:06	*Sample Received At Lab*		

3366036001-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036001-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036001-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036002-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036002-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036003-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036003-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036003-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036004-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

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Internal Chain of Custody

Work Order: 3366036

3366036004-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036004-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036005-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036005-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036005-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036006-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036006-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036006-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036007-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036007-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

ALS Environmental

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Internal Chain of Custody

Work Order: 3366036

3366036007-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036008-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036008-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036008-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036009-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

3366036009-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 15:23	RECEIVING	LOGIN	Emerich, Michael J.
06-26-24 09:36	*Sample Received At Lab*		

Case Narrative

Case Narrative
AHH-133
(3366036)

Sample Management

This report contains the results of the analysis of nine (9) ground water samples collected on June 17, 2024. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALS - Middletown via courier on June 26, 2024. Upon receipt, the samples were inspected and compared to the Chain of Custody. Sample temperature was documented on the enclosed Chain of Custody. The samples were received intact and properly preserved, unless noted on the enclosed Certificate of Analysis and/or Chain of Custody.

Qualifier Symbol Definitions:

U = Qualifier indicates that the analyte was not detected above the LOD.
J = Qualifier indicates that the analyte value is between the DL and the LOQ.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds the calibration range.
P = Qualifier indicates that the RPD between the two analytical columns is > 40%.
NSC = Qualifier indicates that spike recoveries were not calculated based on the spiking concentration.

Result Symbol Definitions:

DL = The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence.
LOD = The smallest analyte concentration that must be present in a sample in order to be detected at a high level of confidence.
LOQ = The lowest concentration that produces a quantitative result within specified limits of precision or bias.

Manual Integration Symbol Definitions

I = Peak was not integrated properly by chromatographic software. This may be due to baseline irregularities resulting from sample matrix, elevated baseline, or incorrect integration by software on a sample. Integration was adjusted by operator to ensure proper quantitation.
H = The incorrect peak was identified or the chromatographic software did not identify an analyte peak. Operator manually identified the correct peak as the appropriate target analyte. This flag is automatically assigned by the Target software.
SP = Peak was erroneously split. The operator manually integrated the peak to include all the area of the analyte peak to ensure proper quantitation.
MP = Two peaks were erroneously merged. This may include two discrete peaks separated by a distinguishable valley or a larger peak with a clearly identifiable shoulder. Operator manually split peaks.
AB = Integration of group of adjacent peaks did not follow baseline. Operator manually assigned integration to follow baseline.
NP = Negative spike in the baseline resulted in overstating area of analyte peaks. Analyte peaks were re-assigned.
AC = Integration of aggregate or multi-component analyte to include area off all components of the analyte (i.e., toxaphene).

Manual Integrations

If manual integrations were performed, they are indicated on the raw data quantification files for each method.

Volatile Organics by SW-846 Method 8260D

Sample Handling. Nine (9) ground water samples were analyzed by SW-846 Method 8260 for volatile organic compounds. All analyses were performed within holding time.

Initial Calibrations Initial calibrations were properly analyzed and met method criteria for all target analytes **Note:** The batch LCS also serves as a second source (ICV).

Continuing Calibration Verification. Continuing Calibration and closing standards were properly analyzed and met method criteria for target analytes.

Blanks. Target analytes were not detected in the method blanks.

Surrogates. Recoveries were within control limits.

Laboratory control samples. Target analytes were within control limits.

Spike Sample Matrix. Target analytes were recovered within control limits.

Internal Standards. One or more internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results.

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260D

Workorder

3366036

Client

ALS Houston

Project

AHH133|HS24061218

07/09/2024

www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-01

	Collected	Received	Matrix
3366036001	06/17/24 07:20	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,1-Dichloroethane	0.75	J	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 22:34	25240627A	2524062759
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 22:34	25240627A	2524062759
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 22:34	25240627A	2524062759
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 22:34	25240627A	2524062759
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 22:34	25240627A	2524062759
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 22:34	25240627A	2524062759
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-01

	Collected	Received	Matrix
3366036001	06/17/24 07:20	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Chloroform	1.8		ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
cis-1,2-Dichloroethene	13.3		ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 22:34	25240627A	2524062759
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 22:34	25240627A	2524062759
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759
Vinyl Chloride	3.0		ug/L	0.33	0.75	1.0	1	06/27/24 22:34	25240627A	2524062759

Form 1 - Organic Analysis Data Sheet

Client	ALS Houston	Workorder	
Project	HS24061218 - AHH133	**3366036**	

Volatiles by EPA 8260D

HS24061218-01	Collected	Received	Matrix
3366036001x5	06/17/24 07:20	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Trichloroethene	254		ug/L	1.7	3.8	5.0	5	06/28/24 17:11	25240628	2524062822

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-02

	Collected	Received	Matrix
3366036002	06/17/24 08:05	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 22:54	25240627A	2524062760
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 22:54	25240627A	2524062760
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 22:54	25240627A	2524062760
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 22:54	25240627A	2524062760
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 22:54	25240627A	2524062760
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 22:54	25240627A	2524062760
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-02

3366036002

Collected	Received	Matrix
06/17/24 08:05	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 22:54	25240627A	2524062760
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 22:54	25240627A	2524062760
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Trichloroethene	0.93	J	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 22:54	25240627A	2524062760

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-03

	Collected	Received	Matrix
3366036003	06/17/24 08:05	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 23:14	25240627A	2524062761
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 23:14	25240627A	2524062761
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:14	25240627A	2524062761
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:14	25240627A	2524062761
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:14	25240627A	2524062761
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:14	25240627A	2524062761
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-03

3366036003

Collected	Received	Matrix
06/17/24 08:05	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 23:14	25240627A	2524062761
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 23:14	25240627A	2524062761
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:14	25240627A	2524062761

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-04

	Collected	Received	Matrix
3366036004	06/17/24 09:50	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 23:35	25240627A	2524062762
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 23:35	25240627A	2524062762
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:35	25240627A	2524062762
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:35	25240627A	2524062762
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:35	25240627A	2524062762
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:35	25240627A	2524062762
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-04

3366036004

Collected	Received	Matrix
06/17/24 09:50	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 23:35	25240627A	2524062762
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 23:35	25240627A	2524062762
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:35	25240627A	2524062762

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-05

	Collected	Received	Matrix
3366036005	06/17/24 10:35	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 23:55	25240627A	2524062763
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 23:55	25240627A	2524062763
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:55	25240627A	2524062763
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:55	25240627A	2524062763
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:55	25240627A	2524062763
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 23:55	25240627A	2524062763
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-05

	Collected	Received	Matrix
3366036005	06/17/24 10:35	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 23:55	25240627A	2524062763
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 23:55	25240627A	2524062763
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 23:55	25240627A	2524062763

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-06

3366036006

Collected	Received	Matrix
06/17/24 11:20	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 00:16	25240627A	2524062764
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 00:16	25240627A	2524062764
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 00:16	25240627A	2524062764
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 00:16	25240627A	2524062764
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 00:16	25240627A	2524062764
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 00:16	25240627A	2524062764
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-06

3366036006

Collected	Received	Matrix
06/17/24 11:20	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/28/24 00:16	25240627A	2524062764
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/28/24 00:16	25240627A	2524062764
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:16	25240627A	2524062764

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-07

	Collected	Received	Matrix
3366036007	06/17/24 12:05	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 04:00	25240627A	2524062775
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 04:00	25240627A	2524062775
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,2-Dichloroethane	0.48	J	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 04:00	25240627A	2524062775
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 04:00	25240627A	2524062775
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 04:00	25240627A	2524062775
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 04:00	25240627A	2524062775
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-07

3366036007

Collected	Received	Matrix
06/17/24 12:05	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
cis-1,2-Dichloroethene	4.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/28/24 04:00	25240627A	2524062775
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/28/24 04:00	25240627A	2524062775
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Trichloroethene	2.0		ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 04:00	25240627A	2524062775

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-08

3366036008

Collected	Received	Matrix
06/17/24 12:45	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 00:36	25240627A	2524062765
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 00:36	25240627A	2524062765
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 00:36	25240627A	2524062765
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 00:36	25240627A	2524062765
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 00:36	25240627A	2524062765
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 00:36	25240627A	2524062765
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-08

3366036008

Collected	Received	Matrix
06/17/24 12:45	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/28/24 00:36	25240627A	2524062765
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/28/24 00:36	25240627A	2524062765
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Trichloroethene	2.3		ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 00:36	25240627A	2524062765

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-09

3366036009

Collected	Received	Matrix
06/17/24 00:00	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 21:33	25240627A	2524062756
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 21:33	25240627A	2524062756
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 21:33	25240627A	2524062756
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 21:33	25240627A	2524062756
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 21:33	25240627A	2524062756
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 21:33	25240627A	2524062756
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-09

3366036009

Collected	Received	Matrix
06/17/24 00:00	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 21:33	25240627A	2524062756
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 21:33	25240627A	2524062756
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:33	25240627A	2524062756

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

MB for HBN 1235666 [VOMS/73642

3845608

Matrix

WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 21:10	25240627A	2524062755
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/27/24 21:10	25240627A	2524062755
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 21:10	25240627A	2524062755
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 21:10	25240627A	2524062755
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 21:10	25240627A	2524062755
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/27/24 21:10	25240627A	2524062755
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

MB for HBN 1235666 [VOMS/73642

3845608

Matrix

WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/27/24 21:10	25240627A	2524062755
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/27/24 21:10	25240627A	2524062755
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/27/24 21:10	25240627A	2524062755

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

LCS for HBN 1235666 [VOMS/7364

3845609

Matrix: WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	19.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,1,1-Trichloroethane	20.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,1,2,2-Tetrachloroethane	22.5		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,1,2-Trichloroethane	21.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,1-Dichloroethane	19.7		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,1-Dichloroethene	19.4		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,1-Dichloropropene	19.1		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,2,3-Trichlorobenzene	19.3		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,2,3-Trichloropropane	21.9		ug/L	1.6	2.5	5.0	1	06/27/24 19:49	25240627A	2524062752
1,2,4-Trichlorobenzene	23.8		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,2,4-Trimethylbenzene	20		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,2-Dibromo-3-chloropropane	18.9		ug/L	1.6	2.5	5.0	1	06/27/24 19:49	25240627A	2524062752
1,2-Dibromoethane	19.1		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,2-Dichlorobenzene	22		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,2-Dichloroethane	20		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,2-Dichloropropane	20.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,3,5-Trimethylbenzene	21.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,3-Dichlorobenzene	21.6		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,3-Dichloropropane	21.5		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
1,4-Dichlorobenzene	21.5		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
2,2-Dichloropropane	21		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
2-Butanone	105		ug/L	1.6	3.8	5.0	1	06/27/24 19:49	25240627A	2524062752
2-Hexanone	103		ug/L	1.6	3.8	5.0	1	06/27/24 19:49	25240627A	2524062752
4-Methyl-2-Pentanone(MIBK)	102		ug/L	1.6	3.8	5.0	1	06/27/24 19:49	25240627A	2524062752
Acetone	112		ug/L	1.6	3.8	5.0	1	06/27/24 19:49	25240627A	2524062752
Benzene	19.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Bromobenzene	21.6		ug/L	0.20	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Bromochloromethane	21.1		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Bromodichloromethane	18.9		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Bromoform	17.9		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Bromomethane	16.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Carbon Disulfide	19		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

LCS for HBN 1235666 [VOMS/7364

3845609

Matrix: WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	17.4		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Chlorobenzene	20.4		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Chlorodibromomethane	18.5		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Chloroethane	18		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Chloroform	20.1		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Chloromethane	17.3		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
cis-1,2-Dichloroethene	20.4		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
cis-1,3-Dichloropropene	18.8		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Dibromomethane	20.6		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Dichlorodifluoromethane	16.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Ethylbenzene	19.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Hexachlorobutadiene	20.2		ug/L	0.43	3.8	5.0	1	06/27/24 19:49	25240627A	2524062752
Isopropylbenzene	22.4		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Methylene Chloride	19.8		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
mp-Xylene	37.6		ug/L	0.66	1.5	2.0	1	06/27/24 19:49	25240627A	2524062752
Naphthalene	20		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
n-Butylbenzene	21.1		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
n-Propylbenzene	21.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
o-Chlorotoluene	21.7		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
o-Xylene	19.1		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
p-Chlorotoluene	22.1		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
p-Isopropyltoluene	21.5		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
sec-Butylbenzene	21.9		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Styrene	19.9		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
tert-Butylbenzene	21.7		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Tetrachloroethene	19.6		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Toluene	19.2		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
trans-1,2-Dichloroethene	20		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
trans-1,3-Dichloropropene	19.4		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Trichloroethene	19.1		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Trichlorofluoromethane	17		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752
Vinyl Chloride	16.7		ug/L	0.33	0.75	1.0	1	06/27/24 19:49	25240627A	2524062752

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-02MS | **Collected** | **Received** | **Matrix**

3845610 | 06/17/24 08:05 | 06/26/24 09:36 | GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	20.6		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,1,1-Trichloroethane	23.7		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,1,2,2-Tetrachloroethane	23.5		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,1,2-Trichloroethane	22.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,1-Dichloroethane	23		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,1-Dichloroethene	23.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,1-Dichloropropene	23.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,2,3-Trichlorobenzene	19.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,2,3-Trichloropropane	22.8		ug/L	1.6	2.5	5.0	1	06/28/24 04:20	25240627A	2524062776
1,2,4-Trichlorobenzene	23.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,2,4-Trimethylbenzene	21.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,2-Dibromo-3-chloropropane	19		ug/L	1.6	2.5	5.0	1	06/28/24 04:20	25240627A	2524062776
1,2-Dibromoethane	20.2		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,2-Dichlorobenzene	23.2		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,2-Dichloroethane	21.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,2-Dichloropropane	22.6		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,3,5-Trimethylbenzene	23.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,3-Dichlorobenzene	23.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,3-Dichloropropane	22.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
1,4-Dichlorobenzene	23.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
2,2-Dichloropropane	21.6		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
2-Butanone	102		ug/L	1.6	3.8	5.0	1	06/28/24 04:20	25240627A	2524062776
2-Hexanone	103		ug/L	1.6	3.8	5.0	1	06/28/24 04:20	25240627A	2524062776
4-Methyl-2-Pentanone(MIBK)	106		ug/L	1.6	3.8	5.0	1	06/28/24 04:20	25240627A	2524062776
Acetone	97.1		ug/L	1.6	3.8	5.0	1	06/28/24 04:20	25240627A	2524062776
Benzene	21.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Bromobenzene	23.2		ug/L	0.20	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Bromochloromethane	22.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Bromodichloromethane	20.7		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Bromoform	18.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Bromomethane	21.6		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Carbon Disulfide	20.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-02MS | Collected: 06/17/24 08:05 | Received: 06/26/24 09:36 | Matrix: GW

3845610

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	19.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Chlorobenzene	22.5		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Chlorodibromomethane	18.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Chloroethane	21.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Chloroform	22.2		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Chloromethane	21.7		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
cis-1,2-Dichloroethene	23.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
cis-1,3-Dichloropropene	19.7		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Dibromomethane	22.2		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Dichlorodifluoromethane	20.7		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Ethylbenzene	21.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Hexachlorobutadiene	20.8		ug/L	0.43	3.8	5.0	1	06/28/24 04:20	25240627A	2524062776
Isopropylbenzene	25.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Methylene Chloride	21.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
mp-Xylene	42.4		ug/L	0.66	1.5	2.0	1	06/28/24 04:20	25240627A	2524062776
Naphthalene	19.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
n-Butylbenzene	22.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
n-Propylbenzene	24		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
o-Chlorotoluene	23.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
o-Xylene	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
p-Chlorotoluene	24		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
p-Isopropyltoluene	24.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
sec-Butylbenzene	25.2		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Styrene	21.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
tert-Butylbenzene	24.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Tetrachloroethene	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Toluene	21.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
trans-1,2-Dichloroethene	23		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
trans-1,3-Dichloropropene	20		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Trichloroethene	22.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Trichlorofluoromethane	21.7		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776
Vinyl Chloride	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 04:20	25240627A	2524062776

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-02MSD | Collected: 06/17/24 08:05 | Received: 06/26/24 09:36 | Matrix: GW

3845611

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	19.6		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,1,1-Trichloroethane	22.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,1,2,2-Tetrachloroethane	22.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,1,2-Trichloroethane	21		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,1-Dichloroethane	21.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,1-Dichloroethene	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,1-Dichloropropene	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,2,3-Trichlorobenzene	18.7		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,2,3-Trichloropropane	22.6		ug/L	1.6	2.5	5.0	1	06/28/24 04:41	25240627A	2524062777
1,2,4-Trichlorobenzene	22.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,2,4-Trimethylbenzene	21.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,2-Dibromo-3-chloropropane	17.7		ug/L	1.6	2.5	5.0	1	06/28/24 04:41	25240627A	2524062777
1,2-Dibromoethane	19.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,2-Dichlorobenzene	22.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,2-Dichloroethane	20.5		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,2-Dichloropropane	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,3,5-Trimethylbenzene	22.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,3-Dichlorobenzene	22.5		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,3-Dichloropropane	22		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
1,4-Dichlorobenzene	22.2		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
2,2-Dichloropropane	19.7		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
2-Butanone	97.4		ug/L	1.6	3.8	5.0	1	06/28/24 04:41	25240627A	2524062777
2-Hexanone	98.8		ug/L	1.6	3.8	5.0	1	06/28/24 04:41	25240627A	2524062777
4-Methyl-2-Pentanone(MIBK)	102		ug/L	1.6	3.8	5.0	1	06/28/24 04:41	25240627A	2524062777
Acetone	93		ug/L	1.6	3.8	5.0	1	06/28/24 04:41	25240627A	2524062777
Benzene	20.5		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Bromobenzene	22.7		ug/L	0.20	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Bromochloromethane	21.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Bromodichloromethane	18.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Bromoform	17.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Bromomethane	19.7		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Carbon Disulfide	19.5		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

HS24061218-02MSD

3845611

Collected	Received	Matrix
06/17/24 08:05	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	18.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Chlorobenzene	21.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Chlorodibromomethane	18.2		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Chloroethane	19.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Chloroform	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Chloromethane	19.5		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
cis-1,2-Dichloroethene	21.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
cis-1,3-Dichloropropene	18.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Dibromomethane	20.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Dichlorodifluoromethane	18.8		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Ethylbenzene	20.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Hexachlorobutadiene	20.8		ug/L	0.43	3.8	5.0	1	06/28/24 04:41	25240627A	2524062777
Isopropylbenzene	24.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Methylene Chloride	20.4		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
mp-Xylene	40.4		ug/L	0.66	1.5	2.0	1	06/28/24 04:41	25240627A	2524062777
Naphthalene	19		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
n-Butylbenzene	22.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
n-Propylbenzene	23.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
o-Chlorotoluene	23.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
o-Xylene	19.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
p-Chlorotoluene	23.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
p-Isopropyltoluene	23		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
sec-Butylbenzene	24.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Styrene	21		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
tert-Butylbenzene	23.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Tetrachloroethene	20.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Toluene	20.3		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
trans-1,2-Dichloroethene	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
trans-1,3-Dichloropropene	19		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Trichloroethene	20.9		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Trichlorofluoromethane	19.6		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777
Vinyl Chloride	19.5		ug/L	0.33	0.75	1.0	1	06/28/24 04:41	25240627A	2524062777

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

MB for HBN 1236144 [VOMS/73650

3845975

Matrix

WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 11:24	25240628	2524062804
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

MB for HBN 1236144 [VOMS/73650 | **Matrix**

3845975 | WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/28/24 11:24	25240628	2524062804
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

LCS for HBN 1236144 [VOMS/7365

3845976

Matrix: WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	19.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1,1-Trichloroethane	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1,2,2-Tetrachloroethane	21.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1,2-Trichloroethane	20.7		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1-Dichloroethane	20.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1-Dichloroethene	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1-Dichloropropene	20.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2,3-Trichlorobenzene	19.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2,3-Trichloropropane	21.2		ug/L	1.6	2.5	5.0	1	06/28/24 10:23	25240628	2524062802
1,2,4-Trichlorobenzene	24.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2,4-Trimethylbenzene	20.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dibromo-3-chloropropane	18.9		ug/L	1.6	2.5	5.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dibromoethane	19		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dichlorobenzene	21.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dichloroethane	19.7		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dichloropropane	20.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,3,5-Trimethylbenzene	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,3-Dichlorobenzene	22.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,3-Dichloropropane	21.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,4-Dichlorobenzene	21.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
2,2-Dichloropropane	21.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
2-Butanone	104		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
2-Hexanone	103		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
4-Methyl-2-Pentanone(MIBK)	104		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
Acetone	108		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
Benzene	19.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromobenzene	20.1		ug/L	0.20	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromochloromethane	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromodichloromethane	18.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromoform	18.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromomethane	20		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Carbon Disulfide	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

LCS for HBN 1236144 [VOMS/7365

3845976

Matrix WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	17.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chlorobenzene	20.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chlorodibromomethane	18.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chloroethane	20.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chloroform	20.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chloromethane	20.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
cis-1,2-Dichloroethene	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
cis-1,3-Dichloropropene	18.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Dibromomethane	20.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Dichlorodifluoromethane	20.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Ethylbenzene	19.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Hexachlorobutadiene	22.7		ug/L	0.43	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
Isopropylbenzene	24.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Methylene Chloride	21.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
mp-Xylene	38.9		ug/L	0.66	1.5	2.0	1	06/28/24 10:23	25240628	2524062802
Naphthalene	19.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
n-Butylbenzene	21.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
n-Propylbenzene	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
o-Chlorotoluene	21.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
o-Xylene	19.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
p-Chlorotoluene	22.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
p-Isopropyltoluene	21.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
sec-Butylbenzene	22.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Styrene	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
tert-Butylbenzene	22.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Tetrachloroethene	20.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Toluene	19.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
trans-1,2-Dichloroethene	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
trans-1,3-Dichloropropene	19.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Trichloroethene	20.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Trichlorofluoromethane	19.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Vinyl Chloride	19.7		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260D

Workorder

3366036

Client

ALS Houston

Project

AHH133|HS24061218

07/09/2024

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Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

RUNID 25240627A

Volatiles by EPA 8260D

HS24061218-01

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366036001	MS25	GW	06/27/24 22:34	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062759.D	30.8	30	103		81-118
4-Bromofluorobenzene	2524062759.D	31.3	30	104		85-114
Dibromofluoromethane	2524062759.D	28.8	30	96		80-119
Toluene-d8	2524062759.D	30.9	30	103		89-112

HS24061218-02

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366036002	MS25	GW	06/27/24 22:54	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062760.D	30.5	30	102		81-118
4-Bromofluorobenzene	2524062760.D	29.8	30	99		85-114
Dibromofluoromethane	2524062760.D	27.8	30	93		80-119
Toluene-d8	2524062760.D	30.5	30	102		89-112

HS24061218-03

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366036003	MS25	GW	06/27/24 23:14	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062761.D	31.5	30	105		81-118
4-Bromofluorobenzene	2524062761.D	28.3	30	94		85-114
Dibromofluoromethane	2524062761.D	28.5	30	95		80-119
Toluene-d8	2524062761.D	30.5	30	102		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder 3366036

RUNID 25240627A

Volatiles by EPA 8260D

HS24061218-04

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366036004	MS25	GW	06/27/24 23:35	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062762.D	30.7	30	102		81-118
4-Bromofluorobenzene	2524062762.D	28.2	30	94		85-114
Dibromofluoromethane	2524062762.D	27.6	30	92		80-119
Toluene-d8	2524062762.D	29.3	30	98		89-112

HS24061218-05

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366036005	MS25	GW	06/27/24 23:55	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062763.D	31.1	30	104		81-118
4-Bromofluorobenzene	2524062763.D	28	30	93		85-114
Dibromofluoromethane	2524062763.D	28.5	30	95		80-119
Toluene-d8	2524062763.D	30.4	30	101		89-112

HS24061218-06

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366036006	MS25	GW	06/28/24 00:16	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062764.D	30.2	30	101		81-118
4-Bromofluorobenzene	2524062764.D	30.1	30	100		85-114
Dibromofluoromethane	2524062764.D	26.8	30	90		80-119
Toluene-d8	2524062764.D	30.3	30	101		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

RUNID 25240627A

Volatiles by EPA 8260D

HS24061218-07

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366036007	MS25	GW	06/28/24 04:00	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062775.D	31.2	30	104		81-118
4-Bromofluorobenzene	2524062775.D	27.1	30	90		85-114
Dibromofluoromethane	2524062775.D	28.5	30	95		80-119
Toluene-d8	2524062775.D	29.6	30	99		89-112

HS24061218-08

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366036008	MS25	GW	06/28/24 00:36	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062765.D	32.1	30	107		81-118
4-Bromofluorobenzene	2524062765.D	30.6	30	102		85-114
Dibromofluoromethane	2524062765.D	29.5	30	98		80-119
Toluene-d8	2524062765.D	31.1	30	104		89-112

HS24061218-09

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366036009	MS25	GW	06/27/24 21:33	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062756.D	30.4	30	101		81-118
4-Bromofluorobenzene	2524062756.D	27.5	30	92		85-114
Dibromofluoromethane	2524062756.D	28.2	30	94		80-119
Toluene-d8	2524062756.D	30	30	100		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

RUNID 25240627A

Volatiles by EPA 8260D

MB for HBN 1235666 [VOMS/73642

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845608	MS25	WQ		ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062755.D	29.9	30	100		81-118
4-Bromofluorobenzene	2524062755.D	29.7	30	99		85-114
Dibromofluoromethane	2524062755.D	27.6	30	92		80-119
Toluene-d8	2524062755.D	30.2	30	101		89-112

LCS for HBN 1235666 [VOMS/7364

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845609	MS25	WQ	06/27/24 19:49	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062752.D	30.6	30	102		81-118
4-Bromofluorobenzene	2524062752.D	30.6	30	102		85-114
Dibromofluoromethane	2524062752.D	29.8	30	99		80-119
Toluene-d8	2524062752.D	30.9	30	103		89-112

HS24061218-02MS

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845610	MS25	GW	06/28/24 04:20	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062776.D	32.4	30	108		81-118
4-Bromofluorobenzene	2524062776.D	30	30	100		85-114
Dibromofluoromethane	2524062776.D	29.1	30	97		80-119
Toluene-d8	2524062776.D	30.2	30	101		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

RUNID 25240627A

Volatiles by EPA 8260D

HS24061218-02MSD		Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845611		MS25	GW	06/28/24 04:41	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062777.D	32.6	30	109		81-118
4-Bromofluorobenzene	2524062777.D	31	30	103		85-114
Dibromofluoromethane	2524062777.D	30.8	30	103		80-119
Toluene-d8	2524062777.D	31	30	103		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

RUNID 25240628

HS24061218-01

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366036001	MS25	GW	06/28/24 17:11	ug/L	5

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062822.D	164	150	109		81-118
4-Bromofluorobenzene	2524062822.D	146	150	98		85-114
Dibromofluoromethane	2524062822.D	149	150	99		80-119
Toluene-d8	2524062822.D	159	150	106		89-112

MB for HBN 1236144 [VOMS/73650

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845975	MS25	WQ		ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062804.D	30.6	30	102		81-118
4-Bromofluorobenzene	2524062804.D	26.8	30	89		85-114
Dibromofluoromethane	2524062804.D	27.6	30	92		80-119
Toluene-d8	2524062804.D	30.3	30	101		89-112

LCS for HBN 1236144 [VOMS/7365

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845976	MS25	WQ	06/28/24 10:23	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062802.D	30.4	30	101		81-118
4-Bromofluorobenzene	2524062802.D	29.2	30	97		85-114
Dibromofluoromethane	2524062802.D	29.7	30	99		80-119
Toluene-d8	2524062802.D	30.3	30	101		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260D

Workorder

3366036

Client

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Form 3A - Matrix Spike/Spike Duplicate Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

SAMPLENUM MS-3845610

Volatiles by EPA 8260D

HS24061218-02 (3366036002)			3845610MS		3845611MSD	
Sample Matrix	GW	**Prep Method**	**Run Date**	06/28/24	**Run Date**	06/28/24
Result Units	ug/L		**Run Time**	04:20	**Run Time**	04:41

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	0.75U	20.6	20	**103**		19.6	20	**98**		30	**4.86**	
1,1,1-Trichloroethane	74-131	1	0.75U	23.7	20	**118**		22.1	20	**111**		30	**6.85**	
1,1,2,2-Tetrachloroethane	71-121	1	0.75U	23.5	20	**118**		22.9	20	**114**		30	**2.92**	
1,1,2-Trichloroethane	80-119	1	0.75U	22.4	20	**112**		21.0	20	**105**		30	**6.54**	
1,1-Dichloroethane	77-125	1	0.75U	23.0	20	**115**		21.4	20	**107**		30	**7.46**	
1,1-Dichloroethene	71-131	1	0.75U	23.3	20	**116**		21.5	20	**107**		30	**8.09**	
1,1-Dichloropropene	79-125	1	0.75U	23.1	20	**116**		21.1	20	**106**		30	**8.94**	
1,2,3-Trichlorobenzene	69-129	1	0.75U	19.1	20	**96**		18.7	20	**93**		30	**2.42**	
1,2,3-Trichloropropane	73-122	1	2.5U	22.8	20	**114**		22.6	20	**113**		30	**1.14**	
1,2,4-Trichlorobenzene	69-130	1	0.75U	23.4	20	**117**		22.9	20	**114**		30	**2.38**	
1,2,4-Trimethylbenzene	76-124	1	0.75U	21.9	20	**110**		21.4	20	**107**		30	**2.34**	
1,2-Dibromo-3-chloropropane	62-128	1	2.5U	19.0	20	**95**		17.7	20	**89**		30	**7.16**	
1,2-Dibromoethane	77-121	1	0.75U	20.2	20	**101**		19.3	20	**96**		30	**4.64**	
1,2-Dichlorobenzene	80-119	1	0.75U	23.2	20	**116**		22.3	20	**111**		30	**3.86**	
1,2-Dichloroethane	73-128	1	0.75U	21.9	20	**109**		20.5	20	**103**		30	**6.41**	
1,2-Dichloropropane	78-122	1	0.75U	22.6	20	**113**		21.2	20	**106**		30	**6.41**	
1,3,5-Trimethylbenzene	75-124	1	0.75U	23.8	20	**119**		22.9	20	**115**		30	**3.56**	
1,3-Dichlorobenzene	80-119	1	0.75U	23.3	20	**117**		22.5	20	**112**		30	**3.69**	
1,3-Dichloropropane	80-119	1	0.75U	22.8	20	**114**		22.0	20	**110**		30	**3.92**	
1,4-Dichlorobenzene	79-118	1	0.75U	23.1	20	**116**		22.2	20	**111**		30	**3.96**	
2,2-Dichloropropane	60-139	1	0.75U	21.6	20	**108**		19.7	20	**99**		30	**9.35**	
2-Butanone	56-143	1	3.8U	102	100	**102**		97.4	100	**97**		30	**4.92**	
2-Hexanone	57-139	1	3.8U	103	100	**103**		98.8	100	**99**		30	**4.62**	
4-Methyl-2-Pentanone(MIBK)	67-130	1	3.8U	106	100	**106**		102	100	**102**		30	**4.01**	
Acetone	39-160	1	3.8U	97.1	100	**97**		93.0	100	**93**		30	**4.28**	
Benzene	79-120	1	0.75U	21.8	20	**109**		20.5	20	**102**		30	**6.31**	
Bromobenzene	80-120	1	0.75U	23.2	20	**116**		22.7	20	**113**		30	**2.17**	
Bromochloromethane	78-123	1	0.75U	22.1	20	**110**		21.8	20	**109**		30	**1.46**	
Bromodichloromethane	79-125	1	0.75U	20.7	20	**103**		18.9	20	**95**		30	**8.78**	
Bromoform	66-130	1	0.75U	18.4	20	**92**		17.9	20	**90**		30	**2.55**	
Bromomethane	53-141	1	0.75U	21.6	20	**108**		19.7	20	**99**		30	**8.99**	
Carbon Disulfide	64-133	1	0.75U	20.8	20	**104**		19.5	20	**97**		30	**6.49**	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

SAMPLENUM MS-3845610

Volatiles by EPA 8260D

HS24061218-02 (3366036002)			3845610MS		3845611MSD	
Sample Matrix	GW	**Prep Method**	**Run Date**	06/28/24	**Run Date**	06/28/24
Result Units	ug/L		**Run Time**	04:20	**Run Time**	04:41

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon Tetrachloride	72-136	1	0.75U	19.8	20	**99**		18.3	20	**91**		30	**8.04**	
Chlorobenzene	82-118	1	0.75U	22.5	20	**113**		21.3	20	**107**		30	**5.4**	
Chlorodibromomethane	74-126	1	0.75U	18.9	20	**95**		18.2	20	**91**		30	**4.18**	
Chloroethane	60-138	1	0.75U	21.9	20	**110**		19.9	20	**99**		30	**9.94**	
Chloroform	79-124	1	0.75U	22.2	20	**111**		21.1	20	**105**		30	**5.16**	
Chloromethane	50-139	1	0.75U	21.7	20	**108**		19.5	20	**97**		30	**10.7**	
cis-1,2-Dichloroethene	78-123	1	0.75U	23.1	20	**115**		21.3	20	**107**		30	**7.94**	
cis-1,3-Dichloropropene	75-124	1	0.75U	19.7	20	**99**		18.8	20	**94**		30	**4.66**	
Dibromomethane	79-123	1	0.75U	22.2	20	**111**		20.4	20	**102**		30	**8.58**	
Dichlorodifluoromethane	32-152	1	0.75U	20.7	20	**103**		18.8	20	**94**		30	**9.25**	
Ethylbenzene	79-121	1	0.75U	21.4	20	**107**		20.1	20	**101**		30	**6.16**	
Hexachlorobutadiene	66-134	1	3.8U	20.8	20	**104**		20.8	20	**104**		30	**0.28**	
Isopropylbenzene	72-131	1	0.75U	25.4	20	**127**		24.4	20	**122**		30	**3.98**	
Methylene Chloride	74-124	1	0.75U	21.8	20	**109**		20.4	20	**102**		30	**6.73**	
mp-Xylene	80-121	1	1.5U	42.4	40	**106**		40.4	40	**101**		30	**4.71**	
Naphthalene	61-128	1	0.75U	19.3	20	**97**		19.0	20	**95**		30	**1.61**	
n-Butylbenzene	75-128	1	0.75U	22.8	20	**114**		22.9	20	**114**		30	**0.48**	
n-Propylbenzene	76-126	1	0.75U	24.0	20	**120**		23.1	20	**116**		30	**3.62**	
o-Chlorotoluene	79-122	1	0.75U	23.9	20	**120**		23.3	20	**117**		30	**2.52**	
o-Xylene	78-122	1	0.75U	21.2	20	**106**		19.9	20	**100**		30	**6.39**	
p-Chlorotoluene	78-122	1	0.75U	24.0	20	**120**		23.3	20	**117**		30	**2.72**	
p-Isopropyltoluene	77-127	1	0.75U	24.3	20	**122**		23.0	20	**115**		30	**5.42**	
sec-Butylbenzene	77-126	1	0.75U	25.2	20	**126**		24.3	20	**122**		30	**3.43**	
Styrene	78-123	1	0.75U	21.9	20	**109**		21.0	20	**105**		30	**4.26**	
tert-Butylbenzene	78-124	1	0.75U	24.8	20	**124**		23.9	20	**120**		30	**3.71**	
Tetrachloroethene	74-129	1	0.75U	21.1	20	**106**		20.3	20	**102**		30	**3.88**	
Toluene	80-121	1	0.75U	21.4	20	**107**		20.3	20	**101**		30	**5.38**	
trans-1,2-Dichloroethene	75-124	1	0.75U	23.0	20	**115**		21.1	20	**106**		30	**8.76**	
trans-1,3-Dichloropropene	73-127	1	0.75U	20.0	20	**100**		19.0	20	**95**		30	**4.91**	
Trichloroethene	79-123	1	0.93J	22.4	20	**107**		20.9	20	**100**		30	**6.78**	
Trichlorofluoromethane	65-141	1	0.75U	21.7	20	**109**		19.6	20	**98**		30	**10**	
Vinyl Chloride	58-137	1	0.75U	21.5	20	**108**		19.5	20	**97**		30	**10.2**	

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260D

Workorder

3366036

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Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

SAMPLENUM LCS-3845609

Volatiles by EPA 8260D

25240627A			3845609		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 06/27/24 **Run Time** 19:49		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	19.2	**96**	
1,1,1-Trichloroethane	74-131	20	20.2	**101**	
1,1,2,2-Tetrachloroethane	71-121	20	22.5	**113**	
1,1,2-Trichloroethane	80-119	20	21.2	**106**	
1,1-Dichloroethane	77-125	20	19.7	**99**	
1,1-Dichloroethene	71-131	20	19.4	**97**	
1,1-Dichloropropene	79-125	20	19.1	**96**	
1,2,3-Trichlorobenzene	69-129	20	19.3	**97**	
1,2,3-Trichloropropane	73-122	20	21.9	**110**	
1,2,4-Trichlorobenzene	69-130	20	23.8	**119**	
1,2,4-Trimethylbenzene	76-124	20	20	**100**	
1,2-Dibromo-3-chloropropane	62-128	20	18.9	**95**	
1,2-Dibromoethane	77-121	20	19.1	**96**	
1,2-Dichlorobenzene	80-119	20	22	**110**	
1,2-Dichloroethane	73-128	20	20	**100**	
1,2-Dichloropropane	78-122	20	20.2	**101**	
1,3,5-Trimethylbenzene	75-124	20	21.2	**106**	
1,3-Dichlorobenzene	80-119	20	21.6	**108**	
1,3-Dichloropropane	80-119	20	21.5	**108**	
1,4-Dichlorobenzene	79-118	20	21.5	**107**	
2,2-Dichloropropane	60-139	20	21	**105**	
2-Butanone	56-143	100	105	**105**	
2-Hexanone	57-139	100	103	**103**	
4-Methyl-2-Pentanone(MIBK)	67-130	100	102	**102**	
Acetone	39-160	100	112	**112**	
Benzene	79-120	20	19.2	**96**	
Bromobenzene	80-120	20	21.6	**108**	
Bromochloromethane	78-123	20	21.1	**105**	
Bromodichloromethane	79-125	20	18.9	**94**	
Bromoform	66-130	20	17.9	**90**	
Bromomethane	53-141	20	16.2	**81**	
Carbon Disulfide	64-133	20	19	**95**	
Carbon Tetrachloride	72-136	20	17.4	**87**	
Chlorobenzene	82-118	20	20.4	**102**	
Chlorodibromomethane	74-126	20	18.5	**93**	

Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

SAMPLENUM LCS-3845609

25240627A			3845609		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 06/27/24 **Run Time** 19:49		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Chloroethane	60-138	20	18	**90**	
Chloroform	79-124	20	20.1	**101**	
Chloromethane	50-139	20	17.3	**86**	
cis-1,2-Dichloroethene	78-123	20	20.4	**102**	
cis-1,3-Dichloropropene	75-124	20	18.8	**94**	
Dibromomethane	79-123	20	20.6	**103**	
Dichlorodifluoromethane	32-152	20	16.2	**81**	
Ethylbenzene	79-121	20	19.2	**96**	
Hexachlorobutadiene	66-134	20	20.2	**101**	
Isopropylbenzene	72-131	20	22.4	**112**	
Methylene Chloride	74-124	20	19.8	**99**	
mp-Xylene	80-121	40	37.6	**94**	
Naphthalene	61-128	20	20	**100**	
n-Butylbenzene	75-128	20	21.1	**105**	
n-Propylbenzene	76-126	20	21.2	**106**	
o-Chlorotoluene	79-122	20	21.7	**109**	
o-Xylene	78-122	20	19.1	**96**	
p-Chlorotoluene	78-122	20	22.1	**110**	
p-Isopropyltoluene	77-127	20	21.5	**107**	
sec-Butylbenzene	77-126	20	21.9	**109**	
Styrene	78-123	20	19.9	**99**	
tert-Butylbenzene	78-124	20	21.7	**109**	
Tetrachloroethene	74-129	20	19.6	**98**	
Toluene	80-121	20	19.2	**96**	
trans-1,2-Dichloroethene	75-124	20	20	**100**	
trans-1,3-Dichloropropene	73-127	20	19.4	**97**	
Trichloroethene	79-123	20	19.1	**95**	
Trichlorofluoromethane	65-141	20	17	**85**	
Vinyl Chloride	58-137	20	16.7	**84**	

Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

SAMPLENUM LCS-3845976

Volatiles by EPA 8260D

25240628			3845976		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 06/28/24 **Run Time** 10:23		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	19.1	**96**	
1,1,1-Trichloroethane	74-131	20	21.5	**108**	
1,1,2,2-Tetrachloroethane	71-121	20	21.6	**108**	
1,1,2-Trichloroethane	80-119	20	20.7	**104**	
1,1-Dichloroethane	77-125	20	20.8	**104**	
1,1-Dichloroethene	71-131	20	21.5	**108**	
1,1-Dichloropropene	79-125	20	20.6	**103**	
1,2,3-Trichlorobenzene	69-129	20	19.5	**97**	
1,2,3-Trichloropropane	73-122	20	21.2	**106**	
1,2,4-Trichlorobenzene	69-130	20	24.1	**121**	
1,2,4-Trimethylbenzene	76-124	20	20.1	**101**	
1,2-Dibromo-3-chloropropane	62-128	20	18.9	**95**	
1,2-Dibromoethane	77-121	20	19	**95**	
1,2-Dichlorobenzene	80-119	20	21.9	**110**	
1,2-Dichloroethane	73-128	20	19.7	**99**	
1,2-Dichloropropane	78-122	20	20.8	**104**	
1,3,5-Trimethylbenzene	75-124	20	21.2	**106**	
1,3-Dichlorobenzene	80-119	20	22.1	**110**	
1,3-Dichloropropane	80-119	20	21.6	**108**	
1,4-Dichlorobenzene	79-118	20	21.8	**109**	
2,2-Dichloropropane	60-139	20	21.3	**107**	
2-Butanone	56-143	100	104	**104**	
2-Hexanone	57-139	100	103	**103**	
4-Methyl-2-Pentanone(MIBK)	67-130	100	104	**104**	
Acetone	39-160	100	108	**108**	
Benzene	79-120	20	19.9	**99**	
Bromobenzene	80-120	20	20.1	**100**	
Bromochloromethane	78-123	20	21.2	**106**	
Bromodichloromethane	79-125	20	18.8	**94**	
Bromoform	66-130	20	18.1	**90**	
Bromomethane	53-141	20	20	**100**	
Carbon Disulfide	64-133	20	21.1	**106**	
Carbon Tetrachloride	72-136	20	17.4	**87**	
Chlorobenzene	82-118	20	20.6	**103**	
Chlorodibromomethane	74-126	20	18.1	**90**	

Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

SAMPLENUM LCS-3845976

25240628			3845976		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 06/28/24 **Run Time** 10:23		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Chloroethane	60-138	20	20.3	**102**	
Chloroform	79-124	20	20.8	**104**	
Chloromethane	50-139	20	20.1	**100**	
cis-1,2-Dichloroethene	78-123	20	21.1	**106**	
cis-1,3-Dichloropropene	75-124	20	18.9	**94**	
Dibromomethane	79-123	20	20.2	**101**	
Dichlorodifluoromethane	32-152	20	20.1	**101**	
Ethylbenzene	79-121	20	19.1	**96**	
Hexachlorobutadiene	66-134	20	22.7	**113**	
Isopropylbenzene	72-131	20	24.2	**121**	
Methylene Chloride	74-124	20	21.4	**107**	
mp-Xylene	80-121	40	38.9	**97**	
Naphthalene	61-128	20	19.9	**100**	
n-Butylbenzene	75-128	20	21.3	**107**	
n-Propylbenzene	76-126	20	21.1	**106**	
o-Chlorotoluene	79-122	20	21.4	**107**	
o-Xylene	78-122	20	19.3	**96**	
p-Chlorotoluene	78-122	20	22.4	**112**	
p-Isopropyltoluene	77-127	20	21.8	**109**	
sec-Butylbenzene	77-126	20	22.9	**115**	
Styrene	78-123	20	21.2	**106**	
tert-Butylbenzene	78-124	20	22.5	**113**	
Tetrachloroethene	74-129	20	20.2	**101**	
Toluene	80-121	20	19.6	**98**	
trans-1,2-Dichloroethene	75-124	20	21.5	**108**	
trans-1,3-Dichloropropene	73-127	20	19.6	**98**	
Trichloroethene	79-123	20	20.2	**101**	
Trichlorofluoromethane	65-141	20	19.3	**97**	
Vinyl Chloride	58-137	20	19.7	**99**	

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Form 4

Method Blank Summary

Volatiles by EPA 8260D

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Form 4 - Method Blank Summary

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

Volatiles by EPA 8260D

METHOD BLANK	PrepDate / PrepBacth	Matrix	Analysis Date	Analysis Batch	Inst ID	Column
3845608		WQ	06/27/24 21:10	1235666	MS25	

Client Sample ID	Type	Lab Sample ID	2524062755.D	Analysis Date	Analysis Batch	Inst ID	Column
LCS for HBN 1235666 [VOMS/7364	LCS	3845609	2524062752.D	06/27/24 19:49	1235666	MS25	
HS24061218-09	SAMPLE	3366036009	2524062756.D	06/27/24 21:33	1235666	MS25	
HS24061218-01	SAMPLE	3366036001	2524062759.D	06/27/24 22:34	1235666	MS25	
HS24061218-02	SAMPLE	3366036002	2524062760.D	06/27/24 22:54	1235666	MS25	
HS24061218-03	SAMPLE	3366036003	2524062761.D	06/27/24 23:14	1235666	MS25	
HS24061218-04	SAMPLE	3366036004	2524062762.D	06/27/24 23:35	1235666	MS25	
HS24061218-05	SAMPLE	3366036005	2524062763.D	06/27/24 23:55	1235666	MS25	
HS24061218-06	SAMPLE	3366036006	2524062764.D	06/28/24 00:16	1235666	MS25	
HS24061218-08	SAMPLE	3366036008	2524062765.D	06/28/24 00:36	1235666	MS25	
HS24061218-07	SAMPLE	3366036007	2524062775.D	06/28/24 04:00	1235666	MS25	
HS24061218-02MS	MS	3845610	2524062776.D	06/28/24 04:20	1235666	MS25	
HS24061218-02MSD	MSD	3845611	2524062777.D	06/28/24 04:41	1235666	MS25	

Form 4 - Method Blank Summary

Client ALS Houston

Project HS24061218 - AHH133

Workorder 3366036

Volatiles by EPA 8260D

METHOD BLANK	PrepDate / PrepBacth	Matrix	Analysis Date	Analysis Batch	Inst ID	Column
3845975		WQ	06/28/24 11:24	1236144	MS25	

Client Sample ID	Type	Lab Sample ID	2524062804.D	Analysis Date	Analysis Batch	Inst ID	Column
LCS for HBN 1236144 [VOMS/7365	LCS	3845976	2524062802.D	06/28/24 10:23	1236144	MS25	
HS24061218-01	SAMPLE	3366036001	2524062822.D	06/28/24 17:11	1236144	MS25	

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Form 5

Instrument Performance Check

Volatiles by EPA 8260D

Workorder

3366036

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Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061218 - AHH133

Workorder 3366036

RUNID 25240625

8260D

Tune File 2524062500.D 06/25/24 09:52

m / e	Ion Abundance Criterion	%RA
95	Base Peak, 100% RA	100.00
50	15.00 - 40.00% of mass 95	16.72
75	30.00 - 60.00% of mass 95	46.71
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.49
175	5.00 - 9.00% of mass 174	7.88 (8.42)
176	95.00 - 101.00% of mass 174	92.80 (99.27)
177	5.00 - 9.00% of mass 176	5.61 (6.04)

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date	Lab File ID	Sample ID
1	1000	TUNE	06/25 09:52	2524062500	BFB
2	VSTD00.5	ICAL8	06/25 11:03	2524062503	LEVEL8
3	1234	ICAL1	06/25 11:23	2524062504	LEVEL1
4	1235	ICAL2	06/25 11:44	2524062505	LEVEL2
5	1236	ICAL3	06/25 12:04	2524062506	LEVEL3
6	1237	ICAL4	06/25 12:24	2524062507	LEVEL4
7	1238	ICAL5	06/25 12:45	2524062508	LEVEL5
8	1239	ICAL6	06/25 13:05	2524062509	LEVEL6
9	ICVQ	ICV	06/25 15:08	2524062515IC	ICV
10	1801	CCV	06/25 20:54	2524062532	CCV

Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061218 - AHH133

Workorder **3366036**

RUNID 25240627A

8260D

Tune File 2524062750.D 06/27/24 18:40

m / e	Ion Abundance Criterion	%RA
95	Base Peak, 100% RA	100.00
50	15.00 - 40.00% of mass 95	17.59
75	30.00 - 60.00% of mass 95	47.08
96	5.00 - 9.00% of mass 95	6.54
173	Less than 2.00% of mass 174	0.42 (0.48)
174	Greater than 50.00% of mass 95	87.21
175	5.00 - 9.00% of mass 174	7.11 (8.16)
176	95.00 - 101.00% of mass 174	84.41 (96.78)
177	5.00 - 9.00% of mass 176	5.22 (6.18)

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date	Lab File ID	Sample ID
1	1000	TUNE	06/27 18:40	2524062750	BFB
2	1800	CCV	06/27 19:08	2524062751	CCV
3	3845609	LCS	06/27 19:49	2524062752	LCS for HBN 1235666
4	3845608	MB	06/27 21:10	2524062755	MB for HBN 1235666
5	3366036009	SAMP	06/27 21:33	2524062756	HS24061218-09
6	3366036001	SAMP	06/27 22:34	2524062759	HS24061218-01
7	3366036002	SAMP	06/27 22:54	2524062760	HS24061218-02
8	3366036003	SAMP	06/27 23:14	2524062761	HS24061218-03
9	3366036004	SAMP	06/27 23:35	2524062762	HS24061218-04
10	3366036005	SAMP	06/27 23:55	2524062763	HS24061218-05
11	3366036006	SAMP	06/28 00:16	2524062764	HS24061218-06
12	3366036008	SAMP	06/28 00:36	2524062765	HS24061218-08
13	3366036007	SAMP	06/28 04:00	2524062775	HS24061218-07
14	3845610	MS	06/28 04:20	2524062776	HS24061218-02MS
15	3845611	MSD	06/28 04:41	2524062777	HS24061218-02MSD
16	1801	CCV	06/28 05:22	2524062779	CCV

Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061218 - AHH133

Workorder 3366036

RUNID 25240628

8260D

Tune File 2524062800.D 06/28/24 09:00

m / e	Ion Abundance Criterion	%RA
95	Base Peak, 100% RA	100.00
50	15.00 - 40.00% of mass 95	18.49
75	30.00 - 60.00% of mass 95	47.66
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.39 (0.45)
174	Greater than 50.00% of mass 95	86.25
175	5.00 - 9.00% of mass 174	6.82 (7.91)
176	95.00 - 101.00% of mass 174	84.39 (97.84)
177	5.00 - 9.00% of mass 176	5.64 (6.69)

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date	Lab File ID	Sample ID
1	1000	TUNE	06/28 09:00	2524062800	BFB
2	1800	CCV	06/28 09:53	2524062801	CCV
3	3845976	LCS	06/28 10:23	2524062802	LCS for HBN 1236144
4	3845975	MB	06/28 11:24	2524062804	MB for HBN 1236144
5	3366036001	SAMP	06/28 17:11	2524062822	HS24061218-01
6	1801	CCV	06/28 19:34	2524062829	CCV

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Form 6

Initial Calibration Data

Volatiles by EPA 8260D

Workorder

3366036

Client

ALS Houston

Project

AHH133|HS24061218

07/09/2024

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

Instrument ID MS25
ICAL Start Date 25-JUN-2024 1103
ICAL End Date 25-JUN-2024 1305

Calibration Files

Level1 - 25240625.b\2524062504.D
Level2 - 25240625.b\2524062505.D
Level3 - 25240625.b\2524062506.D
Level4 - 25240625.b\2524062507.D
Level5 - 25240625.b\2524062508.D
Level6 - 25240625.b\2524062509.D
Level8 - 25240625.b\2524062503.D

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	0.405 0.265	0.329	0.304	0.329	0.359	0.333	AVRG		0.332		13.1	
Chloromethane	7701 10647	52986	186575	540092	1078871	2190978	WLINR	-0.004	3.46		0.999	
Vinyl Chloride	0.463 0.320	0.373	0.339	0.372	0.397	0.363	AVRG		0.375		12.3	
Bromomethane	6439 8135	37472	128221	348305	683038	1305713	WLINR	-0.015	5.62		0.998	
Chloroethane	7553 12457	49249	167849	473353	939865	1905246	WLINR	-0.010	3.97		0.999	
Pentane	13487 17356	50203	154298	429548	877950	1732989	WLINR	-0.035	4.37		0.998	
Trichlorofluoromethane	0.609 0.448	0.522	0.475	0.508	0.542	0.494	AVRG		0.514		10.1	
Dichlorofluoromethane	0.413 0.405	0.507	0.458	0.513	0.535	0.499	AVRG		0.476		10.8	
Ethyl Ether	0.128 0.122	0.144	0.145	0.157	0.162	0.155	AVRG		0.145		10.3	
1,1-Dichloroethene	0.259 0.260	0.297	0.272	0.302	0.325	0.306	AVRG		0.289		8.83	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Form 6 Initial Calibration Data

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 2 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Freon 113	0.174 0.182	0.216	0.188	0.213	0.232	0.216	AVRG		0.203		10.6	
Carbon Disulfide	0.587 0.536	0.603	0.575	0.670	0.715	0.672	AVRG		0.623		10.3	
Iodomethane	1008 2132	12856	55931	202377	423659	874390	WLINR	0.017	8.85		0.993	
Acrolein	0.048 0.040	0.046	0.044	0.049	0.051	0.049	AVRG		0.047		8.35	
Isopropyl Alcohol	3328 4784	13242	48509	143259	289391	563852	WLINR	-0.106	66.6		0.997	
3-Chloro-1-propene	3005 7346	45996	163615	502818	973704	1831594	WLINR	0.006	3.96		0.996	
Methylene Chloride	0.204 0.223	0.246	0.226	0.251	0.257	0.243	AVRG		0.236		7.97	
Acetone	0.027 0.028	0.025	0.024	0.026	0.027	0.025	AVRG		0.026		5.46	
Methyl acetate	2035 2657	9079	35525	106383	195422	401646	WLINR	-0.014	18.8		0.999	
trans-1,2-Dichloroethene	0.243 0.256	0.288	0.267	0.307	0.320	0.297	AVRG		0.283		9.97	
Hexane	15367 20884	86426	304896	870351	1762469	3534639	WLINR	-0.010	2.14		0.998	
Methyl t-Butyl Ether	9076 19555	120315	466744	1393184	2707334	5465615	WLINR	0.008	1.37		0.999	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
tert.- Butyl Alcohol	0.023 0.024	0.024	0.026	0.028	0.030	0.027	AVRG		0.026		9.72	
Acetonitrile	0.027 0.025	0.030	0.028	0.032	0.033	0.030	AVRG		0.029		9.61	
Diisopropyl ether	0.517 0.556	0.644	0.607	0.687	0.708	0.671	AVRG		0.627		11.2	
Chloroprene	0.270 0.264	0.311	0.307	0.352	0.368	0.354	AVRG		0.318		13.0	
1,1-Dichloroethane	0.324 0.332	0.404	0.365	0.421	0.436	0.414	AVRG		0.385		11.7	
Acrylonitrile	0.080 0.083	0.103	0.099	0.112	0.117	0.109	AVRG		0.100		14.2	
Ethyl tert-butyl ether	0.536 0.551	0.665	0.658	0.739	0.774	0.740	AVRG		0.666		14.0	
n-Propanol	0.014 0.012	0.012	0.011	0.012	0.013	0.012	AVRG		0.012		8.23	
Vinyl Acetate	715 1240	9677	38506	126310	244750	502264	WLINR	0.013	15.1		0.998	
cis-1,2-Dichloroethene	0.243 0.251	0.294	0.281	0.310	0.322	0.305	AVRG		0.287		10.5	
2,2-Dichloropropane	0.278 0.270	0.309	0.290	0.326	0.348	0.326	AVRG		0.307		9.34	
Bromochloromethane	0.100 0.098	0.128	0.124	0.141	0.142	0.132	AVRG		0.124		14.4	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 4 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Cyclohexane	0.329 0.306	0.344	0.316	0.354	0.389	0.369	AVRG		0.344		8.51	
Chloroform	0.360 0.344	0.430	0.401	0.451	0.476	0.447	AVRG		0.416		11.8	
Ethyl Acetate	6710 8670	42053	158992	472909	938737	1869543	WLINR	-0.003	4.02		0.998	
Methyl acrylate	0.213 0.191	0.223	0.224	0.250	0.265	0.249	AVRG		0.231		11.0	
Carbon Tetrachloride	2612 6249	45979	178993	556541	1141242	2364065	WLINR	0.014	3.24		0.997	
Tetrahydrofuran	0.069 0.063	0.068	0.066	0.075	0.078	0.074	AVRG		0.071		7.34	
1,1,1-Trichloroethane	0.253 0.278	0.325	0.318	0.355	0.376	0.359	AVRG		0.324		13.9	
2-Butanone	0.031 0.031	0.034	0.033	0.036	0.038	0.036	AVRG		0.034		7.73	
1,1-Dichloropropene	0.280 0.252	0.316	0.290	0.331	0.346	0.327	AVRG		0.306		10.9	
1-Chlorobutane	0.234 0.167	0.199	0.175	0.197	0.210	0.197	AVRG		0.197		11.3	
Heptane	0.195 0.160	0.183	0.158	0.175	0.194	0.179	AVRG		0.178		8.30	
Benzene	0.945 0.864	0.948	0.879	0.978	1.01	0.958	AVRG		0.941		5.62	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 5 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Propionitrile	0.030 0.035	0.037	0.037	0.042	0.043	0.041	AVRG		0.038		12.3	
Methacrylonitrile	0.114 0.085	0.106	0.111	0.125	0.130	0.125	AVRG		0.114		13.5	
tert-Amyl methyl ether	0.545 0.560	0.620	0.624	0.711	0.739	0.703	AVRG		0.643		11.8	
Isobutyl alcohol	394 1830	7621	34403	96464	211992	461252	WLINR	0.134	171		0.995	
1,2-Dichloroethane	0.291 0.272	0.298	0.275	0.315	0.318	0.301	AVRG		0.296		6.04	
tert-Amyl Alcohol	0.018 0.021	0.017	0.019	0.021	0.022	0.022	AVRG		0.020		10.2	
Diisobutylene	44441 50206	125872	376363	1061231	2168082	4304948	WLINR	-0.050	1.77		0.997	
Trichloroethene	0.246 0.210	0.231	0.215	0.254	0.260	0.251	AVRG		0.238		8.37	
Methyl cyclohexane	0.936 0.905	0.978	0.920	1.01	1.06	1.01	AVRG		0.973		5.67	
tert-Amyl Ethylether	7238 14413	87789	354280	1054026	2075694	4280148	WLINR	0.009	1.77		0.999	
Dibromomethane	0.130 0.125	0.145	0.149	0.166	0.172	0.166	AVRG		0.151		12.2	
1,2-Dichloropropane	0.194 0.200	0.226	0.217	0.245	0.257	0.245	AVRG		0.226		10.6	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 6 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	3592 7191	47880	189702	593498	1172803	2408792	WLINR	0.011	3.15		0.998	
Methyl methacrylate	0.136 0.162	0.172	0.171	0.197	0.213	0.203	AVRG		0.179		14.8	
1,4-Dioxane	0.004 0.003	0.004	0.003	0.004	0.004	0.003	AVRG		0.004		8.24	
2-Chloroethylvinyl ether	1903 3719	23423	95250	300617	612756	1290655	WLINR	0.012	5.99		0.997	
cis-1,3-Dichloropropene	4396 10566	57636	247573	767185	1499905	3091062	WLINR	0.009	0.980		0.999	
Octane	0.381 0.308	0.356	0.362	0.384	0.410	0.381	AVRG		0.369		8.64	
Toluene	1.73 1.41	1.46	1.37	1.56	1.55	1.47	AVRG		1.51		7.88	
Chloroacetonitrile	0.037 0.030	0.033	0.035	0.044	0.044	0.040	AVRG		0.038		13.5	
2-Nitropropane	3617 7049	42330	186383	593939	1224339	2564073	WLINR	0.062	6.01		0.997	
1,1-Dichloro-2-Propanone	307 649	4269	18693	56995	120735	244954	WLINR	0.065	62.2		0.997	
4-Methyl-2-Pentanone(MIBK)	15196 29113	187763	770302	2330999	4540988	8734882	WLINR	0.034	1.68		0.997	
trans-1,3-Dichloropropene	4340 8929	54063	223814	694418	1390540	2883334	WLINR	0.010	1.06		0.998	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 7 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Tetrachloroethene	0.500	0.491	0.554	0.529	0.591	0.602	0.571	AVRG		0.548		7.93	
Ethyl Methacrylate	3766	8256	51147	223797	687236	1354483	2747208	WLINR	0.011	1.10		0.998	
1,1,2-Trichloroethane	0.376	0.441	0.466	0.457	0.514	0.508	0.476	AVRG		0.463		9.98	
Chlorodibromomethane	2392	5551	36996	154197	487189	980105	2002816	WLINR	0.012	1.51		0.998	
1,3-Dichloropropane	0.755	0.805	0.901	0.922	1.03	1.03	0.959	AVRG		0.914		11.4	
1,2-Dibromoethane	2751	6550	39025	153645	464742	921715	1854429	WLINR	0.008	1.62		0.999	
2-Hexanone	9727	21128	125367	515146	1586898	3096661	6043549	WLINR	0.037	2.44		0.997	
1-Chlorohexane	0.765	0.588	0.806	0.753	0.876	0.906	0.850	AVRG		0.792		13.4	
Chlorobenzene	1.35	1.32	1.54	1.50	1.69	1.71	1.63	AVRG		1.53		10.1	
Ethylbenzene	9240	13774	58271	219414	661770	1327438	2724522	WLINR	-0.004	1.12		0.999	
1,1,1,2-Tetrachloroethane	2323	4988	34773	142310	438151	867838	1749666	WLINR	0.011	1.72		0.998	
mp-Xylene	30052	36347	154227	535925	1603689	3168696	6367993	WLINR	-0.026	0.946		0.998	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 8 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
o-Xylene	1.26 0.946	0.920	0.903	1.05	1.06	1.00	AVRG		1.02		12.1	
Styrene	7432 15866	91709	391500	1227060	2454318	4976988	WLINR	0.010	0.560		0.998	
Bromoform	2337 3823	22861	102722	330003	690099	1437569	WLINR	0.012	1.98		0.996	
Isopropylbenzene	13069 26101	150199	566222	1751429	3465736	6796201	WLINR	0.005	0.403		0.999	
100 1,2-Dichloroethene, Total	0.243 0.253	0.291	0.274	0.309	0.321	0.301	AVRG		0.285		10.2	
Bromobenzene	0.641 0.641	0.707	0.668	0.747	0.787	0.773	AVRG		0.709		8.66	
n-Propylbenzene	0.744 0.602	0.698	0.672	0.764	0.805	0.793	AVRG		0.725		10.0	
1,1,2,2-Tetrachloroethane	0.581 0.580	0.693	0.706	0.776	0.804	0.795	AVRG		0.705		13.5	
o-Chlorotoluene	1.71 1.69	1.90	1.81	2.02	2.13	2.10	AVRG		1.91		9.40	
1,3,5-Trimethylbenzene	2.01 1.77	1.95	1.88	2.11	2.24	2.17	AVRG		2.02		8.23	
1,2,3-Trichloropropane	0.176 0.217	0.232	0.226	0.242	0.253	0.247	AVRG		0.227		11.4	
trans-1,4-Dichloro-2-butene	1054 1628	11562	47099	149889	297095	609147	WLINR	0.010	4.60		0.998	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Form 6 Initial Calibration Data

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 9 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
p-Chlorotoluene	1.61	1.47	1.74	1.66	1.85	1.91	1.87	AVRG		1.73		9.23	
tert-Butylbenzene	0.416	0.378	0.501	0.481	0.528	0.544	0.531	AVRG		0.483		13.1	
Pentachloroethane	2125	4178	25931	104294	332675	667170	1367796	WLINR	0.010	2.05		0.998	
1,2,4-Trimethylbenzene	20714	27718	132392	488792	1510193	2964649	5884390	WLINR	-0.005	0.469		0.999	
sec-Butylbenzene	2.25	2.04	2.55	2.43	2.70	2.82	2.66	AVRG		2.49		11.0	
p-Isopropyltoluene	0.480	0.478	0.583	0.554	0.617	0.655	0.632	AVRG		0.571		12.4	
1,3-Dichlorobenzene	1.00	1.10	1.20	1.14	1.28	1.33	1.31	AVRG		1.19		10.0	
1,4-Dichlorobenzene	1.18	1.12	1.22	1.17	1.32	1.37	1.36	AVRG		1.25		8.19	
Benzyl Chloride	736	2620	12513	59767	194577	405519	867235	WLINR	0.016	3.32		0.994	
n-Butylbenzene	0.592	0.451	0.496	0.485	0.550	0.585	0.577	AVRG		0.534		10.5	
Hexachloroethane	1752	3087	20694	85914	284589	590317	1225691	WLINR	0.013	2.32		0.996	
1,2-Dichlorobenzene	0.945	1.03	1.12	1.10	1.22	1.27	1.27	AVRG		1.14		11.0	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Form 6 Initial Calibration Data

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 10 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,2-Dibromo-3-chloropropane	380 1191	6452	27852	86909	187226	386483	WLINR	0.014	7.36		0.996	
Nitrobenzene	1713 3058	15593	74725	289112	699975	1663438	QUAD	0.000e+000	0.039	0.000	0.999	
Hexachlorobutadiene	1952 2971	21249	82540	257277	520622	1058167	WLINR	0.008	2.64		0.998	
120 1,3-Dichloropropene, Total	8736 19495	111699	471387	1461603	2890445	5974396	WLINR	0.019	1.02		0.999	
1,2,4-Trichlorobenzene	0.674 0.641	0.693	0.697	0.816	0.878	0.878	AVRG		0.754		13.3	
121 Total Xylenes	38742 49625	219745	785145	2376968	4684805	9434263	WLINR	-0.027	0.958		0.998	
Naphthalene	10056 18088	109460	463248	1514181	3095315	6235557	WLINR	0.011	0.448		0.997	
1,2,3-Trichlorobenzene	3948 7150	45198	178753	573042	1155326	2411703	WLINR	0.010	1.17		0.997	
41 Dibromofluoromethane	0.230 0.233	0.243	0.235	0.237	0.242	0.236	AVRG		0.237		2.04	
51 1,2-Dichloroethane-d4	0.258 0.252	0.264	0.250	0.241	0.250	0.232	AVRG		0.250		4.18	
68 Toluene-d8	2.47 2.39	2.46	2.43	2.35	2.34	2.19	AVRG		2.38		4.06	
92 4-Bromofluorobenzene	0.858 0.818	0.847	0.853	0.782	0.857	0.795	AVRG		0.830		3.81	

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 8260D

Workorder

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Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

8260D

RunID 25240625_2524062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	20.0	20.7	103	80-120	
Chloromethane	20.0	19.5	97.7	80-120	
Vinyl Chloride	20.0	20.4	102	80-120	
Bromomethane	20.0	20.3	102	80-120	
Chloroethane	20.0	21.2	106	80-120	
Pentane	20.0	20.7	104	80-120	
Trichlorofluoromethane	20.0	20.4	102	80-120	
Dichlorofluoromethane	20.0	23.2	116	80-120	
Ethyl Ether	20.0	21.6	108	80-120	
1,1-Dichloroethene	20.0	22.8	114	80-120	
Freon 113	20.0	22.8	114	80-120	
Carbon Disulfide	20.0	21.7	108	80-120	
Iodomethane	20.0	16.8	84.0	80-120	
Acrolein	150	159	106	80-120	
Isopropyl Alcohol	100	103	103	80-120	
3-Chloro-1-propene	20.0	22.9	115	80-120	
Methylene Chloride	20.0	22.3	111	80-120	
Acetone	100	107	107	80-120	
Methyl acetate	20.0	21.2	106	80-120	
trans-1,2-Dichloroethene	20.0	23.0	115	80-120	
Hexane	20.0	20.9	105	80-120	
Methyl t-Butyl Ether	20.0	20.7	103	80-120	
tert.- Butyl Alcohol	100	112	112	80-120	
Acetonitrile	100	111	111	80-120	
Diisopropyl ether	20.0	22.5	113	80-120	
Chloroprene	20.0	22.9	114	80-120	
1,1-Dichloroethane	20.0	22.6	113	80-120	
Acrylonitrile	100	114	114	80-120	
Ethyl tert-butyl ether	20.0	23.2	116	80-120	
n-Propanol	200	208	104	80-120	
Vinyl acetate	20.0	18.9	94.5	80-120	
cis-1,2-Dichloroethene	20.0	22.6	113	80-120	
2,2-Dichloropropane	20.0	20.5	103	80-120	
Bromochloromethane	20.0	23.4	117	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

8260D

RunID 25240625_2524062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	20.0	22.6	113	80-120	
Chloroform	20.0	22.8	114	80-120	
Ethyl acetate	20.0	20.0	99.9	80-120	
Methyl acrylate	20.0	22.6	113	80-120	
Carbon Tetrachloride	20.0	19.7	98.3	80-120	
Tetrahydrofuran	100	106	106	80-120	
1,1,1-Trichloroethane	20.0	23.6	118	80-120	
2-Butanone	100	110	110	80-120	
1,1-Dichloropropene	20.0	22.3	112	80-120	
1-Chlorobutane	20.0	21.5	107	80-120	
Heptane	20.0	20.9	104	80-120	
Benzene	20.0	21.5	108	80-120	
Propionitrile	100	111	111	80-120	
Methacrylonitrile	20.0	22.2	111	80-120	
tert-amyl methyl E	20.0	23.0	115	80-120	
1,2-Dichloroethane	20.0	21.8	109	80-120	
tert-Amyl Alcohol	100	114	114	80-120	
Isobutyl alcohol	200	164	81.8	80-120	
Diisobutylene	20.0	20.4	102	80-120	
Trichloroethene	20.0	21.8	109	80-120	
Methyl cyclohexane	20.0	21.9	110	80-120	
tert-Amyl Ethylether	20.0	19.7	98.5	80-120	
Dibromomethane	20.0	22.3	112	80-120	
1,2-Dichloropropane	20.0	22.4	112	80-120	
Bromodichloromethane	20.0	20.4	102	80-120	
Methyl methacrylate	20.0	22.0	110	80-120	
1,4-Dioxane	500	0.000		80-120	*
2-Chloroethylvinyl ether	20.0	19.9	99.7	80-120	
cis-1,3-Dichloropropene	20.0	19.6	98.0	80-120	
Octane	20.0	22.0	110	80-120	
Toluene	20.0	21.0	105	80-120	
Chloroacetonitrile	100	117	117	80-120	
2-Nitropropane	100	93.1	93.1	80-120	
1,1-Dichloro-2-pro	100	97.1	97.1	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

8260D

RunID 25240625_2524062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	100	110	110	80-120	
Tetrachloroethene	20.0	22.0	110	80-120	
trans-1,3-Dichloropropene	20.0	20.0	100	80-120	
Ethyl methacrylate	20.0	19.8	99.0	80-120	
1,1,2-Trichloroethane	20.0	22.3	111	80-120	
Chlorodibromomethane	20.0	19.4	97.2	80-120	
1,3-Dichloropropane	20.0	22.8	114	80-120	
1,2-Dibromoethane	20.0	20.1	101	80-120	
2-Hexanone	100	108	108	80-120	
1-Chlorohexane	20.0	22.6	113	80-120	
Chlorobenzene	20.0	21.9	110	80-120	
Ethylbenzene	20.0	20.9	104	80-120	
1,1,1,2-Tetrachloroethane	20.0	20.2	101	80-120	
mp-Xylene	40.0	41.2	103	80-120	
o-Xylene	20.0	20.3	102	80-120	
Styrene	20.0	21.1	106	80-120	
Bromoform	20.0	18.5	92.7	80-120	
Isopropylbenzene	20.0	23.7	119	80-120	
Bromobenzene	20.0	21.4	107	80-120	
n-Propylbenzene	20.0	21.8	109	80-120	
1,1,2,2-Tetrachloroethane	20.0	22.5	112	80-120	
o-Chlorotoluene	20.0	21.9	109	80-120	
1,3,5-Trimethylbenzene	20.0	21.6	108	80-120	
1,2,3-Trichloropropane	20.0	22.1	110	80-120	
trans-1,4-Dichloro-2-butene	20.0	19.7	98.7	80-120	
1,2-Dichloroethene, Total	40.0	45.5	114	80-120	
p-Chlorotoluene	20.0	22.1	110	80-120	
tert-Butylbenzene	20.0	22.7	113	80-120	
Pentachloroethane	20.0	17.9	89.4	80-120	
1,2,4-Trimethylbenzene	20.0	20.6	103	80-120	
sec-Butylbenzene	20.0	22.8	114	80-120	
p-Isopropyltoluene	20.0	21.9	110	80-120	
1,3-Dichlorobenzene	20.0	22.3	112	80-120	
1,4-Dichlorobenzene	20.0	21.9	109	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240625_2524062515ICVQ.D

8260D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	20.0	16.0	80.2	80-120	
n-Butylbenzene	20.0	21.4	107	80-120	
Hexachloroethane	20.0	18.6	93.2	80-120	
1,2-Dichlorobenzene	20.0	22.3	112	80-120	
1,2-Dibromo-3-chloropropane	20.0	18.2	91.2	80-120	
Nitrobenzene	200	166	82.9	80-120	
Hexachlorobutadiene	20.0	21.0	105	80-120	
1,2,4-Trichlorobenzene	20.0	23.4	117	80-120	
Naphthalene	20.0	19.8	99.1	80-120	
1,2,3-Trichlorobenzene	20.0	19.3	96.6	80-120	
1,3-Dichloropropene, Total	40.0	39.6	99.1	80-120	
121 TOTAL XYLENES	60.0	61.5	103	80-120	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260D

Workorder

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Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240627A_2524062751.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062751.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 27-JUN-2024 1908
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	0.332	0.299	0.299	0.010	-10.060	20.0	Averaged	
Chloromethane	50.0	50.8	3.39	0.100	1.69	20.0	Wt Linear	
Vinyl Chloride	0.375	0.357	0.357	0.010	-4.823	20.0	Averaged	
Bromomethane	50.0	54.0	5.16	0.010	8.06	20.0	Wt Linear	
Chloroethane	50.0	50.1	3.93	0.010	0.296	20.0	Wt Linear	
Pentane	50.0	40.9	5.20	0.010	-18.206	20.0	Wt Linear	
Trichlorofluoromethane	0.514	0.464	0.464	0.010	-9.641	20.0	Averaged	
Dichlorofluoromethane	0.476	0.505	0.505	0.010	6.25	20.0	Averaged	
Ethyl Ether	0.145	0.156	0.156	0.010	7.92	20.0	Averaged	
1,1-Dichloroethene	0.289	0.291	0.291	0.010	0.730	20.0	Averaged	
Carbon Disulfide	0.623	0.651	0.651	0.010	4.52	20.0	Averaged	
Freon 113	0.203	0.187	0.187	0.010	-7.756	20.0	Averaged	
Iodomethane	50.0	52.3	8.55	0.010	4.50	20.0	Wt Linear	
Acrolein	0.047	0.049	0.049	0.000	5.62	20.0	Averaged	
3-Chloro-1-propene	50.0	50.6	3.93	0.010	1.22	20.0	Wt Linear	
Isopropyl Alcohol	250	237	69.3	0.000	-5.181	20.0	Wt Linear	
Methylene Chloride	0.236	0.250	0.250	0.010	6.20	20.0	Averaged	
Acetone	0.026	0.025	0.025	0.000	-3.257	20.0	Averaged	
Methyl acetate	50.0	49.7	18.7	0.005	-0.552	20.0	Wt Linear	
trans-1,2-Dichloroethene	0.283	0.305	0.305	0.010	7.75	20.0	Averaged	
Hexane	50.0	44.9	2.37	0.010	-10.267	20.0	Wt Linear	
Methyl t-Butyl Ether	50.0	50.0	1.38	0.010	0.078	20.0	Wt Linear	
tert.- Butyl Alcohol	0.026	0.027	0.027	0.000	2.63	20.0	Averaged	
Acetonitrile	0.029	0.030	0.030	0.000	2.55	20.0	Averaged	
Diisopropyl ether	0.627	0.695	0.695	0.010	10.8	20.0	Averaged	
Chloroprene	0.318	0.341	0.341	0.010	7.26	20.0	Averaged	
1,1-Dichloroethane	0.385	0.426	0.426	0.100	10.7	20.0	Averaged	
Acrylonitrile	0.100	0.106	0.106	0.000	5.75	20.0	Averaged	
n-Propanol	0.012	0.012	0.012	0.000	-0.698	20.0	Averaged	
Ethyl tert-butyl ether	0.666	0.743	0.743	0.010	11.5	20.0	Averaged	
Vinyl Acetate	50.0	48.7	15.6	0.010	-2.535	20.0	Wt Linear	
cis-1,2-Dichloroethene	0.287	0.308	0.308	0.010	7.34	20.0	Averaged	
2,2-Dichloropropane	0.307	0.346	0.346	0.010	12.8	20.0	Averaged	
100 1,2-Dichloroethene, Total	0.285	0.306	0.306	0.010	7.54	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240627A_2524062751.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062751.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 27-JUN-2024 1908
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromochloromethane	0.124	0.135	0.135	0.010	9.53	20.0	Averaged	
Cyclohexane	0.344	0.308	0.308	0.010	-10.505	20.0	Averaged	
Chloroform	0.416	0.446	0.446	0.010	7.18	20.0	Averaged	
Ethyl Acetate	50.0	48.2	4.16	0.010	-3.573	20.0	Wt Linear	
Methyl acrylate	0.231	0.241	0.241	0.010	4.46	20.0	Averaged	
Carbon Tetrachloride	50.0	44.8	3.66	0.010	-10.450	20.0	Wt Linear	
Tetrahydrofuran	0.071	0.071	0.071	0.000	0.522	20.0	Averaged	
41 Dibromofluoromethane	0.237	0.220	0.220	0.010	-6.945	20.0	Averaged	
1,1,1-Trichloroethane	0.324	0.343	0.343	0.010	6.02	20.0	Averaged	
2-Butanone	0.034	0.035	0.035	0.000	3.40	20.0	Averaged	
1,1-Dichloropropene	0.306	0.315	0.315	0.010	2.91	20.0	Averaged	
1-Chlorobutane	0.197	0.189	0.189	0.010	-3.742	20.0	Averaged	
Heptane	0.178	0.160	0.160	0.000	-10.218	20.0	Averaged	
Propionitrile	0.038	0.040	0.040	0.000	5.27	20.0	Averaged	
Benzene	0.941	0.970	0.970	0.010	3.08	20.0	Averaged	
Methacrylonitrile	0.114	0.118	0.118	0.010	4.06	20.0	Averaged	
tert-Amyl methyl ether	0.643	0.694	0.694	0.010	7.93	20.0	Averaged	
51 1,2-Dichloroethane-d4	0.250	0.237	0.237	0.010	-5.036	20.0	Averaged	
Isobutyl alcohol	500	499	173	0.000	-0.150	20.0	Wt Linear	
1,2-Dichloroethane	0.296	0.309	0.309	0.010	4.46	20.0	Averaged	
tert-Amyl Alcohol	0.020	0.020	0.020	0.002	0.413	20.0	Averaged	
Diisobutylene	50.0	40.4	2.12	0.010	-19.286	20.0	Wt Linear	
Trichloroethene	0.238	0.245	0.245	0.010	2.72	20.0	Averaged	
Methyl cyclohexane	0.973	0.848	0.848	0.005	-12.807	20.0	Averaged	
tert-Amyl Ethylether	50.0	50.6	1.76	0.010	1.28	20.0	Wt Linear	
Dibromomethane	0.151	0.161	0.161	0.010	7.23	20.0	Averaged	
1,2-Dichloropropane	0.226	0.244	0.244	0.010	7.61	20.0	Averaged	
Bromodichloromethane	50.0	47.7	3.33	0.010	-4.559	20.0	Wt Linear	
Methyl methacrylate	0.179	0.193	0.193	0.010	7.90	20.0	Averaged	
2-Chloroethylvinyl ether	50.0	48.4	6.24	0.010	-3.195	20.0	Wt Linear	
cis-1,3-Dichloropropene	50.0	50.7	0.972	0.010	1.32	20.0	Wt Linear	
Octane	0.369	0.388	0.388	0.010	5.18	20.0	Averaged	
68 Toluene-d8	2.38	2.19	2.19	0.010	-7.634	20.0	Averaged	
Toluene	1.51	1.49	1.49	0.010	-0.982	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240627A_2524062751.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062751.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 27-JUN-2024 1908
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroacetonitrile	0.038	0.039	0.039	0.000	3.22	20.0	Averaged	
2-Nitropropane	250	233	6.51	0.005	-6.925	20.0	Wt Linear	
1,1-Dichloro-2-Propanone	250	228	68.7	0.001	-8.749	20.0	Wt Linear	
4-Methyl-2-Pentanone(MIBK)	250	256	1.64	0.010	2.54	20.0	Wt Linear	
trans-1,3-Dichloropropene	50.0	49.0	1.09	0.010	-2.045	20.0	Wt Linear	
Tetrachloroethene	0.548	0.531	0.531	0.010	-3.159	20.0	Averaged	
Ethyl Methacrylate	50.0	50.0	1.10	0.010	0.027	20.0	Wt Linear	
1,1,2-Trichloroethane	0.463	0.490	0.490	0.010	6.04	20.0	Averaged	
Chlorodibromomethane	50.0	47.4	1.61	0.010	-5.180	20.0	Wt Linear	
1,3-Dichloropropane	0.914	0.986	0.986	0.010	7.86	20.0	Averaged	
1,2-Dibromoethane	50.0	49.0	1.66	0.010	-2.014	20.0	Wt Linear	
2-Hexanone	250	254	2.42	0.010	1.47	20.0	Wt Linear	
1-Chlorohexane	0.792	0.757	0.757	0.010	-4.403	20.0	Averaged	
Ethylbenzene	50.0	47.9	1.16	0.010	-4.281	20.0	Wt Linear	
Chlorobenzene	1.53	1.62	1.62	0.300	5.51	20.0	Averaged	
1,1,1,2-Tetrachloroethane	50.0	48.3	1.79	0.010	-3.440	20.0	Wt Linear	
mp-Xylene	100	96.3	0.975	0.010	-3.717	20.0	Wt Linear	
120 1,3-Dichloropropene, Total	100	100	1.03	0.010	-0.360	20.0	Wt Linear	
o-Xylene	1.02	0.987	0.987	0.010	-3.369	20.0	Averaged	
Styrene	50.0	51.5	0.547	0.010	3.02	20.0	Wt Linear	
Bromoform	50.0	47.2	2.11	0.100	-5.506	20.0	Wt Linear	
Isopropylbenzene	50.0	50.5	0.401	0.010	0.944	20.0	Wt Linear	
92 4-Bromofluorobenzene	0.830	0.794	0.794	0.010	-4.317	20.0	Averaged	
121 Total Xylenes	150	145	0.987	0.010	-3.601	20.0	Wt Linear	
n-Propylbenzene	0.725	0.776	0.776	0.010	6.95	20.0	Averaged	
Bromobenzene	0.709	0.789	0.789	0.010	11.2	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.705	0.801	0.801	0.300	13.7	20.0	Averaged	
1,3,5-Trimethylbenzene	2.02	2.18	2.18	0.010	8.04	20.0	Averaged	
o-Chlorotoluene	1.91	2.12	2.12	0.010	11.1	20.0	Averaged	
1,2,3-Trichloropropane	0.227	0.249	0.249	0.010	9.68	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	51.1	4.52	0.010	2.22	20.0	Wt Linear	
p-Chlorotoluene	1.73	1.96	1.96	0.010	13.1	20.0	Averaged	
tert-Butylbenzene	0.483	0.519	0.519	0.010	7.58	20.0	Averaged	
Pentachloroethane	50.0	51.0	2.02	0.010	1.96	20.0	Wt Linear	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240627A_2524062751.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062751.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 27-JUN-2024 1908
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2,4-Trimethylbenzene	50.0	51.6	0.453	0.010	3.22	20.0	Wt Linear	
sec-Butylbenzene	2.49	2.66	2.66	0.010	6.46	20.0	Averaged	
p-Isopropyltoluene	0.571	0.610	0.610	0.010	6.76	20.0	Averaged	
1,3-Dichlorobenzene	1.19	1.34	1.34	0.010	12.1	20.0	Averaged	
1,4-Dichlorobenzene	1.25	1.37	1.37	0.010	9.82	20.0	Averaged	
n-Butylbenzene	0.534	0.559	0.559	0.010	4.69	20.0	Averaged	
Benzyl Chloride	50.0	53.1	3.15	0.010	6.17	20.0	Wt Linear	
Hexachloroethane	50.0	45.7	2.56	0.010	-8.595	20.0	Wt Linear	
1,2-Dichlorobenzene	1.14	1.29	1.29	0.010	13.0	20.0	Averaged	
1,2-Dibromo-3-chloropropane	50.0	47.1	7.88	0.010	-5.821	20.0	Wt Linear	
Nitrobenzene	500	459	24.9	0.000	-8.139	20.0	Quadratic	
Hexachlorobutadiene	50.0	50.4	2.63	0.000	0.867	20.0	Wt Linear	
1,2,4-Trichlorobenzene	0.754	0.869	0.869	0.010	15.2	20.0	Averaged	
Naphthalene	50.0	50.3	0.449	0.010	0.547	20.0	Wt Linear	
1,2,3-Trichlorobenzene	50.0	50.0	1.18	0.010	-0.086	20.0	Wt Linear	

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Workorder 3366036

RunID 25240627A_2524062779.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062779.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 0522

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	50.0	33.4	66.8	50-150	
Chloromethane	50.0	46.9	93.8	50-150	
Vinyl Chloride	50.0	40.4	80.7	50-150	
Bromomethane	50.0	51.3	103	50-150	
Chloroethane	50.0	44.3	88.7	50-150	
Pentane	50.0	31.3	62.7	50-150	
Trichlorofluoromethane	50.0	35.7	71.3	50-150	
Dichlorofluoromethane	50.0	47.7	95.4	50-150	
Ethyl Ether	50.0	49.3	98.6	50-150	
1,1-Dichloroethene	50.0	44.2	88.3	50-150	
Freon 113	50.0	38.3	76.6	50-150	
Carbon Disulfide	50.0	43.8	87.6	50-150	
Iodomethane	50.0	44.9	89.9	50-150	
Acrolein	250	235	94.0	50-150	
Isopropyl Alcohol	250	235	94.1	50-150	
3-Chloro-1-propene	50.0	46.1	92.1	50-150	
Methylene Chloride	50.0	48.3	96.6	50-150	
Acetone	250	237	94.9	50-150	
Methyl acetate	50.0	48.0	96.0	50-150	
trans-1,2-Dichloroethene	50.0	47.0	94.1	50-150	
Hexane	50.0	37.1	74.1	50-150	
Methyl t-Butyl Ether	50.0	46.3	92.7	50-150	
tert.- Butyl Alcohol	250	249	99.4	50-150	
Acetonitrile	250	265	106	50-150	
Diisopropyl ether	50.0	51.4	103	50-150	
Chloroprene	50.0	48.6	97.2	50-150	
1,1-Dichloroethane	50.0	49.7	99.4	50-150	
Acrylonitrile	250	259	104	50-150	
n-Propanol	500	482	96.5	50-150	
Ethyl tert-butyl ether	50.0	51.6	103	50-150	
Vinyl acetate	50.0	42.5	85.0	50-150	
cis-1,2-Dichloroethene	50.0	49.9	99.9	50-150	
2,2-Dichloropropane	50.0	43.0	85.9	50-150	
Bromochloromethane	50.0	50.8	102	50-150	

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Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240627A_2524062779.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062779.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 0522

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	50.0	39.0	78.0	50-150	
Chloroform	50.0	48.3	96.7	50-150	
Ethyl acetate	50.0	46.9	93.9	50-150	
Methyl acrylate	50.0	51.3	103	50-150	
Carbon Tetrachloride	50.0	37.7	75.5	50-150	
Tetrahydrofuran	250	255	102	50-150	
1,1,1-Trichloroethane	50.0	46.8	93.7	50-150	
2-Butanone	250	250	99.9	50-150	
1,1-Dichloropropene	50.0	44.5	89.0	50-150	
1-Chlorobutane	50.0	43.5	86.9	50-150	
Heptane	50.0	29.2	58.4	50-150	
Benzene	50.0	46.9	93.8	50-150	
Propionitrile	250	258	103	50-150	
Methacrylonitrile	50.0	51.3	103	50-150	
tert-amyl methyl E	50.0	50.4	101	50-150	
Isobutyl alcohol	500	624	125	50-150	
1,2-Dichloroethane	50.0	48.9	97.8	50-150	
tert-Amyl Alcohol	250	245	98.1	50-150	
Diisobutylene	50.0	34.2	68.3	50-150	
Trichloroethene	50.0	46.3	92.7	50-150	
Methyl cyclohexane	50.0	36.1	72.3	50-150	
tert-Amyl Ethylether	50.0	45.7	91.4	50-150	
Dibromomethane	50.0	51.0	102	50-150	
1,2-Dichloropropane	50.0	50.5	101	50-150	
Bromodichloromethane	50.0	44.8	89.7	50-150	
Methyl methacrylate	50.0	52.3	105	50-150	
1,4-Dioxane	1250	0.000		50-150	*
2-Chloroethylvinyl ether	50.0	44.8	89.6	50-150	
cis-1,3-Dichloropropene	50.0	45.0	89.9	50-150	
Octane	50.0	27.7	55.3	50-150	
Toluene	50.0	43.7	87.5	50-150	
Chloroacetonitrile	250	249	99.6	50-150	
2-Nitropropane	250	222	88.7	50-150	
1,1-Dichloro-2-pro	250	215	86.0	50-150	

Form 7 Continuing Calibration Verification (CCV)

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RunID 25240627A_2524062779.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062779.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 0522

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	250	246	98.6	50-150	
Tetrachloroethene	50.0	44.1	88.2	50-150	
trans-1,3-Dichloropropene	50.0	44.4	88.9	50-150	
Ethyl methacrylate	50.0	46.5	92.9	50-150	
1,1,2-Trichloroethane	50.0	48.8	97.6	50-150	
Chlorodibromomethane	50.0	43.9	87.9	50-150	
1,2-Dibromoethane	50.0	45.9	91.8	50-150	
2-Hexanone	250	243	97.1	50-150	
1-Chlorohexane	50.0	41.4	82.8	50-150	
1,3-Dichloropropane	50.0	50.4	101	50-150	
Chlorobenzene	50.0	48.1	96.2	50-150	
Ethylbenzene	50.0	42.8	85.7	50-150	
1,1,1,2-Tetrachloroethane	50.0	44.7	89.4	50-150	
mp-Xylene	100	86.1	86.1	50-150	
o-Xylene	50.0	43.6	87.2	50-150	
Styrene	50.0	48.6	97.2	50-150	
Bromoform	50.0	44.9	89.8	50-150	
Isopropylbenzene	50.0	45.3	90.6	50-150	
Bromobenzene	50.0	51.2	102	50-150	
n-Propylbenzene	50.0	48.1	96.2	50-150	
1,1,2,2-Tetrachloroethane	50.0	54.6	109	50-150	
o-Chlorotoluene	50.0	50.5	101	50-150	
1,2-Dichloroethene, Total	100	97.0	97.0	50-150	
1,3,5-Trimethylbenzene	50.0	49.1	98.2	50-150	
1,2,3-Trichloropropane	50.0	54.0	108	50-150	
trans-1,4-Dichloro-2-butene	50.0	47.3	94.7	50-150	
p-Chlorotoluene	50.0	51.1	102	50-150	
tert-Butylbenzene	50.0	49.9	99.7	50-150	
Pentachloroethane	50.0	44.4	88.7	50-150	
1,2,4-Trimethylbenzene	50.0	46.7	93.4	50-150	
sec-Butylbenzene	50.0	47.3	94.6	50-150	
p-Isopropyltoluene	50.0	47.3	94.6	50-150	
1,3-Dichlorobenzene	50.0	51.2	102	50-150	
1,4-Dichlorobenzene	50.0	50.2	100	50-150	

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Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240627A_2524062779.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062779.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 0522

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	50.0	39.4	78.7	50-150	
n-Butylbenzene	50.0	44.1	88.2	50-150	
Hexachloroethane	50.0	42.1	84.2	50-150	
1,2-Dichlorobenzene	50.0	51.8	104	50-150	
1,2-Dibromo-3-chloropropane	50.0	45.9	91.8	50-150	
Nitrobenzene	500	453	90.7	50-150	
Hexachlorobutadiene	50.0	36.0	72.1	50-150	
1,2,4-Trichlorobenzene	50.0	49.8	99.6	50-150	
Naphthalene	50.0	46.7	93.5	50-150	
1,3-Dichloropropene, Total	100	89.4	89.4	50-150	
1,2,3-Trichlorobenzene	50.0	44.2	88.4	50-150	
121 TOTAL XYLENES	150	130	86.4	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	0.332	0.302	0.302	0.010	-8.879	20.0	Averaged	
Chloromethane	50.0	49.7	3.47	0.100	-0.611	20.0	Wt Linear	
Vinyl Chloride	0.375	0.360	0.360	0.010	-4.127	20.0	Averaged	
Bromomethane	50.0	53.3	5.23	0.010	6.60	20.0	Wt Linear	
Chloroethane	50.0	47.7	4.13	0.010	-4.558	20.0	Wt Linear	
Pentane	50.0	42.7	4.99	0.010	-14.592	20.0	Wt Linear	
Trichlorofluoromethane	0.514	0.484	0.484	0.010	-5.829	20.0	Averaged	
Dichlorofluoromethane	0.476	0.485	0.485	0.010	1.99	20.0	Averaged	
Ethyl Ether	0.145	0.150	0.150	0.010	3.69	20.0	Averaged	
1,1-Dichloroethene	0.289	0.281	0.281	0.010	-2.585	20.0	Averaged	
Carbon Disulfide	0.623	0.613	0.613	0.010	-1.488	20.0	Averaged	
Freon 113	0.203	0.195	0.195	0.010	-4.043	20.0	Averaged	
Iodomethane	50.0	49.3	9.06	0.010	-1.320	20.0	Wt Linear	
Acrolein	0.047	0.046	0.046	0.000	-2.012	20.0	Averaged	
3-Chloro-1-propene	50.0	48.7	4.08	0.010	-2.589	20.0	Wt Linear	
Isopropyl Alcohol	250	260	63.2	0.000	4.10	20.0	Wt Linear	
Methylene Chloride	0.236	0.240	0.240	0.010	2.01	20.0	Averaged	
Acetone	0.026	0.025	0.025	0.000	-4.078	20.0	Averaged	
Methyl acetate	50.0	47.2	19.7	0.005	-5.627	20.0	Wt Linear	
trans-1,2-Dichloroethene	0.283	0.291	0.291	0.010	3.10	20.0	Averaged	
Hexane	50.0	47.2	2.25	0.010	-5.689	20.0	Wt Linear	
Methyl t-Butyl Ether	50.0	48.8	1.41	0.010	-2.310	20.0	Wt Linear	
tert.- Butyl Alcohol	0.026	0.027	0.027	0.000	1.79	20.0	Averaged	
Acetonitrile	0.029	0.031	0.031	0.000	6.86	20.0	Averaged	
Diisopropyl ether	0.627	0.672	0.672	0.010	7.17	20.0	Averaged	
Chloroprene	0.318	0.339	0.339	0.010	6.60	20.0	Averaged	
1,1-Dichloroethane	0.385	0.403	0.403	0.100	4.63	20.0	Averaged	
Acrylonitrile	0.100	0.109	0.109	0.000	8.82	20.0	Averaged	
n-Propanol	0.012	0.012	0.012	0.000	-0.496	20.0	Averaged	
Ethyl tert-butyl ether	0.666	0.723	0.723	0.010	8.53	20.0	Averaged	
Vinyl Acetate	50.0	46.7	16.3	0.010	-6.686	20.0	Wt Linear	
cis-1,2-Dichloroethene	0.287	0.298	0.298	0.010	3.96	20.0	Averaged	
2,2-Dichloropropane	0.307	0.313	0.313	0.010	1.98	20.0	Averaged	
100 1,2-Dichloroethene, Total	0.285	0.295	0.295	0.010	3.53	20.0	Averaged	

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Project AHH133|HS24061218

Workorder 3366036

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromochloromethane	0.124	0.130	0.130	0.010	5.53	20.0	Averaged	
Cyclohexane	0.344	0.333	0.333	0.010	-3.269	20.0	Averaged	
Chloroform	0.416	0.421	0.421	0.010	1.18	20.0	Averaged	
Ethyl Acetate	50.0	48.1	4.17	0.010	-3.868	20.0	Wt Linear	
Methyl acrylate	0.231	0.242	0.242	0.010	4.96	20.0	Averaged	
Carbon Tetrachloride	50.0	43.2	3.79	0.010	-13.502	20.0	Wt Linear	
Tetrahydrofuran	0.071	0.073	0.073	0.000	3.00	20.0	Averaged	
41 Dibromofluoromethane	0.237	0.231	0.231	0.010	-2.368	20.0	Averaged	
1,1,1-Trichloroethane	0.324	0.332	0.332	0.010	2.45	20.0	Averaged	
2-Butanone	0.034	0.034	0.034	0.000	-0.537	20.0	Averaged	
1,1-Dichloropropene	0.306	0.310	0.310	0.010	1.39	20.0	Averaged	
1-Chlorobutane	0.197	0.192	0.192	0.010	-2.569	20.0	Averaged	
Heptane	0.178	0.170	0.170	0.000	-4.544	20.0	Averaged	
Propionitrile	0.038	0.041	0.041	0.000	8.82	20.0	Averaged	
Benzene	0.941	0.927	0.927	0.010	-1.505	20.0	Averaged	
Methacrylonitrile	0.114	0.120	0.120	0.010	5.09	20.0	Averaged	
tert-Amyl methyl ether	0.643	0.696	0.696	0.010	8.28	20.0	Averaged	
51 1,2-Dichloroethane-d4	0.250	0.241	0.241	0.010	-3.351	20.0	Averaged	
Isobutyl alcohol	500	518	167	0.000	3.63	20.0	Wt Linear	
1,2-Dichloroethane	0.296	0.303	0.303	0.010	2.58	20.0	Averaged	
tert-Amyl Alcohol	0.020	0.021	0.021	0.002	3.10	20.0	Averaged	
Diisobutylene	50.0	46.3	1.86	0.010	-7.457	20.0	Wt Linear	
Trichloroethene	0.238	0.240	0.240	0.010	0.953	20.0	Averaged	
Methyl cyclohexane	0.973	0.964	0.964	0.005	-0.977	20.0	Averaged	
tert-Amyl Ethylether	50.0	48.6	1.83	0.010	-2.709	20.0	Wt Linear	
Dibromomethane	0.151	0.158	0.158	0.010	5.09	20.0	Averaged	
1,2-Dichloropropane	0.226	0.237	0.237	0.010	4.87	20.0	Averaged	
Bromodichloromethane	50.0	46.6	3.41	0.010	-6.786	20.0	Wt Linear	
Methyl methacrylate	0.179	0.194	0.194	0.010	8.44	20.0	Averaged	
2-Chloroethylvinyl ether	50.0	46.7	6.46	0.010	-6.596	20.0	Wt Linear	
cis-1,3-Dichloropropene	50.0	49.7	0.992	0.010	-0.656	20.0	Wt Linear	
Octane	0.369	0.376	0.376	0.010	1.88	20.0	Averaged	
68 Toluene-d8	2.38	2.35	2.35	0.010	-0.993	20.0	Averaged	
Toluene	1.51	1.46	1.46	0.010	-2.952	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroacetonitrile	0.038	0.039	0.039	0.000	4.84	20.0	Averaged	
2-Nitropropane	250	236	6.42	0.005	-5.570	20.0	Wt Linear	
1,1-Dichloro-2-Propanone	250	240	65.2	0.001	-3.900	20.0	Wt Linear	
4-Methyl-2-Pentanone(MIBK)	250	260	1.62	0.010	4.00	20.0	Wt Linear	
trans-1,3-Dichloropropene	50.0	48.6	1.09	0.010	-2.794	20.0	Wt Linear	
Tetrachloroethene	0.548	0.546	0.546	0.010	-0.447	20.0	Averaged	
Ethyl Methacrylate	50.0	49.9	1.10	0.010	-0.236	20.0	Wt Linear	
1,1,2-Trichloroethane	0.463	0.495	0.495	0.010	6.99	20.0	Averaged	
Chlorodibromomethane	50.0	47.2	1.62	0.010	-5.589	20.0	Wt Linear	
1,3-Dichloropropane	0.914	0.994	0.994	0.010	8.79	20.0	Averaged	
1,2-Dibromoethane	50.0	48.5	1.67	0.010	-2.917	20.0	Wt Linear	
2-Hexanone	250	256	2.39	0.010	2.48	20.0	Wt Linear	
1-Chlorohexane	0.792	0.824	0.824	0.010	4.07	20.0	Averaged	
Ethylbenzene	50.0	47.4	1.18	0.010	-5.139	20.0	Wt Linear	
Chlorobenzene	1.53	1.60	1.60	0.300	4.58	20.0	Averaged	
1,1,1,2-Tetrachloroethane	50.0	47.8	1.81	0.010	-4.476	20.0	Wt Linear	
mp-Xylene	100	96.9	0.969	0.010	-3.103	20.0	Wt Linear	
120 1,3-Dichloropropene, Total	100	98.3	1.04	0.010	-1.725	20.0	Wt Linear	
o-Xylene	1.02	0.985	0.985	0.010	-3.560	20.0	Averaged	
Styrene	50.0	49.2	0.572	0.010	-1.545	20.0	Wt Linear	
Bromoform	50.0	45.1	2.21	0.100	-9.774	20.0	Wt Linear	
Isopropylbenzene	50.0	49.5	0.408	0.010	-1.025	20.0	Wt Linear	
92 4-Bromofluorobenzene	0.830	0.810	0.810	0.010	-2.393	20.0	Averaged	
121 Total Xylenes	150	145	0.984	0.010	-3.255	20.0	Wt Linear	
n-Propylbenzene	0.725	0.754	0.754	0.010	3.94	20.0	Averaged	
Bromobenzene	0.709	0.735	0.735	0.010	3.64	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.705	0.770	0.770	0.300	9.18	20.0	Averaged	
1,3,5-Trimethylbenzene	2.02	2.13	2.13	0.010	5.40	20.0	Averaged	
o-Chlorotoluene	1.91	2.05	2.05	0.010	7.37	20.0	Averaged	
1,2,3-Trichloropropane	0.227	0.242	0.242	0.010	6.49	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	49.0	4.72	0.010	-1.967	20.0	Wt Linear	
p-Chlorotoluene	1.73	1.86	1.86	0.010	7.54	20.0	Averaged	
tert-Butylbenzene	0.483	0.516	0.516	0.010	6.94	20.0	Averaged	
Pentachloroethane	50.0	48.0	2.15	0.010	-3.906	20.0	Wt Linear	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2,4-Trimethylbenzene	50.0	49.6	0.472	0.010	-0.882	20.0	Wt Linear	
sec-Butylbenzene	2.49	2.71	2.71	0.010	8.57	20.0	Averaged	
p-Isopropyltoluene	0.571	0.617	0.617	0.010	7.98	20.0	Averaged	
1,3-Dichlorobenzene	1.19	1.26	1.26	0.010	5.45	20.0	Averaged	
1,4-Dichlorobenzene	1.25	1.29	1.29	0.010	3.57	20.0	Averaged	
n-Butylbenzene	0.534	0.561	0.561	0.010	5.06	20.0	Averaged	
Benzyl Chloride	50.0	45.9	3.65	0.010	-8.113	20.0	Wt Linear	
Hexachloroethane	50.0	44.6	2.62	0.010	-10.770	20.0	Wt Linear	
1,2-Dichlorobenzene	1.14	1.21	1.21	0.010	5.89	20.0	Averaged	
1,2-Dibromo-3-chloropropane	50.0	46.8	7.93	0.010	-6.458	20.0	Wt Linear	
Nitrobenzene	500	446	25.7	0.000	-10.731	20.0	Quadratic	
Hexachlorobutadiene	50.0	47.6	2.79	0.000	-4.752	20.0	Wt Linear	
1,2,4-Trichlorobenzene	0.754	0.822	0.822	0.010	9.10	20.0	Averaged	
Naphthalene	50.0	47.3	0.477	0.010	-5.351	20.0	Wt Linear	
1,2,3-Trichlorobenzene	50.0	46.6	1.27	0.010	-6.879	20.0	Wt Linear	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	50.0	45.7	91.4	50-150	
Chloromethane	50.0	50.1	100	50-150	
Vinyl Chloride	50.0	47.3	94.7	50-150	
Bromomethane	50.0	57.6	115	50-150	
Chloroethane	50.0	47.5	95.1	50-150	
Pentane	50.0	38.5	77.1	50-150	
Trichlorofluoromethane	50.0	45.8	91.7	50-150	
Dichlorofluoromethane	50.0	49.6	99.2	50-150	
Ethyl Ether	50.0	50.1	100	50-150	
1,1-Dichloroethene	50.0	47.8	95.6	50-150	
Freon 113	50.0	45.4	90.8	50-150	
Carbon Disulfide	50.0	47.1	94.2	50-150	
Iodomethane	50.0	45.4	90.9	50-150	
Acrolein	250	230	92.0	50-150	
Isopropyl Alcohol	250	248	99.3	50-150	
3-Chloro-1-propene	50.0	46.8	93.6	50-150	
Methylene Chloride	50.0	48.9	97.9	50-150	
Acetone	250	236	94.2	50-150	
Methyl acetate	50.0	46.6	93.2	50-150	
trans-1,2-Dichloroethene	50.0	49.4	98.9	50-150	
Hexane	50.0	42.5	85.0	50-150	
Methyl t-Butyl Ether	50.0	47.1	94.1	50-150	
tert.- Butyl Alcohol	250	252	101	50-150	
Acetonitrile	250	272	109	50-150	
Diisopropyl ether	50.0	53.2	106	50-150	
Chloroprene	50.0	52.7	105	50-150	
1,1-Dichloroethane	50.0	52.1	104	50-150	
Acrylonitrile	250	267	107	50-150	
n-Propanol	500	505	101	50-150	
Ethyl tert-butyl ether	50.0	53.4	107	50-150	
Vinyl acetate	50.0	43.6	87.2	50-150	
cis-1,2-Dichloroethene	50.0	51.2	102	50-150	
2,2-Dichloropropane	50.0	39.6	79.1	50-150	
Bromochloromethane	50.0	51.8	104	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	50.0	47.1	94.1	50-150	
Chloroform	50.0	51.4	103	50-150	
Ethyl acetate	50.0	47.9	95.9	50-150	
Methyl acrylate	50.0	52.1	104	50-150	
Carbon Tetrachloride	50.0	44.4	88.8	50-150	
Tetrahydrofuran	250	261	104	50-150	
1,1,1-Trichloroethane	50.0	50.8	102	50-150	
2-Butanone	250	248	99.1	50-150	
1,1-Dichloropropene	50.0	48.9	97.8	50-150	
1-Chlorobutane	50.0	48.7	97.4	50-150	
Heptane	50.0	38.7	77.3	50-150	
Benzene	50.0	48.9	97.9	50-150	
Propionitrile	250	276	110	50-150	
Methacrylonitrile	50.0	52.8	106	50-150	
tert-amyl methyl E	50.0	53.2	106	50-150	
Isobutyl alcohol	500	669	134	50-150	
1,2-Dichloroethane	50.0	49.9	99.9	50-150	
tert-Amyl Alcohol	250	244	97.8	50-150	
Diisobutylene	50.0	44.9	89.7	50-150	
Trichloroethene	50.0	47.5	95.0	50-150	
Methyl cyclohexane	50.0	44.4	88.8	50-150	
tert-Amyl Ethylether	50.0	47.5	95.0	50-150	
Dibromomethane	50.0	51.8	104	50-150	
1,2-Dichloropropane	50.0	52.4	105	50-150	
Bromodichloromethane	50.0	45.5	91.1	50-150	
Methyl methacrylate	50.0	53.7	107	50-150	
1,4-Dioxane	1250	0.000		50-150	*
2-Chloroethylvinyl ether	50.0	45.8	91.6	50-150	
cis-1,3-Dichloropropene	50.0	43.9	87.8	50-150	
Octane	50.0	38.3	76.7	50-150	
Toluene	50.0	44.8	89.5	50-150	
Chloroacetonitrile	250	247	98.8	50-150	
2-Nitropropane	250	225	89.9	50-150	
1,1-Dichloro-2-pro	250	219	87.5	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	250	250	100	50-150	
Tetrachloroethene	50.0	47.4	94.9	50-150	
trans-1,3-Dichloropropene	50.0	43.5	87.0	50-150	
Ethyl methacrylate	50.0	46.5	93.0	50-150	
1,1,2-Trichloroethane	50.0	49.0	98.0	50-150	
Chlorodibromomethane	50.0	43.5	87.0	50-150	
1,2-Dibromoethane	50.0	45.4	90.8	50-150	
2-Hexanone	250	245	98.1	50-150	
1-Chlorohexane	50.0	46.6	93.2	50-150	
1,3-Dichloropropane	50.0	50.5	101	50-150	
Chlorobenzene	50.0	47.5	95.0	50-150	
Ethylbenzene	50.0	43.5	87.0	50-150	
1,1,1,2-Tetrachloroethane	50.0	44.1	88.3	50-150	
mp-Xylene	100	87.1	87.0	50-150	
o-Xylene	50.0	44.4	88.8	50-150	
Styrene	50.0	48.9	97.7	50-150	
Bromoform	50.0	44.5	88.9	50-150	
Isopropylbenzene	50.0	48.9	97.8	50-150	
Bromobenzene	50.0	51.0	102	50-150	
n-Propylbenzene	50.0	50.8	102	50-150	
1,1,2,2-Tetrachloroethane	50.0	55.0	110	50-150	
o-Chlorotoluene	50.0	52.6	105	50-150	
1,2-Dichloroethene, Total	100	101	101	50-150	
1,3,5-Trimethylbenzene	50.0	51.5	103	50-150	
1,2,3-Trichloropropane	50.0	53.1	106	50-150	
trans-1,4-Dichloro-2-butene	50.0	47.4	94.7	50-150	
p-Chlorotoluene	50.0	52.6	105	50-150	
tert-Butylbenzene	50.0	52.8	106	50-150	
Pentachloroethane	50.0	43.3	86.6	50-150	
1,2,4-Trimethylbenzene	50.0	48.8	97.6	50-150	
sec-Butylbenzene	50.0	53.1	106	50-150	
p-Isopropyltoluene	50.0	51.9	104	50-150	
1,3-Dichlorobenzene	50.0	51.3	103	50-150	
1,4-Dichlorobenzene	50.0	50.9	102	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH133|HS24061218

Workorder 3366036

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	50.0	30.4	60.9	50-150	
n-Butylbenzene	50.0	49.0	97.9	50-150	
Hexachloroethane	50.0	45.6	91.2	50-150	
1,2-Dichlorobenzene	50.0	52.4	105	50-150	
1,2-Dibromo-3-chloropropane	50.0	46.9	93.7	50-150	
Nitrobenzene	500	451	90.2	50-150	
Hexachlorobutadiene	50.0	42.8	85.6	50-150	
1,2,4-Trichlorobenzene	50.0	50.1	100	50-150	
Naphthalene	50.0	46.6	93.1	50-150	
1,3-Dichloropropene, Total	100	87.4	87.4	50-150	
1,2,3-Trichlorobenzene	50.0	44.6	89.3	50-150	
121 TOTAL XYLENES	150	131	87.6	50-150	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260D

Workorder

3366036

Client

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Form 8 - Internal Standard Area and RT Summary

Client ALS Houston

Project HS24061218 - AHH133

Workorder 3366036

Volatiles by EPA 8260D

25240627A		Fluorobenzene				Chlorobenzene -d5				1,4-Dichloro - benzene-d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
STD-CCV	2524062751.D	1182847		4.17		461076		6.17		401286		7.95	
3366036001	2524062759.D	1059047		4.17		390705		6.17		342826		7.95	
3366036002	2524062760.D	1134395		4.17		408892		6.17		344884		7.95	
3366036003	2524062761.D	1122307		4.17		410745		6.17		358935		7.95	
3366036004	2524062762.D	1080868		4.17		391570		6.17		326632		7.95	
3366036005	2524062763.D	1104598		4.17		403461		6.17		349850		7.95	
3366036006	2524062764.D	1094338		4.17		393810		6.17		332057		7.95	
3366036007	2524062775.D	1016171		4.17		371118		6.17		325012		7.95	
3366036008	2524062765.D	1073953		4.17		392626		6.17		324323		7.95	
3366036009	2524062756.D	1184900		4.17		427955		6.17		370307		7.95	
MB-3845608	2524062755.D	1165460		4.17		419122		6.17		366151		7.95	
LCS-3845609	2524062752.D	1175116		4.17		447665		6.17		395725		7.95	
MS-3845610	2524062776.D	966864		4.17		371926		6.17		328011		7.95	
MSD-3845611	2524062777.D	1031824		4.17		390344		6.17		335571		7.95	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client ALS Houston

Project HS24061218 - AHH133

Workorder 3366036

Volatiles by EPA 8260D

25240628		Fluorobenzene				Chlorobenzene -d5				1,4-Dichloro - benzene-d4				
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	
STD-CCV	2524062801.D	1037403		4.17		395519		6.17		361869		7.95		
3366036001	2524062822.D	943232		4.17		347195		6.17		292753		7.95		
MB-3845975	2524062804.D	1076068		4.17		385851		6.17		307789		7.95		
LCS-3845976	2524062802.D	1039946		4.17		395604		6.17		325554		7.95		

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Logbook

Analysis Logs

Volatiles by EPA 8260D

Workorder

3366036

Client

ALS Houston

Project

AHH133|HS24061218

07/09/2024

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Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240625.b

Rev. 8/07/2022

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	6/25/2024	Analyst:	ILY		SOP ID:	02 8260	
DATA FILE:	25240625xx.d	BFB INJ :	6/25/24 9:52	INSTRUMENT: MS25	METHOD(S)	8260W	8260C_W	D8260W
BATCH:	25240625.b	12-HOUR ENDING:	6/25/24 21:52	ICAL DATE: 6/25/2024	LIMS BATCH:			73573

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment
0	00	1000	1	BFB	-	-	-		33	33							
1	01	WP	1	8260	-	-	-		34	34							
2	02	WP	1	8260	-	-	-		35	35							
3	03	VSTD00.5	1	8260	-	-	-		36	36							
4	04	1234	1	8260	-	-	-		37	37							
5	05	1235	1	8260	-	-	-		38	38							
6	06	1236	1	8260	-	-	-		39	39							
7	07	1237	1	8260	-	-	-		40	40							
8	08	1238	1	8260	-	-	-		41	41							
9	09	1239	1	8260	-	-	-		42	42							
10	10	WP	1	8260	-	-	-		43	43							
11	11	WP	1	8260	-	-	-		44	44							
12	12	WP	1	8260	-	-	-		45	45							
13	13	WP	1	8260	-	-	-		46	46							
14	14	3844041	1	8260	-	-	-	AF	47	47							
15	15	3844042	1	8260	-	-	-	AF	48	48							
16	16	WP	1	8260	-	-	-		49	49							
17	17	LOQ 1.0	1	8260	-	-	-		50	50							
18	18	3364027004-A	1	D8260W V		N			51	51							
19	19	3364639004-A	1	D8260W V		N			52	52							
20	20	3364581002-A	1	D8260W V		N			53	53							
21	21	3364581001-A	1	D8260W V		N			54	54							
22	22	3364027001-A	1	D8260W V		N			55	55							
23	23	3364027002-A	1	D8260W V		N			56	56							
24	24	3364027003-A	1	D8260W V		N			57	57							
25	25	3364581003-A	1	D8260W V		N			58	58							
26	26	3364639001-A	1	D8260W V		N			59	59							
27	27	3364464007-C	1	D8260W V		N		(RR)	60	60							
28	28	3363896005-C	1	D8260W V		N		(RR) PD MSD	61	61							
29	29	3363896016	20	TCLP V	-	-	-	AF	62	62							
30	30	3844274	1	D8260W V		N		"?"	63	63							
31	31	3844275	1	D8260W V		N		"?"	64	64							
32	32	1801	1	8260	-	-	-		65	65							

IS:	VOA0258	Vhew:	VOA0283
SS:	VOA0259	Vgas:	VOA0286
BFB:	VOA0250	Qvoa:	VOA0270
AF:	VOA0261	Qgas:	VOA0285

ABBREVIATIONS

CO:	Suspect Carryover	SS:	Surrogate Failure	NB:	Needs Batched
LS:	Library Search	IS:	ISTD Failure	AAS:	Autosampler Adds Surrogate (Soil)
RR:	Rerun same dilution	DNR:	Do not Report	(**):	Sample is an RR, DF, or DL
DFx:	Rerun @ less diln x	NU:	Not Used	WP:	Water Blank
DLx:	Rerun @ diln x	AF:	Antifoam was used	COMP:	Composite
HDSP:	Headspase	CI:	Chlorine Check	Wt:	Weight

10ul :	HS972
25ul :	HS866
100ul :	HS987
1 mL :	HS927
5 mL :	HS997
10 mL :	HS1002

Batch Review Checklist

Rev. 8/07/2022

TARGET BATCH:	25240625.b	**HORIZON BATCH:**	0		73573	**ICAL DATE(S):**	6/25/2024
INSTRUMENT:	MS25	**METHOD:**	8260W	8260C_W	D8260W	**SOP ID:**	02 8260

DATA REVIEW

Reviewer 1	Reviewer 2		
PDK	CHS	BFB Reviewed	
PDK	CHS	Calibration/Continuing Calibration reviewed	
PDK	CHS	Continuing Calibration passes +/- ISTD area - CCAL is zeroed	
PDK	CHS	Correct ICAL referenced	
PDK	CHS	Correct start/end times/dates for ICAL	
PDK	CHS	Any elavated reporting limits due to ICAL?	Yes/No: **N**
PDK	CHS	Blank reviewed.	
PDK	CHS	LCS/second source reviewed	
PDK	CHS	MS/MSD reviewed - List failures on native sample	
PDK	CHS	All samples within 12/24-hour tune period?	
PDK	CHS	Compound retention times reviewed	
PDK	CHS	ISTDs for each sample reviewed	
PDK	CHS	Surrogates for each sample reviewed	
-	-	Soil weights/volumes correct	
PDK	CHS	Samples checked for over-range detections and put back in for reanalysis	
PDK	CHS	Spectra and ions have been reviewed for each analyte detected	
-	-	Library search has been performed for clients requesting it	
PDK	CHS	Container IDs in LIMS batch	

REPORTS REVIEW:

CHS	Runlog printed to PDF
PDK	Batch summary printed to PDF
PDK	ICAL Summary printed to PDF
PDK	BFB Reports printed to PDF
PDK	Calibration/CCAL reports printed to PDF
PDK	Reports printed to PDF for all samples (w/ LS if needed)
PDK	Logbook complete - All standard information included
CHS	Tests scheduled in LIMS

Signature	Date	
PDK	6/25/2024	Data 1st Review
CHS	6/27/2024	Data 2nd Review
CHS	6/27/2024	Data Reported
CHS	6/27/2024	Data Approved

COMMENTS:

LL Readback Outliers: None

MIDL Readback Outliers: None

ICVLCS Outliers (70-130%) : None

DOD ICVLCS Outliers (80-120%): None

Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240627A.b

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	6/27/2024	Analyst:	BST		SOP ID:	02 8260	
DATA FILE:	25240627xx.d	BFB INJ :	6/27/24 18:40	INSTRUMENT: MS25	METHOD(S)	8260DW	8260C_W	D8260DW
BATCH:	25240627A.b	12-HOUR ENDING:	6/28/24 6:40	ICAL DATE: 6/25/2024	LIMS BATCH:			73642

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment
0	50	1000	1	BFB	-	-	-		33	83							
1	51	1800	1	8260	-	-	-		34	84							
2	52	3845609	1	8260	-	-	-		35	85							
3	53	WP	1	8260	-	-	-		36	86							
4	54	WP	1	8260	-	-	-		37	87							
5	55	3845608	1	8260	-	-	-		38	88							
6	56	3366036009-A	1	D8260W V	<2	N	N		39	89							
7	57	3366027011-A	1	D8260W V	<2	N	N		40	90							
8	58	3366029002-A	5	D8260W V	<2	Y	N	(DL) EXP PREV RUN VIAL	41	91							
9	59	3366036001-A	1	D8260W V	<2	N	N	DL5	42	92							
10	60	3366036002-A	1	D8260W V	<2	N	N	MS/D	43	93							
11	61	3366036003-A	1	D8260W V	<2	N	N		44	94							
12	62	3366036004-A	1	D8260W V	<2	N	N		45	95							
13	63	3366036005-A	1	D8260W V	<2	N	N		46	96							
14	64	3366036006-A	1	D8260W V	<2	N	N		47	97							
15	65	3366036008-A	1	D8260W V	<2	N	N		48	98							
16	66	3366027001-A	1	D8260W V	<2	N	N	DL50	49	99							
17	67	3366027002-A	1	D8260W V	<2	N	N	CORR1X	50	100							
18	68	3366027003-A	1	D8260W V	<2	N	N		51	101							
19	69	3366027004-A	1	D8260W V	<2	N	N		52	102							
20	70	3366027005-A	1	D8260W V	<2	N	N		53	103							
21	71	3366027006-A	1	D8260W V	<2	N	N		54	104							
22	72	3366027007-A	1	D8260W V	<2	N	N		55	105							
23	73	3366027008-A	1	D8260W V	<2	N	N		56	106							
24	74	3366027009-A	1	D8260W V	<2	N	N		57	107							
25	75	3366036007-A	1	D8260W V	<2	N	N		58	108							
26	76	3845610	1	8260	<2	N	N	"B"	59	59							
26	77	3845611	1	8260	<2	N	N	"B"	60	60							
27	78	WP	1	8260	-	-	-		61	61							
28	79	1801	1	8260	-	-	-		62	62							
29	80								63	63							
30	81								64	64							
31	82								65	65							

IS:	VOA0258	Vhew:	VOA0283
SS:	VOA0259	Vgas:	VOA0286
BFB:	VOA0250	Qvoa:	VOA0270
AF:	VOA0261	Qgas:	VOA0285

ABBREVIATIONS

CO: Suspect Carryover	SS: Surrogate Failure	NB: Needs Batched
LS: Library Search	IS: ISTD Failure	AAS: Autosampler Adds Surrogate (Soil)
RR: Rerun same dilution	DNR: Do not Report	(**): Sample is an RR, DF, or DL
DFx: Rerun @ less diln x	NU: Not Used	WP: Water Blank
DLx: Rerun @ diln x	AF: Antifoam was used	COMP: Composite
HDSP: Headspase	Cl: Chlorine Check	Wt: Weight

10ul :	HS972
25ul :	HS866
100ul :	HS987
1 mL :	HS927
5 mL :	HS997
10 mL :	HS1002

Batch Review Checklist

TARGET BATCH:	25240627A.b	**HORIZON BATCH:**	0		73642	**ICAL DATE(S):**	6/25/2024
INSTRUMENT:	MS25	**METHOD:**	8260DW	8260C_W	D8260DW	**SOP ID:**	02 8260

DATA REVIEW

Reviewer 1	Reviewer 2		
TMP	ILY	BFB Reviewed	
TMP	ILY	Calibration/Continuing Calibration reviewed	
TMP	ILY	Continuing Calibration passes +/- ISTD area - CCAL is zeroed	
TMP	ILY	Correct ICAL referenced	
TMP	ILY	Correct start/end times/dates for ICAL	
TMP	ILY	Any elavated reporting limits due to ICAL?	Yes/No: **N**
TMP	ILY	Blank reviewed.	
TMP	ILY	LCS/second source reviewed	
TMP	ILY	MS/MSD reviewed - List failures on native sample	
TMP	ILY	All samples within 12/24-hour tune period?	
TMP	ILY	Compound retention times reviewed	
TMP	ILY	ISTDs for each sample reviewed	
TMP	ILY	Surrogates for each sample reviewed	
-	-	Soil weights/volumes correct	
TMP	ILY	Samples checked for over-range detections and put back in for reanalysis	
TMP	ILY	Spectra and ions have been reviewed for each analyte detected	
-	-	Library search has been performed for clients requesting it	
TMP	ILY	Container IDs in LIMS batch	

REPORTS REVIEW:

ILY	Runlog printed to PDF
TMP	Batch summary printed to PDF
TMP	ICAL Summary printed to PDF
TMP	BFB Reports printed to PDF
TMP	Calibration/CCAL reports printed to PDF
TMP	Reports printed to PDF for all samples (w/ LS if needed)
TMP	Logbook complete - All standard information included
ILY	Tests scheduled in LIMS

Signature	Date	
TMP	6/28/2024	Data 1st Review
ILY	6/28/2024	Data 2nd Review
ILY	6/28/2024	Data Reported
ILY	6/28/2024	Data Approved

COMMENTS:

LL Readback Outllers: None

MIDL Readback Outllers: None

ICVLCS Outliers (70-130%) : None

DOD ICVLCS Outliers (80-120%): None

Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240628.b

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	6/28/2024	Analyst:	TMP/ILY		SOP ID:	02 8260	
DATA FILE:	25240628xx.d	BFB INJ :	6/28/24 9:00	INSTRUMENT: MS25	METHOD(S)	D8260DW / 8260C_W	D8260DW
BATCH:	25240628.b	12-HOUR ENDING:	6/28/24 21:00	ICAL DATE: 6/25/2024	LIMS BATCH:	73650	

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment
0	00	1000	1	BFB	-	-	-		33	33							
1	01	1800	1	8260	-	-	-		34	34							
2	02	3845976	1	8260	-	-	-	AF	35	35							
3	03	WP	1	8260	-	-	-		36	36							
4	-	WP	1	8260	-	-	-	skipped by AS	37	37							
5	04	3845975	1	8260	-	-	-	AF	38	38							
6	05	3366030005-A	1	D8260W V	<2	N	N		39	39							
7	06	3366026023-A	1	D8260W V	<2	N	N		40	40							
8	07	3366028005-B	1	D8260W V	<2	N	N	(CORR)	41	41	LAST VIAL						
9	08	3366028008-B	1	D8260W V	<2	N	N	(CORR)	42	42	LAST VIAL						
10	09	3366027002-B	1	D8260W V	<2	N	N	(CORR)	43	43							
11	11	3366026001-A	1	D8260W V	<2	N	N		44	44	fixed AS error here						
12	12	3366026002-A	1	D8260W V	<2	N	N	DL20	45	45							
13	13	3366026003-A	1	D8260W V	<2	N	N	CORR1X	46	46							
14	14	3366026005-A	1	D8260W V	<2	N	N	DL5	47	47							
15	15	3366026006-A	1	D8260W V	<2	N	N	DL10	48	48							
16	16	3366026007-A	1	D8260W V	<2	N	N	DL100	49	49							
17	17	3366026008-A	1	D8260W V	<2	N	N	DL20	50	50							
18	18	3366030001-A	1	D8260W V	<2	N	N	PD MSD CORR1X	51	51							
19	19	3366030002-A	1	D8260W V	<2	N	N	CORR1X	52	52							
20	20	3366030003-A	1	D8260W V	<2	N	N	CORR1X	53	53							
21	21	3366030004-A	1	D8260W V	<2	N	N	CORR1X	54	54							
22	22	3366036001-B	5	D8260W V	<2	N	N	(DL)	55	55							
23	23	3366028004-B	10	D8260W V	<2	N	N	(DL)	56	56							
24	24	3366028007-B	10	D8260W V	<2	N	N	(DL)	57	57							
25	25	3366027001-B	50	D8260W V	<2	N	N	(DL)	58	58							
26	26	3845977	1	8260	<2	N	N	"B"	59	59	CANCELLED						parent sample needs rerun
26	27	3845978	1	8260	<2	N	N	"B"	60	60	CANCELLED						parent sample needs rerun
27	28	WP	1	8260	-	-	-		61	61							
28	29	1801	1	8260	-	-	-		62	62							
29	30								63	63							
30	31								64	64							
31	32								65	65							

IS:	VOA0258	Vhew:	VOA0283
SS:	VOA0259	Vgas:	VOA0286
BFB:	VOA0250	Qvoa:	VOA0270
AF:	VOA0261	Qgas:	VOA0285

ABBREVIATIONS

CO: Suspect Carryover	SS: Surrogate Failure	NB: Needs Batched
LS: Library Search	IS: ISTD Failure	AAS: Autosampler Adds Surrogate (Soil)
RR: Rerun same dilution	DNR: Do not Report	(**): Sample is an RR, DF, or DL
DFx: Rerun @ less diln x	NU: Not Used	WP: Water Blank
DLx: Rerun @ diln x	AF: Antifoam was used	COMP: Composite
HDSP: Headspase	Cl: Chlorine Check	Wt: Weight

10ul :	HS972
25ul :	HS866
100ul :	HS987
1 mL :	HS927
5 mL :	HS997
10 mL :	HS1002

Batch Review Checklist

TARGET BATCH:	25240628.b	**HORIZON BATCH:**	73650			**ICAL DATE(S):**	6/25/2024
INSTRUMENT:	MS25	**METHOD:**	D8260DW	8260C_W	D8260DW	**SOP ID:**	02 8260

DATA REVIEW

Reviewer 1	Reviewer 2		
TMP	VLM	BFB Reviewed	
TMP	VLM	Calibration/Continuing Calibration reviewed	
TMP	VLM	Continuing Calibration passes +/- ISTD area - CCAL is zeroed	
TMP	VLM	Correct ICAL referenced	
TMP	VLM	Correct start/end times/dates for ICAL	
TMP	VLM	Any elavated reporting limits due to ICAL?	Yes/No: **N**
TMP	VLM	Blank reviewed.	
TMP	VLM	LCS/second source reviewed	
TMP	VLM	MS/MSD reviewed - List failures on native sample	
TMP	VLM	All samples within 12/24-hour tune period?	
TMP	VLM	Compound retention times reviewed	
TMP	VLM	ISTDs for each sample reviewed	
TMP	VLM	Surrogates for each sample reviewed	
-	-	Soil weights/volumes correct	
TMP	VLM	Samples checked for over-range detections and put back in for reanalysis	
TMP	VLM	Spectra and ions have been reviewed for each analyte detected	
-	-	Library search has been performed for clients requesting it	
TMP	VLM	Container IDs in LIMS batch	

REPORTS REVIEW:

VLM	Runlog printed to PDF
TMP	Batch summary printed to PDF
TMP	ICAL Summary printed to PDF
TMP	BFB Reports printed to PDF
TMP	Calibration/CCAL reports printed to PDF
TMP	Reports printed to PDF for all samples (w/ LS if needed)
TMP	Logbook complete - All standard information included
VLM	Tests scheduled in LIMS

Signature	Date	
TMP	6/29/2024	Data 1st Review
VLM	6/30/2024	Data 2nd Review
VLM	6/30/2024	Data Reported
VLM	6/30/2024	Data Approved

COMMENTS:

LL Readback Outllers: None

MIDL Readback Outllers: None

ICVLCS Outliers (70-130%) : None

DOD ICVLCS Outliers (80-120%): None

right solutions.
right partner.

Raw Data 25240625

Volatiles by EPA 8260D

Workorder

3366036

Client

ALS Houston

Project

AHH133|HS24061218

07/09/2024

www.alsglobal.com

Data File: 2524062500.D Page 1
Report Date: 25-Jun-2024 21:11

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062500.D
Lab Smp Id: 1000
Inj Date : 25-JUN-2024 09:52
Operator : ILY Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	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	
7.057	8.129	(0.000)	95	112296			0.00- 100.00	100.00
7.057	8.129	(0.000)	50	18776			15.00- 40.00	16.72
7.057	8.129	(0.000)	75	52448			30.00- 60.00	46.71
7.057	8.129	(0.000)	96	7984			5.00- 9.00	7.11
7.057	8.129	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
7.057	8.129	(0.000)	174	104984			50.00- 0.00	93.49
7.057	8.129	(0.000)	175	8844			5.00- 9.00	8.42
7.057	8.129	(0.000)	176	104216			95.00- 101.00	99.27
7.057	8.129	(0.000)	177	6298			5.00- 9.00	6.04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.72
75	30.00 - 60.00% of mass 95	46.71
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.49
175	5.00 - 9.00% of mass 174	7.88 (8.42)
176	95.00 - 101.00% of mass 174	92.80 (99.27)
177	5.00 - 9.00% of mass 176	5.61 (6.04)

Data File: 2524062500.D
Spectrum: Avg. Scans 1084-1086 (7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	878	63.00	4033	91.00	717	135.00	206
37.00	4617	64.00	365	92.00	3363	137.00	282
38.00	4815	67.00	329	93.00	4897	141.00	1172
39.00	1768	68.00	10547	94.00	13036	142.00	251
40.00	333	69.00	10385	95.00	112296	143.00	1323
43.00	55	70.00	816	96.00	7984	146.00	154
44.00	630	72.00	618	97.00	360	148.00	374
45.00	922	73.00	5006	104.00	480	152.00	114
46.00	165	74.00	19224	105.00	186	154.00	79
47.00	1141	75.00	52448	106.00	451	155.00	261
48.00	668	76.00	4690	107.00	96	158.00	58
49.00	4345	77.00	434	111.00	71	159.00	58
50.00	18776	78.00	266	113.00	63	161.00	54
51.00	5851	79.00	3765	115.00	335	172.00	1160
52.00	298	80.00	1102	116.00	557	174.00	104984
55.00	297	81.00	3762	117.00	700	175.00	8844
56.00	2095	82.00	874	118.00	643	176.00	104216
57.00	2561	83.00	53	119.00	637	177.00	6298
58.00	199	86.00	72	123.00	59	178.00	54
59.00	87	87.00	4862	128.00	429	207.00	146
60.00	908	88.00	4831	129.00	125	251.00	59
61.00	5090	89.00	67	130.00	386		
62.00	4861	90.00	56	131.00	261		

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062500.D

Page 1

Date : 25-JUN-2024 09:52

Client ID:

Instrument: ms25.i

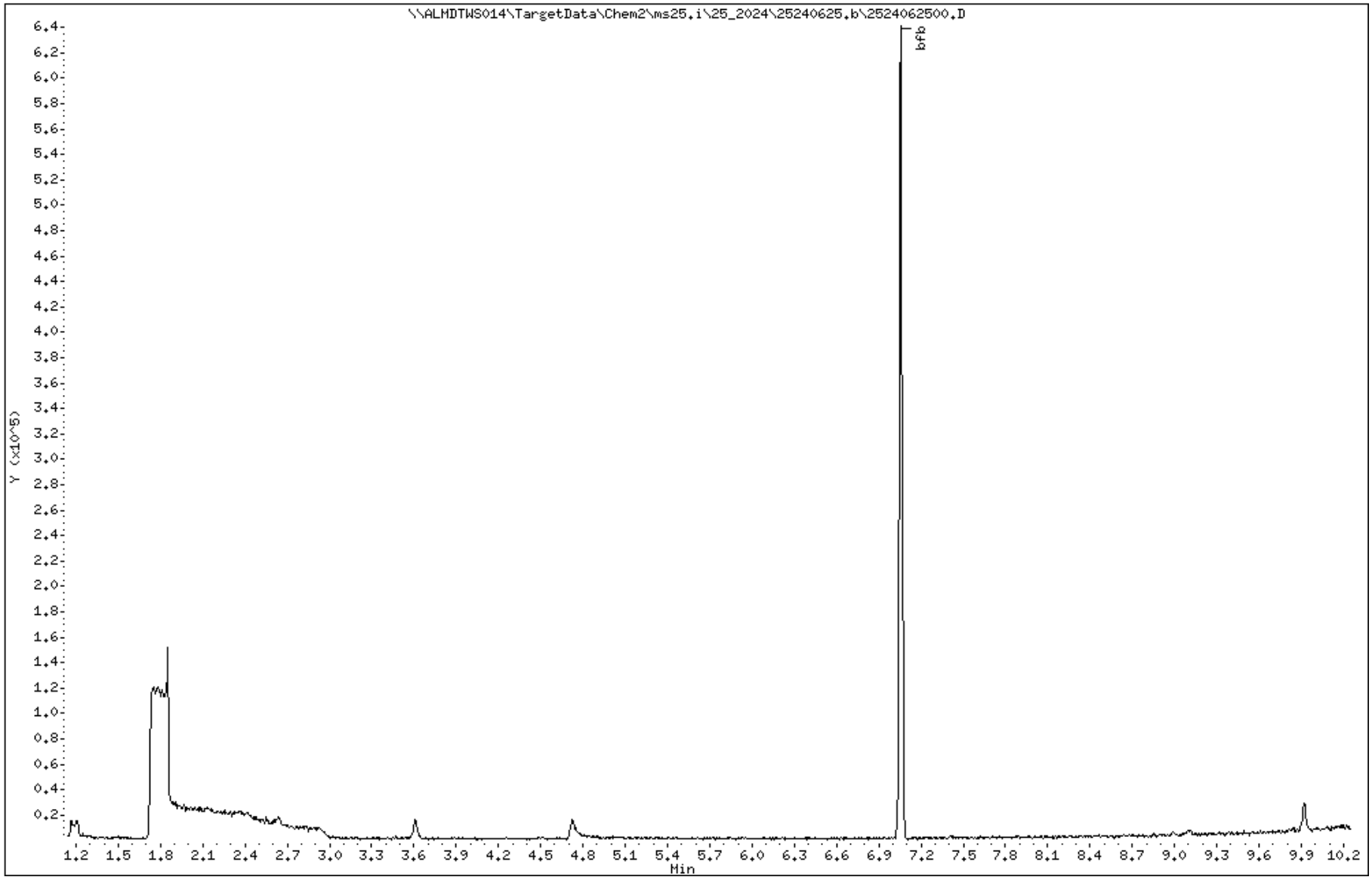
Sample Info: 1000

Volume Injected (uL): 1.0

Operator: ILY

Column phase: DB624

Column diameter: 0.53



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062500.D
Inj Date : 25-JUN-2024 09:52
InstruID : ms25.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2524062503.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062503.D
Lab Smp Id: VSTD00.5
Inj Date : 25-JUN-2024 11:03
Operator : ILY Inst ID: ms25.i
Smp Info : VSTD00.5;;1;1;8;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	7403	0.50000	0.609970(a)	
2	Chloromethane	50	1.644	1.645	(0.394)	7701	0.50000	0.611694(a)	
3	Vinyl Chloride	62	1.704	1.705	(0.409)	8472	0.50000	0.617487(a)	
4	Bromomethane	94	1.922	1.923	(0.461)	6439	0.50000	0.549339(a)	
5	Chloroethane	64	2.004	2.005	(0.481)	7553	0.50000	0.512149(a)	
6	Pentane	41	2.091	2.092	(0.502)	13487	0.50000	0.552296(aQ)	
7	Trichlorofluoromethane	101	2.097	2.103	(0.503)	11132	0.50000	0.592347(a)	
8	Dichlorofluoromethane	67	2.124	2.125	(0.509)	7544	0.50000	0.433835(a)	
9	Ethyl Ether	74	2.272	2.278	(0.545)	2339	0.50000	0.442329(aQ)	
10	1,1-Dichloroethene	61	2.413	2.409	(0.579)	4727	0.50000	0.447977(a)	
11	Freon 113	101	2.435	2.425	(0.584)	3186	0.50000	0.429279(a)	
12	Carbon Disulfide	76	2.446	2.447	(0.587)	10727	0.50000	0.471259(a)	
13	Iodomethane	127	2.506	2.507	(0.601)	1008	0.50000	0.755321(a)	
14	Acrolein	56	2.599	2.600	(0.623)	4363	2.50000	2.56343	
15	Isopropyl Alcohol	45	2.653	2.654	(0.636)	3328	2.50000	2.88058	
16	3-Chloro-1-propene	41	2.686	2.676	(0.644)	3005	0.50000	0.499977(a)	
17	Methylene Chloride	84	2.741	2.741	(0.657)	3732	0.50000	0.432985(a)	
18	Acetone	58	2.757	2.752	(0.661)	2467	2.50000	2.58339(Q)	
19	Methyl acetate	74	2.817	2.812	(0.676)	2035	0.50000	0.623791(aQ)	
20	trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	4448	0.50000	0.430387(a)	
21	Hexane	57	2.861	2.867	(0.686)	15367	0.50000	0.605676(a)	

Data File: 2524062503.D
Report Date: 25-Jun-2024 19:32

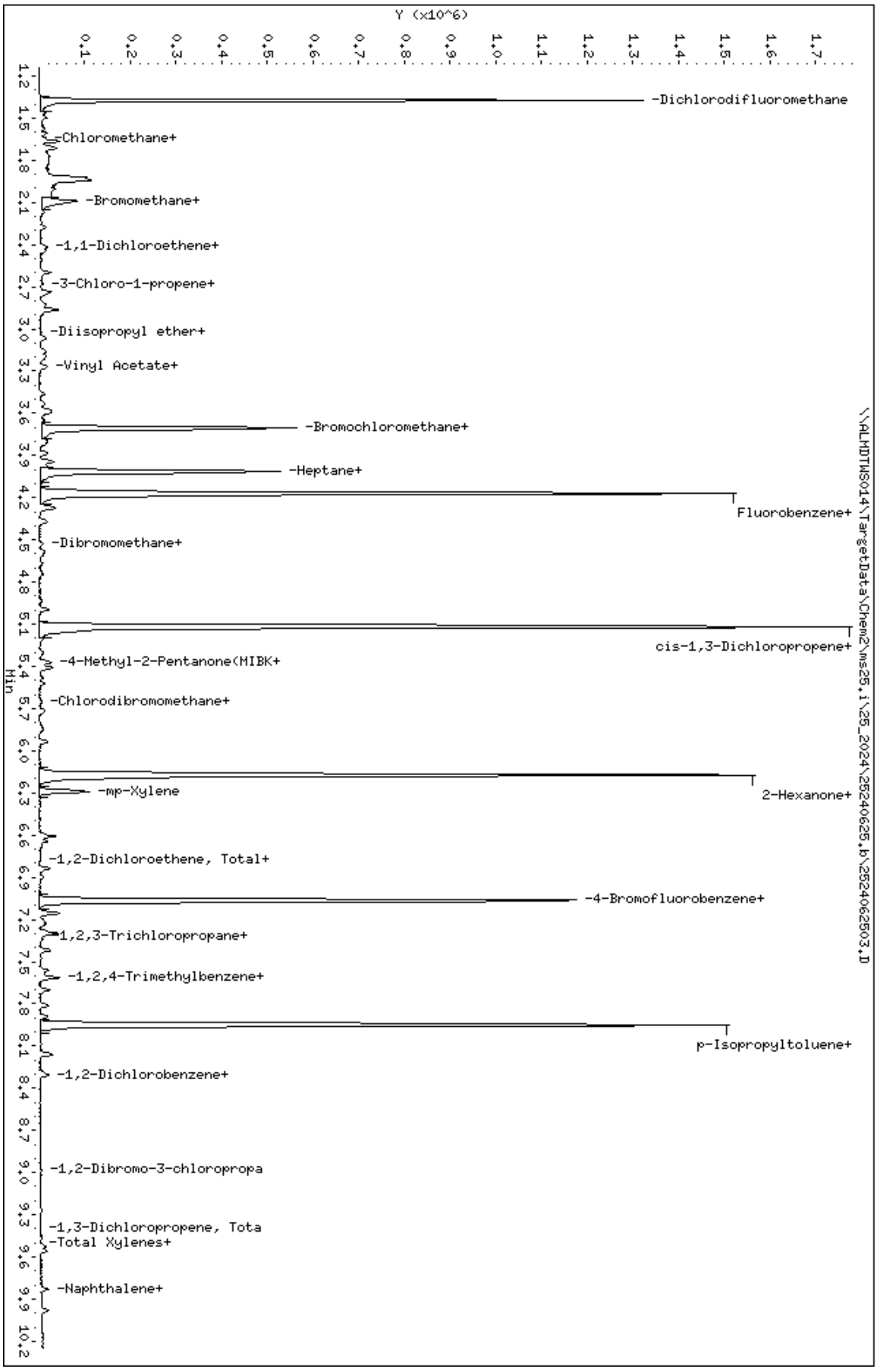
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.877	2.872	(0.690)	9076	0.50000	0.571782(aQ)	
	23 tert.- Butyl Alcohol	59	2.894	2.889	(0.694)	2093	2.50000	2.19551	
	24 Acetonitrile	41	3.019	3.020	(0.724)	2461	2.50000	2.30464(QM)	MP
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	9459	0.50000	0.412394(a)	
	26 Chloroprene	53	3.150	3.156	(0.755)	4938	0.50000	0.424640(a)	
	27 1,1-Dichloroethane	63	3.166	3.167	(0.759)	5914	0.50000	0.420026(aM)	IH
	28 Acrylonitrile	53	3.188	3.194	(0.765)	7287	2.50000	1.98720(M)	MP
	29 Ethyl tert-butyl ether	59	3.259	3.265	(0.782)	9807	0.50000	0.402571(a)	
	30 n-Propanol	41	3.265	3.260	(0.783)	2592	5.00000	5.73610(Q)	
	31 Vinyl Acetate	86	3.270	3.276	(0.784)	715	0.50000	0.677670(aQ)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	4439	0.50000	0.423607(a)	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	5081	0.50000	0.452773(aM)	H
	34 Bromochloromethane	128	3.576	3.576	(0.857)	1835	0.50000	0.406063(aQ)	
	35 Cyclohexane	84	3.592	3.587	(0.861)	6021	0.50000	0.478859(aQ)	
	36 Chloroform	83	3.603	3.598	(0.864)	6590	0.50000	0.433555(a)	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	6710	0.50000	0.651771(a)	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	3888	0.50000	0.460758(a)	
	39 Carbon Tetrachloride	117	3.696	3.696	(0.886)	2612	0.50000	0.647639(aM)	MP
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	251888	30.0000	29.1045	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	6336	2.50000	2.45613	
	42 1,1,1-Trichloroethane	97	3.739	3.740	(0.897)	4628	0.50000	0.391178(a)	
	43 2-Butanone	72	3.761	3.767	(0.902)	2817	2.50000	2.25888(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	5113	0.50000	0.456885(a)	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	4277	0.50000	0.594302(aQ)	
	46 Heptane	71	3.887	3.887	(0.932)	3571	0.50000	0.549236(aQ)	
	47 Benzene	78	3.941	3.942	(0.945)	17284	0.50000	0.502483(a)	
	48 Propionitrile	54	3.941	3.942	(0.945)	2748	2.50000	1.97899(Q)	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	2086	0.50000	0.501131(aQM)	H
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	9972	0.50000	0.424059(a)	
	54 Isobutyl alcohol	42	3.985	3.980	(0.956)	394	5.00000	5.86342(QM)	H
$	51 1,2-Dichloroethane-d4	65	4.012	4.013	(0.962)	282446	30.0000	30.9588	
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	5311	0.50000	0.491166(aQ)	
	53 tert-Amyl Alcohol	59	4.061	4.062	(0.974)	1627	2.50000	2.22445	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1096864	30.0000		
	56 Diisobutylene	57	4.170	4.171	(1.000)	44441	0.50000	0.646847(aQ)	
	57 Trichloroethene	95	4.263	4.269	(1.022)	4490	0.50000	0.515766(aQM)	H
	58 Methyl cyclohexane	83	4.269	4.275	(0.692)	6441	0.50000	0.481087(a)	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	7238	0.50000	0.613047(a)	
	60 Dibromomethane	93	4.525	4.526	(1.085)	2382	0.50000	0.432826(aQ)	
	61 1,2-Dichloropropane	63	4.580	4.586	(1.098)	3551	0.50000	0.428936(aQM)	H
	62 Bromodichloromethane	83	4.612	4.607	(1.106)	3592	0.50000	0.639622(a)	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	2494	0.50000	0.380651(aM)	IH
	64 1,4-Dioxane	88	4.716	4.722	(1.131)	1683	12.5000	13.1326(Q)	
	65 2-Chloroethylvinyl ether	63	4.940	4.935	(1.184)	1903	0.50000	0.682108(aM)	IH
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	4396	0.50000	0.594491(a)	
	67 Octane	85	5.000	5.000	(0.810)	2623	0.50000	0.516704(a)	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1019938	30.0000	31.2109	
	69 Toluene	92	5.147	5.153	(0.834)	11878	0.50000	0.573470(a)	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	1271	2.50000	2.46156(QM)	H
	71 2-Nitropropane	41	5.294	5.300	(0.858)	3617	2.50000	3.45024(Q)	
	72 1,1-Dichloro-2-Propanone	63	5.311	5.317	(0.860)	307	2.50000	3.32513(QM)	H
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	15196	2.50000	2.86001	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	4340	0.50000	0.630336(a)	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	3437	0.50000	0.455706(a)	

Data File: 2524062503.D Page 3
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	3766	0.50000	0.615569(aM)	H
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	2588	0.50000	0.406674(a)	
	78 Chlorodibromomethane	129	5.655	5.650	(0.916)	2392	0.50000	0.631711(a)	
	79 1,3-Dichloropropane	76	5.709	5.710	(0.925)	5196	0.50000	0.413250(a)	
	80 1,2-Dibromoethane	107	5.835	5.830	(0.945)	2751	0.50000	0.557407(a)	
	81 2-Hexanone	43	5.938	5.933	(0.962)	9727	2.50000	2.83510	
	82 1-Chlorohexane	91	6.140	6.146	(0.995)	5263	0.50000	0.483003(aQ)	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	412754	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	9263	0.50000	0.438849(a)	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	9240	0.50000	0.616459(a)	
	86 1,1,1,2-Tetrachloroethane	131	6.217	6.223	(1.007)	2323	0.50000	0.607596(a)	
	87 mp-Xylene	106	6.293	6.288	(1.019)	30052	1.00000	1.27466	
	88 o-Xylene	106	6.604	6.610	(1.070)	8690	0.50000	0.618661(a)	
	89 Styrene	104	6.648	6.648	(0.836)	7432	0.50000	0.629733(aM)	MP
	90 Bromoform	173	6.686	6.686	(0.841)	2337	0.50000	0.734051(aM)	IH
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	13069	0.50000	0.562869(a)	
M	100 1,2-Dichloroethene, Total	61				8887	1.00000	0.853994(a)	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	319075	30.0000	31.0197	
	93 Bromobenzene	156	7.155	7.156	(0.900)	3974	0.50000	0.452058(a)	
	94 n-Propylbenzene	120	7.161	7.156	(0.901)	4608	0.50000	0.512609(a)	
	95 1,1,2,2-Tetrachloroethane	83	7.199	7.205	(0.905)	3602	0.50000	0.412247(aM)	IH
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	10588	0.50000	0.447681(a)	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	12483	0.50000	0.498960(a)	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	1088	0.50000	0.386077(aQ)	
	99 trans-1,4-Dichloro-2-butene	53	7.341	7.341	(0.923)	1054	0.50000	0.681032(aQM)	H
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	9948	0.50000	0.464370(a)	
	102 tert-Butylbenzene	134	7.564	7.559	(0.951)	2578	0.50000	0.430850(aQ)	
	103 Pentachloroethane	117	7.581	7.581	(0.953)	2125	0.50000	0.643645(aM)	H
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	20714	0.50000	0.631945(a)	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	13973	0.50000	0.451901(a)	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	2976	0.50000	0.420291(a)	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	6216	0.50000	0.419711(a)	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	371816	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	7283	0.50000	0.471776(aQ)	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	736	0.50000	0.666636(aQM)	IH
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	3668	0.50000	0.554323(aQ)	
	112 Hexachloroethane	117	8.295	8.285	(1.043)	1752	0.50000	0.716686(aM)	IH
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	5854	0.50000	0.414954(a)	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	380	0.50000	0.639575(aQM)	IH
	115 Nitrobenzene	77	9.469	9.464	(1.191)	1713	5.00000	3.55791	
	116 Hexachlorobutadiene	225	9.523	9.524	(1.198)	1952	0.50000	0.667720(aM)	IH
M	120 1,3-Dichloropropene, Total	75				8736	1.00000	1.22483	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	4177	0.50000	0.447095(a)	
M	121 Total Xylenes	106				38742	1.50000	1.89332	
	118 Naphthalene	128	9.829	9.829	(1.236)	10056	0.50000	0.684099(a)	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	3948	0.50000	0.665965(a)	

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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Client ID:
Sample Info: WSTD00,5;;1;1;8;;;
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Instrument: ms25,i
Operator: ILY
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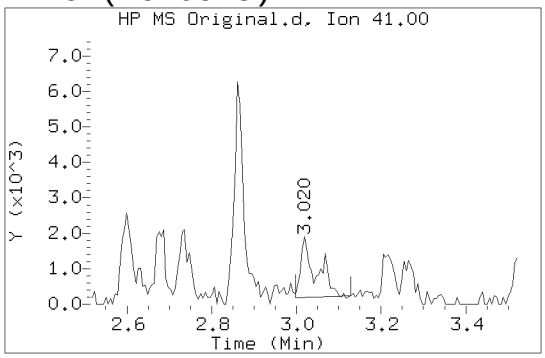
Page 1

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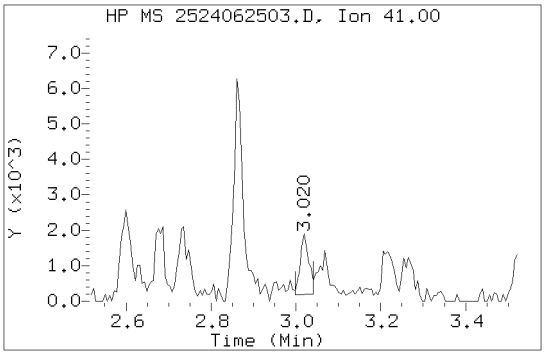
Acetonitrile (75-05-8)

Reason Code: MP

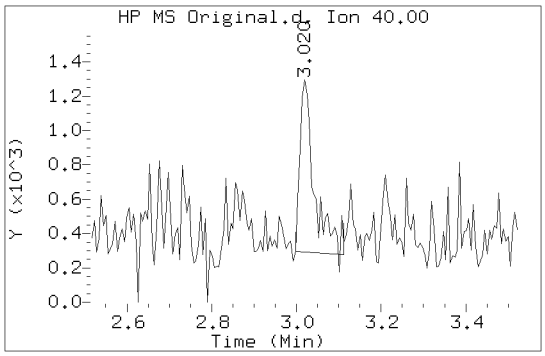
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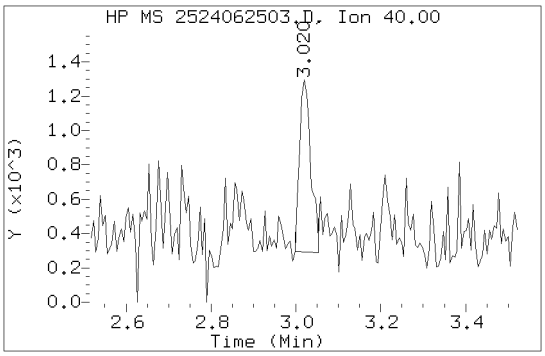
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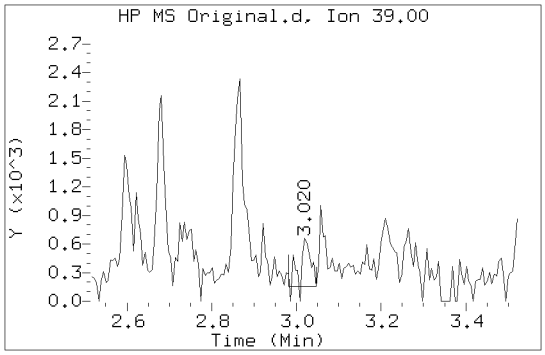
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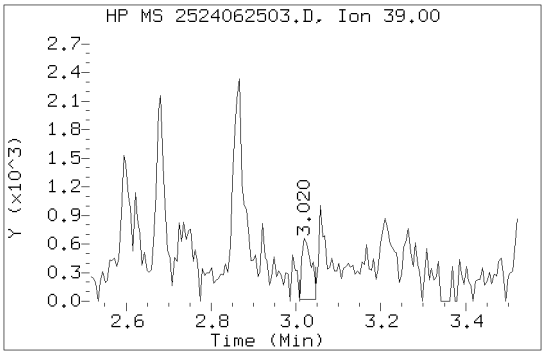
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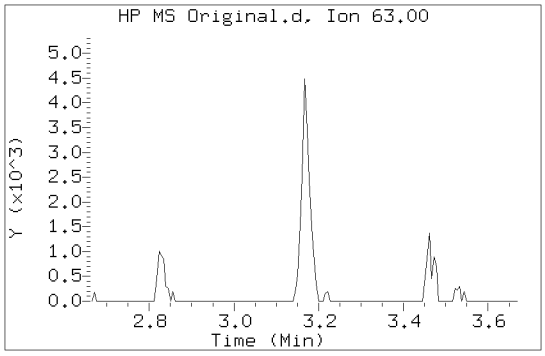
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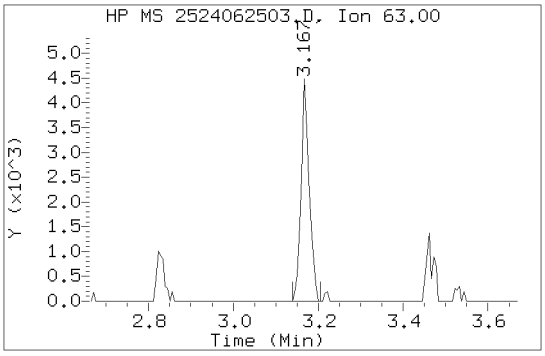
1,1-Dichloroethane (75-34-3)

Reason Code: IH

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18:50



AFTER
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25-Jun-2024
19:32

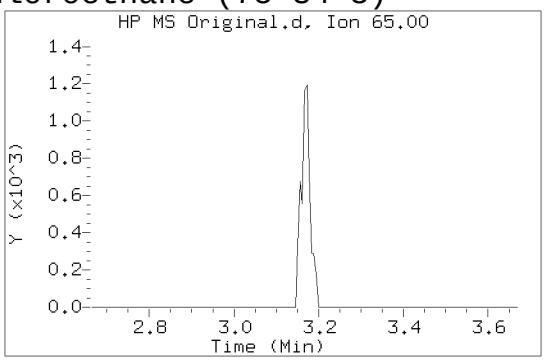


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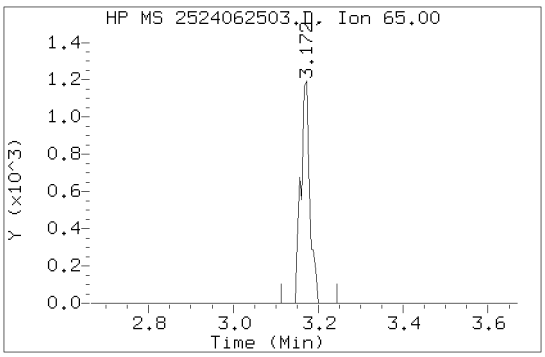
1,1-Dichloroethane (75-34-3)

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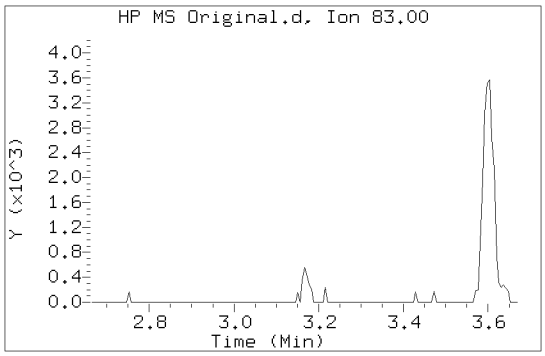
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25-Jun-2024
18:50



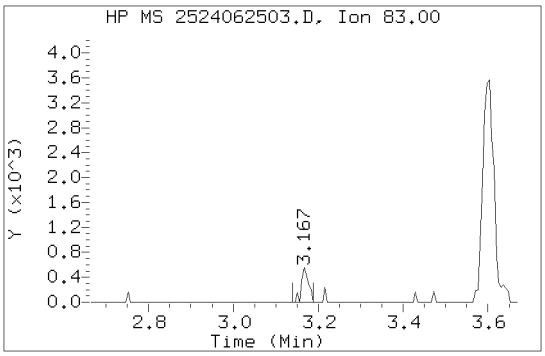
AFTER
MASS
65
AREA
1768
HEIGHT
1194
25-Jun-2024
19:32



BEFORE
MASS
83
AREA
0
HEIGHT
0
25-Jun-2024
18:50



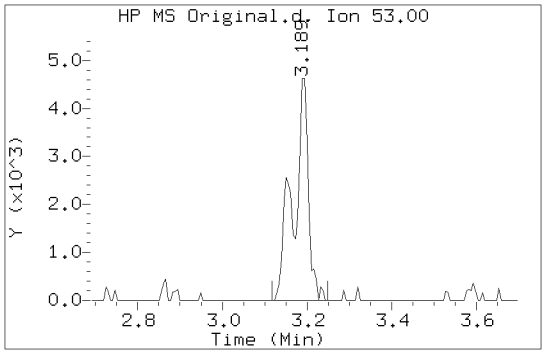
AFTER
MASS
83
AREA
641
HEIGHT
557
25-Jun-2024
19:32



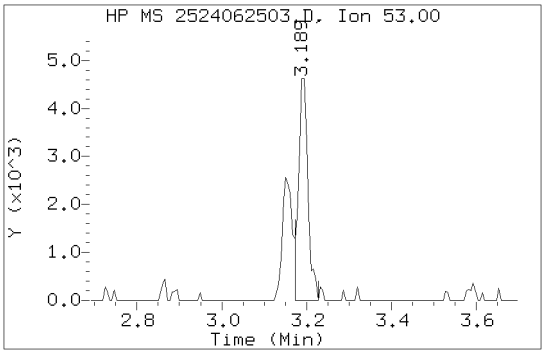
Acrylonitrile (107-13-1)

Reason Code: MP

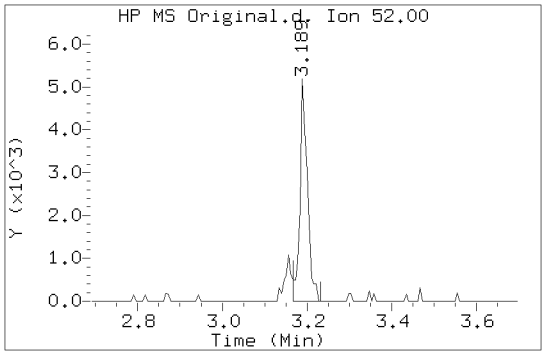
BEFORE
MASS
53
AREA
11395
HEIGHT
4620
25-Jun-2024
18:50



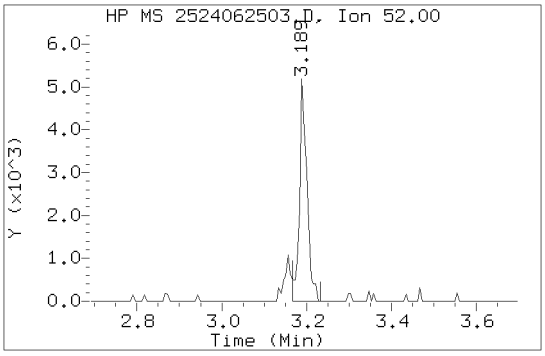
AFTER
MASS
53
AREA
7287
HEIGHT
4620
25-Jun-2024
19:32



BEFORE
MASS
52
AREA
6355
HEIGHT
5186
25-Jun-2024
18:50



AFTER
MASS
52
AREA
6355
HEIGHT
5186
25-Jun-2024
19:32

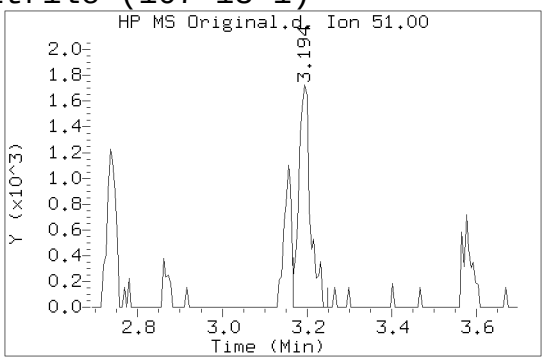


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

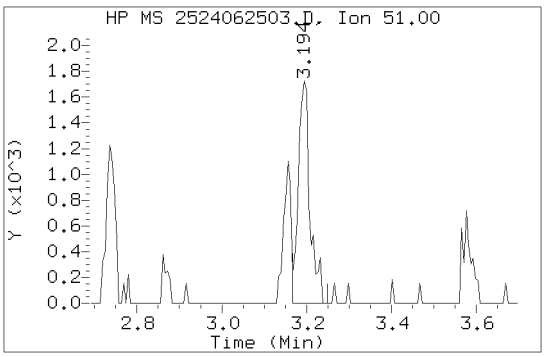
Acrylonitrile (107-13-1)

Reason Code: MP

BEFORE
MASS
51
AREA
3306
HEIGHT
1726
25-Jun-2024
18:50



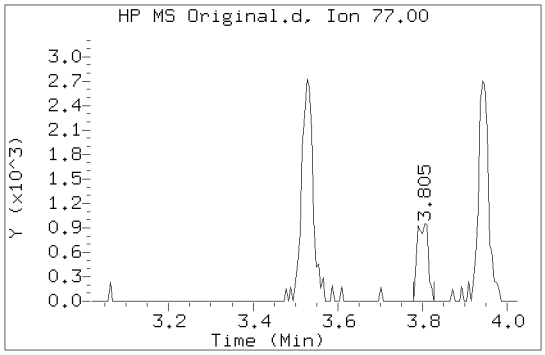
AFTER
MASS
51
AREA
3306
HEIGHT
1726
25-Jun-2024
19:32



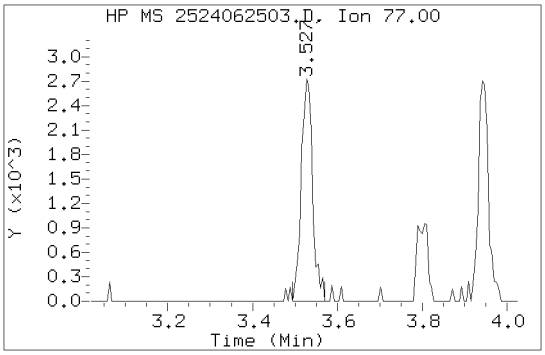
2,2-Dichloropropane (594-20-7)

Reason Code: H

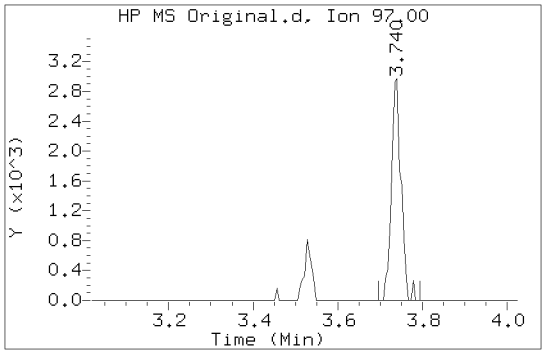
BEFORE
MASS
77
AREA
1736
HEIGHT
956
25-Jun-2024
18:50



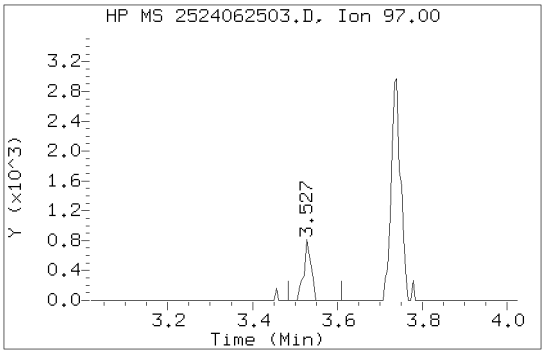
AFTER
MASS
77
AREA
5081
HEIGHT
2728
25-Jun-2024
19:32



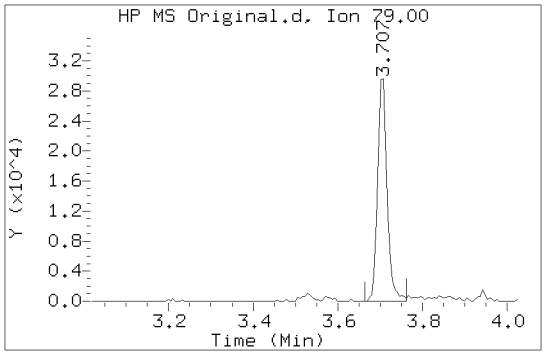
BEFORE
MASS
97
AREA
4715
HEIGHT
2970
25-Jun-2024
18:50



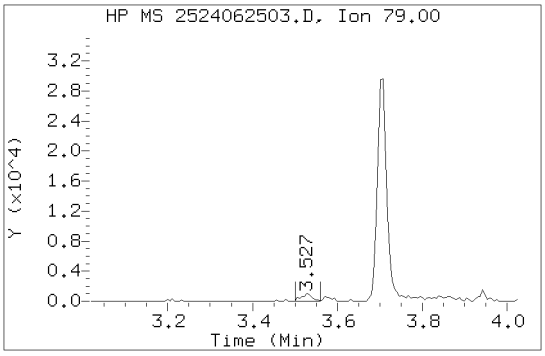
AFTER
MASS
97
AREA
980
HEIGHT
820
25-Jun-2024
19:32



BEFORE
MASS
79
AREA
45962
HEIGHT
29592
25-Jun-2024
18:50



AFTER
MASS
79
AREA
1712
HEIGHT
1011
25-Jun-2024
19:32

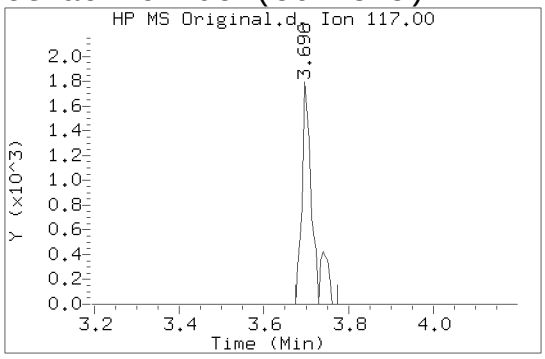


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Inj Date : 25-JUN-2024 11:03
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LabSampID : VSTD00.5

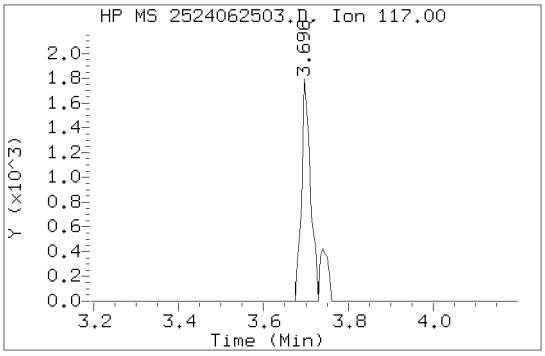
Carbon Tetrachloride (56-23-5)

Reason Code: MP

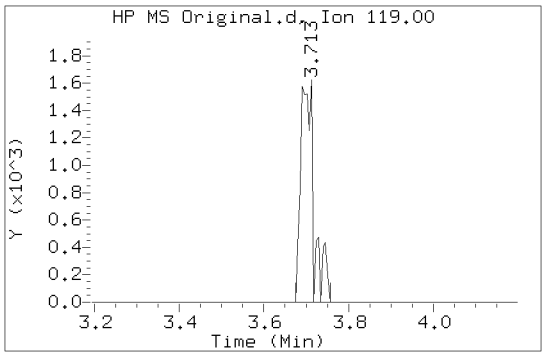
BEFORE
MASS
117
AREA
3171
HEIGHT
1795
25-Jun-2024
18:50



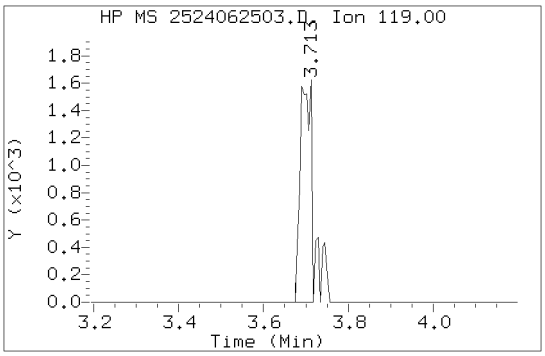
AFTER
MASS
117
AREA
2612
HEIGHT
1795
25-Jun-2024
19:32



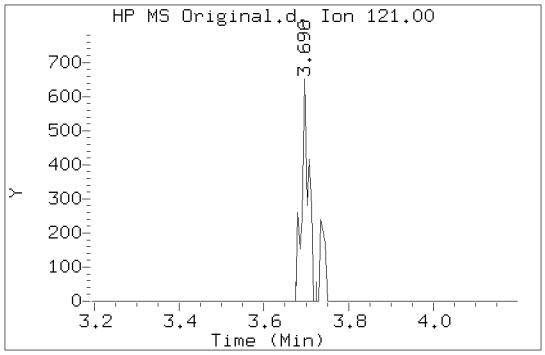
BEFORE
MASS
119
AREA
3504
HEIGHT
1624
25-Jun-2024
18:50



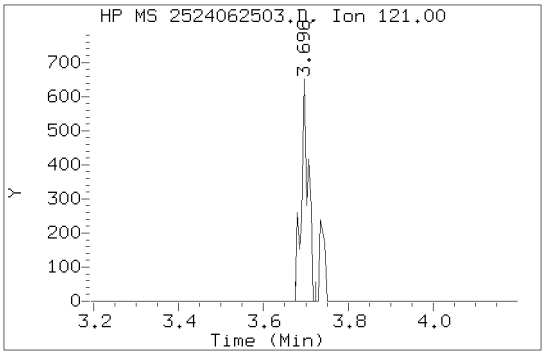
AFTER
MASS
119
AREA
2860
HEIGHT
1624
25-Jun-2024
19:32



BEFORE
MASS
121
AREA
747
HEIGHT
652
25-Jun-2024
18:50



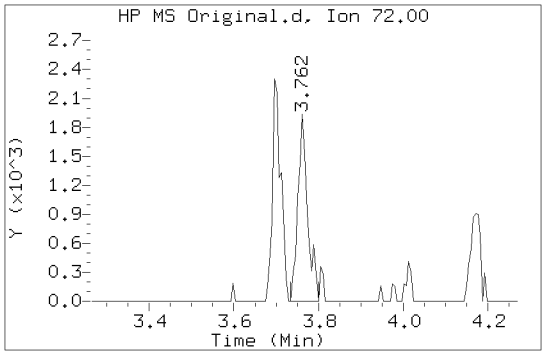
AFTER
MASS
121
AREA
747
HEIGHT
652
25-Jun-2024
19:32



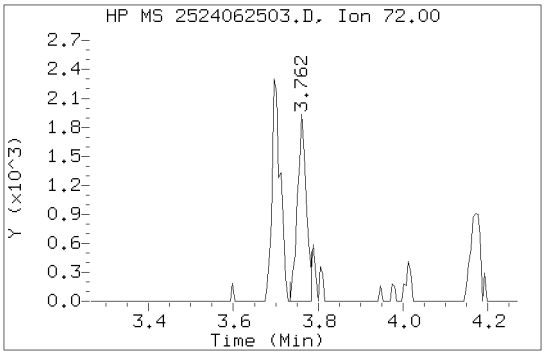
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
72
AREA
3100
HEIGHT
1940
25-Jun-2024
18:50



AFTER
MASS
72
AREA
2817
HEIGHT
1940
25-Jun-2024
19:32

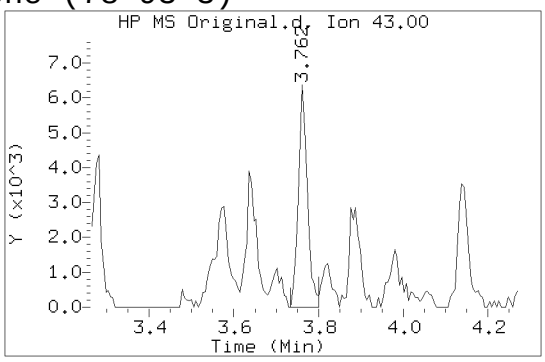


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LabSampID : VSTD00.5

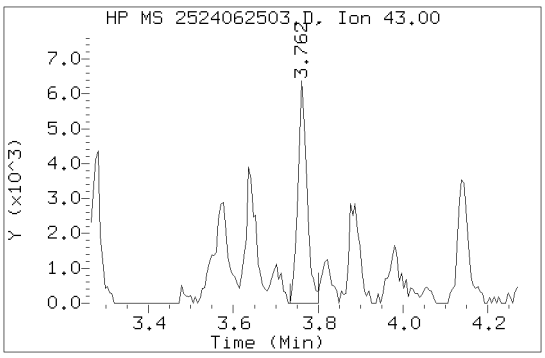
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
43
AREA
9470
HEIGHT
6373
25-Jun-2024
18:50



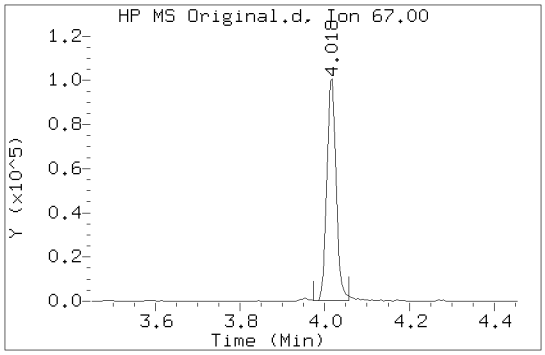
AFTER
MASS
43
AREA
9470
HEIGHT
6373
25-Jun-2024
19:32



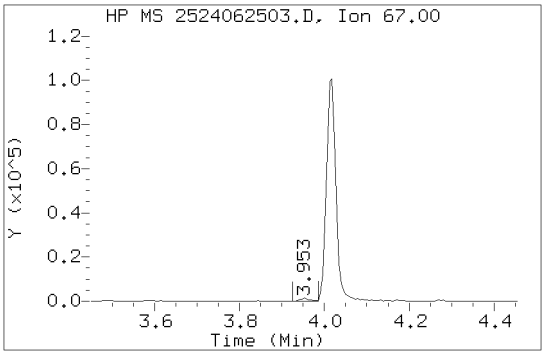
Methacrylonitrile (126-98-7)

Reason Code: H

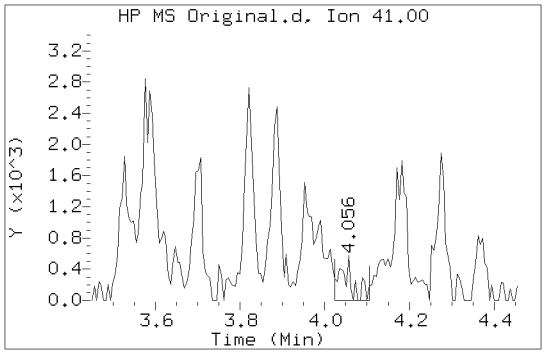
BEFORE
MASS
67
AREA
151134
HEIGHT
100353
25-Jun-2024
18:50



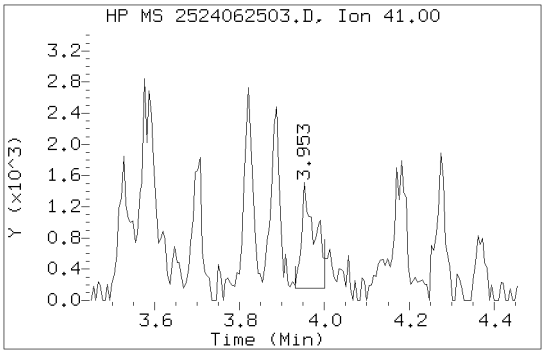
AFTER
MASS
67
AREA
2086
HEIGHT
1381
25-Jun-2024
19:32



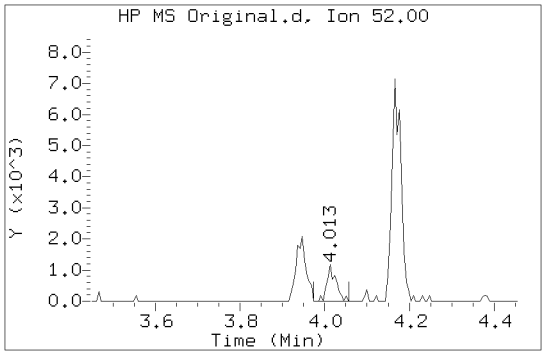
BEFORE
MASS
41
AREA
1170
HEIGHT
573
25-Jun-2024
18:50



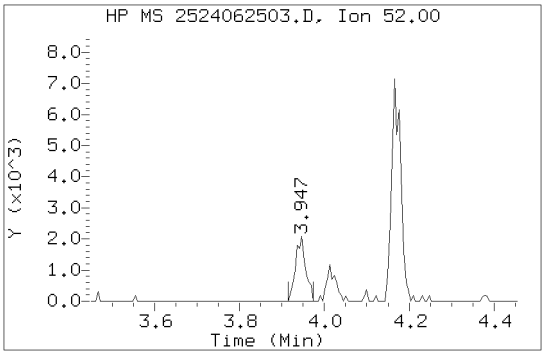
AFTER
MASS
41
AREA
2974
HEIGHT
1355
25-Jun-2024
19:32



BEFORE
MASS
52
AREA
1694
HEIGHT
1178
25-Jun-2024
18:50



AFTER
MASS
52
AREA
3467
HEIGHT
2088
25-Jun-2024
19:32

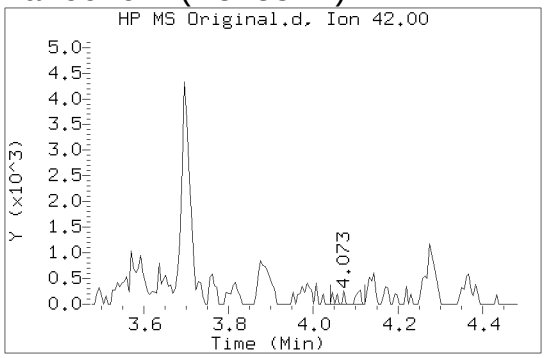


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LabSampID : VSTD00.5

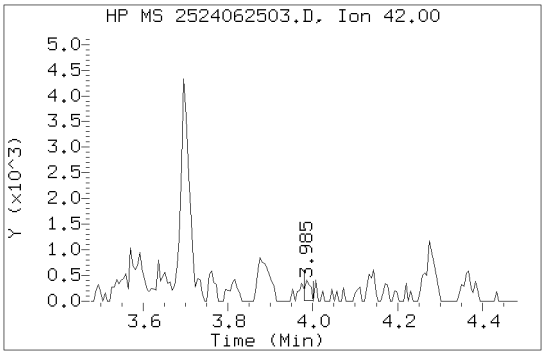
Isobutyl alcohol (78-83-1)

Reason Code: H

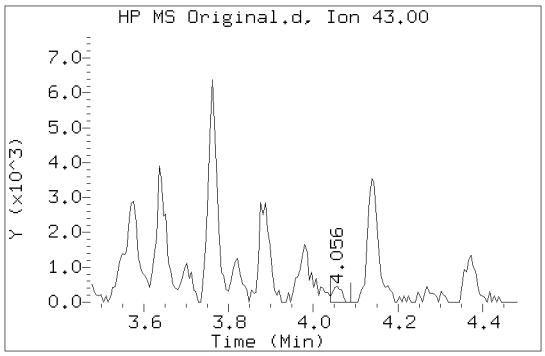
BEFORE
MASS
42
AREA
442
HEIGHT
269
25-Jun-2024
18:50



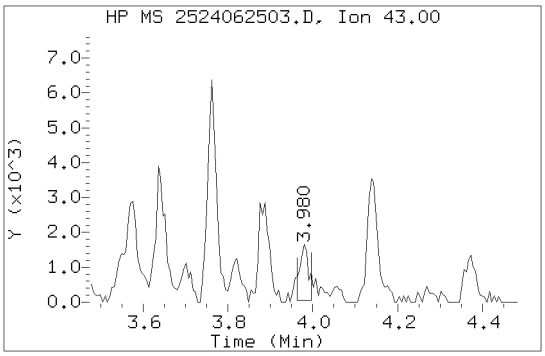
AFTER
MASS
42
AREA
394
HEIGHT
411
25-Jun-2024
19:32



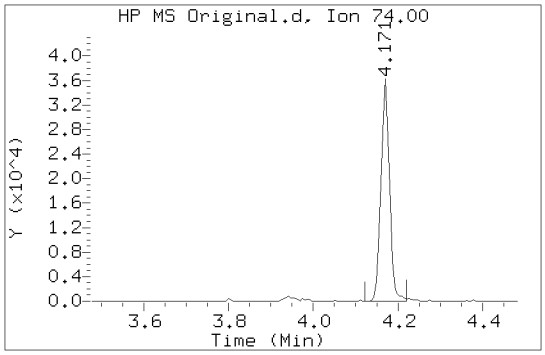
BEFORE
MASS
43
AREA
701
HEIGHT
454
25-Jun-2024
18:50



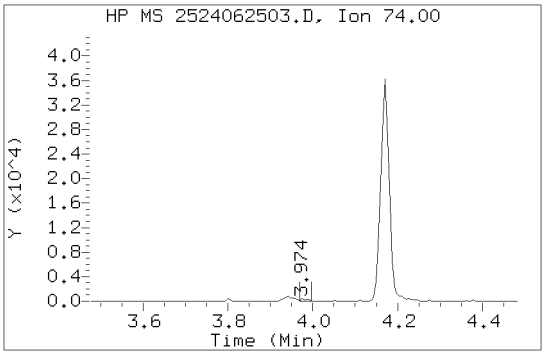
AFTER
MASS
43
AREA
2339
HEIGHT
1609
25-Jun-2024
19:32



BEFORE
MASS
74
AREA
50301
HEIGHT
36256
25-Jun-2024
18:50



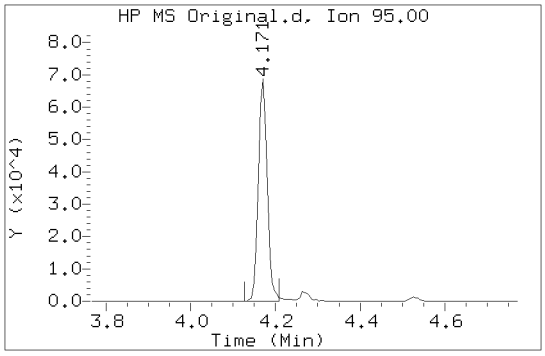
AFTER
MASS
74
AREA
400
HEIGHT
443
25-Jun-2024
19:32



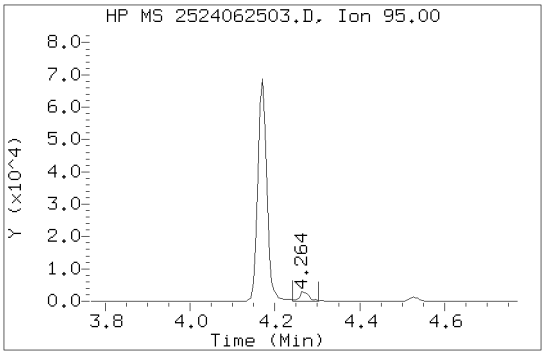
Trichloroethene (79-01-6)

Reason Code: H

BEFORE
MASS
95
AREA
100436
HEIGHT
68728
25-Jun-2024
18:50



AFTER
MASS
95
AREA
4490
HEIGHT
3049
25-Jun-2024
19:32

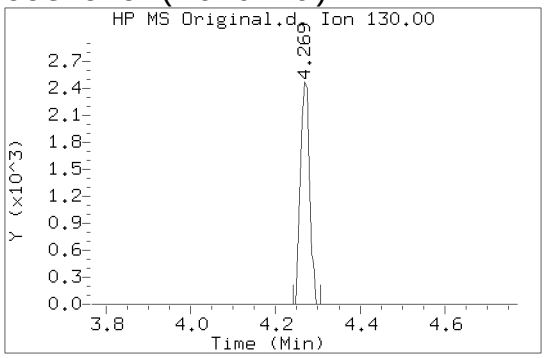


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LabSampID : VSTD00.5

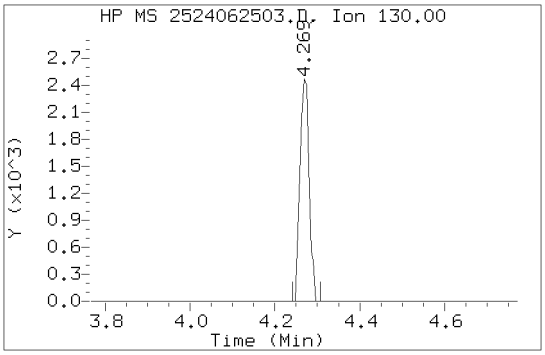
Trichloroethene (79-01-6)

Reason Code: H

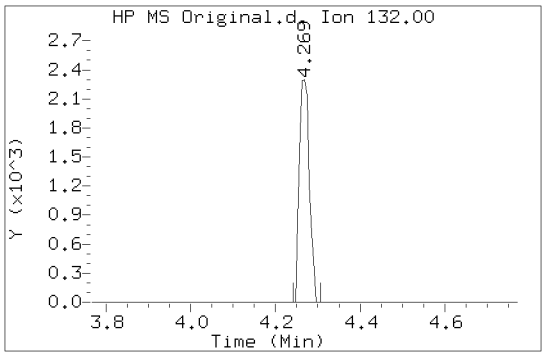
BEFORE
MASS
130
AREA
3727
HEIGHT
2468
25-Jun-2024
18:50



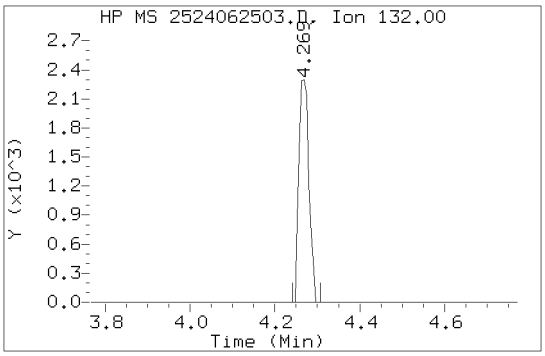
AFTER
MASS
130
AREA
3727
HEIGHT
2468
25-Jun-2024
19:32



BEFORE
MASS
132
AREA
3832
HEIGHT
2296
25-Jun-2024
18:50



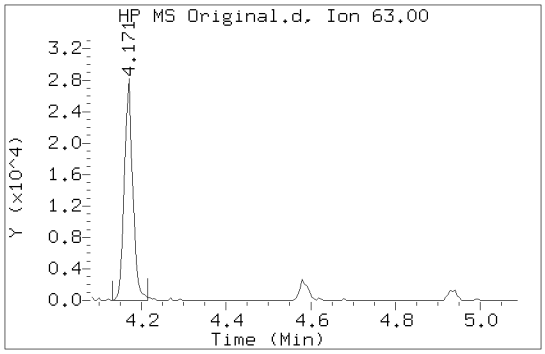
AFTER
MASS
132
AREA
3832
HEIGHT
2296
25-Jun-2024
19:32



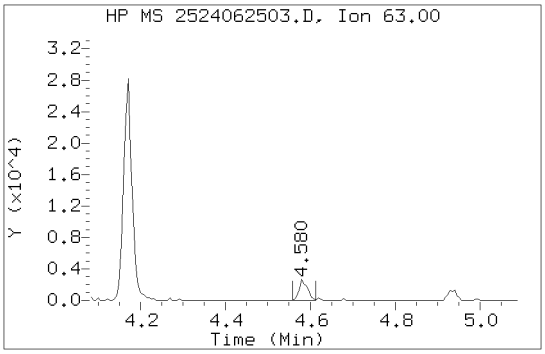
1,2-Dichloropropane (78-87-5)

Reason Code: H

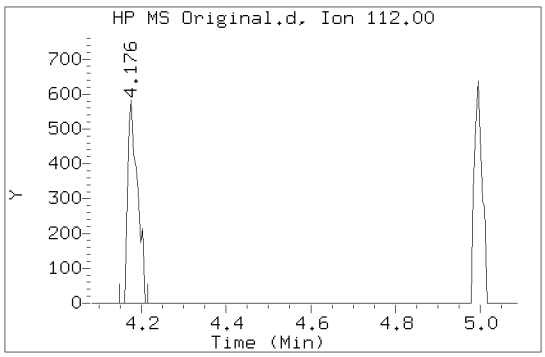
BEFORE
MASS
63
AREA
39289
HEIGHT
28192
25-Jun-2024
18:50



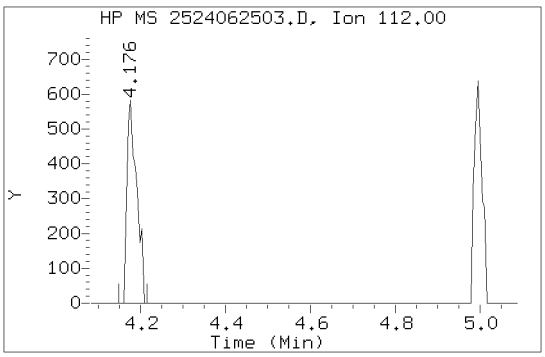
AFTER
MASS
63
AREA
3551
HEIGHT
2696
25-Jun-2024
19:32



BEFORE
MASS
112
AREA
932
HEIGHT
583
25-Jun-2024
18:50



AFTER
MASS
112
AREA
932
HEIGHT
583
25-Jun-2024
19:32

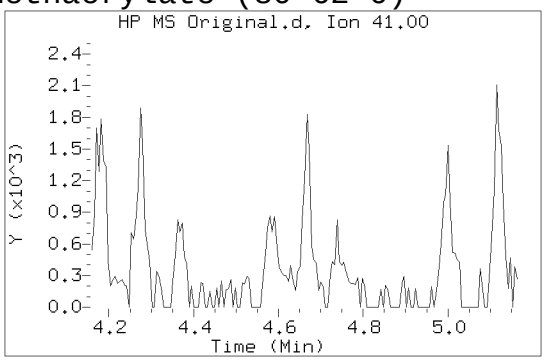


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

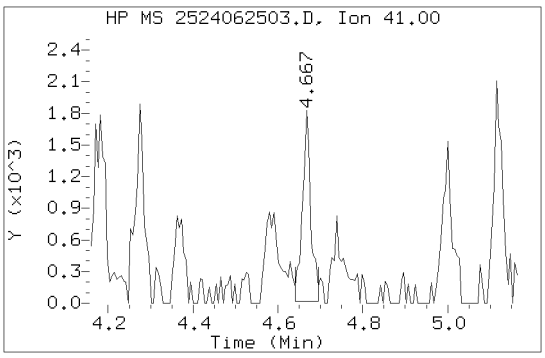
Methyl methacrylate (80-62-6)

Reason Code: IH

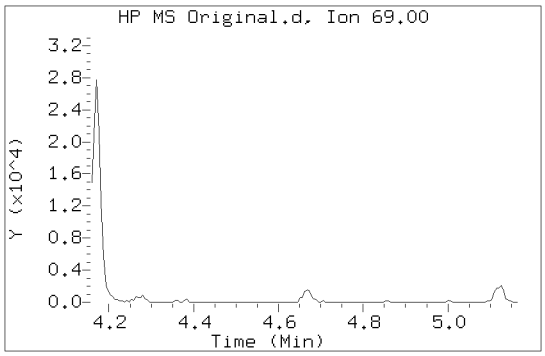
BEFORE
MASS
41
AREA
0
HEIGHT
0
25-Jun-2024
18:50



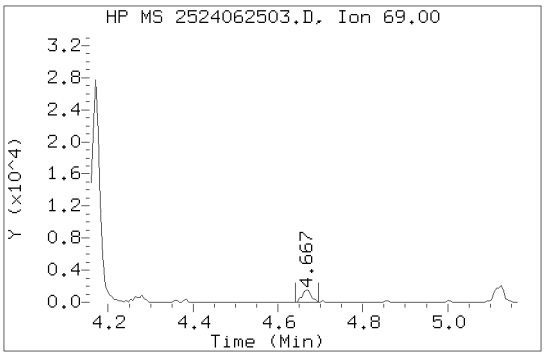
AFTER
MASS
41
AREA
2494
HEIGHT
1807
25-Jun-2024
19:32



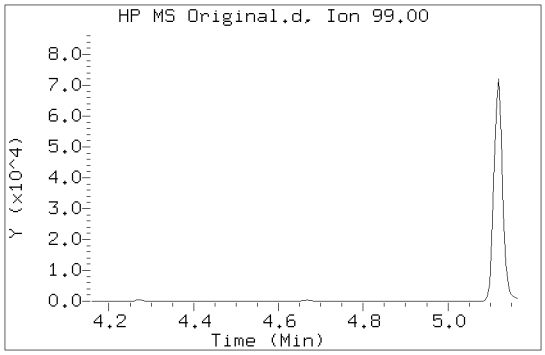
BEFORE
MASS
69
AREA
0
HEIGHT
0
25-Jun-2024
18:50



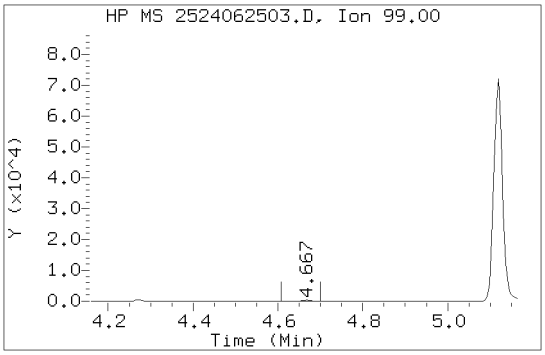
AFTER
MASS
69
AREA
2267
HEIGHT
1535
25-Jun-2024
19:32



BEFORE
MASS
99
AREA
0
HEIGHT
0
25-Jun-2024
18:50



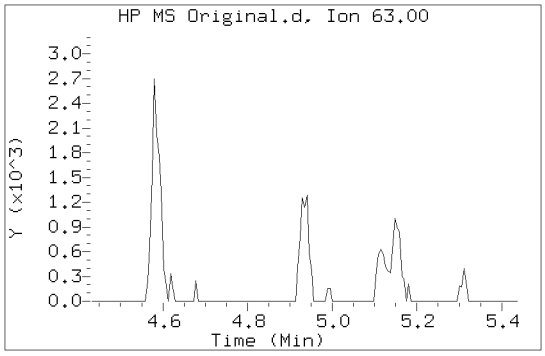
AFTER
MASS
99
AREA
362
HEIGHT
347
25-Jun-2024
19:32



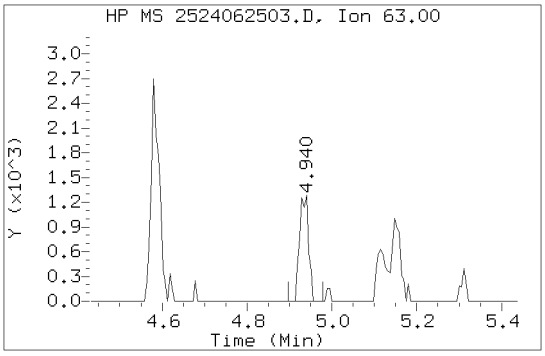
2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

BEFORE
MASS
63
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
63
AREA
1903
HEIGHT
1284
25-Jun-2024
19:32

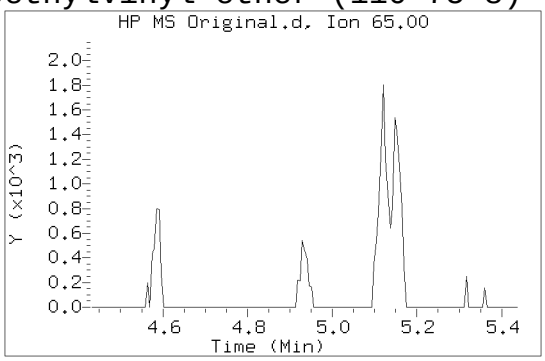


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Inj Date : 25-JUN-2024 11:03
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LabSampID : VSTD00.5

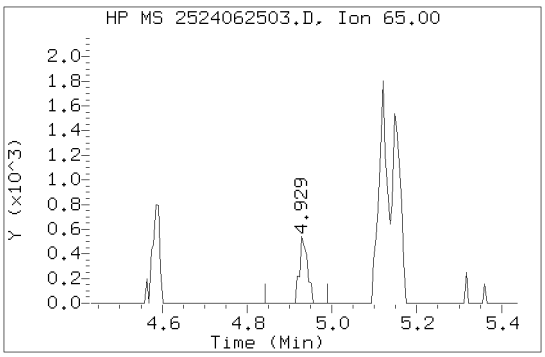
2-Chloroethylvinyl ether (110-75-8)

Reason Code: IH

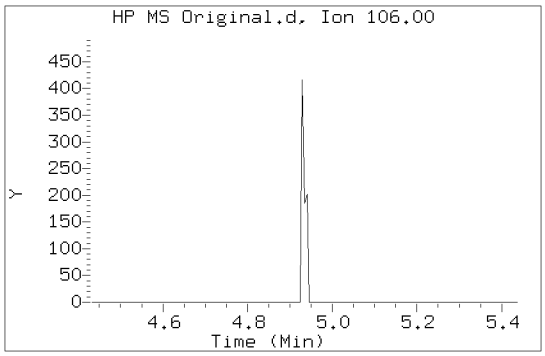
BEFORE
MASS
65
AREA
0
HEIGHT
0
25-Jun-2024
18:50



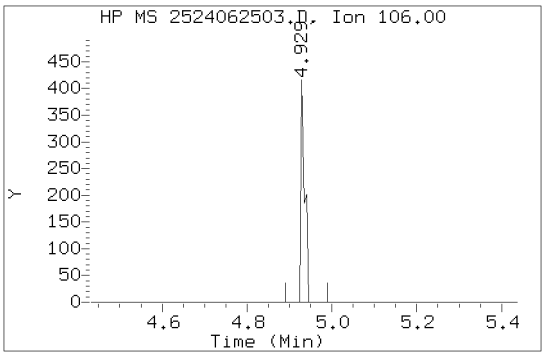
AFTER
MASS
65
AREA
708
HEIGHT
543
25-Jun-2024
19:32



BEFORE
MASS
106
AREA
0
HEIGHT
0
25-Jun-2024
18:50



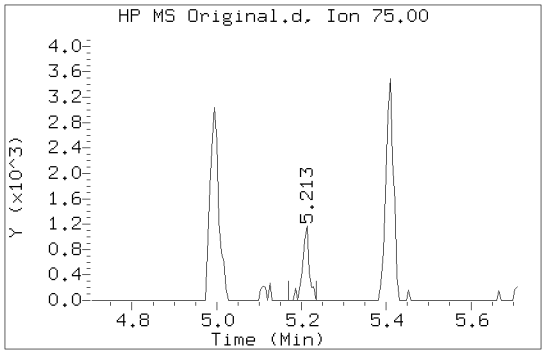
AFTER
MASS
106
AREA
262
HEIGHT
416
25-Jun-2024
19:32



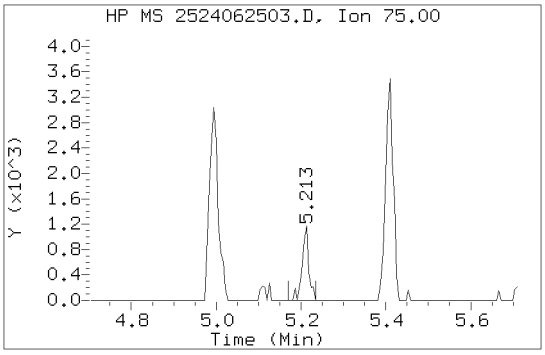
Chloroacetonitrile (107-14-2)

Reason Code: H

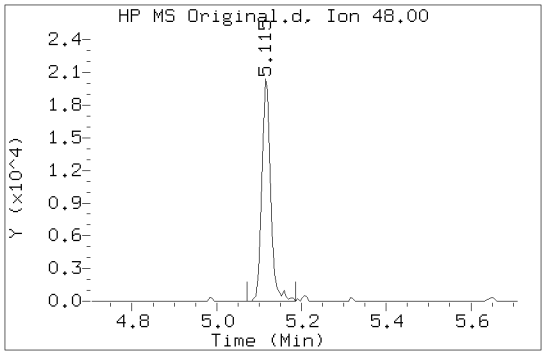
BEFORE
MASS
75
AREA
1271
HEIGHT
1174
25-Jun-2024
18:50



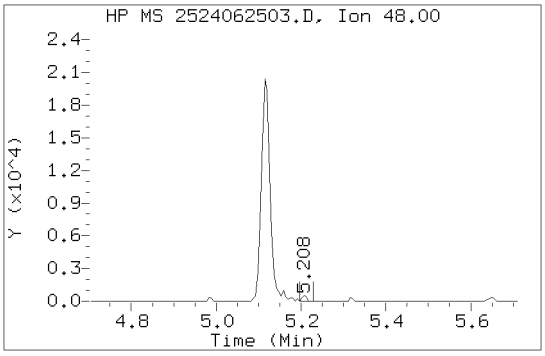
AFTER
MASS
75
AREA
1271
HEIGHT
1174
25-Jun-2024
19:32



BEFORE
MASS
48
AREA
29612
HEIGHT
20416
25-Jun-2024
18:50



AFTER
MASS
48
AREA
388
HEIGHT
520
25-Jun-2024
19:32

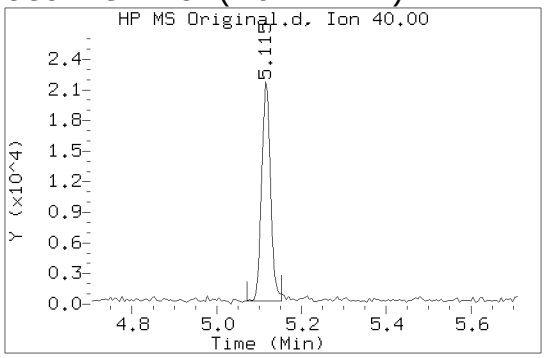


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InstruID : ms25.i
LabSampID : VSTD00.5

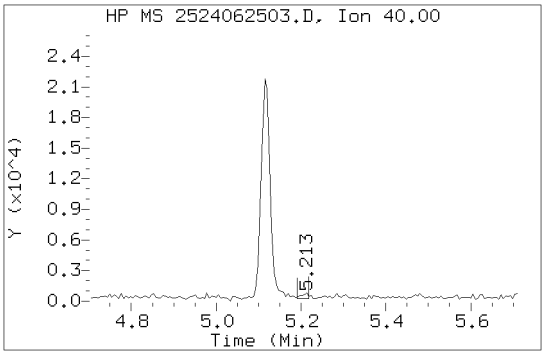
Chloroacetonitrile (107-14-2)

Reason Code: H

BEFORE
MASS
40
AREA
31606
HEIGHT
21477
25-Jun-2024
18:50



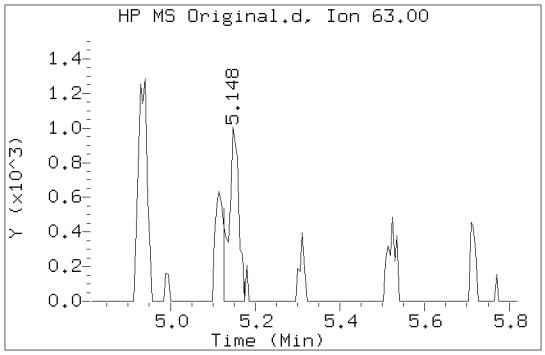
AFTER
MASS
40
AREA
602
HEIGHT
530
25-Jun-2024
19:32



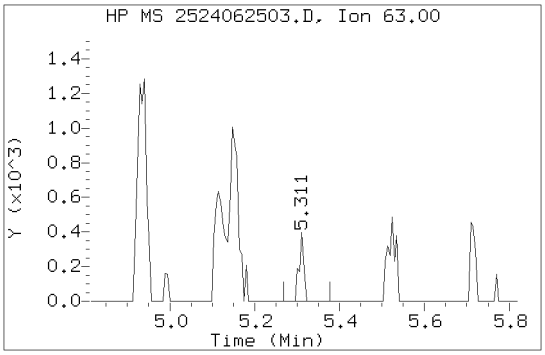
1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

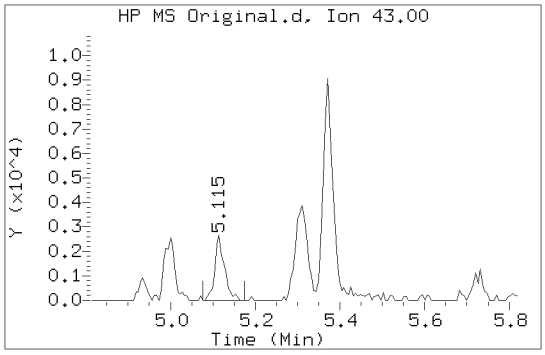
BEFORE
MASS
63
AREA
1657
HEIGHT
1005
25-Jun-2024
18:50



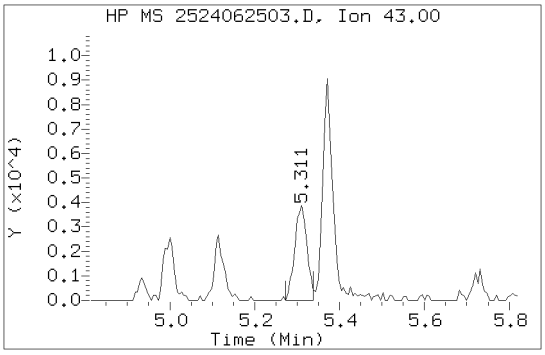
AFTER
MASS
63
AREA
307
HEIGHT
397
25-Jun-2024
19:32



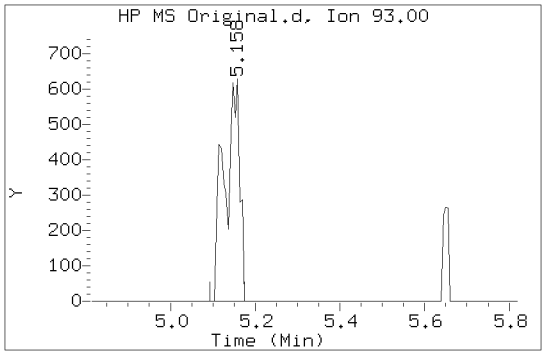
BEFORE
MASS
43
AREA
4212
HEIGHT
2670
25-Jun-2024
18:50



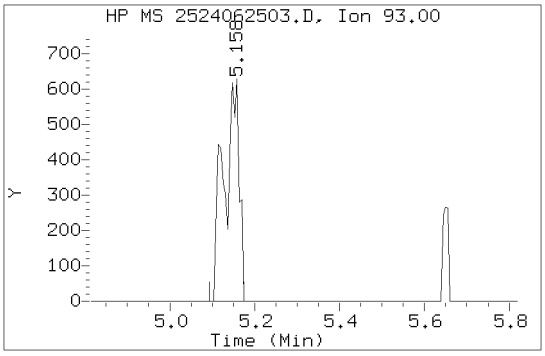
AFTER
MASS
43
AREA
7826
HEIGHT
3868
25-Jun-2024
19:32



BEFORE
MASS
93
AREA
1570
HEIGHT
629
25-Jun-2024
18:50



AFTER
MASS
93
AREA
1570
HEIGHT
629
25-Jun-2024
19:32

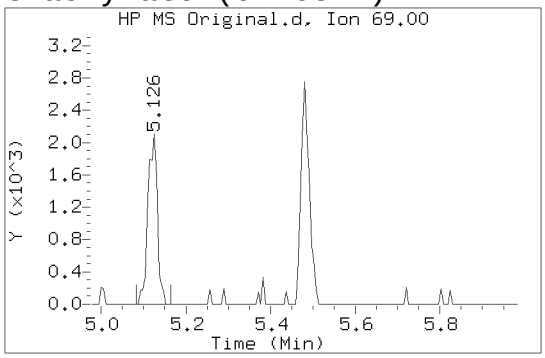


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

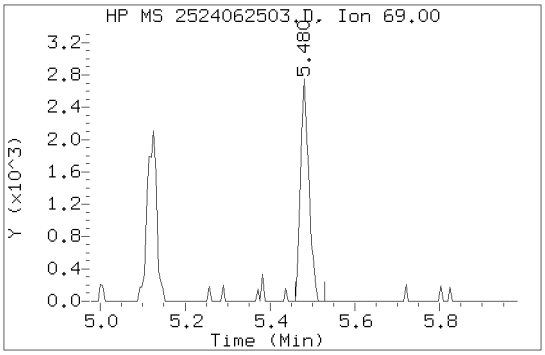
Ethyl Methacrylate (97-63-2)

Reason Code: H

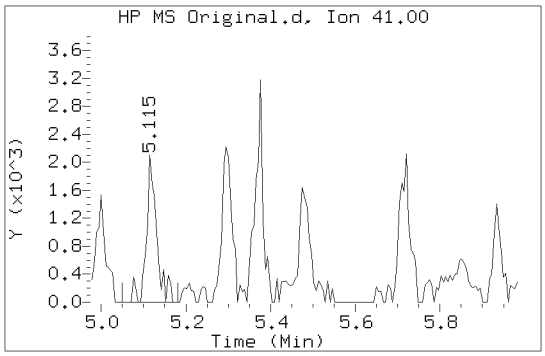
BEFORE
MASS
69
AREA
3279
HEIGHT
2105
25-Jun-2024
18:50



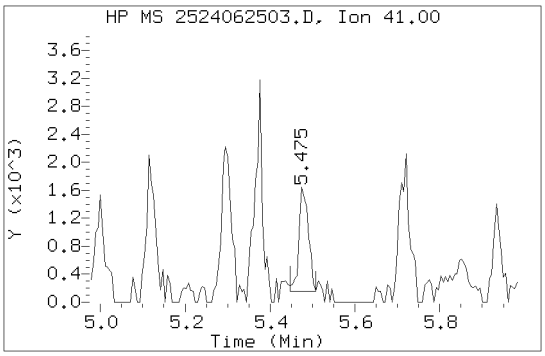
AFTER
MASS
69
AREA
3766
HEIGHT
2751
25-Jun-2024
19:32



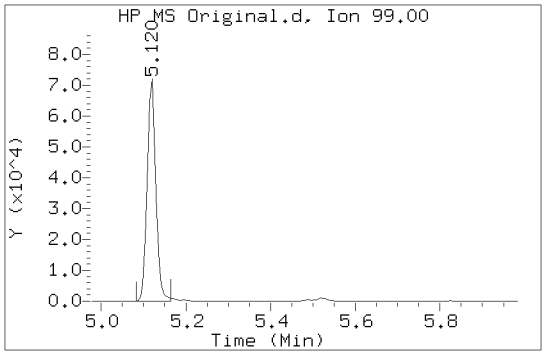
BEFORE
MASS
41
AREA
3522
HEIGHT
2108
25-Jun-2024
18:50



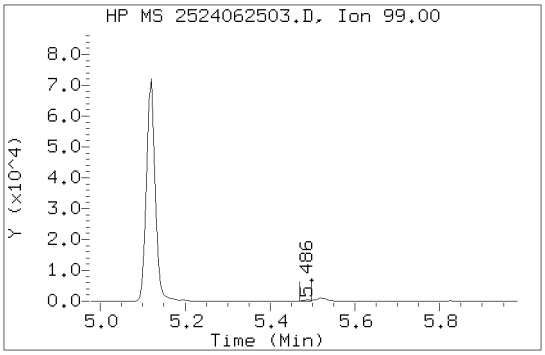
AFTER
MASS
41
AREA
2315
HEIGHT
1491
25-Jun-2024
19:32



BEFORE
MASS
99
AREA
103308
HEIGHT
72032
25-Jun-2024
18:50



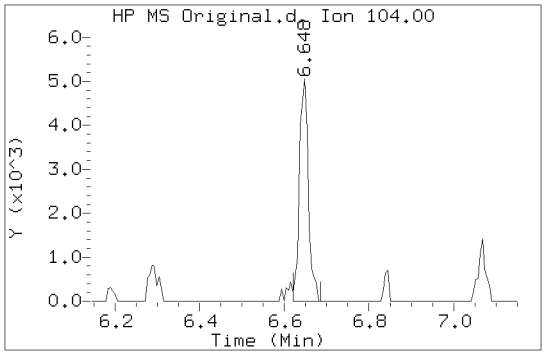
AFTER
MASS
99
AREA
564
HEIGHT
580
25-Jun-2024
19:32



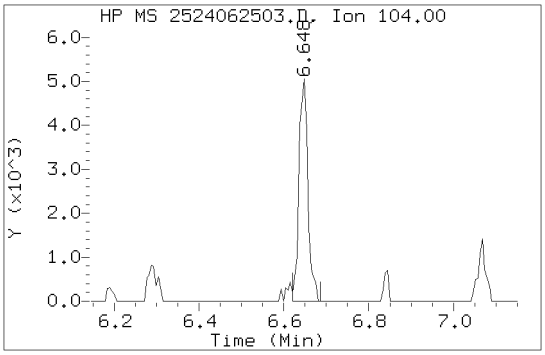
Styrene (100-42-5)

Reason Code: MP

BEFORE
MASS
104
AREA
7432
HEIGHT
5057
25-Jun-2024
18:50



AFTER
MASS
104
AREA
7432
HEIGHT
5057
25-Jun-2024
19:32

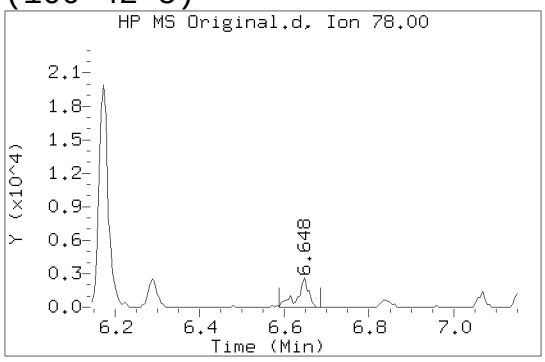


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Inj Date : 25-JUN-2024 11:03
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LabSampID : VSTD00.5

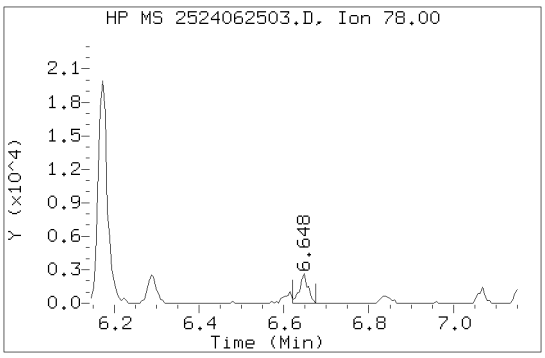
Styrene (100-42-5)

Reason Code: MP

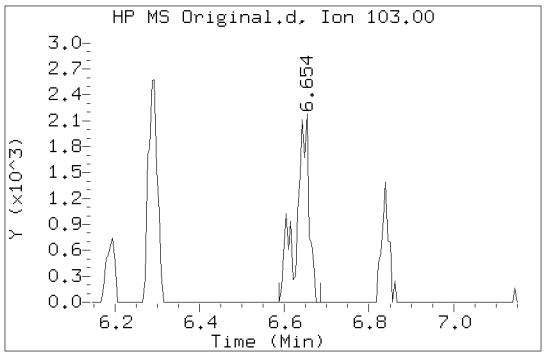
BEFORE
MASS
78
AREA
4781
HEIGHT
2634
25-Jun-2024
18:50



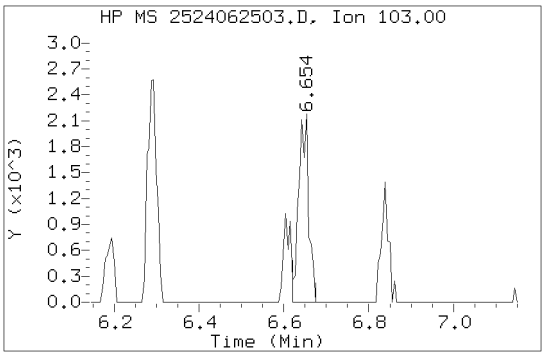
AFTER
MASS
78
AREA
3660
HEIGHT
2633
25-Jun-2024
19:32



BEFORE
MASS
103
AREA
4697
HEIGHT
2183
25-Jun-2024
18:50



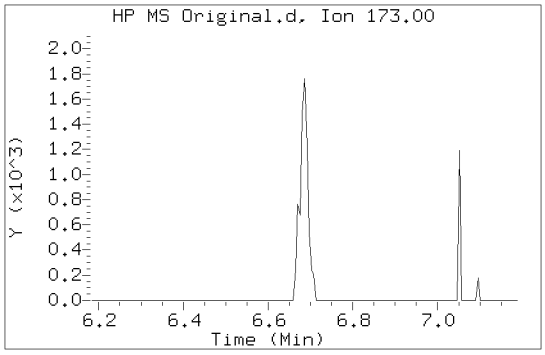
AFTER
MASS
103
AREA
3568
HEIGHT
2181
25-Jun-2024
19:32



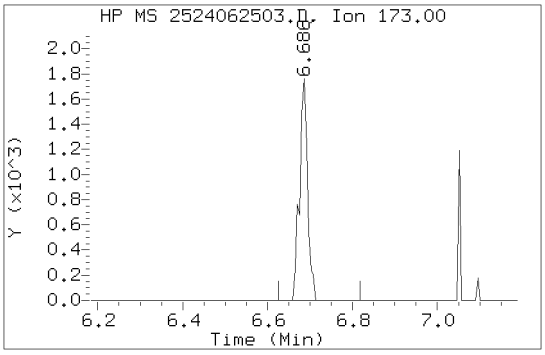
Bromoform (75-25-2)

Reason Code: IH

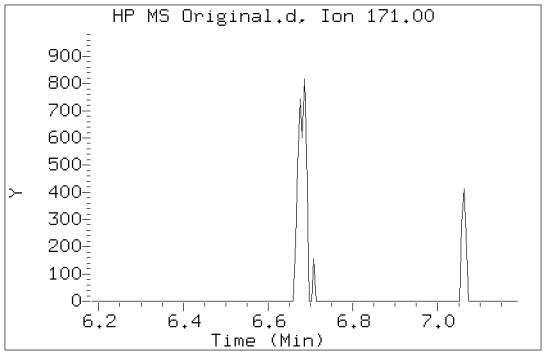
BEFORE
MASS
173
AREA
0
HEIGHT
0
25-Jun-2024
18:50



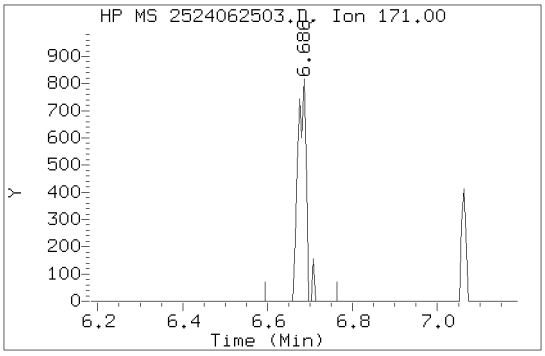
AFTER
MASS
173
AREA
2337
HEIGHT
1762
25-Jun-2024
19:32



BEFORE
MASS
171
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
171
AREA
1136
HEIGHT
817
25-Jun-2024
19:32

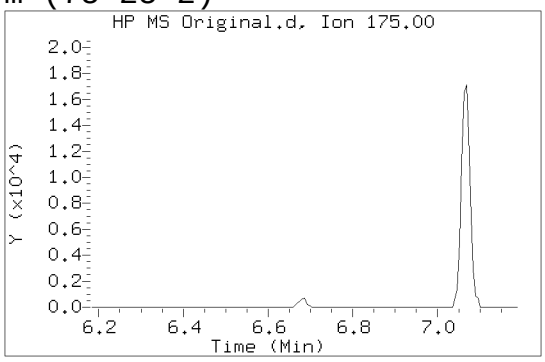


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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

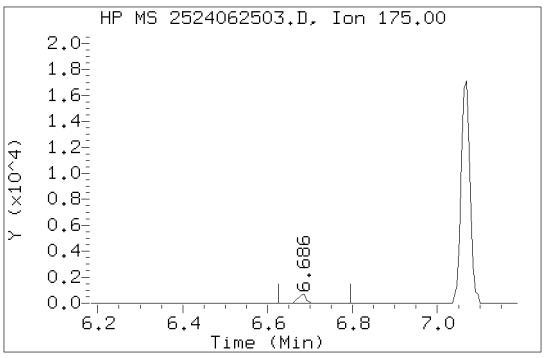
Bromoform (75-25-2)

Reason Code: IH

BEFORE
MASS
175
AREA
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HEIGHT
0
25-Jun-2024
18:50



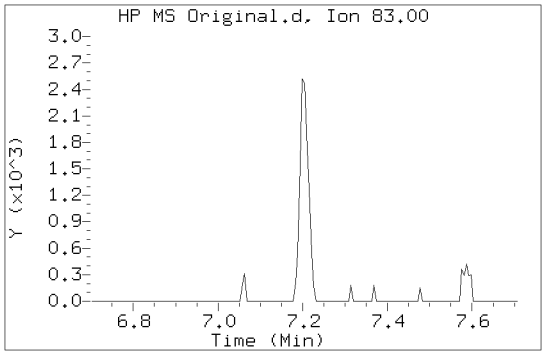
AFTER
MASS
175
AREA
874
HEIGHT
676
25-Jun-2024
19:32



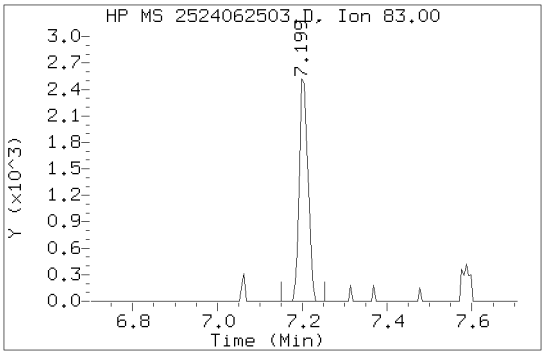
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code: IH

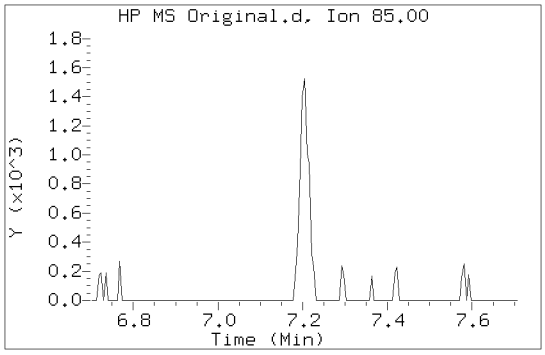
BEFORE
MASS
83
AREA
0
HEIGHT
0
25-Jun-2024
18:50



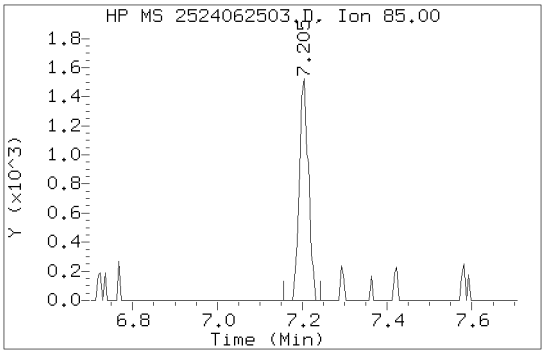
AFTER
MASS
83
AREA
3602
HEIGHT
2520
25-Jun-2024
19:32



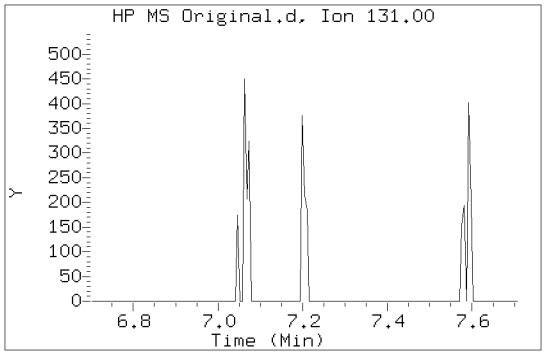
BEFORE
MASS
85
AREA
0
HEIGHT
0
25-Jun-2024
18:50



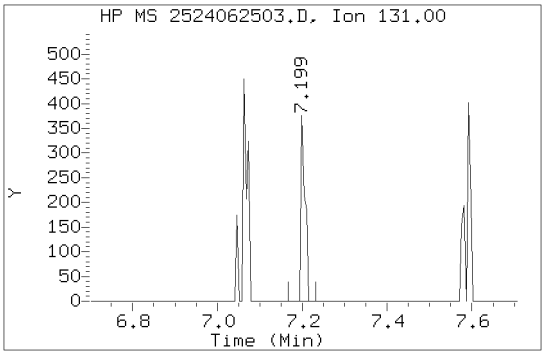
AFTER
MASS
85
AREA
2263
HEIGHT
1524
25-Jun-2024
19:32



BEFORE
MASS
131
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
131
AREA
253
HEIGHT
376
25-Jun-2024
19:32

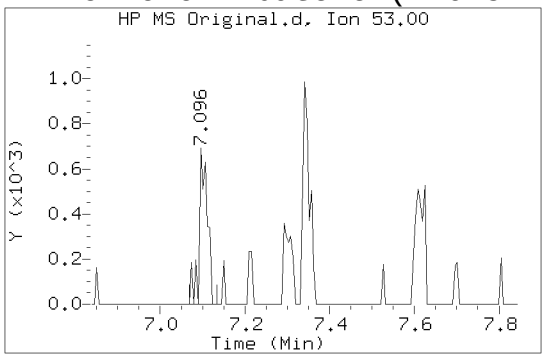


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LabSampID : VSTD00.5

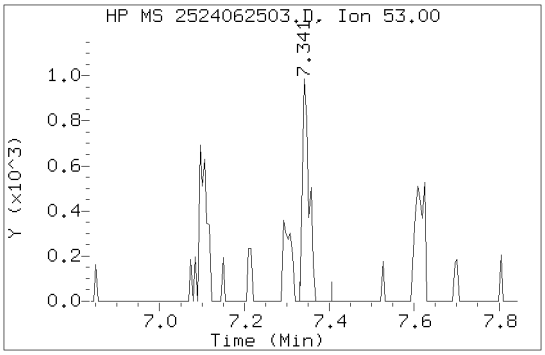
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: H

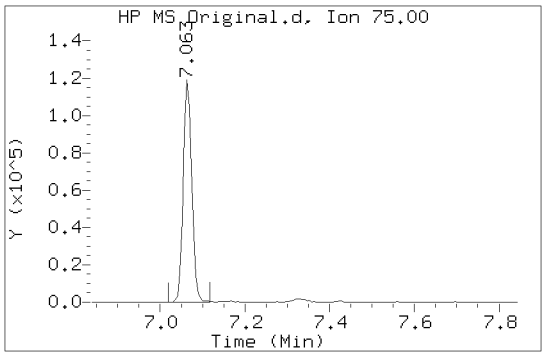
BEFORE
MASS
53
AREA
949
HEIGHT
694
25-Jun-2024
18:50



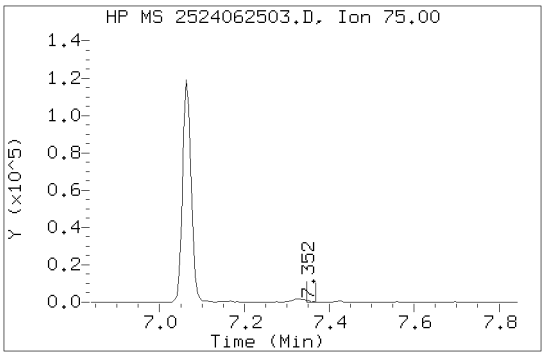
AFTER
MASS
53
AREA
1054
HEIGHT
986
25-Jun-2024
19:32



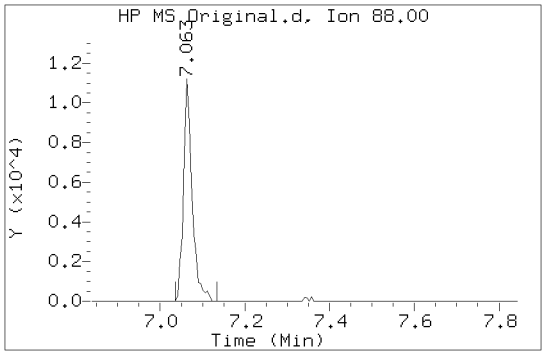
BEFORE
MASS
75
AREA
166839
HEIGHT
119104
25-Jun-2024
18:50



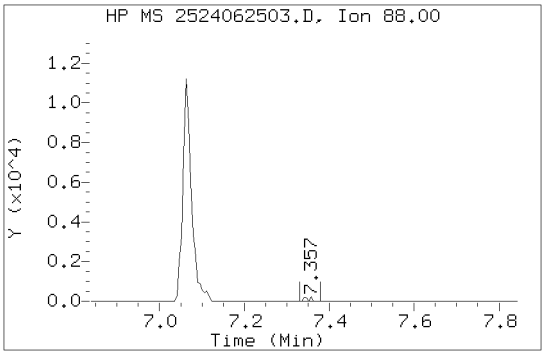
AFTER
MASS
75
AREA
731
HEIGHT
1082
25-Jun-2024
19:32



BEFORE
MASS
88
AREA
15893
HEIGHT
11208
25-Jun-2024
18:50



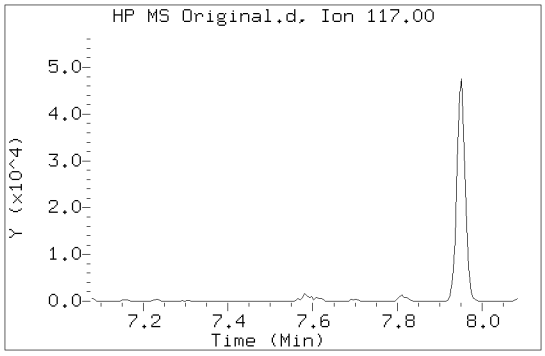
AFTER
MASS
88
AREA
202
HEIGHT
235
25-Jun-2024
19:32



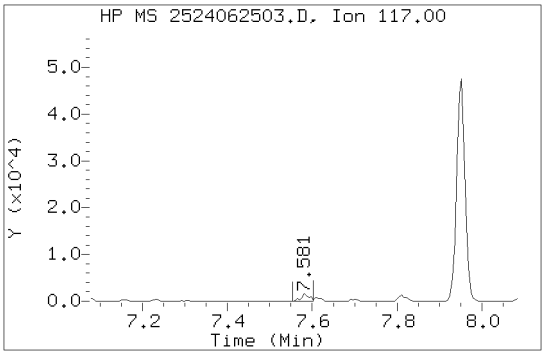
Pentachloroethane (76-01-7)

Reason Code: H

BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
117
AREA
2125
HEIGHT
1588
25-Jun-2024
19:32

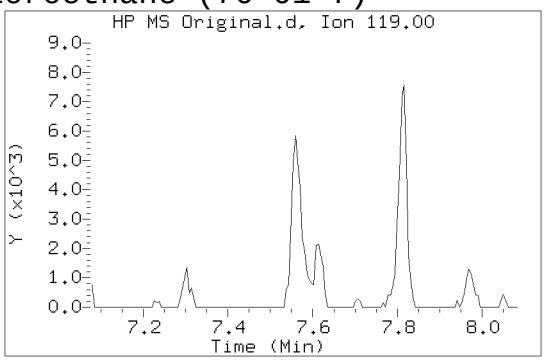


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Inj Date : 25-JUN-2024 11:03
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LabSampID : VSTD00.5

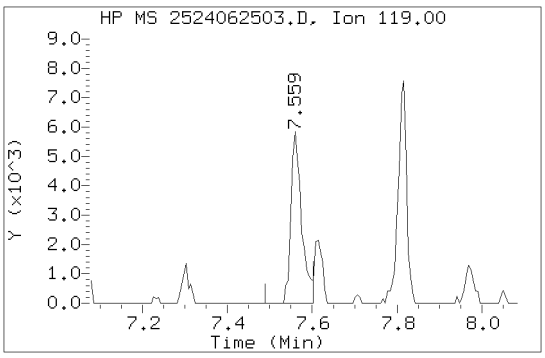
Pentachloroethane (76-01-7)

Reason Code: H

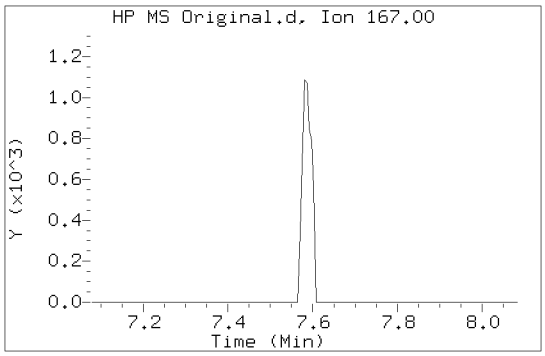
BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
18:50



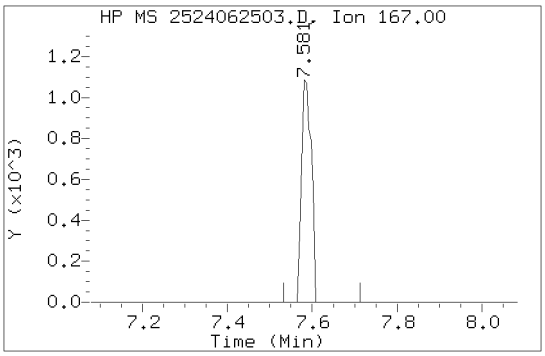
AFTER
MASS
119
AREA
10337
HEIGHT
5835
25-Jun-2024
19:32



BEFORE
MASS
167
AREA
0
HEIGHT
0
25-Jun-2024
18:50



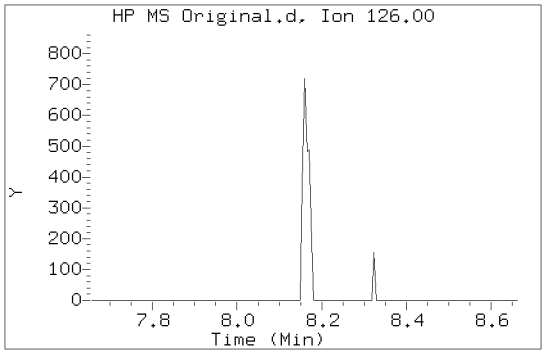
AFTER
MASS
167
AREA
1755
HEIGHT
1086
25-Jun-2024
19:32



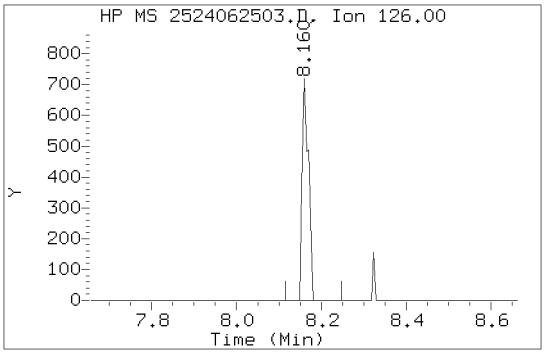
Benzyl Chloride (100-44-7)

Reason Code: IH

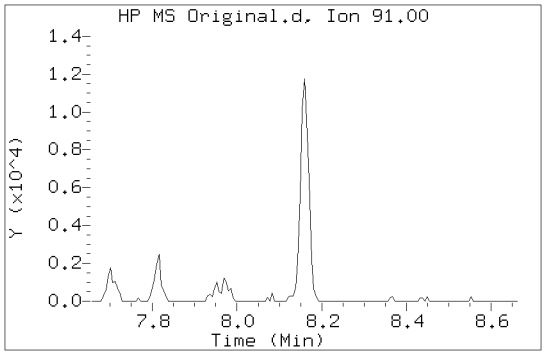
BEFORE
MASS
126
AREA
0
HEIGHT
0
25-Jun-2024
18:50



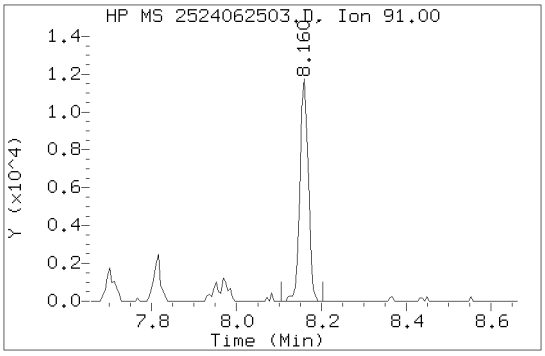
AFTER
MASS
126
AREA
736
HEIGHT
719
25-Jun-2024
19:32



BEFORE
MASS
91
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
91
AREA
16144
HEIGHT
11748
25-Jun-2024
19:32

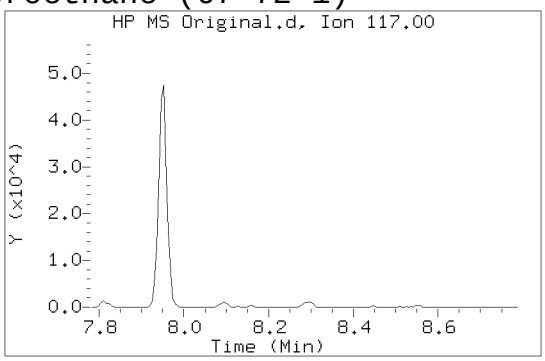


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LabSampID : VSTD00.5

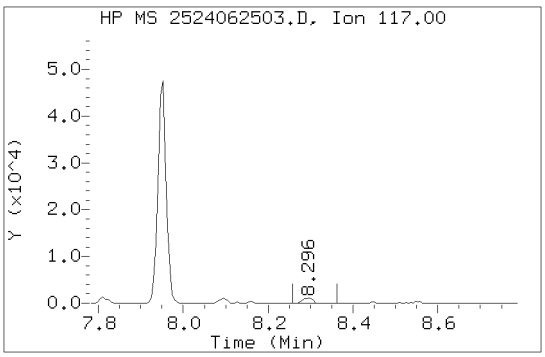
Hexachloroethane (67-72-1)

Reason Code: IH

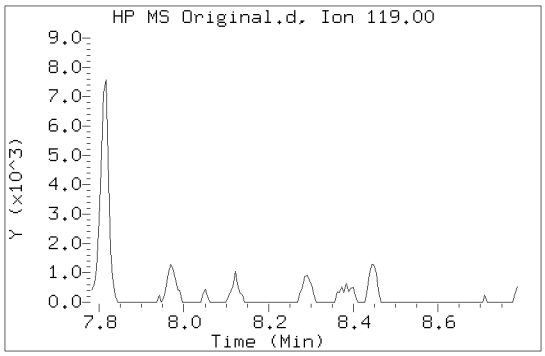
BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
18:50



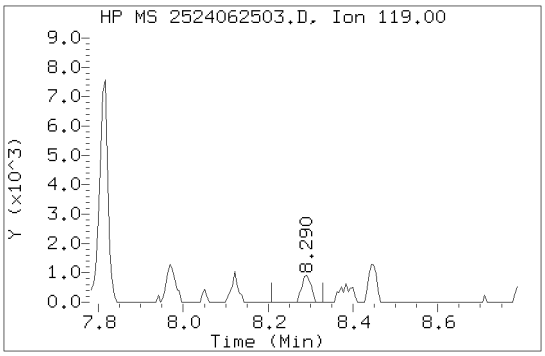
AFTER
MASS
117
AREA
1752
HEIGHT
1065
25-Jun-2024
19:32



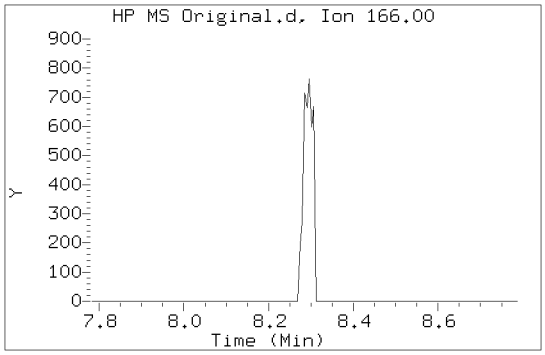
BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
18:50



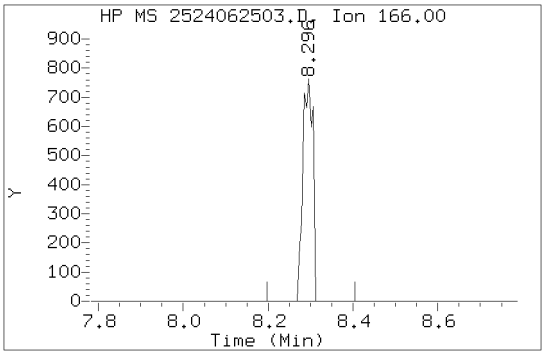
AFTER
MASS
119
AREA
1391
HEIGHT
916
25-Jun-2024
19:32



BEFORE
MASS
166
AREA
0
HEIGHT
0
25-Jun-2024
18:50



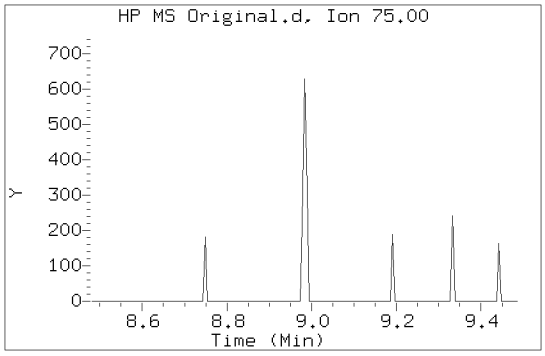
AFTER
MASS
166
AREA
1267
HEIGHT
763
25-Jun-2024
19:32



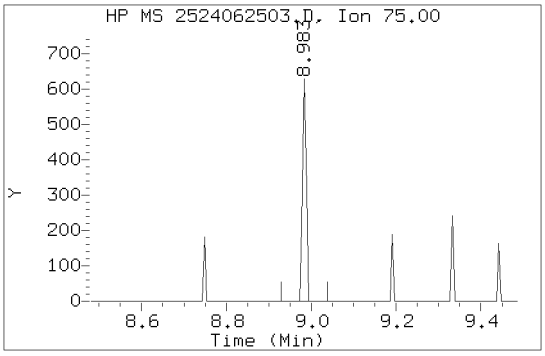
1,2-Dibromo-3-chloropropane (96-12-8)

Reason Code: IH

BEFORE
MASS
75
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
75
AREA
380
HEIGHT
629
25-Jun-2024
19:32

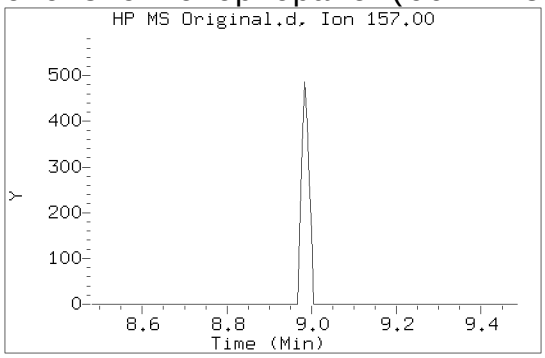


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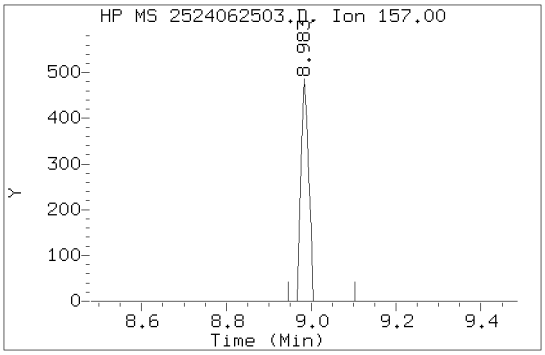
1,2-Dibromo-3-chloropropane (96-12-8)

Reason Code: IH

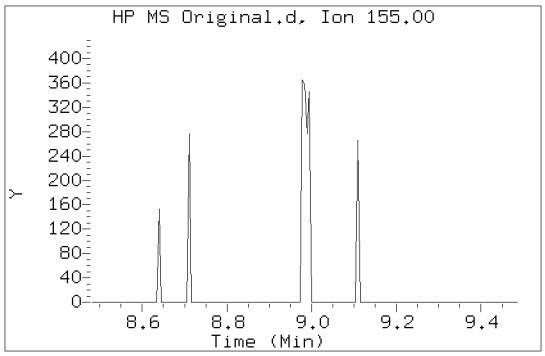
BEFORE
MASS
157
AREA
0
HEIGHT
0
25-Jun-2024
18:50



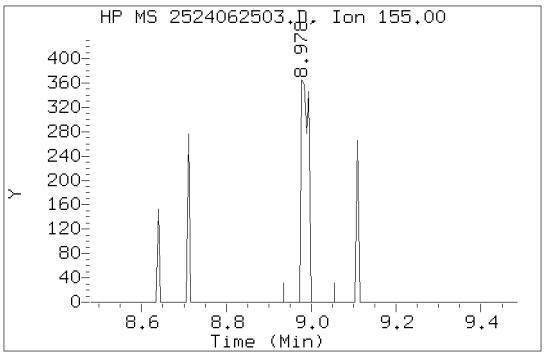
AFTER
MASS
157
AREA
607
HEIGHT
486
25-Jun-2024
19:32



BEFORE
MASS
155
AREA
0
HEIGHT
0
25-Jun-2024
18:50



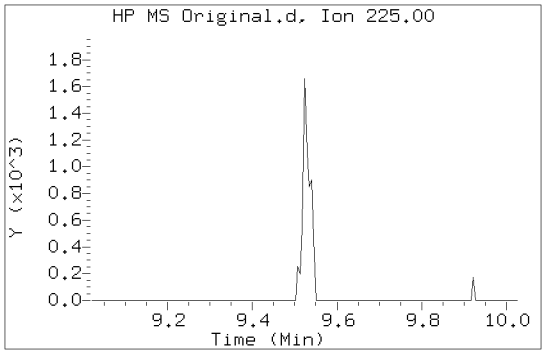
AFTER
MASS
155
AREA
440
HEIGHT
365
25-Jun-2024
19:32



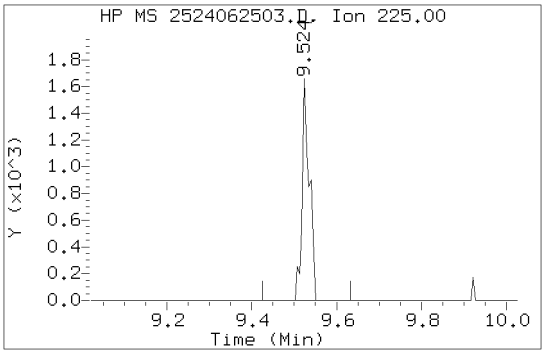
Hexachlorobutadiene (87-68-3)

Reason Code: IH

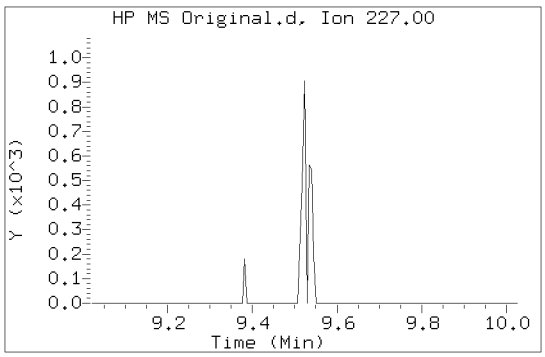
BEFORE
MASS
225
AREA
0
HEIGHT
0
25-Jun-2024
18:50



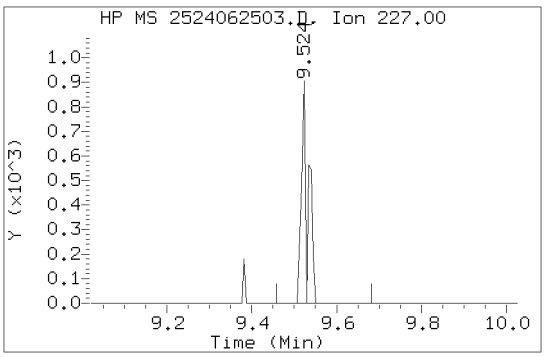
AFTER
MASS
225
AREA
1952
HEIGHT
1658
25-Jun-2024
19:32



BEFORE
MASS
227
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER
MASS
227
AREA
972
HEIGHT
906
25-Jun-2024
19:32



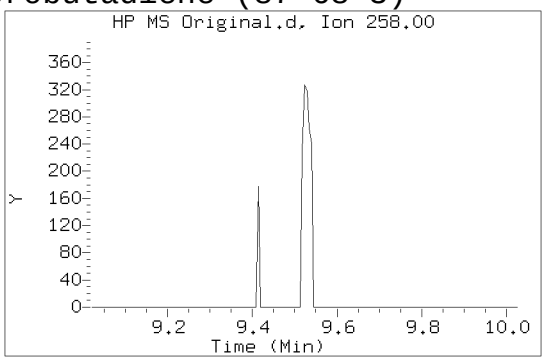
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Inj Date : 25-JUN-2024 11:03
InstruID : ms25.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code: IH

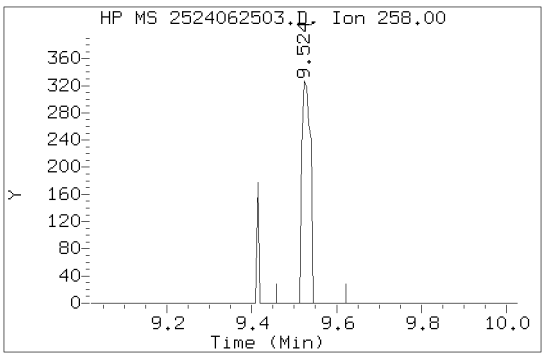
BEFORE

MASS
258
AREA
0
HEIGHT
0
25-Jun-2024
18:50



AFTER

MASS
258
AREA
450
HEIGHT
327
25-Jun-2024
19:32



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 11:03
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062504.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062504.D
Lab Smp Id: 1234
Inj Date : 25-JUN-2024 11:23
Operator : ILY Inst ID: ms25.i
Smp Info : 1234;;1;1;1;;;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	9759	1.00000	0.798759(a)	
2	Chloromethane	50	1.644	1.645	(0.394)	10647	1.00000	0.883614(a)	
3	Vinyl Chloride	62	1.704	1.705	(0.409)	11765	1.00000	0.851811(a)	
4	Bromomethane	94	1.922	1.923	(0.461)	8135	1.00000	0.801577(a)	
5	Chloroethane	64	2.004	2.005	(0.481)	12457	1.00000	1.03559	
6	Pentane	41	2.092	2.092	(0.502)	17356	1.00000	1.00059	
7	Trichlorofluoromethane	101	2.103	2.103	(0.504)	16496	1.00000	0.871950(a)	
8	Dichlorofluoromethane	67	2.124	2.125	(0.509)	14889	1.00000	0.850548(a)	
9	Ethyl Ether	74	2.277	2.278	(0.546)	4502	1.00000	0.845727(a)	
10	1,1-Dichloroethene	61	2.408	2.409	(0.577)	9580	1.00000	0.901873(a)	
11	Freon 113	101	2.424	2.425	(0.581)	6683	1.00000	0.894489(a)	
12	Carbon Disulfide	76	2.446	2.447	(0.587)	19710	1.00000	0.860158(a)	
13	Iodomethane	127	2.506	2.507	(0.601)	2132	1.00000	1.02386(Q)	
14	Acrolein	56	2.599	2.600	(0.623)	7284	5.00000	4.25125(Q)	
15	Isopropyl Alcohol	45	2.654	2.654	(0.636)	4784	5.00000	5.47317	
16	3-Chloro-1-propene	41	2.675	2.676	(0.642)	7346	1.00000	0.965171(a)	
17	Methylene Chloride	84	2.741	2.741	(0.657)	8206	1.00000	0.945742(a)	
18	Acetone	58	2.752	2.752	(0.660)	5095	5.00000	5.29999	
19	Methyl acetate	74	2.812	2.812	(0.674)	2657	1.00000	0.934498(a)	
20	trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	9408	1.00000	0.904277(a)	
21	Hexane	57	2.866	2.867	(0.687)	20884	1.00000	0.920374(a)	

Data File: 2524062504.D
Report Date: 25-Jun-2024 19:32

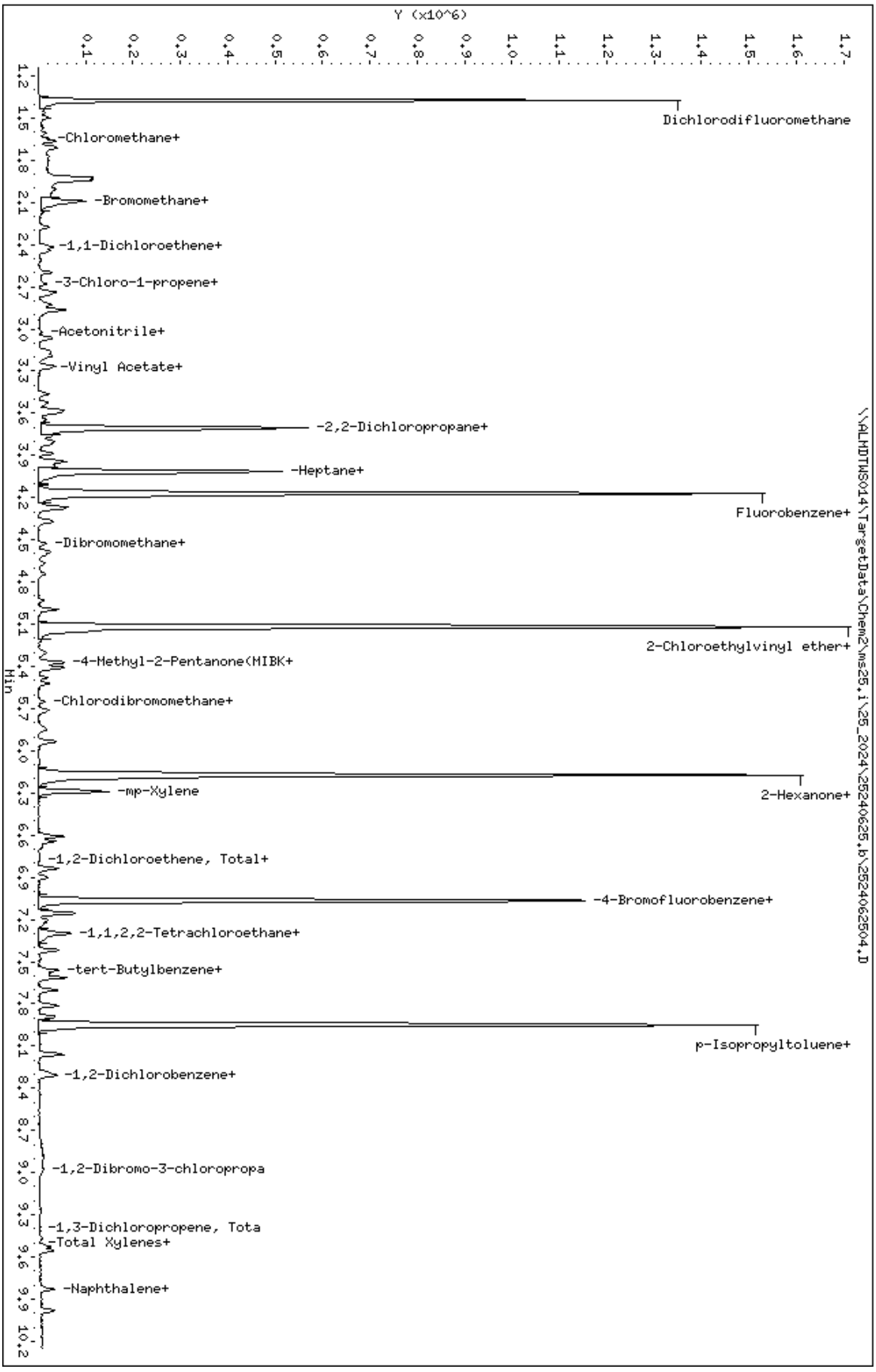
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	19555	1.00000	0.960311(aQ)	
	23 tert.- Butyl Alcohol	59	2.888	2.889	(0.693)	4416	5.00000	4.60155	
	24 Acetonitrile	41	3.019	3.020	(0.724)	4555	5.00000	4.23730(Q)	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	20480	1.00000	0.886965(a)	
	26 Chloroprene	53	3.156	3.156	(0.757)	9725	1.00000	0.830748(a)	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	12220	1.00000	0.862135(a)	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	15210	5.00000	4.12033(M)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	20293	1.00000	0.827489(a)	
	30 n-Propanol	41	3.259	3.260	(0.782)	4454	10.0000	9.79133(QM)	MP
	31 Vinyl Acetate	86	3.276	3.276	(0.785)	1240	1.00000	0.891049(aQ)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	9228	1.00000	0.874773(a)	
	33 2,2-Dichloropropane	77	3.521	3.522	(0.844)	9944	1.00000	0.880243(a)	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	3622	1.00000	0.796188(a)	
	35 Cyclohexane	84	3.587	3.587	(0.860)	11261	1.00000	0.889664(a)	
	36 Chloroform	83	3.598	3.598	(0.863)	12667	1.00000	0.827831(a)	
	37 Ethyl Acetate	43	3.641	3.642	(0.873)	8670	1.00000	0.860873(a)	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	7047	1.00000	0.829585(aQ)	
	39 Carbon Tetrachloride	117	3.696	3.696	(0.886)	6249	1.00000	0.966574(aM)	MP
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	257474	30.0000	29.5526	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	11632	5.00000	4.47919	
	42 1,1,1-Trichloroethane	97	3.739	3.740	(0.897)	10242	1.00000	0.859956(a)	
	43 2-Butanone	72	3.767	3.767	(0.903)	5763	5.00000	4.59056	
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	9289	1.00000	0.824536(a)	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	6138	1.00000	0.847236(a)	
	46 Heptane	71	3.887	3.887	(0.932)	5903	1.00000	0.901887(aQ)	
	47 Benzene	78	3.941	3.942	(0.945)	31790	1.00000	0.918073(a)	
	48 Propionitrile	54	3.941	3.942	(0.945)	6433	5.00000	4.60203(Q)	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	3144	1.00000	0.750289(aQM)	H
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	20603	1.00000	0.870331(a)	
	54 Isobutyl alcohol	42	3.980	3.980	(0.954)	1830	10.0000	12.5329(QM)	MP
$	51 1,2-Dichloroethane-d4	65	4.012	4.013	(0.962)	278313	30.0000	30.3035	
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	10009	1.00000	0.919501(aQ)	
	53 tert-Amyl Alcohol	59	4.061	4.062	(0.974)	3778	5.00000	5.13106	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1104188	30.0000		
	56 Diisobutylene	57	4.170	4.171	(1.000)	50206	1.00000	0.910347(aQ)	
	57 Trichloroethene	95	4.269	4.269	(1.024)	7711	1.00000	0.879887(a)	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	12703	1.00000	0.929667(a)	
	59 tert-Amyl Ethylether	59	4.372	4.373	(1.048)	14413	1.00000	0.956612(a)	
	60 Dibromomethane	93	4.525	4.526	(1.085)	4615	1.00000	0.833015(a)	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	7377	1.00000	0.885179(a)	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	7191	1.00000	0.946015(a)	
	63 Methyl methacrylate	41	4.662	4.662	(1.118)	5964	1.00000	0.904227(aM)	IH
	64 1,4-Dioxane	88	4.722	4.722	(1.132)	2745	25.0000	21.2773(Q)	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	3719	1.00000	0.975581(a)	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	10566	1.00000	1.01868	
	67 Octane	85	5.000	5.000	(0.810)	4330	1.00000	0.835760(a)	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1006001	30.0000	30.1635	
	69 Toluene	92	5.153	5.153	(0.835)	19855	1.00000	0.939263(a)	
	70 Chloroacetonitrile	75	5.207	5.208	(0.844)	2128	5.00000	4.03819(M)	H
	71 2-Nitropropane	41	5.300	5.300	(0.859)	7049	5.00000	4.88782(Q)	
	72 1,1-Dichloro-2-Propanone	63	5.316	5.317	(0.861)	649	5.00000	4.81139(QM)	H
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	29113	5.00000	4.48308	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	8929	1.00000	0.969277(a)	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	6888	1.00000	0.894846(a)	

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Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
76	Ethyl Methacrylate	69	5.480	5.481	(0.888)	8256	1.00000	0.959694(aM)	H
77	1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	6199	1.00000	0.954452(a)	
78	Chlorodibromomethane	129	5.649	5.650	(0.915)	5551	1.00000	0.966990(a)	
79	1,3-Dichloropropane	76	5.709	5.710	(0.925)	11310	1.00000	0.881368(a)	
80	1,2-Dibromoethane	107	5.829	5.830	(0.944)	6550	1.00000	0.988273(a)	
81	2-Hexanone	43	5.933	5.933	(0.961)	21128	5.00000	4.78219	
82	1-Chlorohexane	91	6.146	6.146	(0.996)	8250	1.00000	0.741857(aQM)	I
* 83	Chlorobenzene-d5	82	6.173	6.174	(1.000)	421251	30.0000		
84	Chlorobenzene	112	6.184	6.184	(1.002)	18599	1.00000	0.863383(a)	
85	Ethylbenzene	106	6.189	6.190	(1.003)	13774	1.00000	0.962259(aQ)	
86	1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	4988	1.00000	0.927321(aQ)	
87	mp-Xylene	106	6.288	6.288	(1.019)	36347	2.00000	1.65723	
88	o-Xylene	106	6.610	6.610	(1.071)	13278	1.00000	0.926224(a)	
89	Styrene	104	6.648	6.648	(0.836)	15866	1.00000	1.00647(M)	MP
90	Bromoform	173	6.686	6.686	(0.841)	3823	1.00000	0.967694(a)	
91	Isopropylbenzene	105	6.839	6.839	(0.860)	26101	1.00000	0.981453(a)	
M 100	1,2-Dichloroethene, Total	61				18636	2.00000	1.77905	
$ 92	4-Bromofluorobenzene	174	7.068	7.068	(0.889)	306032	30.0000	29.5640	
93	Bromobenzene	156	7.155	7.156	(0.900)	7998	1.00000	0.904064(a)	
94	n-Propylbenzene	120	7.155	7.156	(0.900)	7505	1.00000	0.829613(aQ)	
95	1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	7231	1.00000	0.822362(a)	
96	o-Chlorotoluene	91	7.292	7.292	(0.917)	21107	1.00000	0.886814(a)	
97	1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	22064	1.00000	0.876358(a)	
98	1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	2707	1.00000	0.954519(a)	
99	trans-1,4-Dichloro-2-butene	53	7.341	7.341	(0.923)	1628	1.00000	0.890063(aM)	H
101	p-Chlorotoluene	91	7.417	7.418	(0.933)	18321	1.00000	0.849824(a)	
102	tert-Butylbenzene	134	7.559	7.559	(0.951)	4719	1.00000	0.783690(aQ)	
103	Pentachloroethane	117	7.581	7.581	(0.953)	4178	1.00000	0.978968(aM)	MP
104	1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	27718	1.00000	0.890516(a)	
105	sec-Butylbenzene	105	7.706	7.707	(0.969)	25418	1.00000	0.816857(a)	
106	p-Isopropyltoluene	134	7.815	7.816	(0.983)	5960	1.00000	0.836400(a)	
107	1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	13700	1.00000	0.919202(a)	
* 108	1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	374177	30.0000	(Q)	
109	1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	13912	1.00000	0.895502(aQM)	I
110	Benzyl Chloride	126	8.159	8.160	(1.026)	2620	1.00000	1.16660(Q)	
111	n-Butylbenzene	134	8.159	8.160	(1.026)	5626	1.00000	0.844859(aQ)	
112	Hexachloroethane	117	8.285	8.285	(1.042)	3087	1.00000	0.962691(aQM)	IH
113	1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	12858	1.00000	0.905673(a)	
114	1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	1191	1.00000	1.11644(Q)	
115	Nitrobenzene	77	9.463	9.464	(1.190)	3058	10.0000	6.30658	
116	Hexachlorobutadiene	225	9.523	9.524	(1.198)	2971	1.00000	0.880953(a)	
M 120	1,3-Dichloropropene, Total	75				19495	2.00000	1.98796	
117	1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	7990	1.00000	0.849831(a)	
M 121	Total Xylenes	106				49625	3.00000	2.58346	
118	Naphthalene	128	9.829	9.829	(1.236)	18088	1.00000	0.970581(a)	
119	1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	7150	1.00000	0.964947(a)	

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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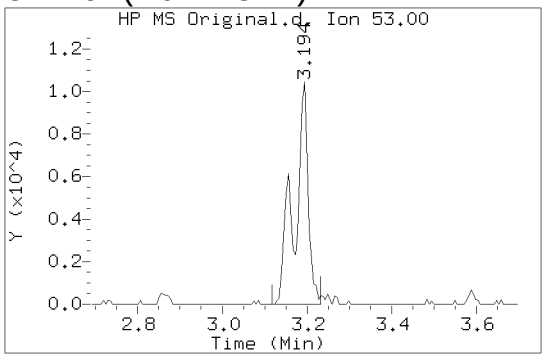
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Operator: ILY
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Inj Date : 25-JUN-2024 11:23
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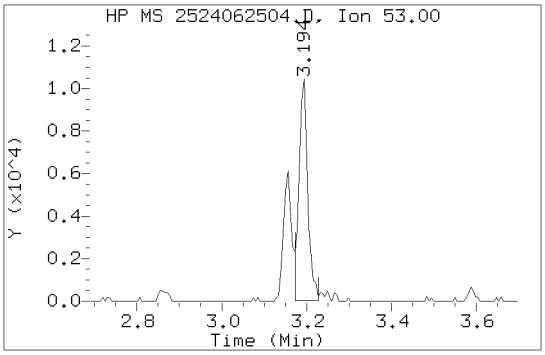
Acrylonitrile (107-13-1)

Reason Code: MP

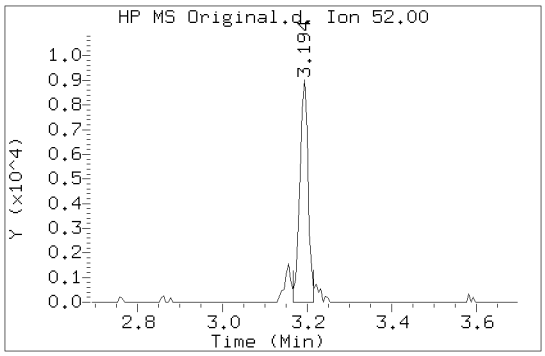
BEFORE
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53
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23271
HEIGHT
10451
25-Jun-2024
18:43



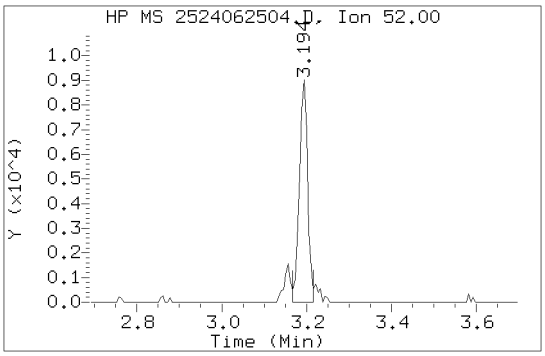
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25-Jun-2024
19:31



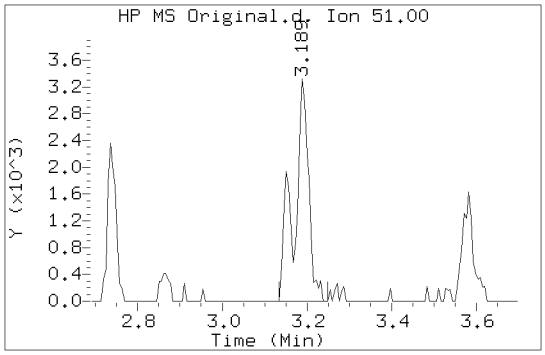
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25-Jun-2024
18:43



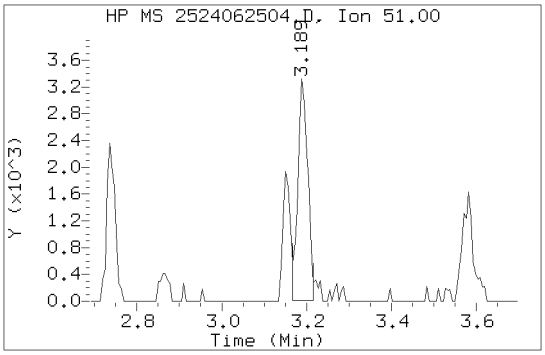
AFTER
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25-Jun-2024
19:31



BEFORE
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25-Jun-2024
18:43



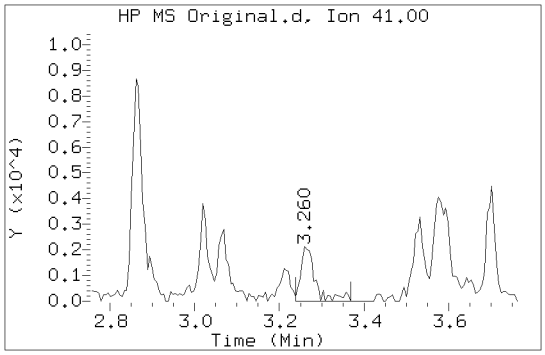
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25-Jun-2024
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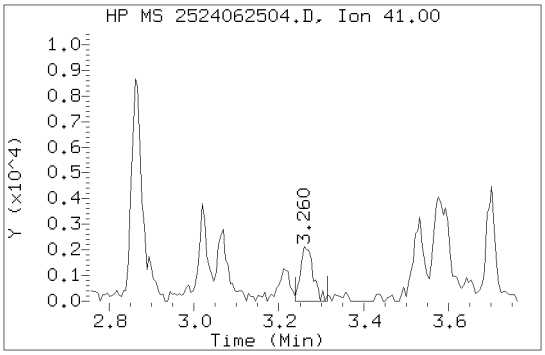
n-Propanol (71-23-8)

Reason Code: MP

BEFORE
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25-Jun-2024
18:43



AFTER
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25-Jun-2024
19:31

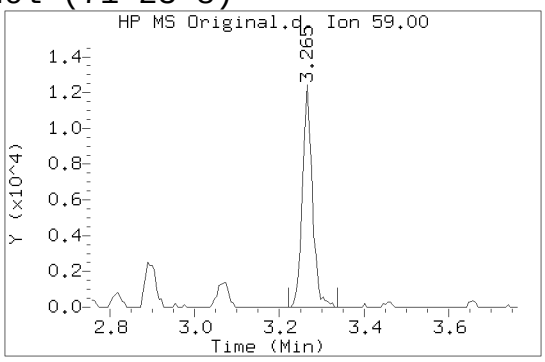


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Inj Date : 25-JUN-2024 11:23
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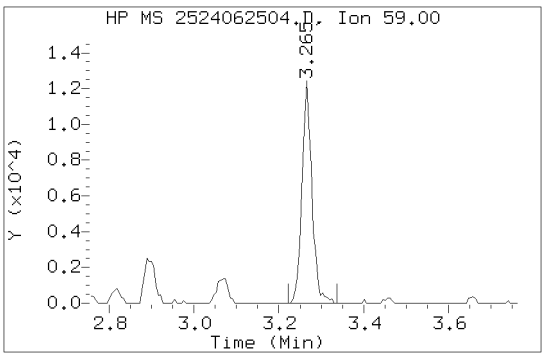
n-Propanol (71-23-8)

Reason Code: MP

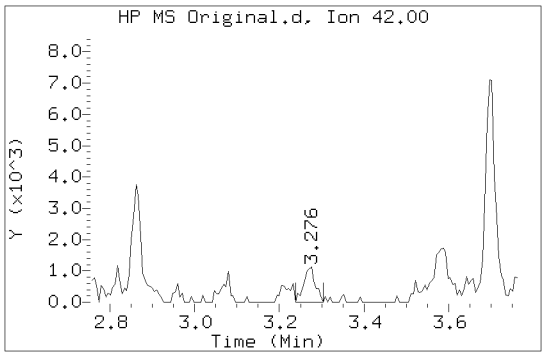
BEFORE
MASS
59
AREA
20293
HEIGHT
12432
25-Jun-2024
18:43



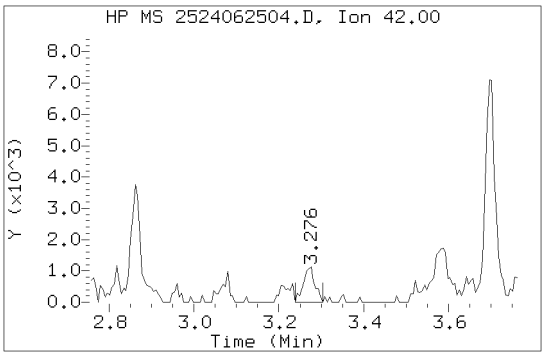
AFTER
MASS
59
AREA
20293
HEIGHT
12432
25-Jun-2024
19:31



BEFORE
MASS
42
AREA
2139
HEIGHT
1121
25-Jun-2024
18:43



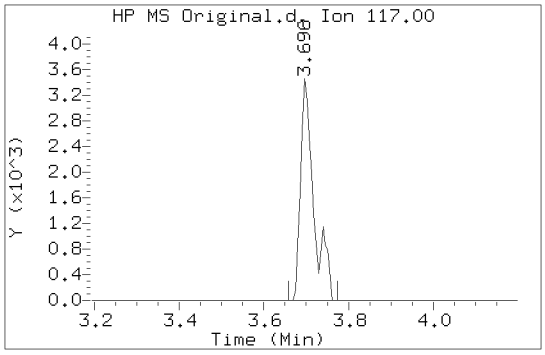
AFTER
MASS
42
AREA
2139
HEIGHT
1121
25-Jun-2024
19:31



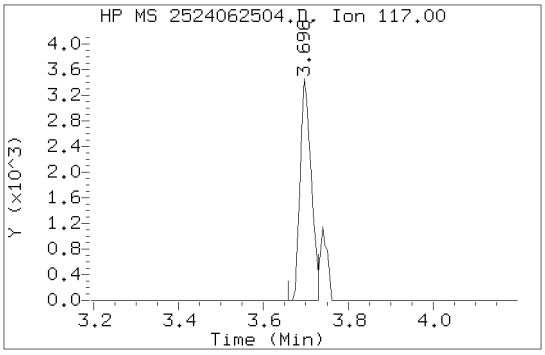
Carbon Tetrachloride (56-23-5)

Reason Code: MP

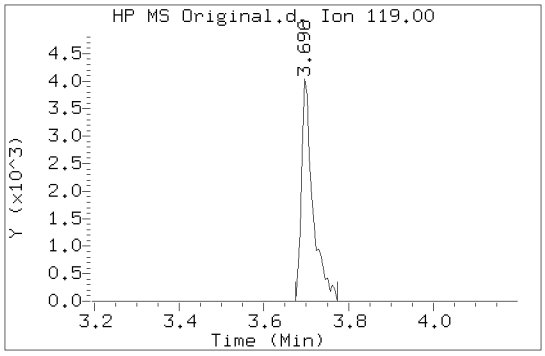
BEFORE
MASS
117
AREA
7523
HEIGHT
3456
25-Jun-2024
18:43



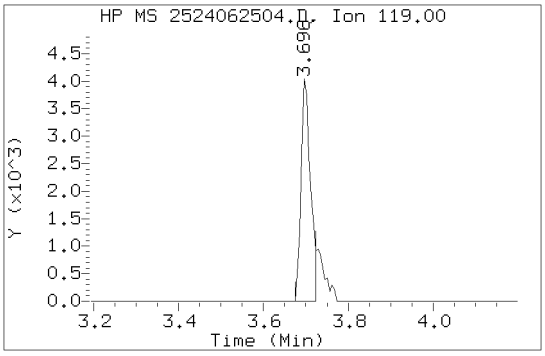
AFTER
MASS
117
AREA
6249
HEIGHT
3456
25-Jun-2024
19:31



BEFORE
MASS
119
AREA
7554
HEIGHT
4041
25-Jun-2024
18:43



AFTER
MASS
119
AREA
6277
HEIGHT
4041
25-Jun-2024
19:31

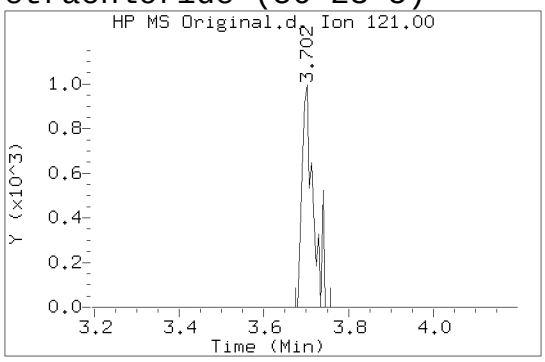


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Inj Date : 25-JUN-2024 11:23
InstruID : ms25.i
LabSampID : 1234

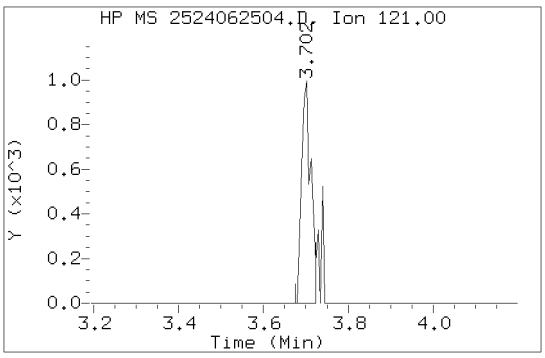
Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
121
AREA
1802
HEIGHT
996
25-Jun-2024
18:43



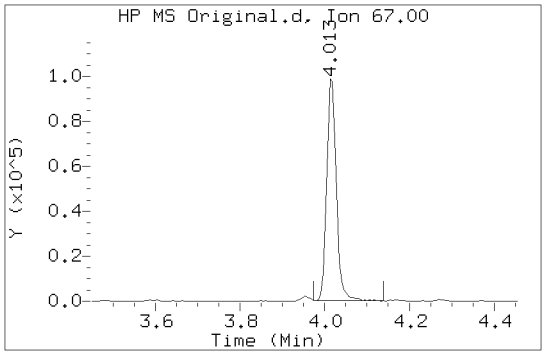
AFTER
MASS
121
AREA
1523
HEIGHT
996
25-Jun-2024
19:31



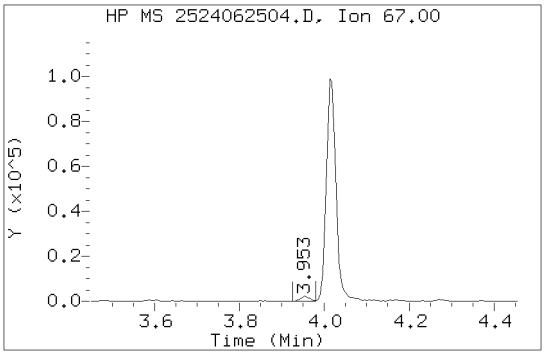
Methacrylonitrile (126-98-7)

Reason Code: H

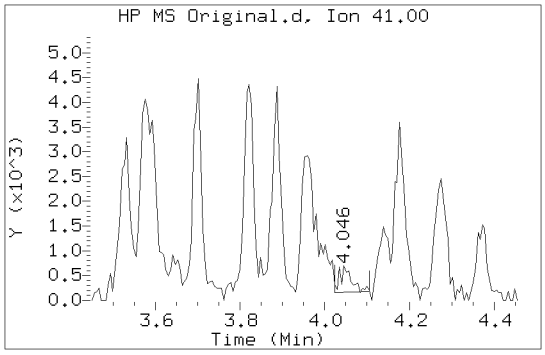
BEFORE
MASS
67
AREA
153991
HEIGHT
98720
25-Jun-2024
18:43



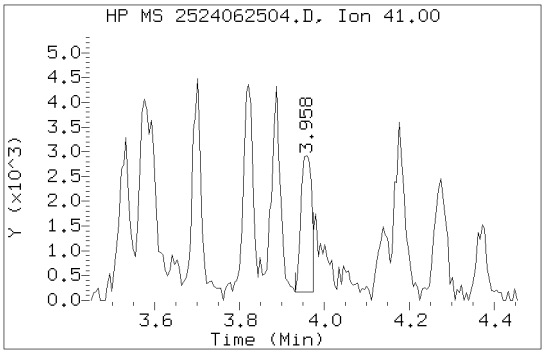
AFTER
MASS
67
AREA
3144
HEIGHT
2212
25-Jun-2024
19:31



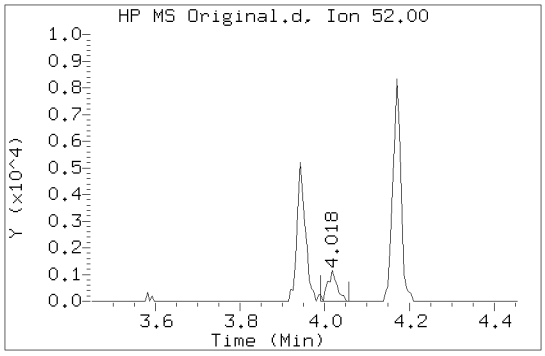
BEFORE
MASS
41
AREA
1015
HEIGHT
529
25-Jun-2024
18:43



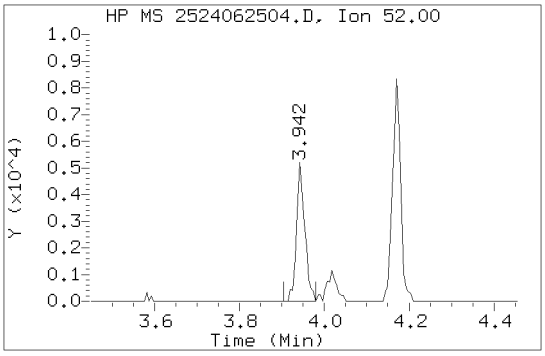
AFTER
MASS
41
AREA
4932
HEIGHT
2756
25-Jun-2024
19:31



BEFORE
MASS
52
AREA
1766
HEIGHT
1148
25-Jun-2024
18:43



AFTER
MASS
52
AREA
7144
HEIGHT
5200
25-Jun-2024
19:31

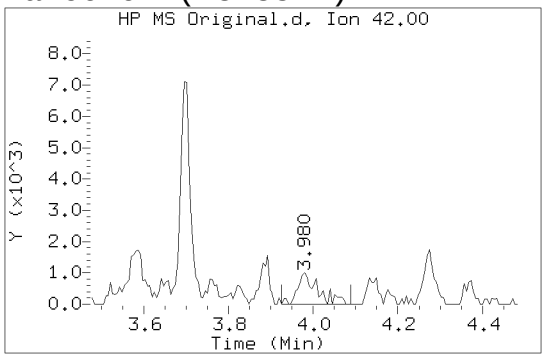


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LabSampID : 1234

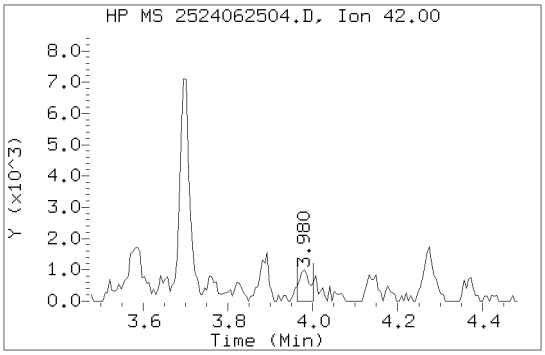
Isobutyl alcohol (78-83-1)

Reason Code: MP

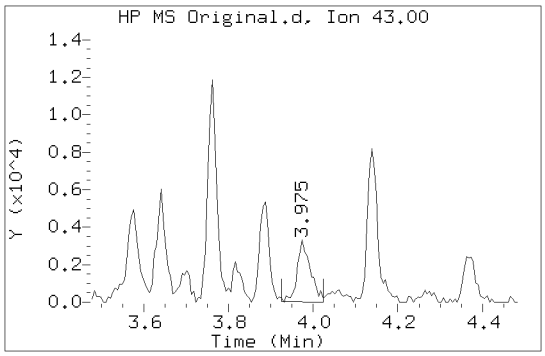
BEFORE
MASS
42
AREA
3324
HEIGHT
1001
25-Jun-2024
18:43



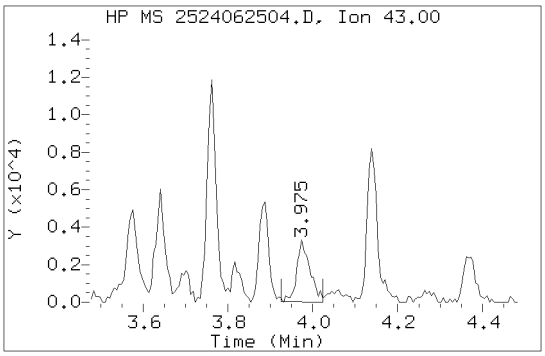
AFTER
MASS
42
AREA
1830
HEIGHT
1001
25-Jun-2024
19:31



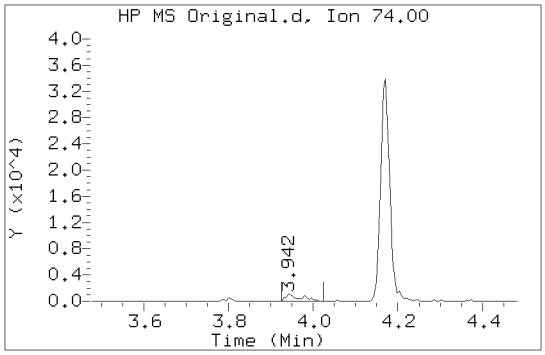
BEFORE
MASS
43
AREA
7196
HEIGHT
3319
25-Jun-2024
18:43



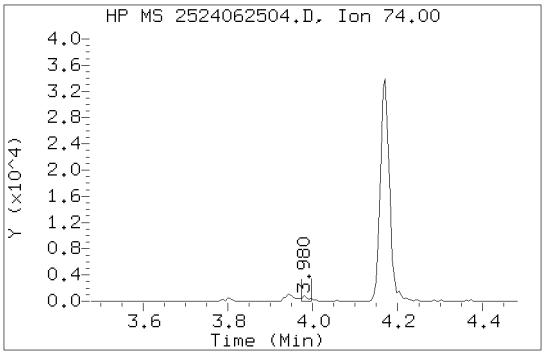
AFTER
MASS
43
AREA
7196
HEIGHT
3319
25-Jun-2024
19:31



BEFORE
MASS
74
AREA
2579
HEIGHT
1075
25-Jun-2024
18:43



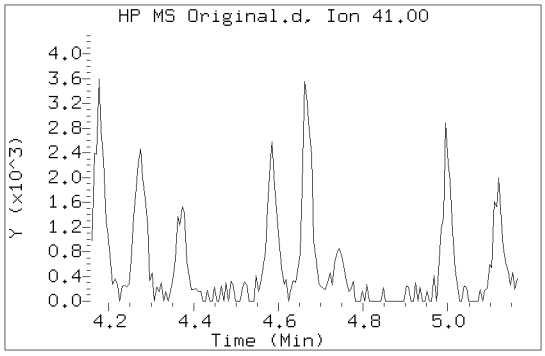
AFTER
MASS
74
AREA
806
HEIGHT
853
25-Jun-2024
19:31



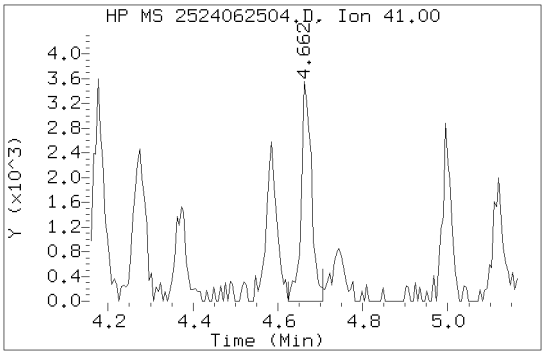
Methyl methacrylate (80-62-6)

Reason Code: IH

BEFORE
MASS
41
AREA
0
HEIGHT
0
25-Jun-2024
18:43



AFTER
MASS
41
AREA
5964
HEIGHT
3556
25-Jun-2024
19:31

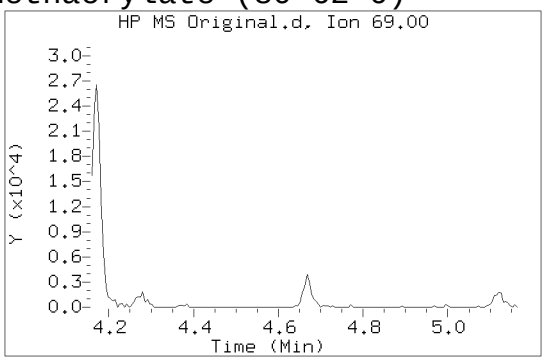


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InstruID : ms25.i
LabSampID : 1234

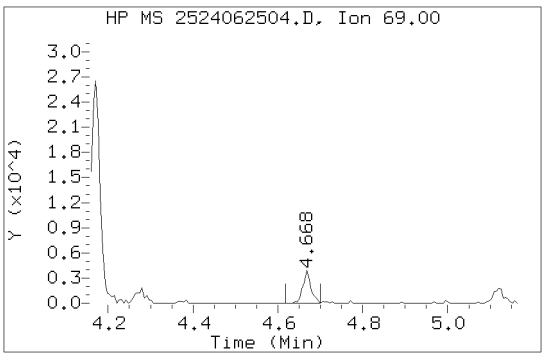
Methyl methacrylate (80-62-6)

Reason Code: IH

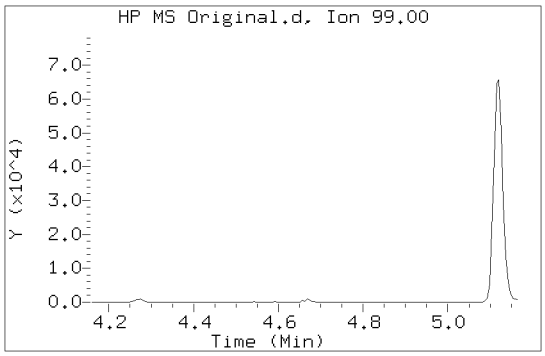
BEFORE
MASS
69
AREA
0
HEIGHT
0
25-Jun-2024
18:43



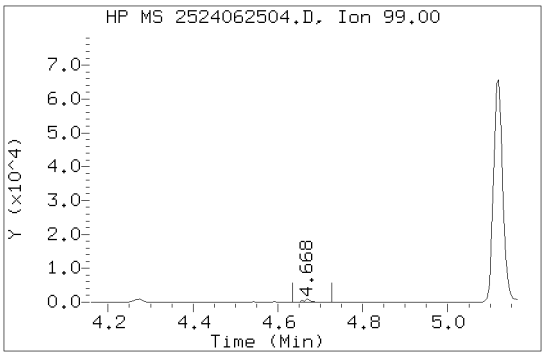
AFTER
MASS
69
AREA
5139
HEIGHT
3943
25-Jun-2024
19:31



BEFORE
MASS
99
AREA
0
HEIGHT
0
25-Jun-2024
18:43



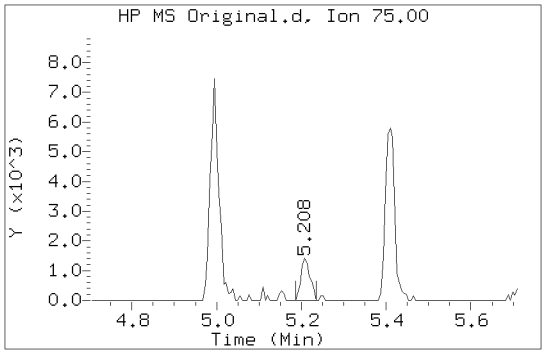
AFTER
MASS
99
AREA
946
HEIGHT
944
25-Jun-2024
19:31



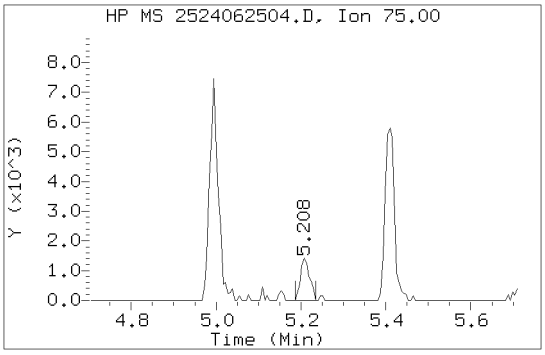
Chloroacetonitrile (107-14-2)

Reason Code: H

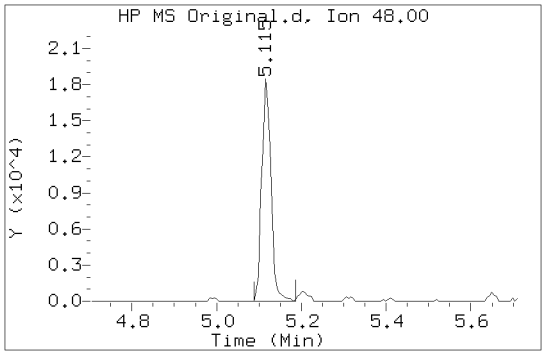
BEFORE
MASS
75
AREA
2128
HEIGHT
1432
25-Jun-2024
18:43



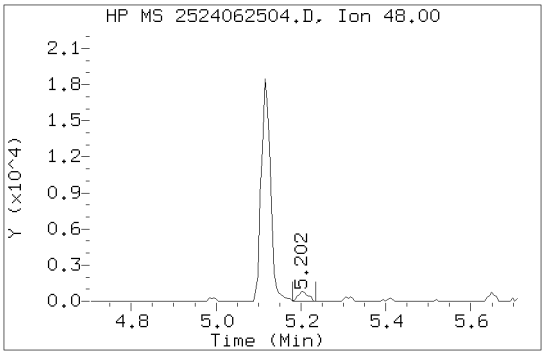
AFTER
MASS
75
AREA
2128
HEIGHT
1432
25-Jun-2024
19:31



BEFORE
MASS
48
AREA
28259
HEIGHT
18480
25-Jun-2024
18:43



AFTER
MASS
48
AREA
1300
HEIGHT
809
25-Jun-2024
19:31

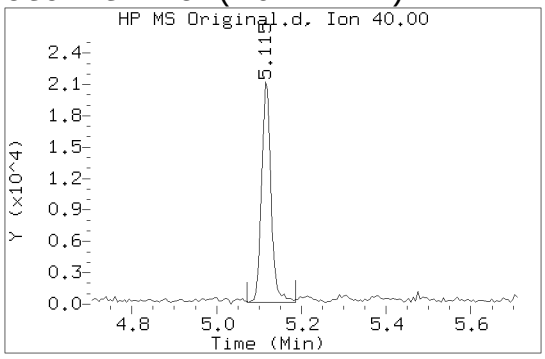


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LabSampID : 1234

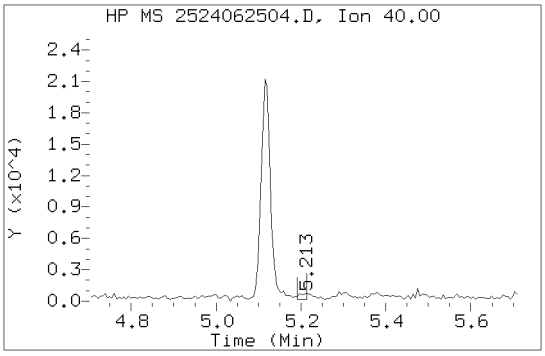
Chloroacetonitrile (107-14-2)

Reason Code: H

BEFORE
MASS
40
AREA
32691
HEIGHT
21036
25-Jun-2024
18:43



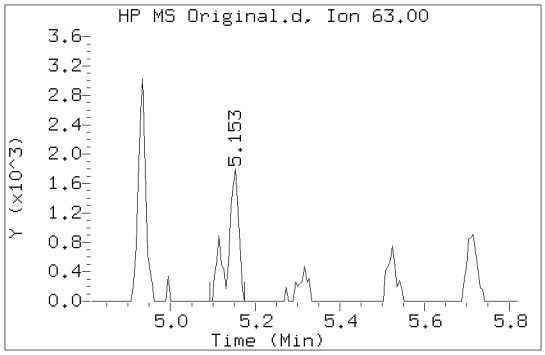
AFTER
MASS
40
AREA
731
HEIGHT
590
25-Jun-2024
19:31



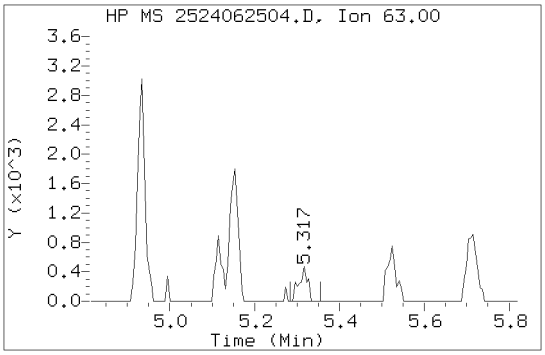
1,1-Dichloro-2-Propanone (513-88-2)

Reason Code: H

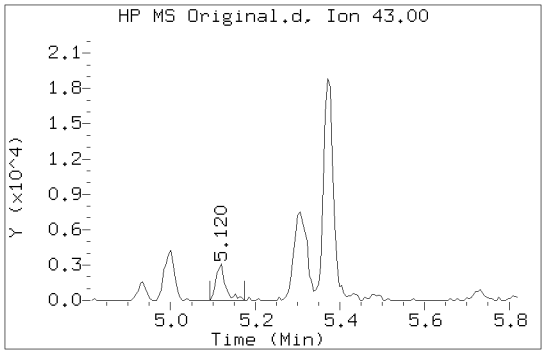
BEFORE
MASS
63
AREA
3388
HEIGHT
1803
25-Jun-2024
18:43



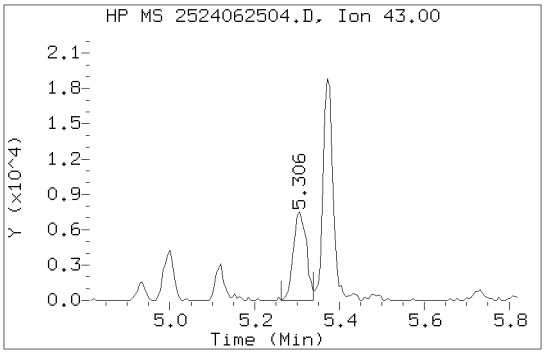
AFTER
MASS
63
AREA
649
HEIGHT
468
25-Jun-2024
19:31



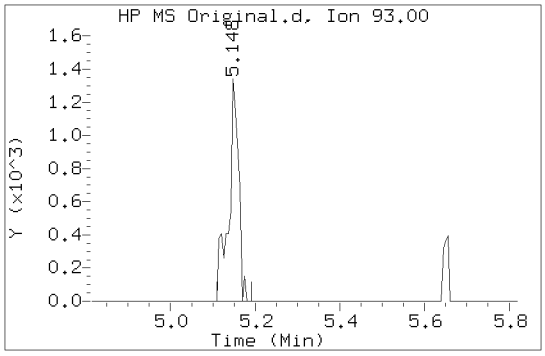
BEFORE
MASS
43
AREA
4716
HEIGHT
3124
25-Jun-2024
18:43



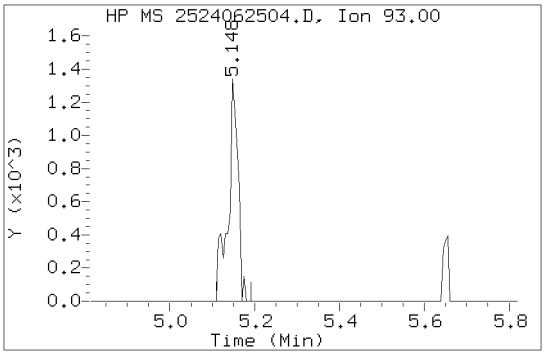
AFTER
MASS
43
AREA
16221
HEIGHT
7506
25-Jun-2024
19:31



BEFORE
MASS
93
AREA
2189
HEIGHT
1341
25-Jun-2024
18:43



AFTER
MASS
93
AREA
2189
HEIGHT
1341
25-Jun-2024
19:31

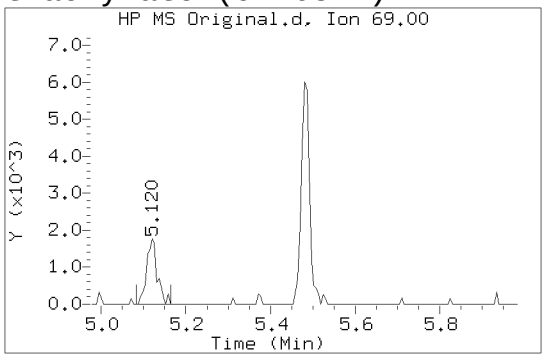


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LabSampID : 1234

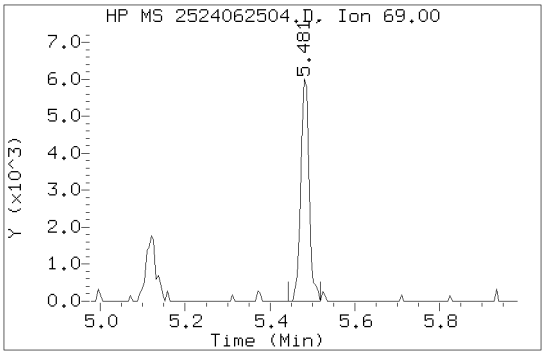
Ethyl Methacrylate (97-63-2)

Reason Code: H

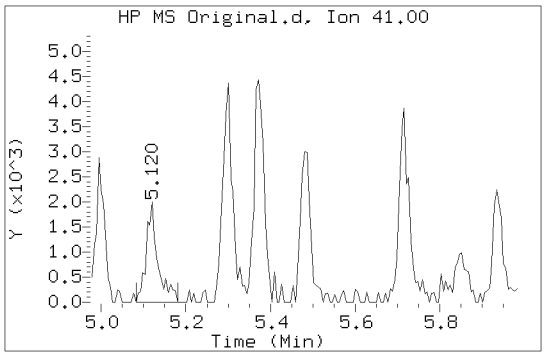
BEFORE
MASS
69
AREA
3115
HEIGHT
1778
25-Jun-2024
18:43



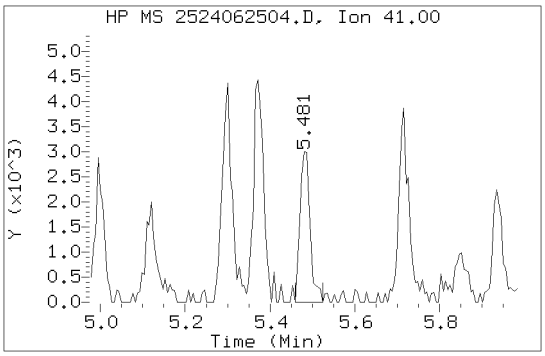
AFTER
MASS
69
AREA
8256
HEIGHT
6009
25-Jun-2024
19:31



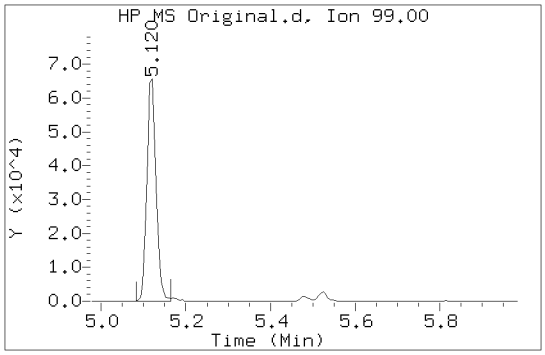
BEFORE
MASS
41
AREA
3826
HEIGHT
1996
25-Jun-2024
18:43



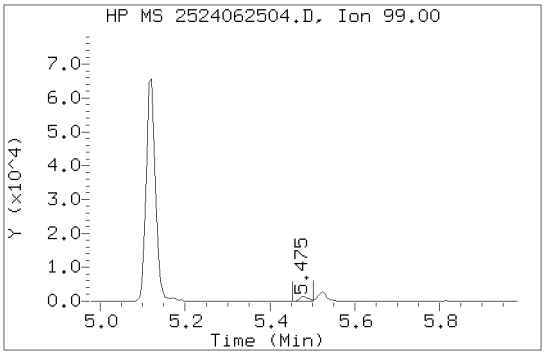
AFTER
MASS
41
AREA
4976
HEIGHT
2995
25-Jun-2024
19:31



BEFORE
MASS
99
AREA
99831
HEIGHT
65624
25-Jun-2024
18:43



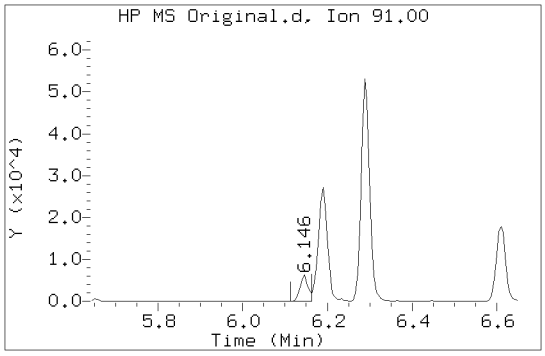
AFTER
MASS
99
AREA
1932
HEIGHT
1372
25-Jun-2024
19:31



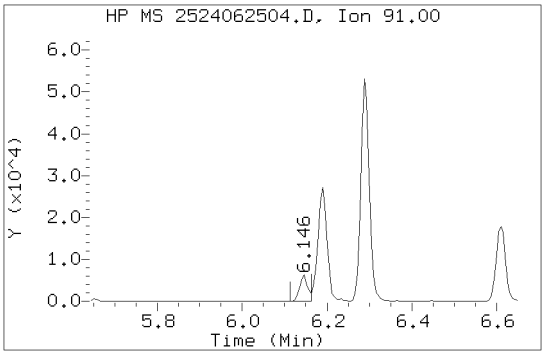
1-Chlorohexane (544-10-5)

Reason Code: I

BEFORE
MASS
91
AREA
8250
HEIGHT
6277
25-Jun-2024
18:43



AFTER
MASS
91
AREA
8250
HEIGHT
6277
25-Jun-2024
19:31

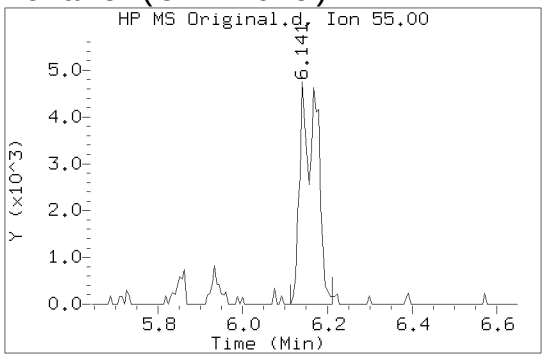


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Inj Date : 25-JUN-2024 11:23
InstruID : ms25.i
LabSampID : 1234

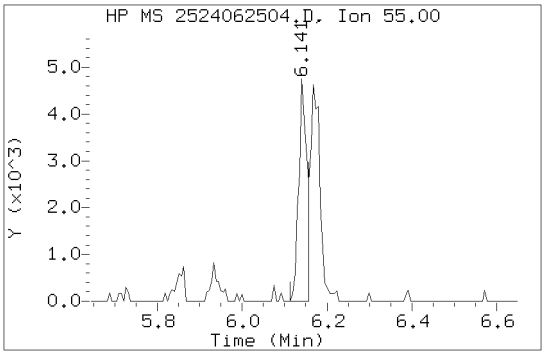
1-Chlorohexane (544-10-5)

Reason Code: I

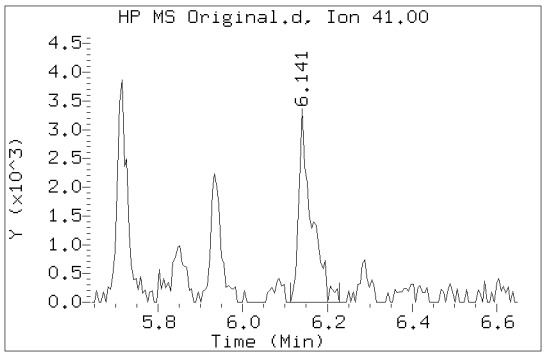
BEFORE
MASS
55
AREA
13140
HEIGHT
4749
25-Jun-2024
18:43



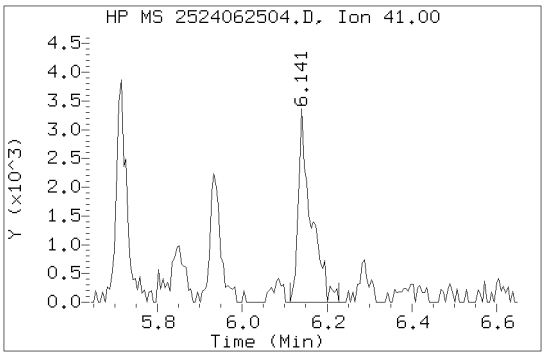
AFTER
MASS
55
AREA
6444
HEIGHT
4749
25-Jun-2024
19:31



BEFORE
MASS
41
AREA
7063
HEIGHT
3367
25-Jun-2024
18:43



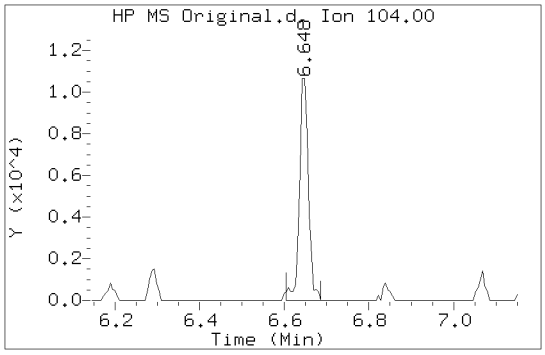
AFTER
MASS
41
AREA
7063
HEIGHT
3367
25-Jun-2024
19:31



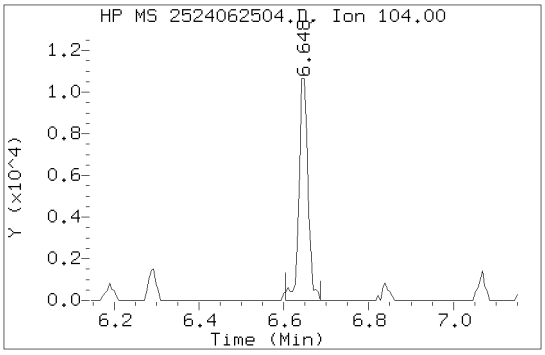
Styrene (100-42-5)

Reason Code: MP

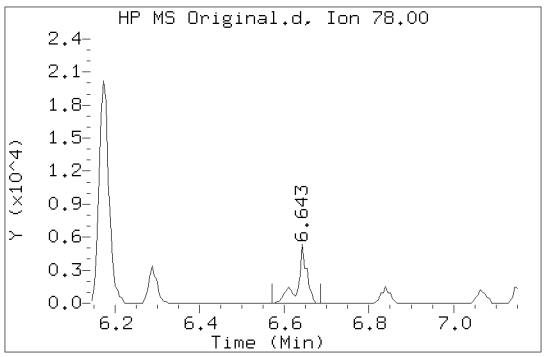
BEFORE
MASS
104
AREA
15866
HEIGHT
10647
25-Jun-2024
18:43



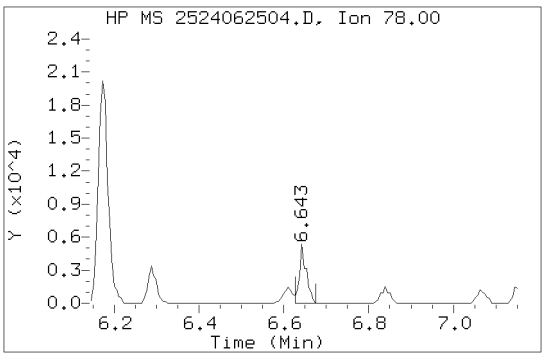
AFTER
MASS
104
AREA
15866
HEIGHT
10647
25-Jun-2024
19:31



BEFORE
MASS
78
AREA
8207
HEIGHT
5355
25-Jun-2024
18:43



AFTER
MASS
78
AREA
6144
HEIGHT
5355
25-Jun-2024
19:31

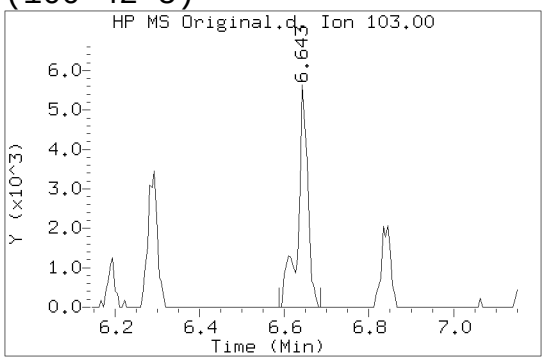


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LabSampID : 1234

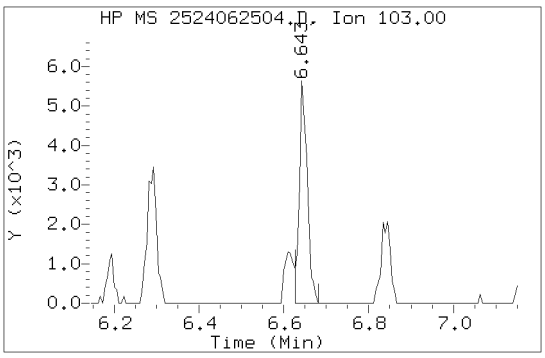
Styrene (100-42-5)

Reason Code: MP

BEFORE
MASS
103
AREA
9253
HEIGHT
5637
25-Jun-2024
18:43



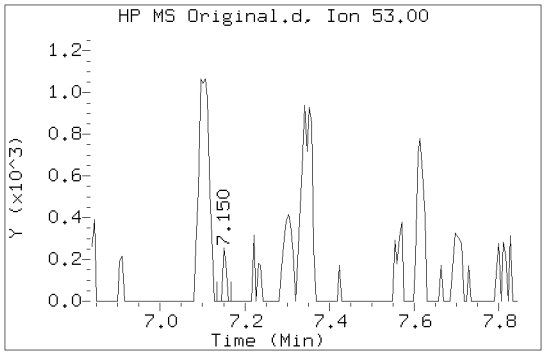
AFTER
MASS
103
AREA
7459
HEIGHT
5637
25-Jun-2024
19:31



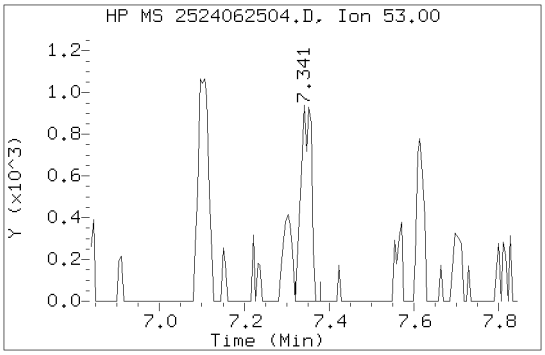
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: H

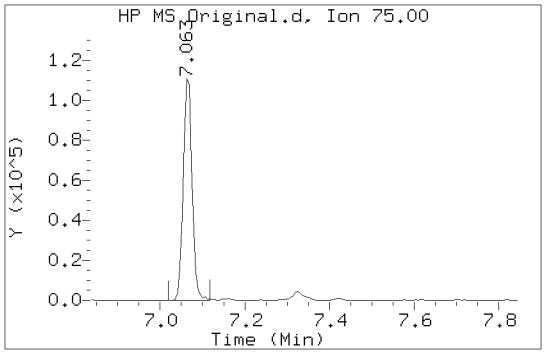
BEFORE
MASS
53
AREA
143
HEIGHT
257
25-Jun-2024
18:43



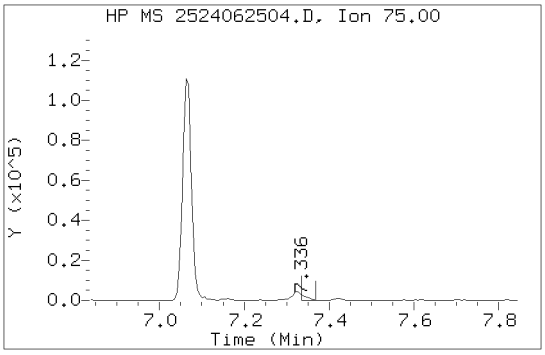
AFTER
MASS
53
AREA
1628
HEIGHT
940
25-Jun-2024
19:31



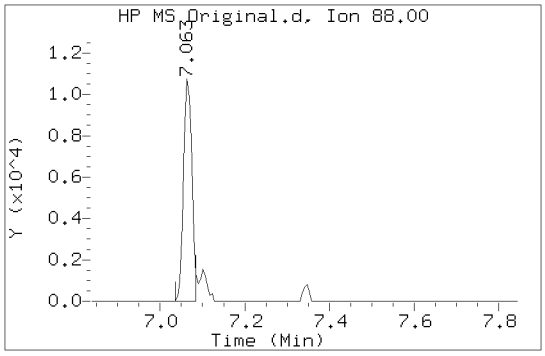
BEFORE
MASS
75
AREA
161091
HEIGHT
110816
25-Jun-2024
18:43



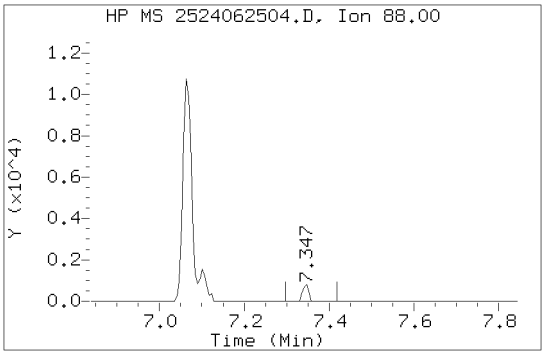
AFTER
MASS
75
AREA
2718
HEIGHT
2575
25-Jun-2024
19:31



BEFORE
MASS
88
AREA
14925
HEIGHT
10745
25-Jun-2024
18:43



AFTER
MASS
88
AREA
769
HEIGHT
794
25-Jun-2024
19:31

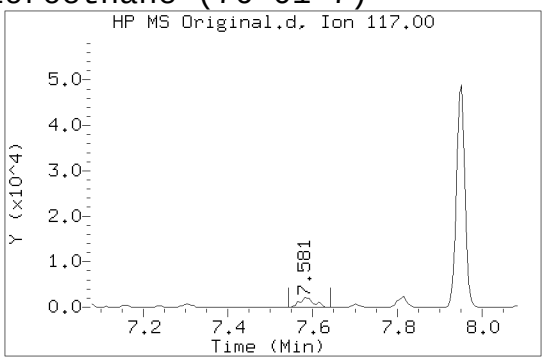


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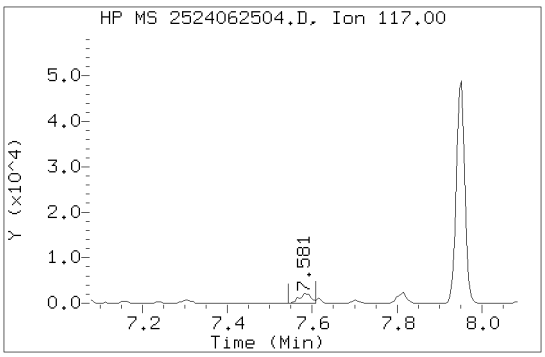
Pentachloroethane (76-01-7)

Reason Code: MP

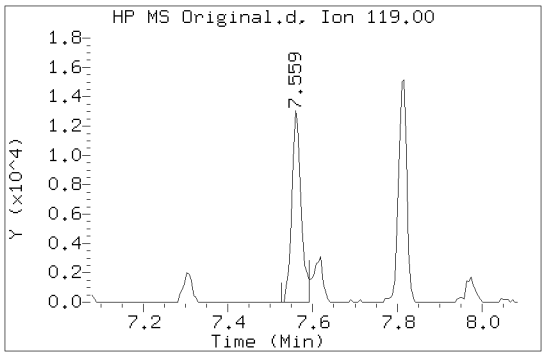
BEFORE
MASS
117
AREA
4937
HEIGHT
2162
25-Jun-2024
18:43



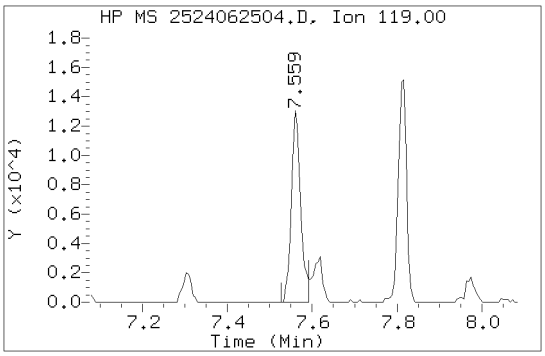
AFTER
MASS
117
AREA
4178
HEIGHT
2162
25-Jun-2024
19:31



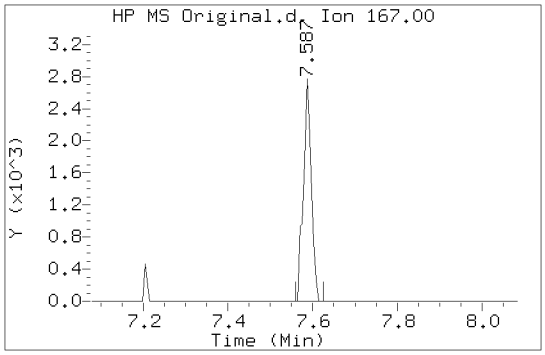
BEFORE
MASS
119
AREA
20109
HEIGHT
13053
25-Jun-2024
18:43



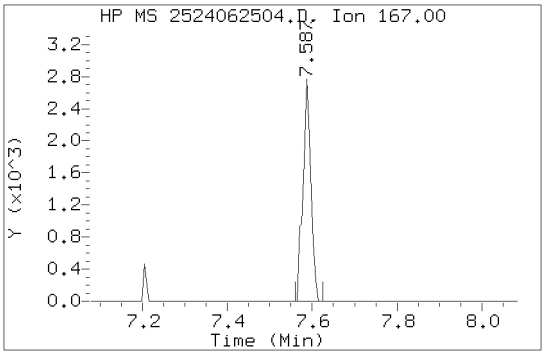
AFTER
MASS
119
AREA
20109
HEIGHT
13053
25-Jun-2024
19:31



BEFORE
MASS
167
AREA
3610
HEIGHT
2772
25-Jun-2024
18:43



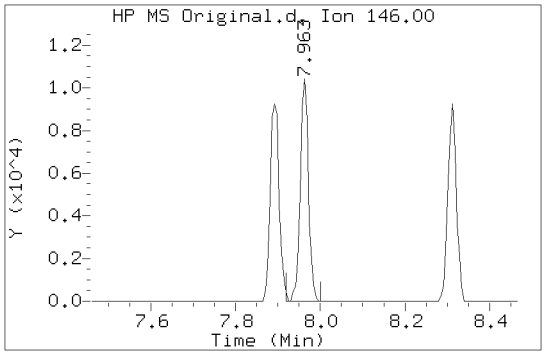
AFTER
MASS
167
AREA
3610
HEIGHT
2772
25-Jun-2024
19:31



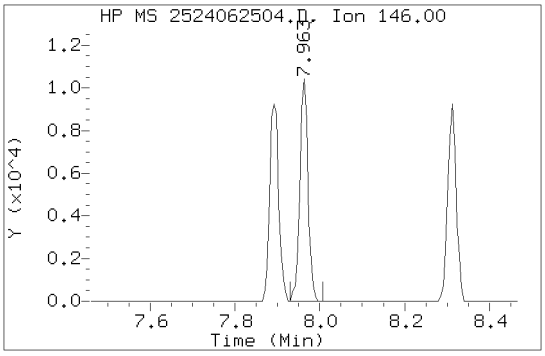
1,4-Dichlorobenzene (106-46-7)

Reason Code: I

BEFORE
MASS
146
AREA
14053
HEIGHT
10421
25-Jun-2024
18:43



AFTER
MASS
146
AREA
13912
HEIGHT
10421
25-Jun-2024
19:31

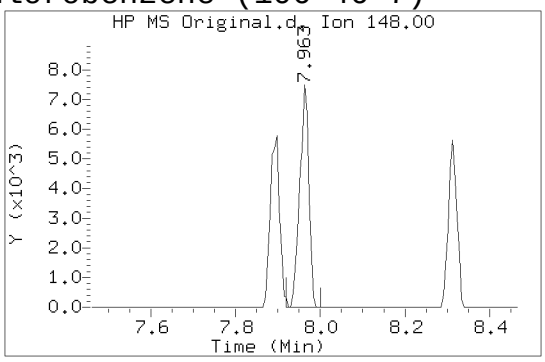


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LabSampID : 1234

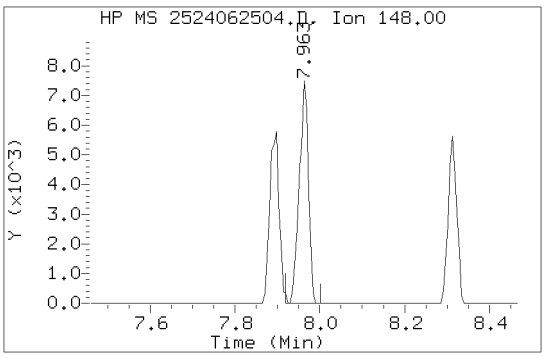
1,4-Dichlorobenzene (106-46-7)

Reason Code: I

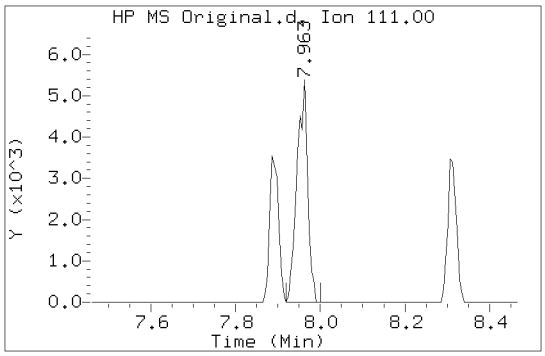
BEFORE
MASS
148
AREA
11321
HEIGHT
7492
25-Jun-2024
18:43



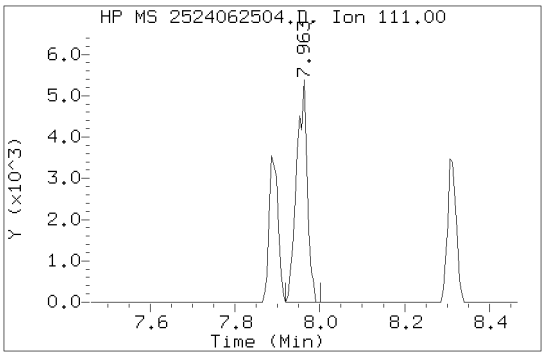
AFTER
MASS
148
AREA
11321
HEIGHT
7492
25-Jun-2024
19:31



BEFORE
MASS
111
AREA
9430
HEIGHT
5383
25-Jun-2024
18:43



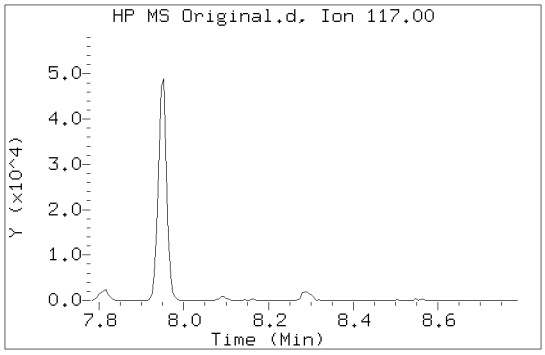
AFTER
MASS
111
AREA
9430
HEIGHT
5383
25-Jun-2024
19:31



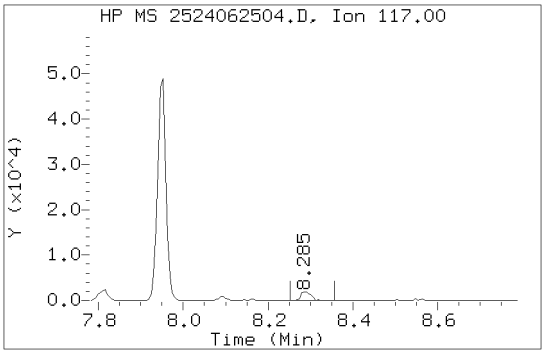
Hexachloroethane (67-72-1)

Reason Code: IH

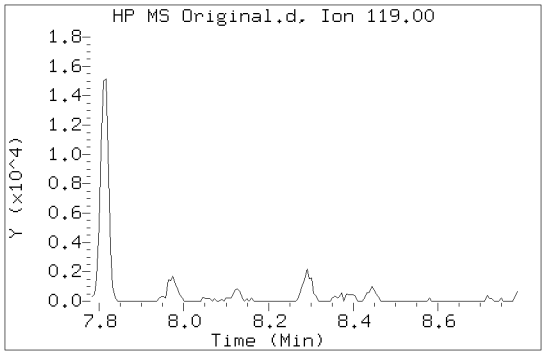
BEFORE
MASS
117
AREA
0
HEIGHT
0
25-Jun-2024
18:43



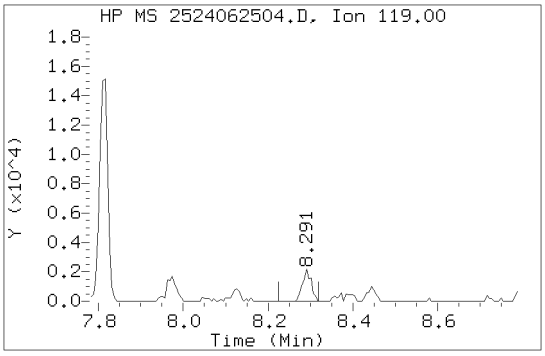
AFTER
MASS
117
AREA
3087
HEIGHT
1807
25-Jun-2024
19:31



BEFORE
MASS
119
AREA
0
HEIGHT
0
25-Jun-2024
18:43



AFTER
MASS
119
AREA
3118
HEIGHT
2195
25-Jun-2024
19:31



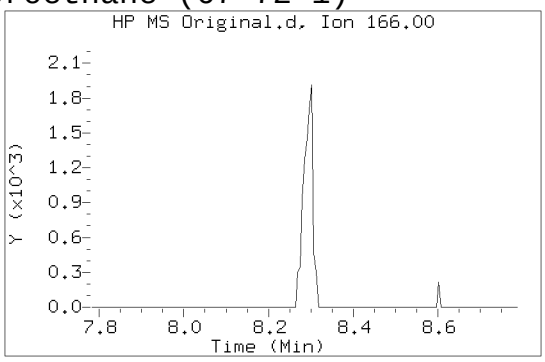
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Inj Date : 25-JUN-2024 11:23
InstruID : ms25.i
LabSampID : 1234

Hexachloroethane (67-72-1)

Reason Code: IH

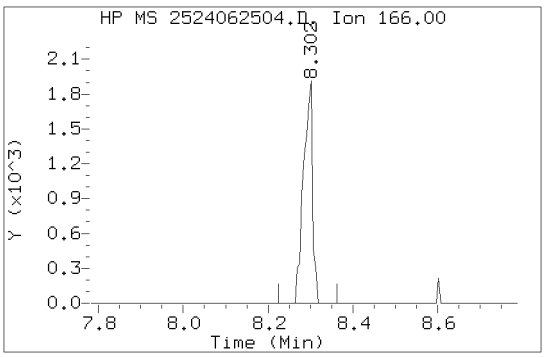
BEFORE

MASS
166
AREA
0
HEIGHT
0
25-Jun-2024
18:43



AFTER

MASS
166
AREA
2843
HEIGHT
1913
25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 11:23
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062505.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062505.D
Lab Smp Id: 1235
Inj Date : 25-JUN-2024 11:44
Operator : ILY Inst ID: ms25.i
Smp Info : 1235;;1;1;2;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	59688	5.00000	4.96098	
2 Chloromethane	50	1.644	1.645	(0.394)	52986	5.00000	4.93802	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	67532	5.00000	4.96514	
4 Bromomethane	94	1.923	1.923	(0.461)	37472	5.00000	5.36670	
5 Chloroethane	64	2.004	2.005	(0.481)	49249	5.00000	5.08571	
6 Pentane	41	2.092	2.092	(0.502)	50203	5.00000	4.98935	
7 Trichlorofluoromethane	101	2.097	2.103	(0.503)	94521	5.00000	5.07354	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	91911	5.00000	5.33176	
9 Ethyl Ether	74	2.277	2.278	(0.546)	26048	5.00000	4.96900	
10 1,1-Dichloroethene	61	2.414	2.409	(0.579)	53755	5.00000	5.13888	
11 Freon 113	101	2.424	2.425	(0.581)	39179	5.00000	5.32509	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	109252	5.00000	4.84162	
13 Iodomethane	127	2.512	2.507	(0.602)	12856	5.00000	3.64919	
14 Acrolein	56	2.599	2.600	(0.623)	41537	25.0000	24.6179	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	13242	25.0000	21.1377	
16 3-Chloro-1-propene	41	2.681	2.676	(0.643)	45996	5.00000	5.20289	
17 Methylene Chloride	84	2.741	2.741	(0.657)	44601	5.00000	5.21982	
18 Acetone	58	2.757	2.752	(0.661)	22973	25.0000	24.2671	
19 Methyl acetate	74	2.817	2.812	(0.676)	9079	5.00000	4.28588(Q)	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	52215	5.00000	5.09647	
21 Hexane	57	2.861	2.867	(0.686)	86426	5.00000	4.80758	

Data File: 2524062505.D Page 2
Report Date: 25-Jun-2024 19:32

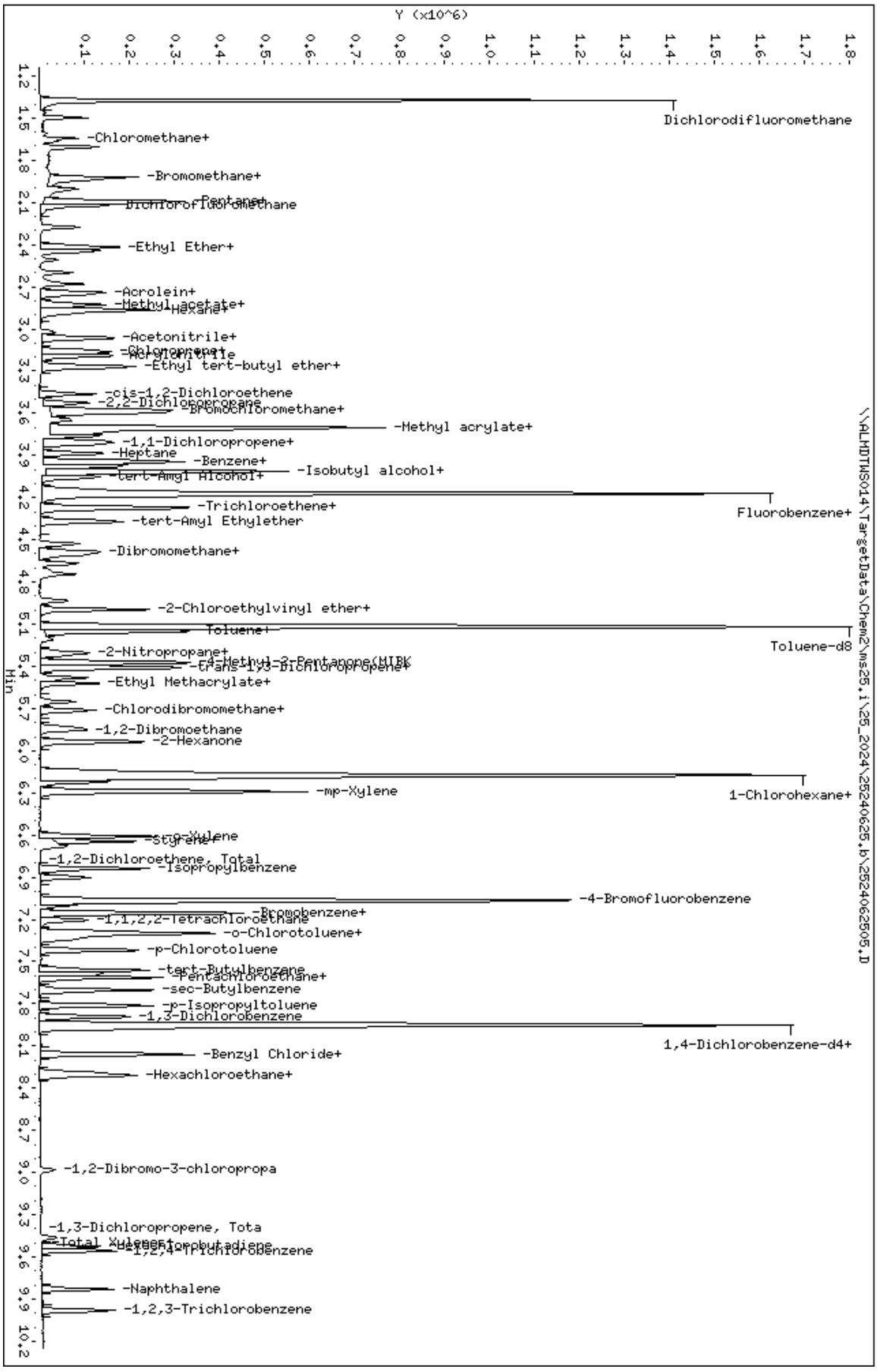
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	120315	5.00000	4.78736	
	23 tert.- Butyl Alcohol	59	2.899	2.889	(0.695)	21867	25.0000	23.1385	
	24 Acetonitrile	41	3.025	3.020	(0.725)	27036	25.0000	25.5395	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	116696	5.00000	5.13219	
	26 Chloroprene	53	3.156	3.156	(0.757)	56434	5.00000	4.89543	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	73188	5.00000	5.24341	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	92982	25.0000	25.5783(M)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	120519	5.00000	4.99047	
	30 n-Propanol	41	3.265	3.260	(0.783)	21478	50.0000	47.9463(Q)	
	31 Vinyl Acetate	86	3.276	3.276	(0.785)	9677	5.00000	4.41305	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	53300	5.00000	5.13080	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	56064	5.00000	5.03959(M)	I
	34 Bromochloromethane	128	3.576	3.576	(0.857)	23110	5.00000	5.15866	
	35 Cyclohexane	84	3.587	3.587	(0.860)	62260	5.00000	4.99491	
	36 Chloroform	83	3.603	3.598	(0.864)	77923	5.00000	5.17135	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	42053	5.00000	4.57672	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	40449	5.00000	4.83542	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	45979	5.00000	4.53007(M)	MP
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	264311	30.0000	30.8069	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	61844	25.0000	24.1831	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	58962	5.00000	5.02729	
	43 2-Butanone	72	3.761	3.767	(0.902)	30643	25.0000	24.7867(M)	MP
	44 1,1-Dichloropropene	75	3.800	3.800	(0.911)	57187	5.00000	5.15476	
	45 1-Chlorobutane	41	3.816	3.822	(0.915)	35980	5.00000	5.04323(M)	I
	46 Heptane	71	3.887	3.887	(0.932)	33214	5.00000	5.15312	
	47 Benzene	78	3.941	3.942	(0.945)	171818	5.00000	5.03878	
	48 Propionitrile	54	3.941	3.942	(0.945)	33201	25.0000	24.1189(M)	I
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	19135	5.00000	4.63708(Q)	
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	112448	5.00000	4.82365	
	54 Isobutyl alcohol	42	3.985	3.980	(0.956)	7621	50.0000	40.0273(M)	MP
$	51 1,2-Dichloroethane-d4	65	4.018	4.013	(0.963)	286783	30.0000	31.7090(M)	MP
	52 1,2-Dichloroethane	62	4.051	4.056	(0.971)	53935	5.00000	5.03156(M)	I
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	15711	25.0000	21.6680	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1087359	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	125872	5.00000	4.65034	
	57 Trichloroethene	95	4.269	4.269	(1.024)	41892	5.00000	4.85420	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	69627	5.00000	5.02555	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	87789	5.00000	4.55944	
	60 Dibromomethane	93	4.525	4.526	(1.085)	26239	5.00000	4.80949	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	40983	5.00000	4.99373	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	47880	5.00000	4.49673	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	31161	5.00000	4.79757(M)	I
	64 1,4-Dioxane	88	4.716	4.722	(1.131)	16306	125.000	128.349	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	23423	5.00000	4.24126	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	57636	5.00000	4.24765	
	67 Octane	85	5.000	5.000	(0.810)	25331	5.00000	4.82204	
$	68 Toluene-d8	98	5.115	5.120	(0.829)	1052255	30.0000	31.1164	
	69 Toluene	92	5.153	5.153	(0.835)	103607	5.00000	4.83383	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	11858	25.0000	22.1928	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	42330	25.0000	19.7446	
	72 1,1-Dichloro-2-Propanone	63	5.316	5.317	(0.861)	4269	25.0000	20.5794(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	187763	25.0000	23.1030	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	54063	5.00000	4.31303	
	74 Tetrachloroethene	164	5.415	5.410	(0.877)	39410	5.00000	5.04948	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.486	5.481	(0.889)	51147	5.00000	4.24986	
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	33140	5.00000	5.03234	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	36996	5.00000	4.30237	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	64110	5.00000	4.92726	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	39025	5.00000	4.66538	
	81 2-Hexanone	43	5.933	5.933	(0.961)	125367	25.0000	22.6028	
	82 1-Chlorohexane	91	6.140	6.146	(0.995)	57356	5.00000	5.08663	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	427126	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	109743	5.00000	5.02430	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	58271	5.00000	4.44077	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	34773	5.00000	4.50754	
	87 mp-Xylene	106	6.288	6.288	(1.019)	154227	10.0000	9.45903	
	88 o-Xylene	106	6.610	6.610	(1.071)	65518	5.00000	4.50743	
	89 Styrene	104	6.648	6.648	(0.836)	91709	5.00000	4.30376(M)	MP
	90 Bromoform	173	6.681	6.686	(0.840)	22861	5.00000	3.89465	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	150199	5.00000	4.86385	
M	100 1,2-Dichloroethene, Total	61				105515	10.0000	10.2273	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	325457	30.0000	30.6043	
	93 Bromobenzene	156	7.155	7.156	(0.900)	45273	5.00000	4.98138	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	44738	5.00000	4.81386	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	44390	5.00000	4.91408	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	121483	5.00000	4.96837	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	125150	5.00000	4.83861	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	14852	5.00000	5.09769	
	99 trans-1,4-Dichloro-2-butene	53	7.341	7.341	(0.923)	11562	5.00000	4.43705(M)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	111173	5.00000	5.01963	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	32108	5.00000	5.19039	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	25931	5.00000	4.44207(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	132392	5.00000	4.69630(M)	I
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	163354	5.00000	5.11007	
	106 p-Isopropyltoluene	134	7.810	7.816	(0.982)	37381	5.00000	5.10636	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	77113	5.00000	5.03629	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	384401	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	77858	5.00000	4.87835	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	12513	5.00000	3.70991(Q)	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	31794	5.00000	4.64753(Q)	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	20694	5.00000	4.13218	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	71870	5.00000	4.92763	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	6452	5.00000	4.11789	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	15593	50.0000	31.0878	
	116 Hexachlorobutadiene	225	9.523	9.524	(1.198)	21249	5.00000	4.63313	
M	120 1,3-Dichloropropene, Total	75				111699	10.0000	8.56068	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	44395	5.00000	4.59634	
M	121 Total Xylenes	106				219745	15.0000	13.9665	
	118 Naphthalene	128	9.829	9.829	(1.236)	109460	5.00000	4.15104	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	45198	5.00000	4.43252	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

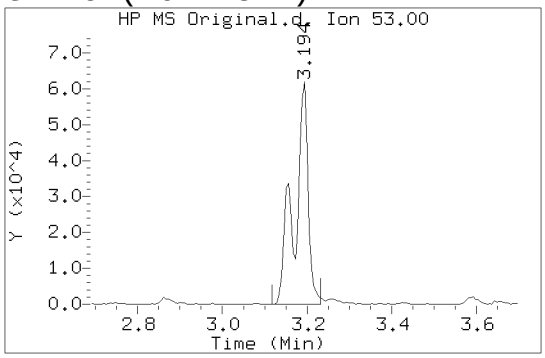

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Y (x10^6)
Min
Dichlorodifluoromethane
-Chloromethane+
-Bromomethane+
Dichlorofluoromethane
-Ethyl Ether+
-Acrolein+
-Methyl acetate+
Hexane+
-Acetonitrile+
Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
Bromochloromethane+
-Methyl acrylate+
-1,1-Dichloropropene+
-Heptane
-Benzene+
-Isobutyl alcohol+
-tert-Amyl Alcohol+
-Trichloroethene+
Fluorobenzene+
-tert-Amyl Ethylether
-Dibromomethane+
-2-Chloroethylvinyl ether+
Toluene+
Toluene-d8
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate+
-Chlorodibromomethane+
-1,2-Dibromoethane
-2-Hexanone
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-Styrene+
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-4-Bromofluorobenzene
-Bromobenzene+
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene
-Pentachloroethane+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
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-Naphthalene
-1,2,3-Trichlorobenzene
Page 1

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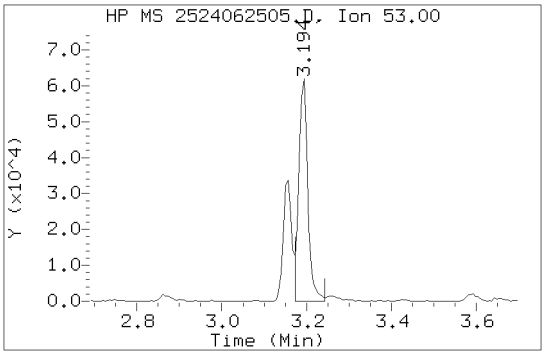
Acrylonitrile (107-13-1)

Reason Code: MP

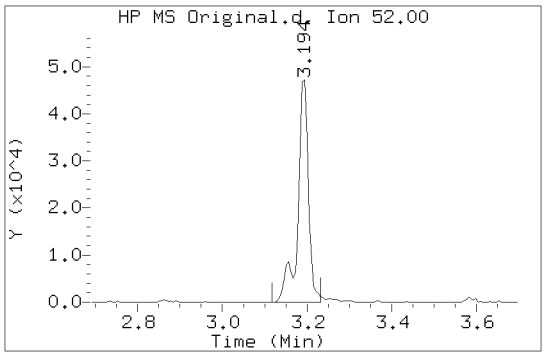
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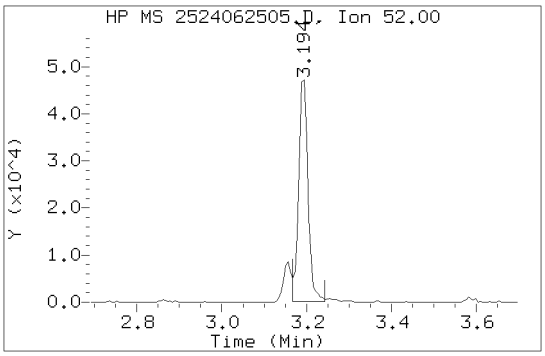
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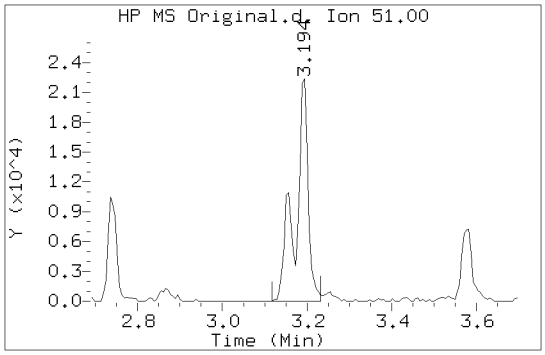
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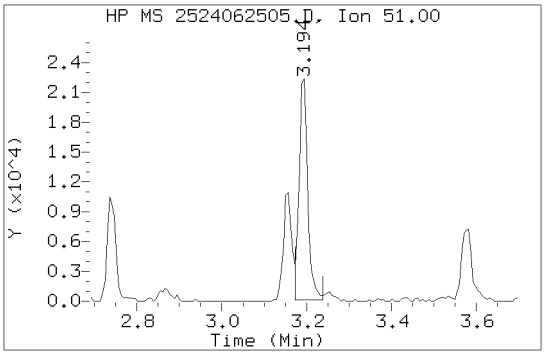
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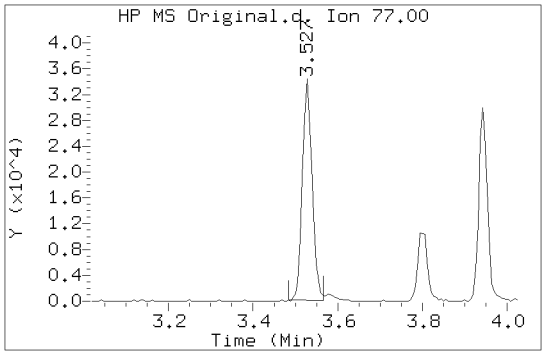
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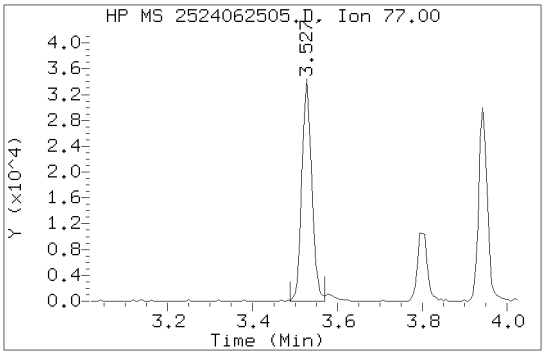
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Reason Code: I

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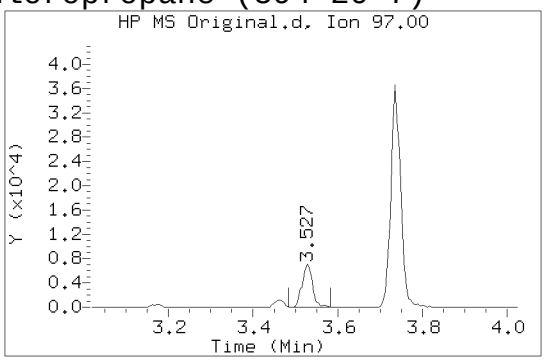


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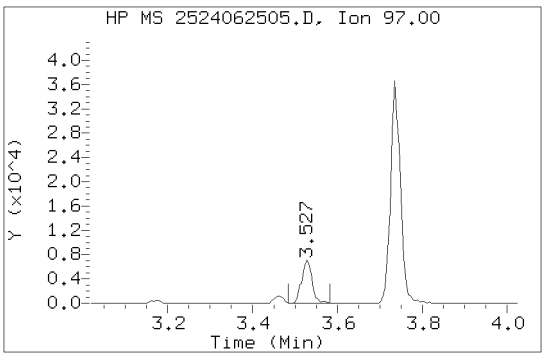
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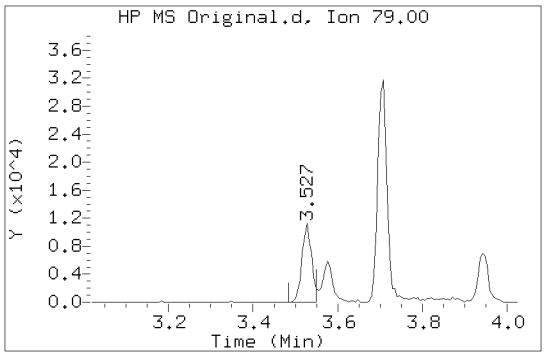
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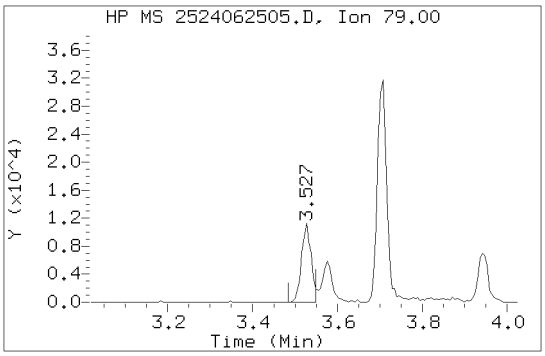
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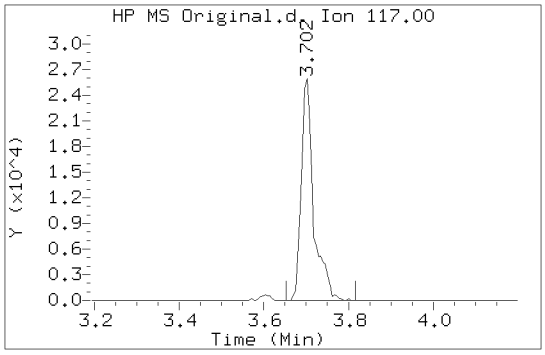
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25-Jun-2024
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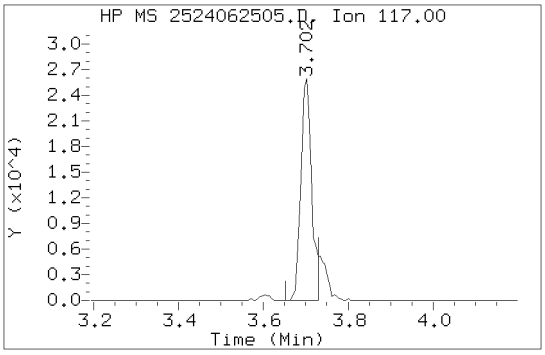
Carbon Tetrachloride (56-23-5)

Reason Code: MP

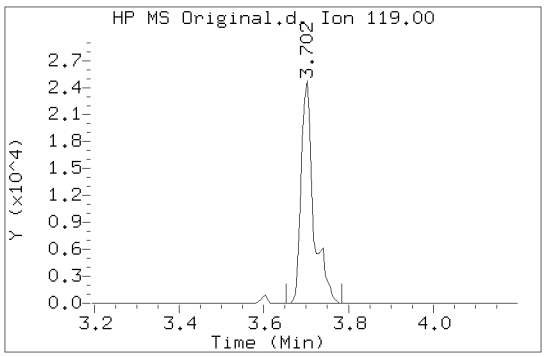
BEFORE
MASS
117
AREA
52774
HEIGHT
25936
25-Jun-2024
18:35



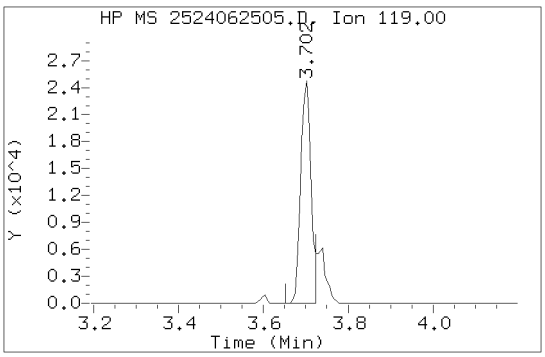
AFTER
MASS
117
AREA
45979
HEIGHT
25936
25-Jun-2024
19:31



BEFORE
MASS
119
AREA
50751
HEIGHT
24744
25-Jun-2024
18:35



AFTER
MASS
119
AREA
42128
HEIGHT
24744
25-Jun-2024
19:31



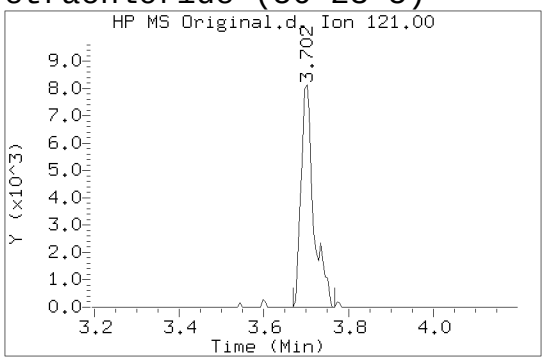
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Inj Date : 25-JUN-2024 11:44
InstruID : ms25.i
LabSampID : 1235

Carbon Tetrachloride (56-23-5)

Reason Code: MP

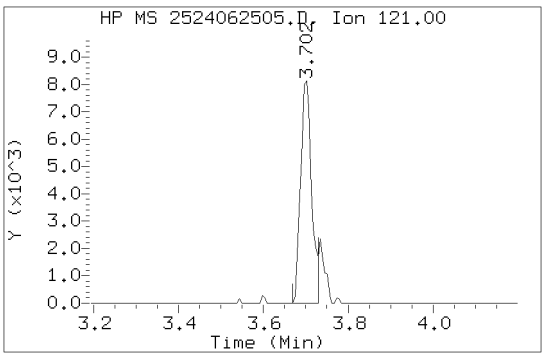
BEFORE

MASS
121
AREA
16874
HEIGHT
8135
25-Jun-2024
18:35



AFTER

MASS
121
AREA
14785
HEIGHT
8135
25-Jun-2024
19:31

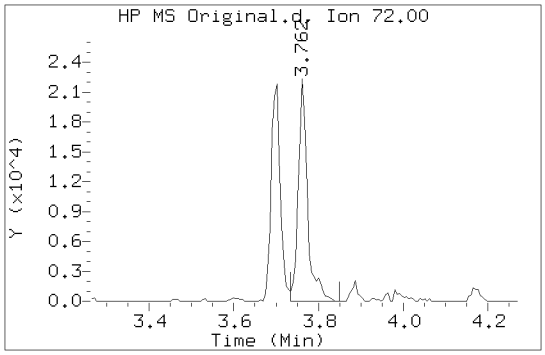


2-Butanone (78-93-3)

Reason Code: MP

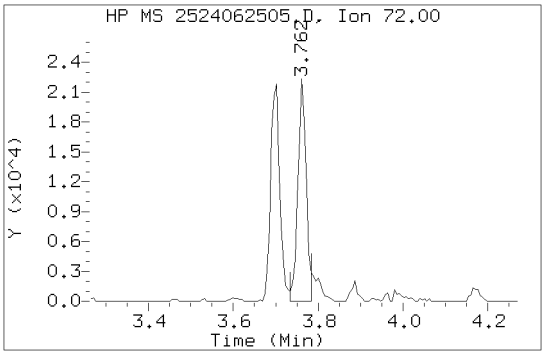
BEFORE

MASS
72
AREA
34311
HEIGHT
22336
25-Jun-2024
18:35



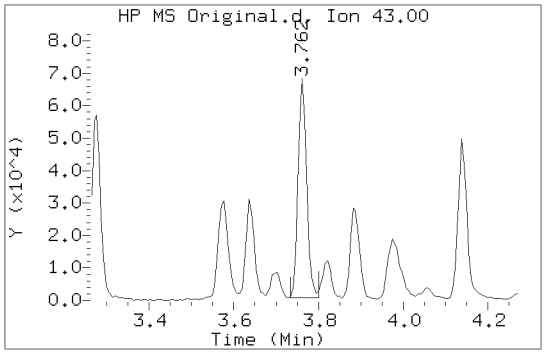
AFTER

MASS
72
AREA
30643
HEIGHT
22336
25-Jun-2024
19:31



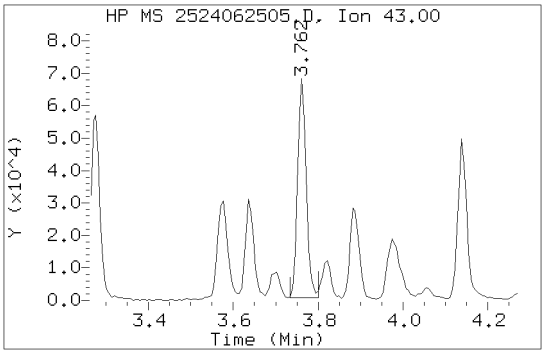
BEFORE

MASS
43
AREA
95157
HEIGHT
67435
25-Jun-2024
18:35



AFTER

MASS
43
AREA
95157
HEIGHT
67435
25-Jun-2024
19:31

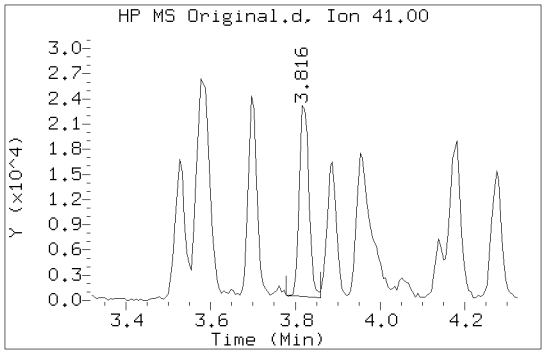


1-Chlorobutane (109-69-3)

Reason Code: I

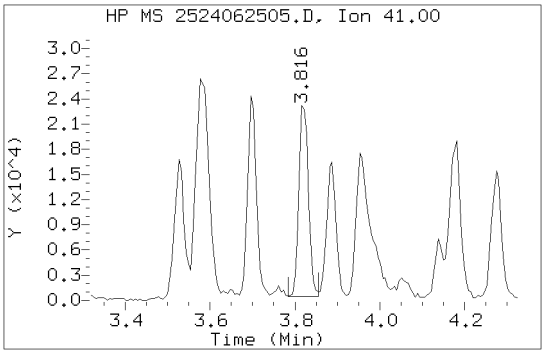
BEFORE

MASS
41
AREA
36163
HEIGHT
22753
25-Jun-2024
18:35



AFTER

MASS
41
AREA
35980
HEIGHT
22774
25-Jun-2024
19:31

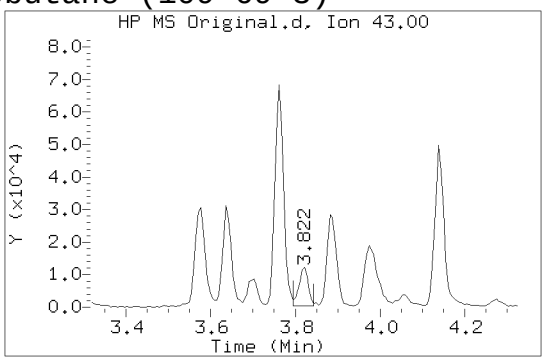


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Inj Date : 25-JUN-2024 11:44
InstruID : ms25.i
LabSampID : 1235

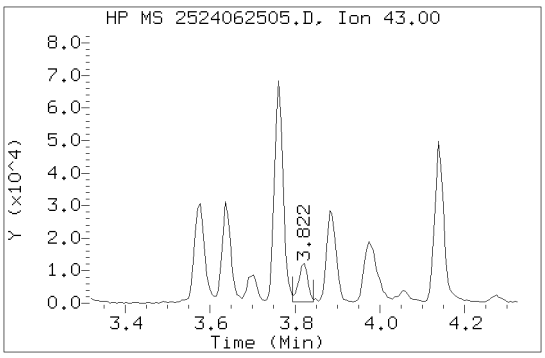
1-Chlorobutane (109-69-3)

Reason Code: I

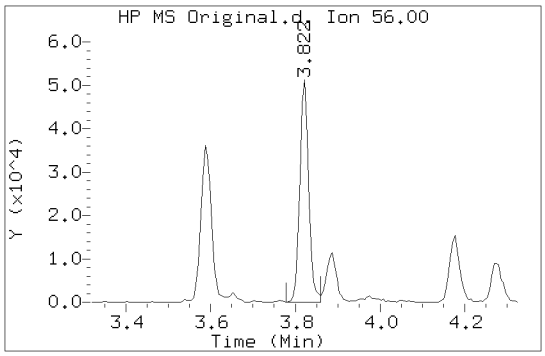
BEFORE
MASS
43
AREA
18123
HEIGHT
11751
25-Jun-2024
18:35



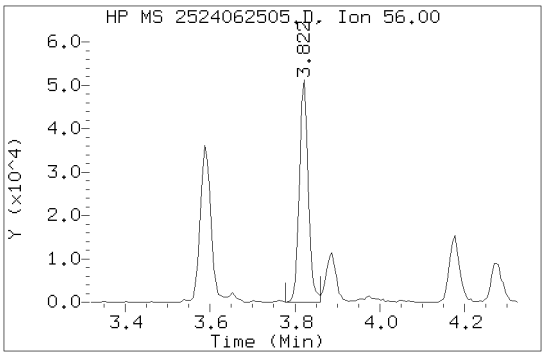
AFTER
MASS
43
AREA
18123
HEIGHT
11751
25-Jun-2024
19:31



BEFORE
MASS
56
AREA
74900
HEIGHT
51272
25-Jun-2024
18:35



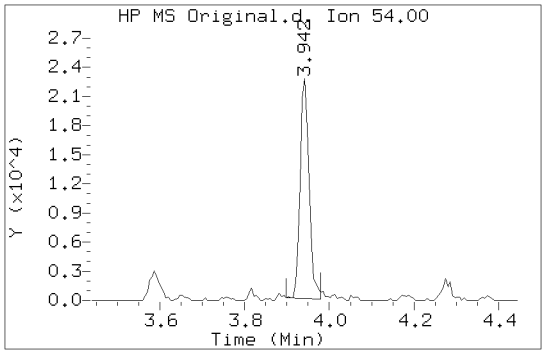
AFTER
MASS
56
AREA
74900
HEIGHT
51272
25-Jun-2024
19:31



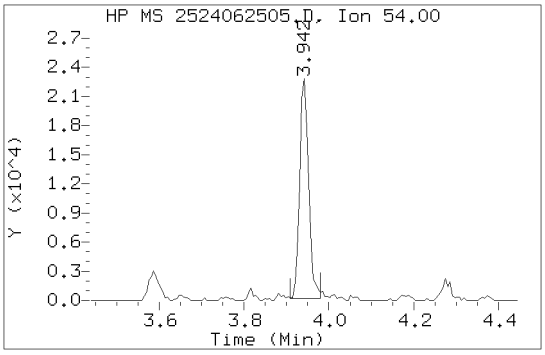
Propionitrile (107-12-0)

Reason Code: I

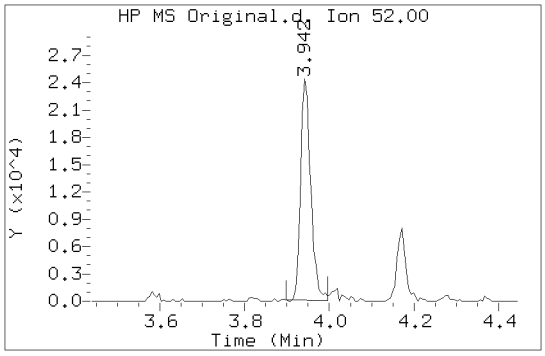
BEFORE
MASS
54
AREA
33360
HEIGHT
22634
25-Jun-2024
18:35



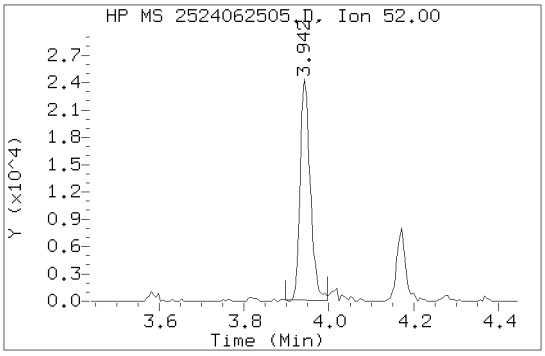
AFTER
MASS
54
AREA
33201
HEIGHT
22616
25-Jun-2024
19:31



BEFORE
MASS
52
AREA
40274
HEIGHT
24303
25-Jun-2024
18:35



AFTER
MASS
52
AREA
40274
HEIGHT
24303
25-Jun-2024
19:31

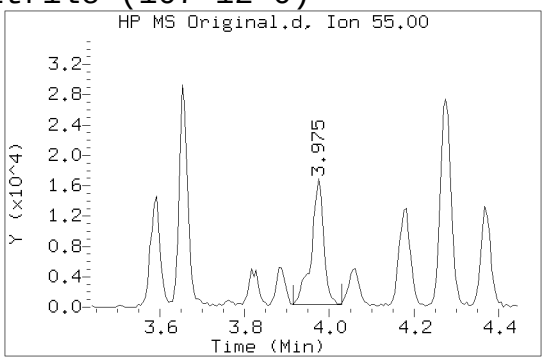


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InstruID : ms25.i
LabSampID : 1235

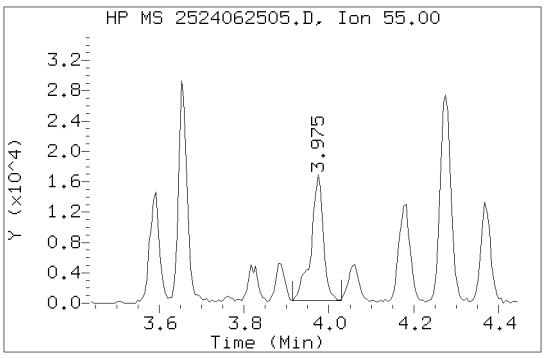
Propionitrile (107-12-0)

Reason Code: I

BEFORE
MASS
55
AREA
33579
HEIGHT
16614
25-Jun-2024
18:35



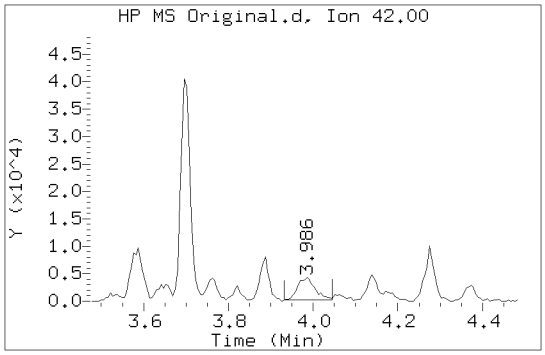
AFTER
MASS
55
AREA
33579
HEIGHT
16614
25-Jun-2024
19:31



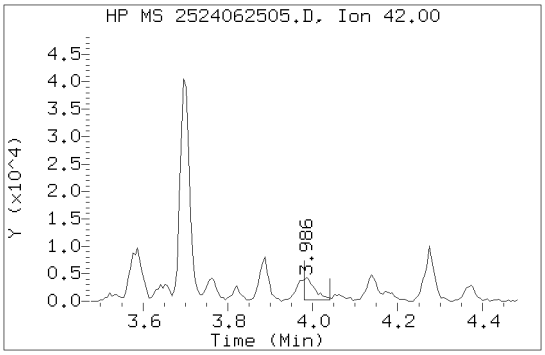
Isobutyl alcohol (78-83-1)

Reason Code: MP

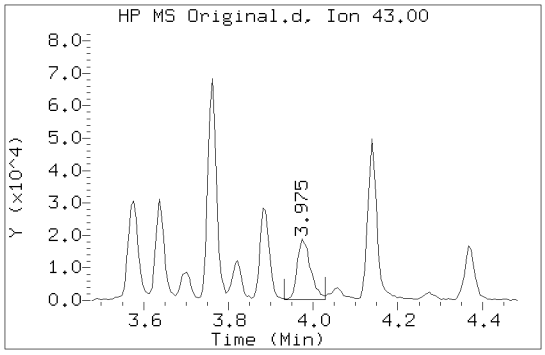
BEFORE
MASS
42
AREA
12012
HEIGHT
4113
25-Jun-2024
18:35



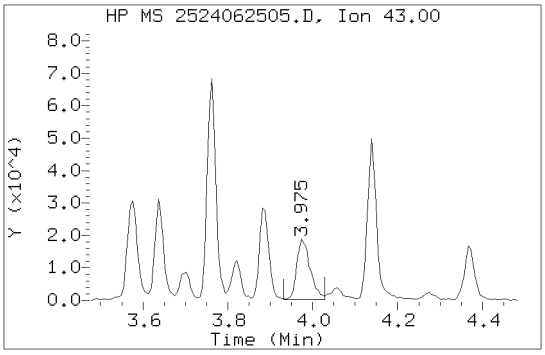
AFTER
MASS
42
AREA
7621
HEIGHT
4107
25-Jun-2024
19:31



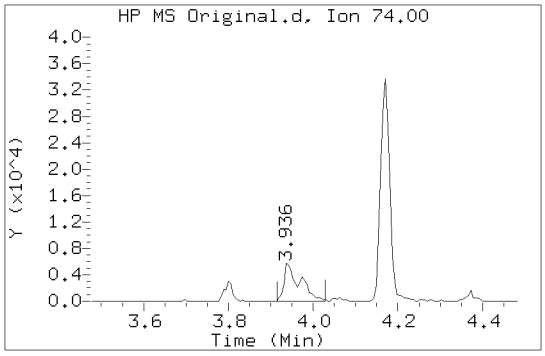
BEFORE
MASS
43
AREA
41216
HEIGHT
18776
25-Jun-2024
18:35



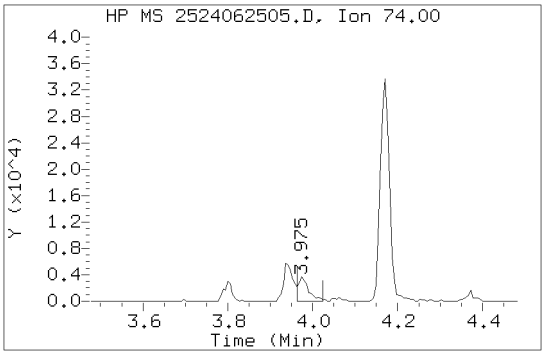
AFTER
MASS
43
AREA
41216
HEIGHT
18776
25-Jun-2024
19:31



BEFORE
MASS
74
AREA
15051
HEIGHT
5773
25-Jun-2024
18:35



AFTER
MASS
74
AREA
6220
HEIGHT
3685
25-Jun-2024
19:31

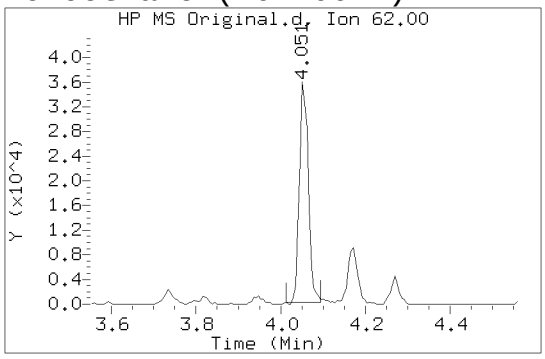


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LabSampID : 1235

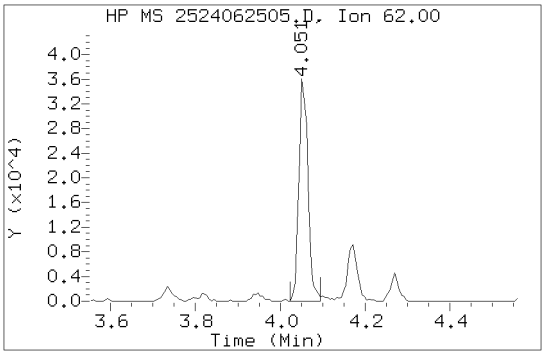
1,2-Dichloroethane (107-06-2)

Reason Code: I

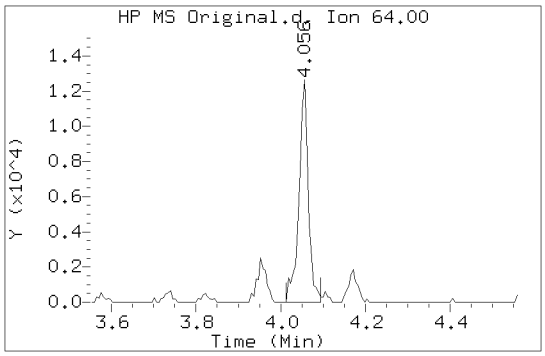
BEFORE
MASS
62
AREA
52620
HEIGHT
35766
25-Jun-2024
18:35



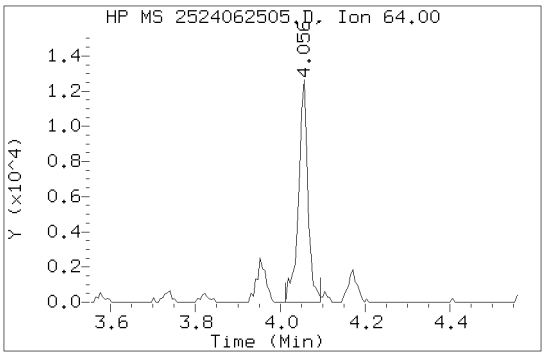
AFTER
MASS
62
AREA
53935
HEIGHT
36034
25-Jun-2024
19:31



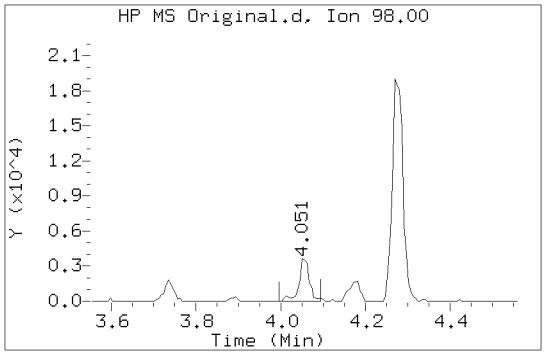
BEFORE
MASS
64
AREA
19445
HEIGHT
12637
25-Jun-2024
18:35



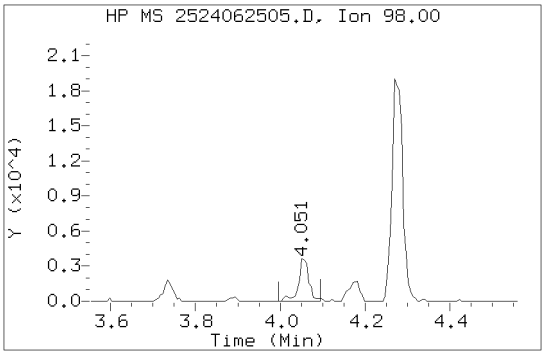
AFTER
MASS
64
AREA
19445
HEIGHT
12637
25-Jun-2024
19:31



BEFORE
MASS
98
AREA
6242
HEIGHT
3640
25-Jun-2024
18:35



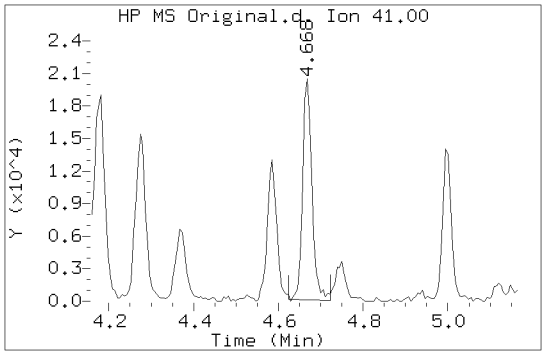
AFTER
MASS
98
AREA
6242
HEIGHT
3640
25-Jun-2024
19:31



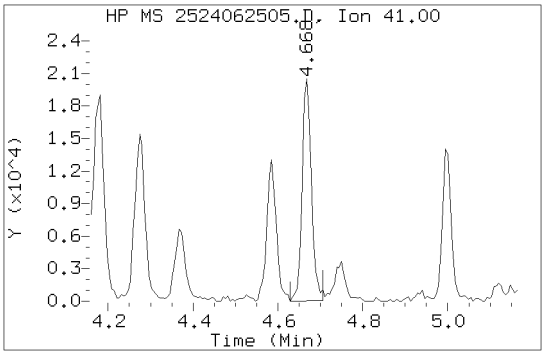
Methyl methacrylate (80-62-6)

Reason Code: I

BEFORE
MASS
41
AREA
31353
HEIGHT
20381
25-Jun-2024
18:35



AFTER
MASS
41
AREA
31161
HEIGHT
20475
25-Jun-2024
19:31

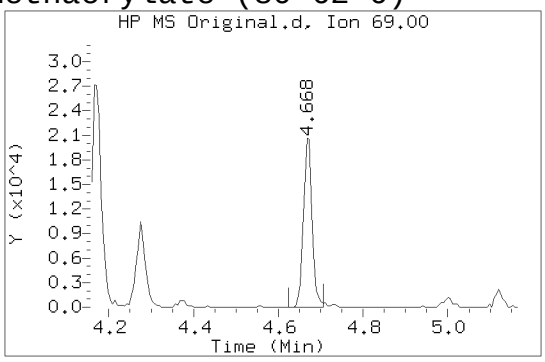


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LabSampID : 1235

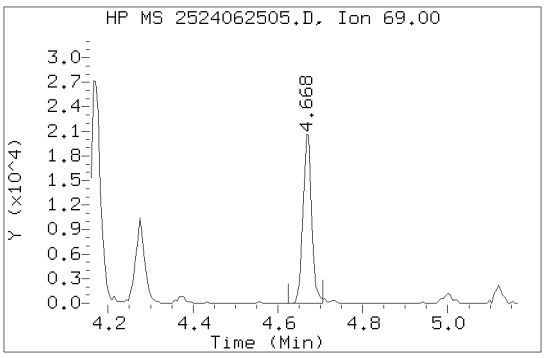
Methyl methacrylate (80-62-6)

Reason Code: I

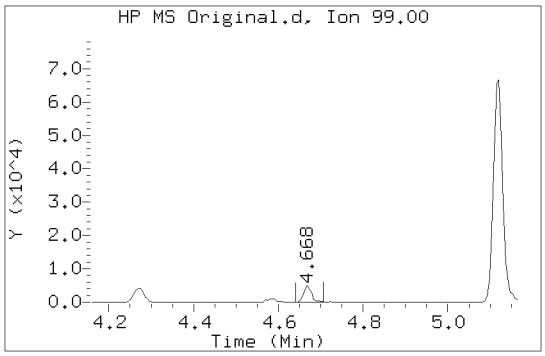
BEFORE
MASS
69
AREA
29450
HEIGHT
20640
25-Jun-2024
18:35



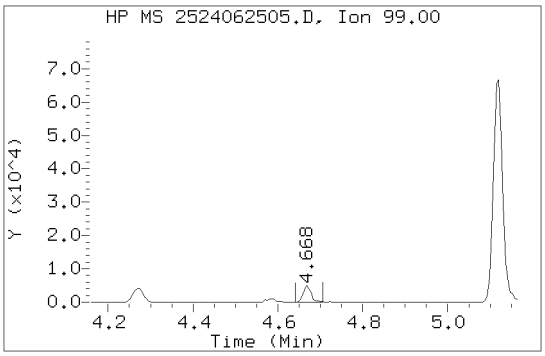
AFTER
MASS
69
AREA
29450
HEIGHT
20640
25-Jun-2024
19:31



BEFORE
MASS
99
AREA
6379
HEIGHT
4970
25-Jun-2024
18:35



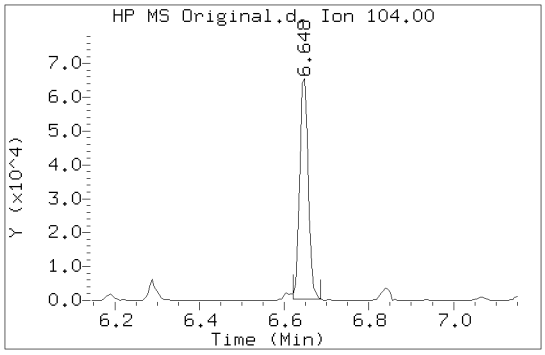
AFTER
MASS
99
AREA
6379
HEIGHT
4970
25-Jun-2024
19:31



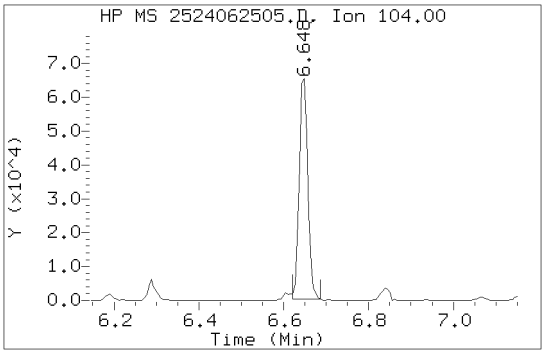
Styrene (100-42-5)

Reason Code: MP

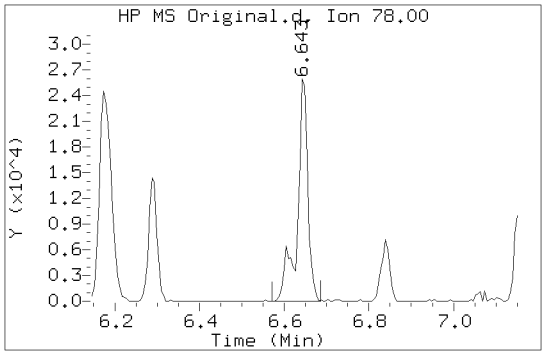
BEFORE
MASS
104
AREA
91709
HEIGHT
65019
25-Jun-2024
18:35



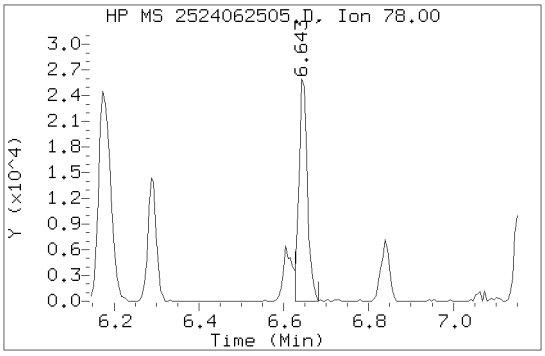
AFTER
MASS
104
AREA
91709
HEIGHT
65019
25-Jun-2024
19:31



BEFORE
MASS
78
AREA
45089
HEIGHT
25968
25-Jun-2024
18:35



AFTER
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78
AREA
36230
HEIGHT
25938
25-Jun-2024
19:31

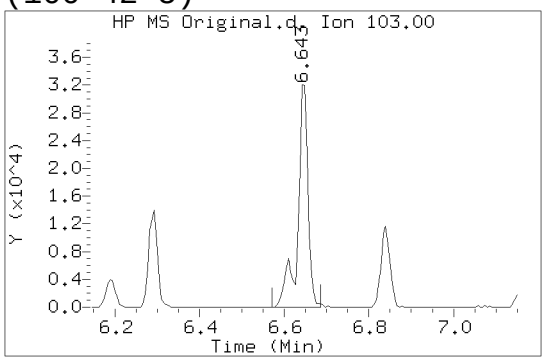


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Inj Date : 25-JUN-2024 11:44
InstruID : ms25.i
LabSampID : 1235

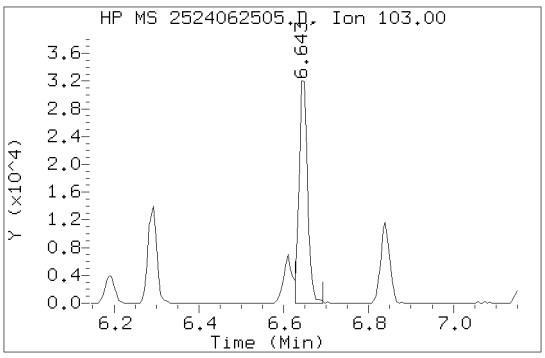
Styrene (100-42-5)

Reason Code: MP

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103
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25-Jun-2024
18:35



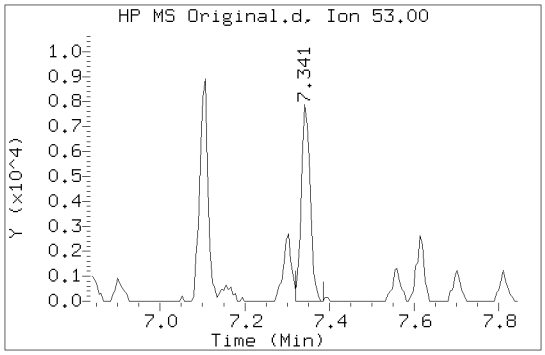
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25-Jun-2024
19:31



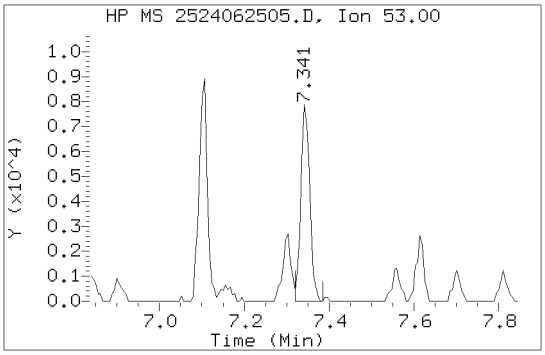
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

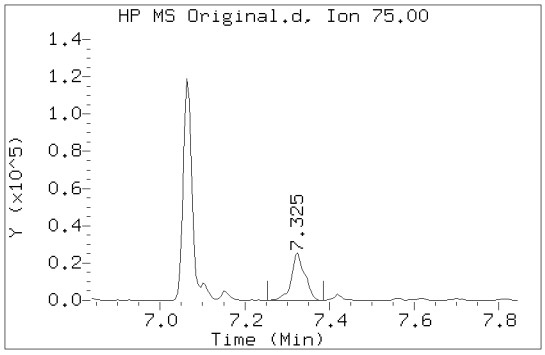
BEFORE
MASS
53
AREA
11562
HEIGHT
7888
25-Jun-2024
18:35



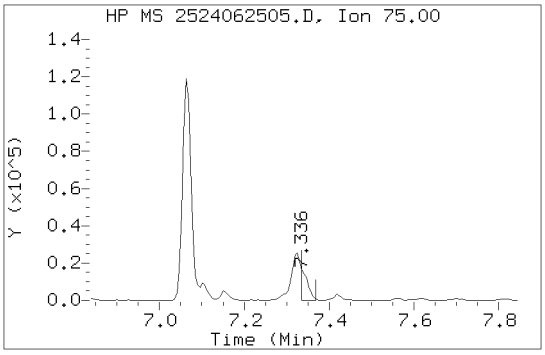
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HEIGHT
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25-Jun-2024
19:31



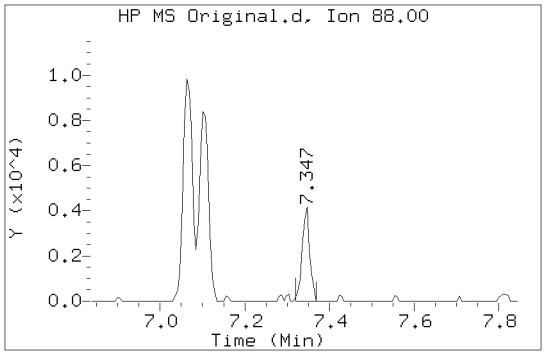
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AREA
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25472
25-Jun-2024
18:35



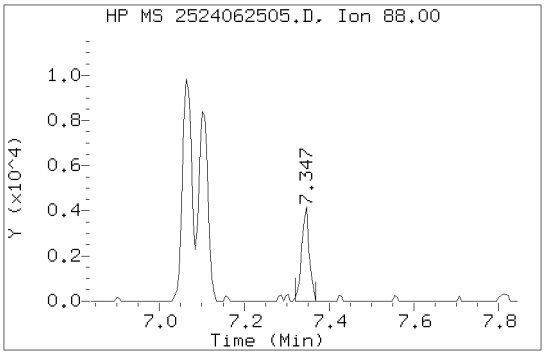
AFTER
MASS
75
AREA
18172
HEIGHT
16543
25-Jun-2024
19:31



BEFORE
MASS
88
AREA
5192
HEIGHT
4177
25-Jun-2024
18:35



AFTER
MASS
88
AREA
5192
HEIGHT
4177
25-Jun-2024
19:31

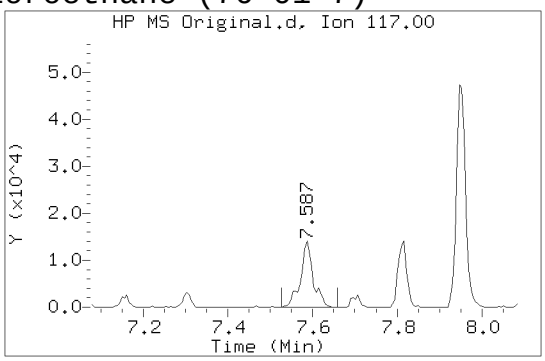


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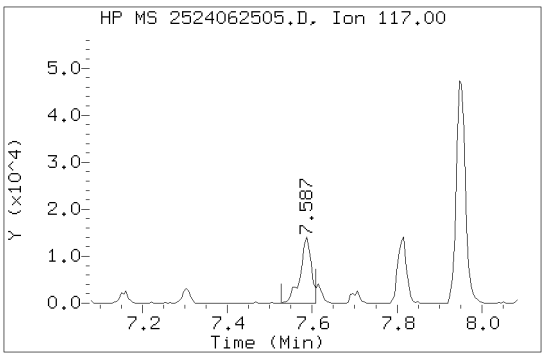
Pentachloroethane (76-01-7)

Reason Code: MP

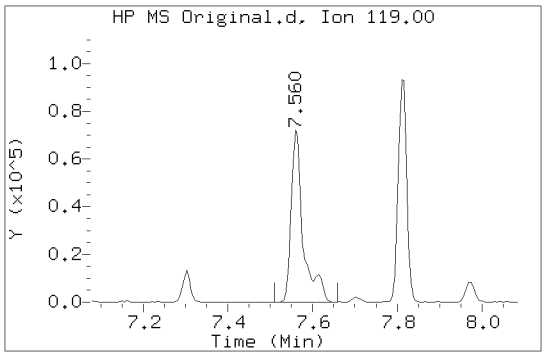
BEFORE
MASS
117
AREA
29258
HEIGHT
14119
25-Jun-2024
18:35



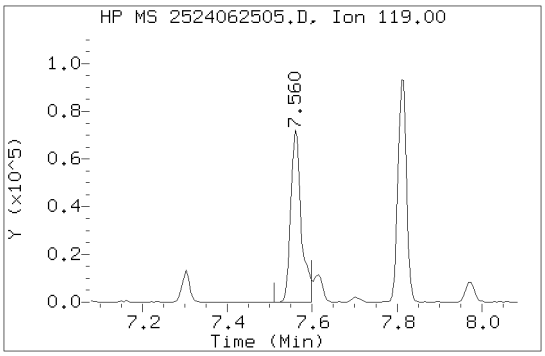
AFTER
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AREA
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HEIGHT
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25-Jun-2024
19:31



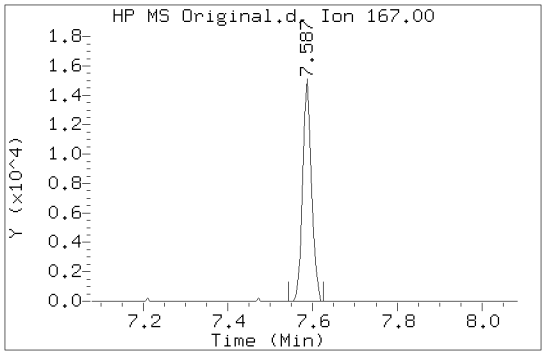
BEFORE
MASS
119
AREA
142818
HEIGHT
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25-Jun-2024
18:35



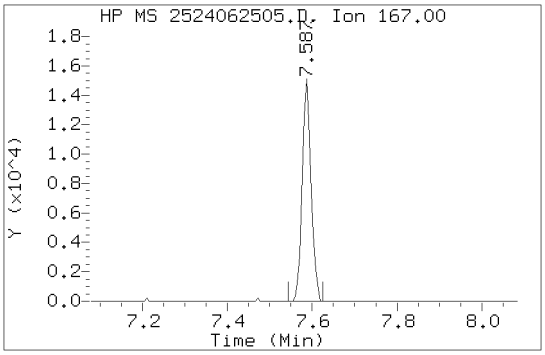
AFTER
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119
AREA
125797
HEIGHT
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25-Jun-2024
19:31



BEFORE
MASS
167
AREA
21855
HEIGHT
15118
25-Jun-2024
18:35



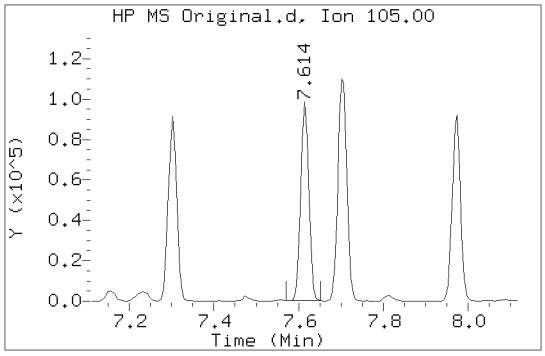
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25-Jun-2024
19:31



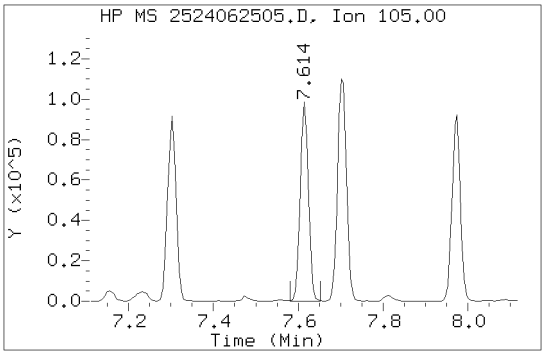
1,2,4-Trimethylbenzene (95-63-6)

Reason Code: I

BEFORE
MASS
105
AREA
131894
HEIGHT
98549
25-Jun-2024
18:35



AFTER
MASS
105
AREA
132392
HEIGHT
98665
25-Jun-2024
19:31

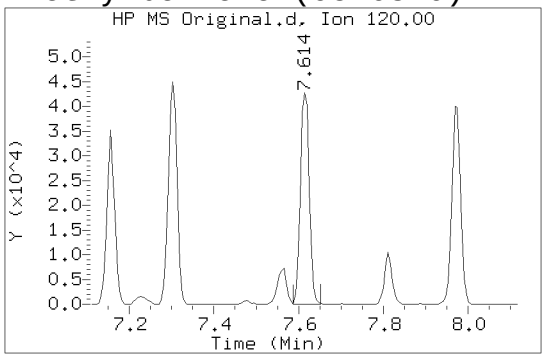


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LabSampID : 1235

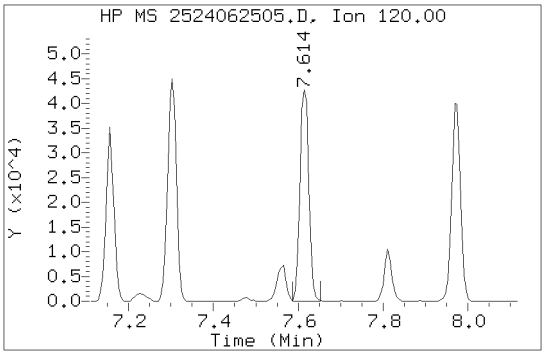
1,2,4-Trimethylbenzene (95-63-6)

Reason Code: I

BEFORE
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120
AREA
62494
HEIGHT
42800
25-Jun-2024
18:35



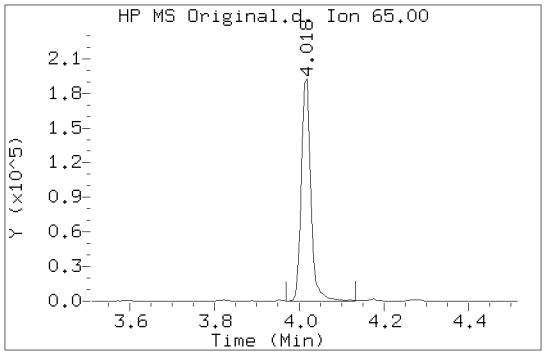
AFTER
MASS
120
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HEIGHT
42800
25-Jun-2024
19:31



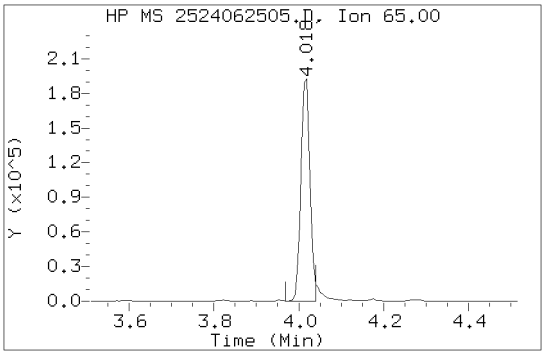
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

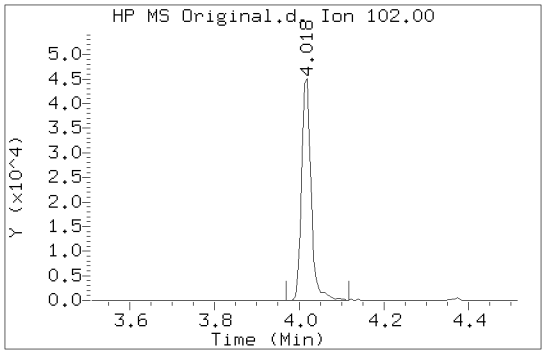
BEFORE
MASS
65
AREA
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HEIGHT
192254
25-Jun-2024
18:35



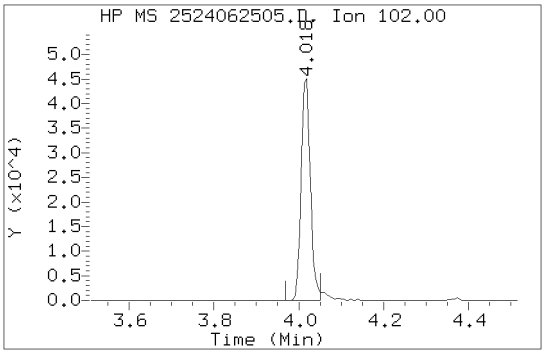
AFTER
MASS
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25-Jun-2024
19:31



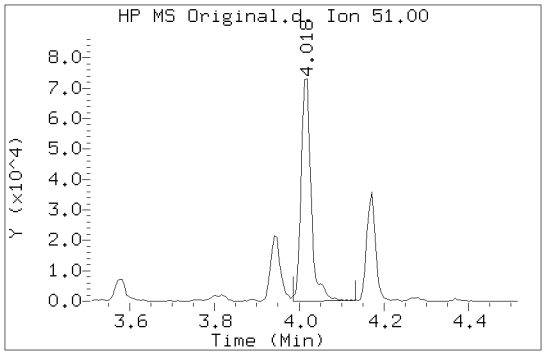
BEFORE
MASS
102
AREA
70502
HEIGHT
45072
25-Jun-2024
18:35



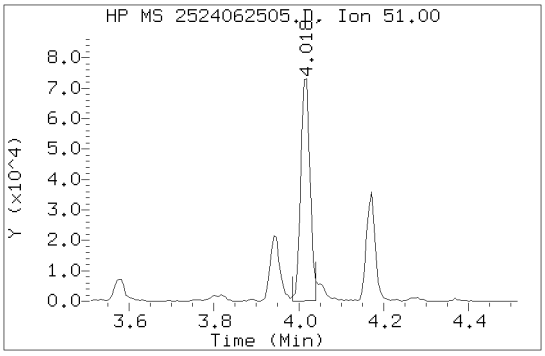
AFTER
MASS
102
AREA
68255
HEIGHT
45072
25-Jun-2024
19:31



BEFORE
MASS
51
AREA
120714
HEIGHT
72920
25-Jun-2024
18:35



AFTER
MASS
51
AREA
112476
HEIGHT
72920
25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 11:44
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062506.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062506.D
Lab Smp Id: 1236
Inj Date : 25-JUN-2024 12:04
Operator : ILY Inst ID: ms25.i
Smp Info : 1236;;1;1;3;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	218972	20.0000	18.3014	
2 Chloromethane	50	1.644	1.645	(0.394)	186575	20.0000	17.7810	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	244505	20.0000	18.0770	
4 Bromomethane	94	1.922	1.923	(0.461)	128221	20.0000	19.5396	
5 Chloroethane	64	2.004	2.005	(0.481)	167849	20.0000	18.1769	
6 Pentane	41	2.091	2.092	(0.502)	154298	20.0000	17.6328	
7 Trichlorofluoromethane	101	2.097	2.103	(0.503)	342524	20.0000	18.4880	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	330328	20.0000	19.2692	
9 Ethyl Ether	74	2.277	2.278	(0.546)	104226	20.0000	19.9934	
10 1,1-Dichloroethene	61	2.413	2.409	(0.579)	195734	20.0000	18.8162	
11 Freon 113	101	2.424	2.425	(0.581)	135864	20.0000	18.5692	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	414688	20.0000	18.4799	
13 Iodomethane	127	2.506	2.507	(0.601)	55931	20.0000	14.2386	
14 Acrolein	56	2.599	2.600	(0.623)	158045	100.000	94.1918	
15 Isopropyl Alcohol	45	2.653	2.654	(0.636)	48509	100.000	86.3919	
16 3-Chloro-1-propene	41	2.681	2.676	(0.643)	163615	20.0000	18.1616	
17 Methylene Chloride	84	2.741	2.741	(0.657)	162608	20.0000	19.1368	
18 Acetone	58	2.757	2.752	(0.661)	85596	100.000	90.9222	
19 Methyl acetate	74	2.817	2.812	(0.676)	35525	20.0000	18.1033	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	192543	20.0000	18.8981	
21 Hexane	57	2.866	2.867	(0.687)	304896	20.0000	17.8025	

Data File: 2524062506.D
Report Date: 25-Jun-2024 19:32

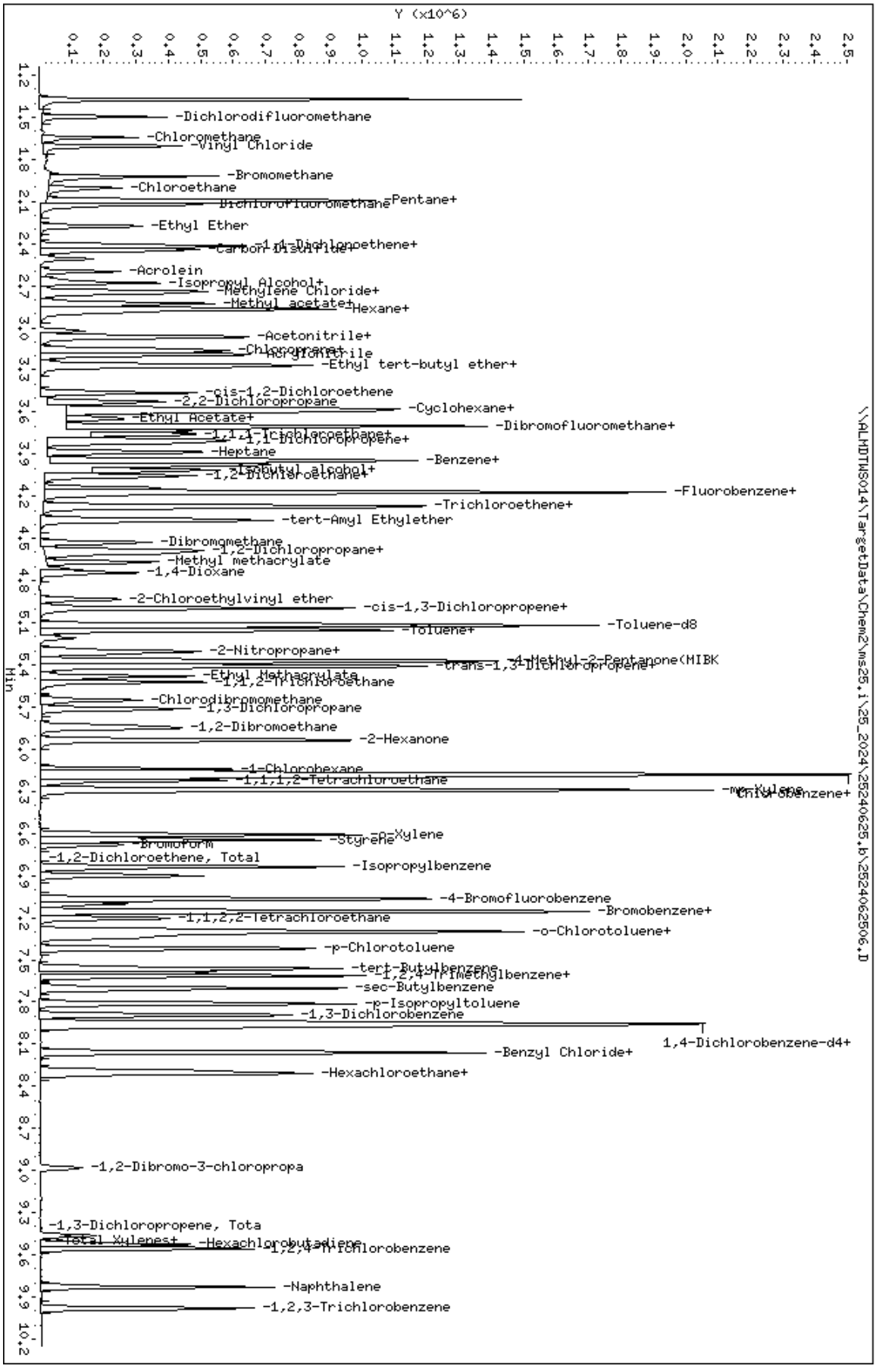
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	466744	20.0000	18.0052	
	23 tert.- Butyl Alcohol	59	2.894	2.889	(0.694)	93681	100.000	99.6811	
	24 Acetonitrile	41	3.019	3.020	(0.724)	101641	100.000	96.5507	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	437840	20.0000	19.3632	
	26 Chloroprene	53	3.155	3.156	(0.757)	221317	20.0000	19.3055	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	262971	20.0000	18.9452	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	357939	100.000	99.0143(M)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	474249	20.0000	19.7473	
	30 n-Propanol	41	3.265	3.260	(0.783)	78030	200.000	175.162	
	31 Vinyl Acetate	86	3.275	3.276	(0.785)	38506	20.0000	16.5102(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	202733	20.0000	19.6245	
	33 2,2-Dichloropropane	77	3.526	3.522	(0.846)	209285	20.0000	18.9176	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	89307	20.0000	20.0465(M)	I
	35 Cyclohexane	84	3.587	3.587	(0.860)	228148	20.0000	18.4057	
	36 Chloroform	83	3.597	3.598	(0.863)	289206	20.0000	19.3002	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	158992	20.0000	17.6402	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	161402	20.0000	19.4022	
	39 Carbon Tetrachloride	117	3.696	3.696	(0.886)	178993	20.0000	16.5213(M)	MP
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	254218	30.0000	29.7958	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	239357	100.000	94.1190	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	229321	20.0000	19.6617	
	43 2-Butanone	72	3.761	3.767	(0.902)	119256	100.000	97.0025(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	209130	20.0000	18.9558	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	125975	20.0000	17.7561(M)	I
	46 Heptane	71	3.881	3.887	(0.931)	113785	20.0000	17.7521	
	47 Benzene	78	3.941	3.942	(0.945)	633576	20.0000	18.6841	
	48 Propionitrile	54	3.941	3.942	(0.945)	134551	100.000	98.2898	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	80238	20.0000	19.5530	
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	449684	20.0000	19.3976	
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	34403	200.000	167.479(QM)	MP
$	51 1,2-Dichloroethane-d4	65	4.012	4.013	(0.962)	270413	30.0000	30.0658(M)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	198579	20.0000	18.6286	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	67407	100.000	93.4837	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1081327	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	376363	20.0000	17.0103	
	57 Trichloroethene	95	4.269	4.269	(1.024)	154832	20.0000	18.0411	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	253987	20.0000	18.9162	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	354280	20.0000	17.7021	
	60 Dibromomethane	93	4.525	4.526	(1.085)	107302	20.0000	19.7777	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	156440	20.0000	19.1684	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	189702	20.0000	16.9316	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	123610	20.0000	19.1373	
	64 1,4-Dioxane	88	4.716	4.722	(1.131)	59497	500.000	470.930(A)	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	95250	20.0000	16.1993	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	247573	20.0000	17.8608	
	67 Octane	85	4.994	5.000	(0.809)	99968	20.0000	19.6362	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1004639	30.0000	30.6546	
	69 Toluene	92	5.153	5.153	(0.835)	377248	20.0000	18.1613	
	70 Chloroacetonitrile	75	5.207	5.208	(0.844)	48573	100.000	93.8022	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	186383	100.000	83.0816	
	72 1,1-Dichloro-2-Propanone	63	5.311	5.317	(0.860)	18693	100.000	86.1649(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	770302	100.000	94.5351	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	223814	20.0000	17.4534	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	146028	20.0000	19.3061	

Data File: 2524062506.D Page 3
Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	223797	20.0000	18.0778	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	126126	20.0000	19.7624	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	154197	20.0000	17.2869	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	254532	20.0000	20.1855	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	153645	20.0000	18.2360	
	81 2-Hexanone	43	5.933	5.933	(0.961)	515146	100.000	92.2414	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	207769	20.0000	19.0130	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	413941	30.0000	(M)	MP
	84 Chlorobenzene	112	6.184	6.184	(1.002)	413442	20.0000	19.5313	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	219414	20.0000	17.6413	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	142310	20.0000	18.0101	
	87 mp-Xylene	106	6.287	6.288	(1.019)	535925	40.0000	35.9652	
	88 o-Xylene	106	6.609	6.610	(1.071)	249220	20.0000	17.6917	
	89 Styrene	104	6.648	6.648	(0.836)	391500	20.0000	17.3301(M)	MP
	90 Bromoform	173	6.680	6.686	(0.840)	102722	20.0000	16.1644	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	566222	20.0000	17.8690	
M	100 1,2-Dichloroethene, Total	61				395276	40.0000	38.5226	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	329556	30.0000	30.8412	
	93 Bromobenzene	156	7.155	7.156	(0.900)	171981	20.0000	18.8323	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	172929	20.0000	18.5182	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	181899	20.0000	20.0402	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	467074	20.0000	19.0107	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	483177	20.0000	18.5913	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	58202	20.0000	19.8811	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	47099	20.0000	17.1018(M)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	428598	20.0000	19.2591	
	102 tert-Butylbenzene	134	7.564	7.559	(0.951)	123761	20.0000	19.9106	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	104294	20.0000	16.9034(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	488792	20.0000	17.6631	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	625458	20.0000	19.4719	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	142765	20.0000	19.4087	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	294339	20.0000	19.1313	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	386252	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	300384	20.0000	18.7310	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	59767	20.0000	15.8725(Q)	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	125006	20.0000	18.1853	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	85914	20.0000	15.8547	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	283817	20.0000	19.3661	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	27852	20.0000	16.3262	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	74725	200.000	143.781	
	116 Hexachlorobutadiene	225	9.523	9.524	(1.198)	82540	20.0000	17.1898	
M	120 1,3-Dichloropropene, Total	75				471387	40.0000	35.3142	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	179576	20.0000	18.5029	
M	121 Total Xylenes	106				785145	60.0000	53.6568	
	118 Naphthalene	128	9.829	9.829	(1.236)	463248	20.0000	16.4549	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	178753	20.0000	16.5886	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

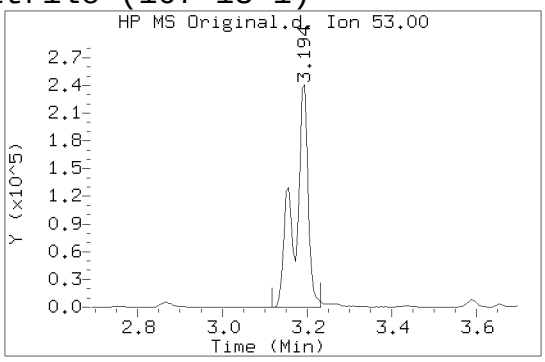

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Date : 25-JUN-2024 12:04
Client ID:
Sample Info: 1236;;1;1;3;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: ILY
Column diameter: 0.25
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-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide+
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Cyclohexane+
-Ethyl Acetate+
-Dibromofluoromethane+
-Heptane
-Benzene+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-2-Nitropropane+
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

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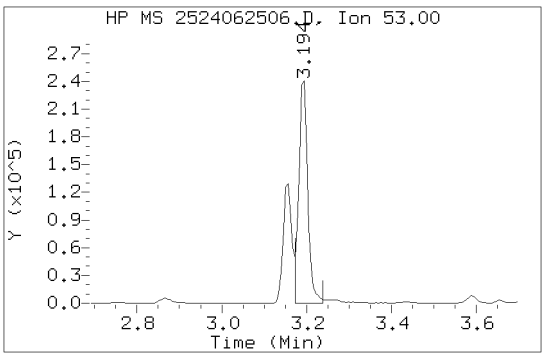
Acrylonitrile (107-13-1)

Reason Code: MP

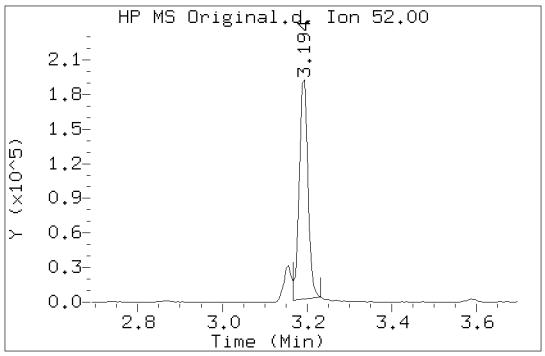
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25-Jun-2024
18:30



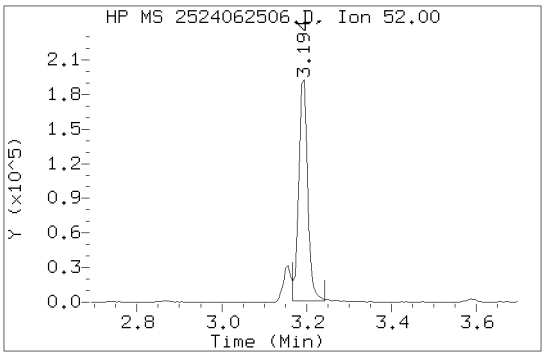
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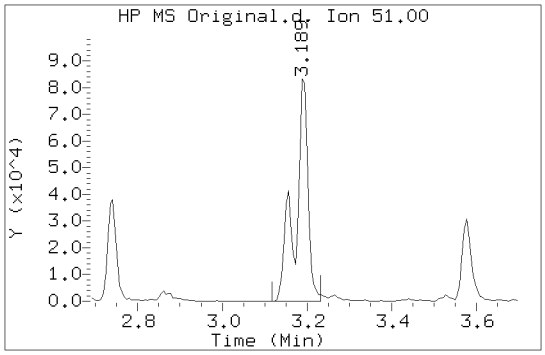
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25-Jun-2024
18:30



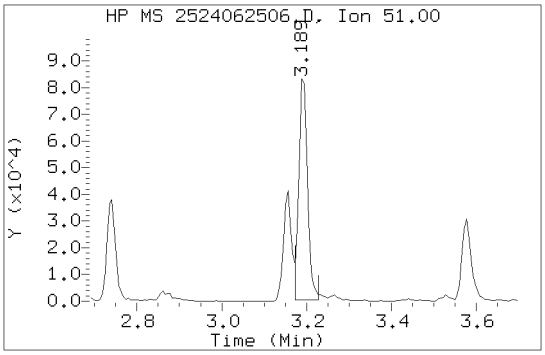
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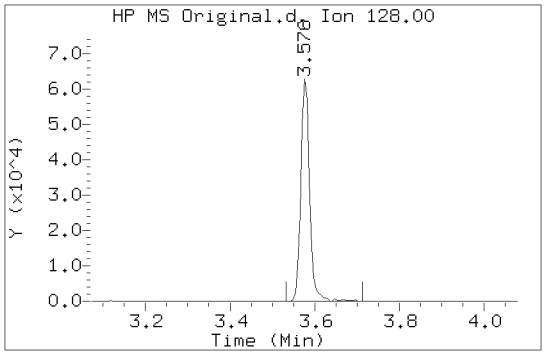
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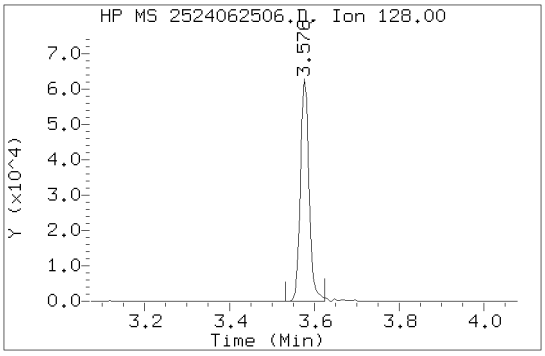
Bromochloromethane (74-97-5)

Reason Code: I

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90451
HEIGHT
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25-Jun-2024
18:30



AFTER
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AREA
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62864
25-Jun-2024
19:31

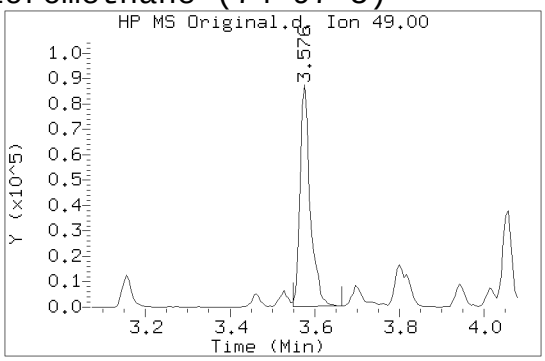


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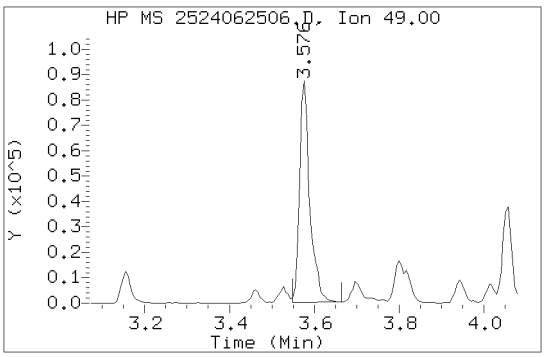
Bromochloromethane (74-97-5)

Reason Code: I

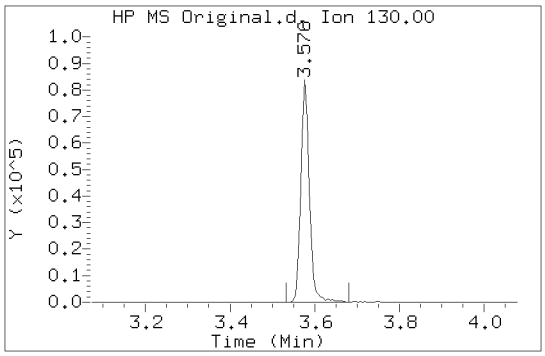
BEFORE
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HEIGHT
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25-Jun-2024
18:30



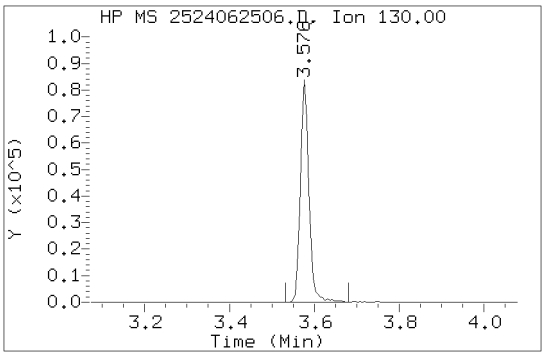
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25-Jun-2024
18:30



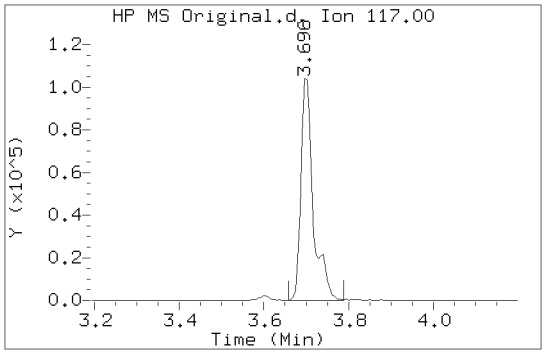
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HEIGHT
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25-Jun-2024
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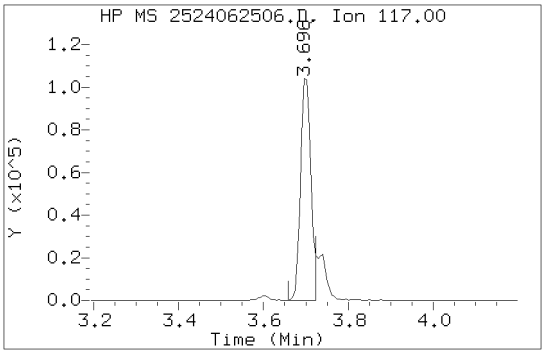
Carbon Tetrachloride (56-23-5)

Reason Code: MP

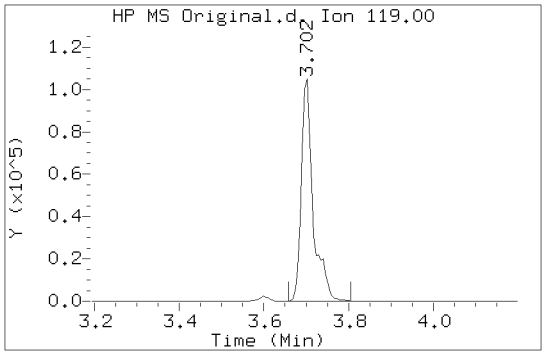
BEFORE
MASS
117
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HEIGHT
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25-Jun-2024
18:30



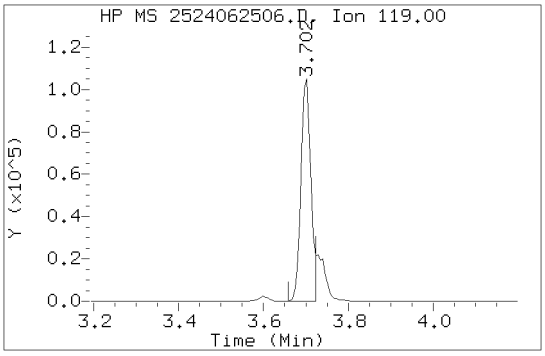
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AREA
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HEIGHT
104040
25-Jun-2024
19:31



BEFORE
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HEIGHT
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25-Jun-2024
18:30



AFTER
MASS
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HEIGHT
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25-Jun-2024
19:31

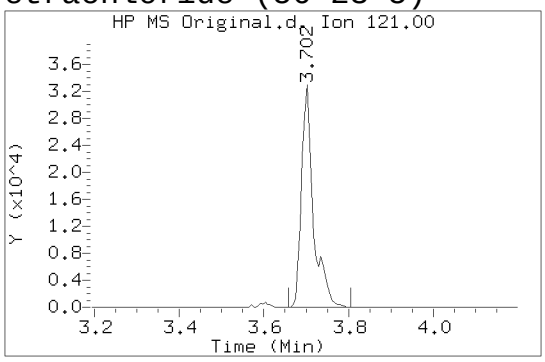


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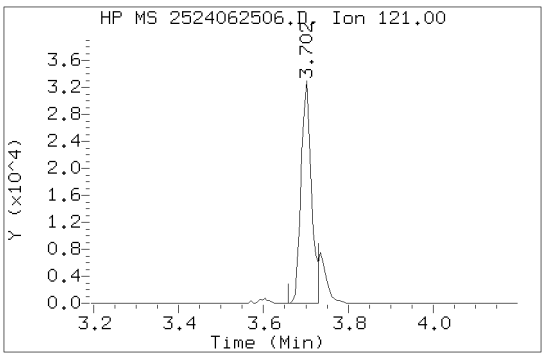
Carbon Tetrachloride (56-23-5)

Reason Code: MP

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25-Jun-2024
18:30



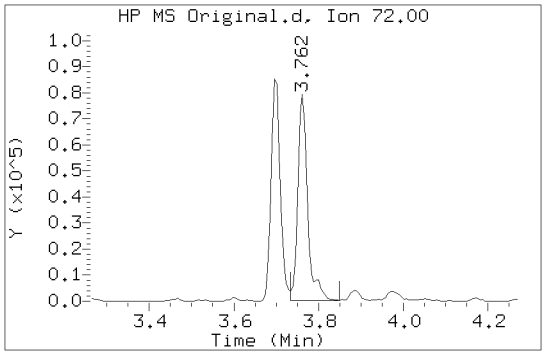
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25-Jun-2024
19:31



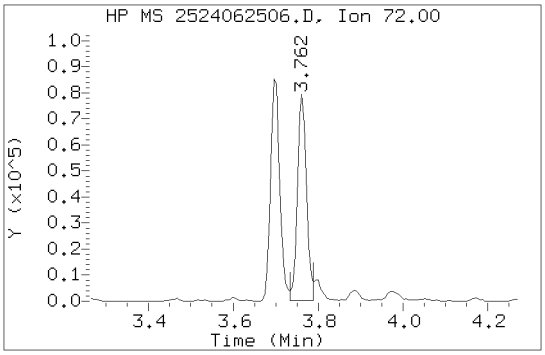
2-Butanone (78-93-3)

Reason Code: MP

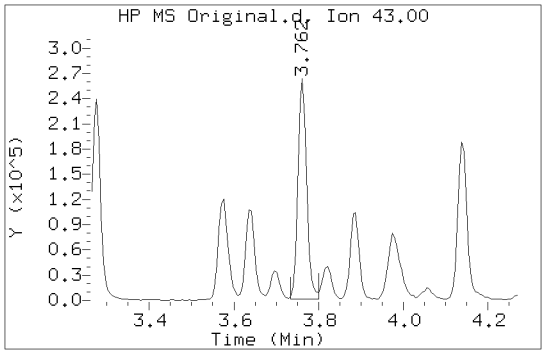
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72
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25-Jun-2024
18:30



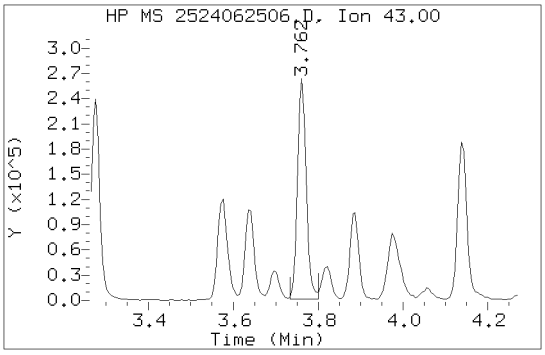
AFTER
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BEFORE
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25-Jun-2024
18:30



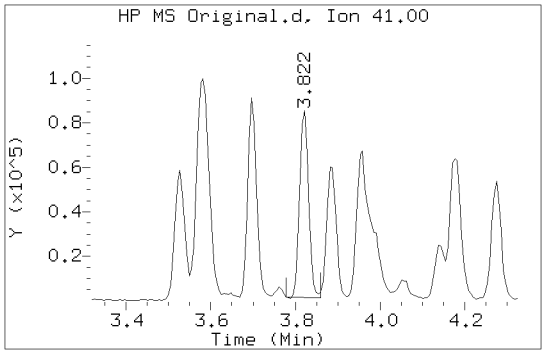
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25-Jun-2024
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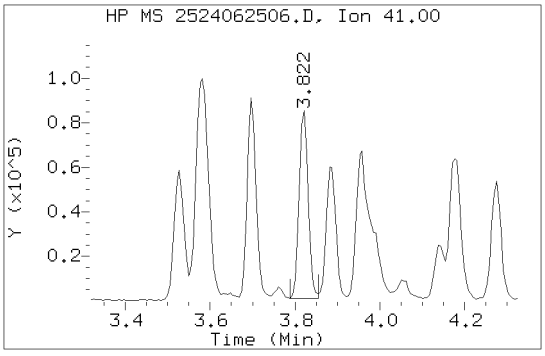
1-Chlorobutane (109-69-3)

Reason Code: I

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18:30



AFTER
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19:31

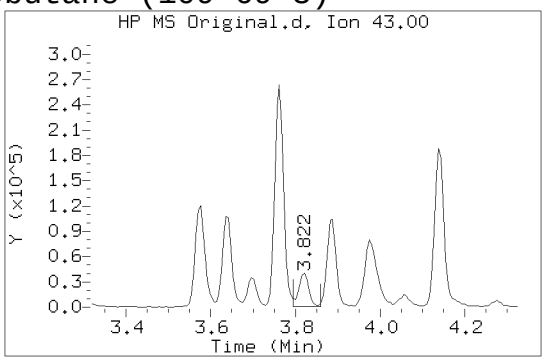


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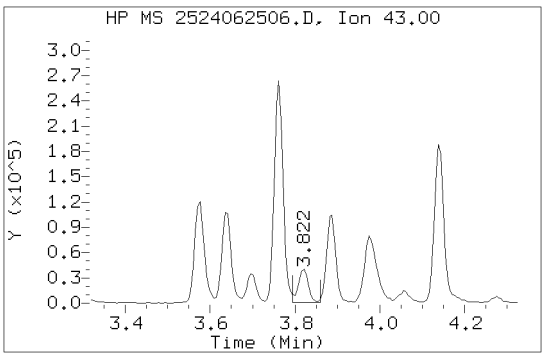
1-Chlorobutane (109-69-3)

Reason Code: I

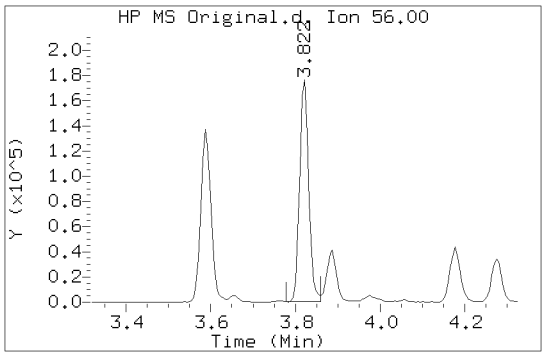
BEFORE
MASS
43
AREA
66729
HEIGHT
39675
25-Jun-2024
18:30



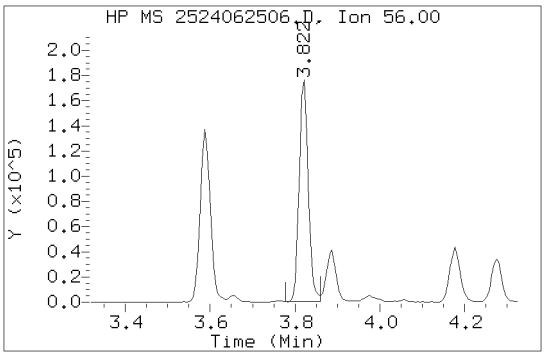
AFTER
MASS
43
AREA
66729
HEIGHT
39675
25-Jun-2024
19:31



BEFORE
MASS
56
AREA
263874
HEIGHT
176057
25-Jun-2024
18:30



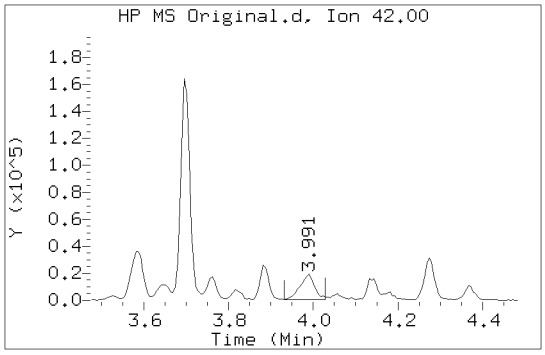
AFTER
MASS
56
AREA
263874
HEIGHT
176057
25-Jun-2024
19:31



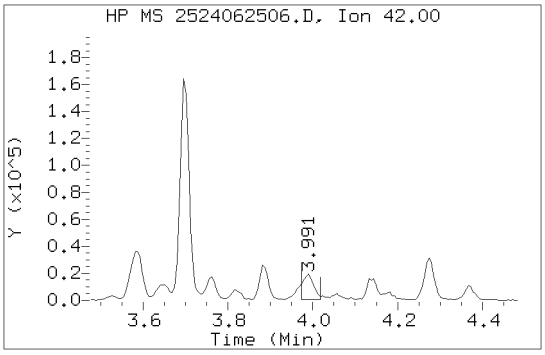
Isobutyl alcohol (78-83-1)

Reason Code: MP

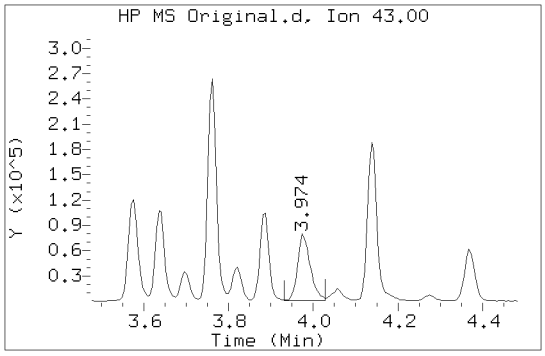
BEFORE
MASS
42
AREA
44994
HEIGHT
18890
25-Jun-2024
18:30



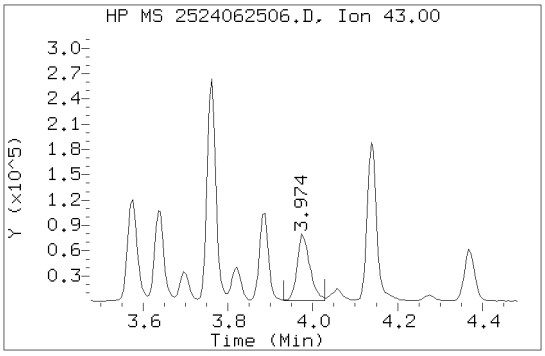
AFTER
MASS
42
AREA
34403
HEIGHT
19071
25-Jun-2024
19:31



BEFORE
MASS
43
AREA
162595
HEIGHT
78961
25-Jun-2024
18:30



AFTER
MASS
43
AREA
162595
HEIGHT
78961
25-Jun-2024
19:31



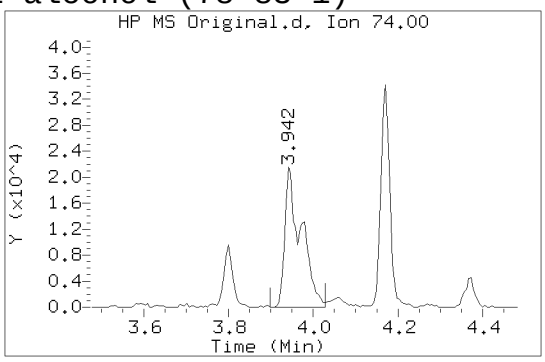
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Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

Isobutyl alcohol (78-83-1)

Reason Code: MP

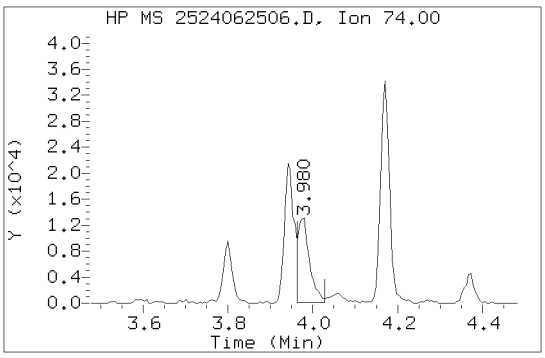
BEFORE

MASS
74
AREA
58007
HEIGHT
21560
25-Jun-2024
18:30



AFTER

MASS
74
AREA
25639
HEIGHT
13039
25-Jun-2024
19:31

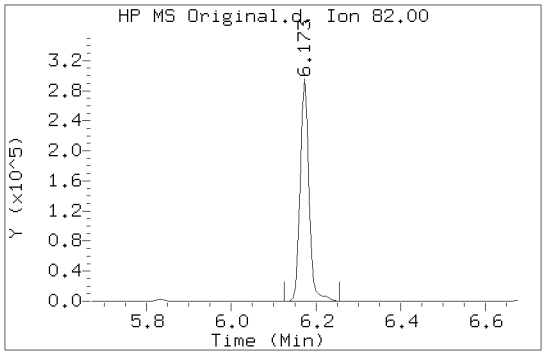


Chlorobenzene-d5 (3114-55-4)

Reason Code: MP

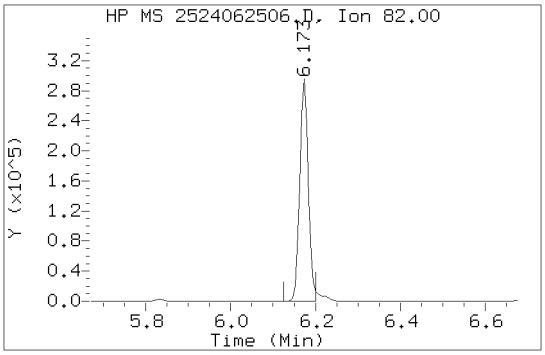
BEFORE

MASS
82
AREA
427444
HEIGHT
295680
25-Jun-2024
18:30



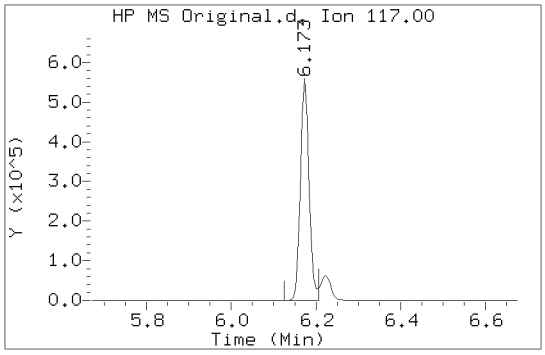
AFTER

MASS
82
AREA
413941
HEIGHT
295680
25-Jun-2024
19:31



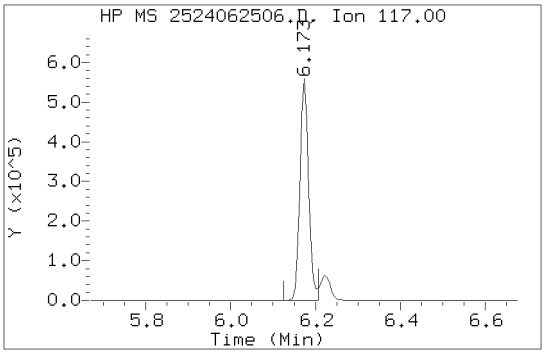
BEFORE

MASS
117
AREA
795410
HEIGHT
559168
25-Jun-2024
18:30



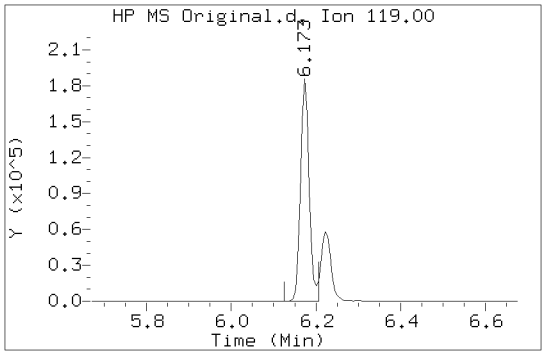
AFTER

MASS
117
AREA
795410
HEIGHT
559168
25-Jun-2024
19:31



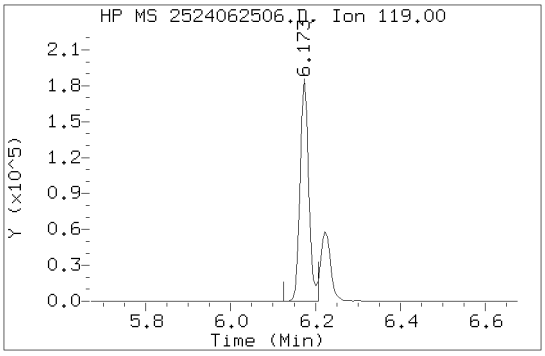
BEFORE

MASS
119
AREA
265514
HEIGHT
185728
25-Jun-2024
18:30



AFTER

MASS
119
AREA
265514
HEIGHT
185728
25-Jun-2024
19:31

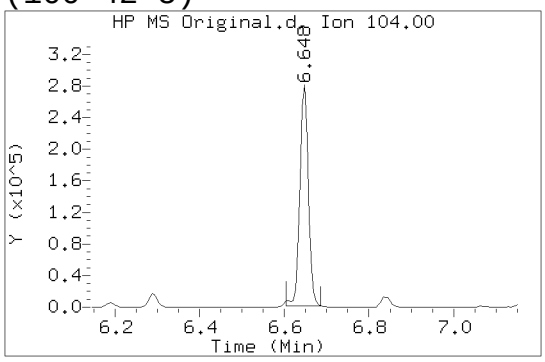


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Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

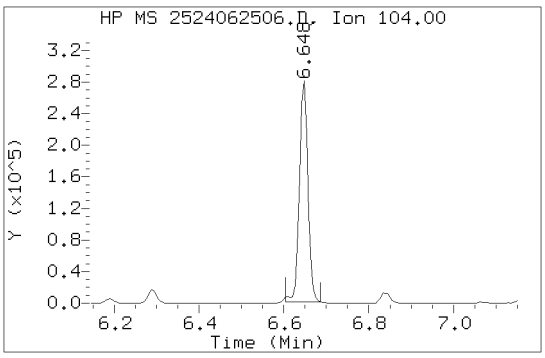
Styrene (100-42-5)

Reason Code: MP

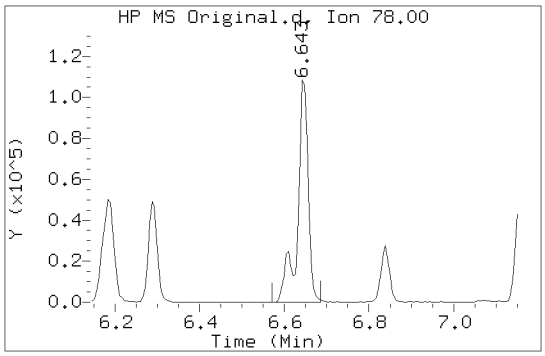
BEFORE
MASS
104
AREA
391500
HEIGHT
279792
25-Jun-2024
18:30



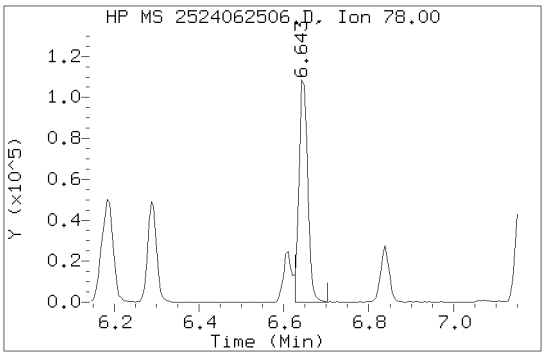
AFTER
MASS
104
AREA
391500
HEIGHT
279792
25-Jun-2024
19:31



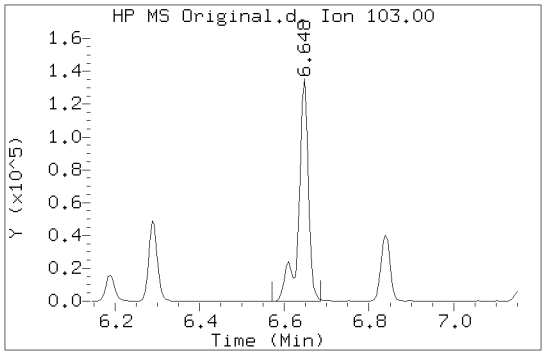
BEFORE
MASS
78
AREA
190610
HEIGHT
108552
25-Jun-2024
18:30



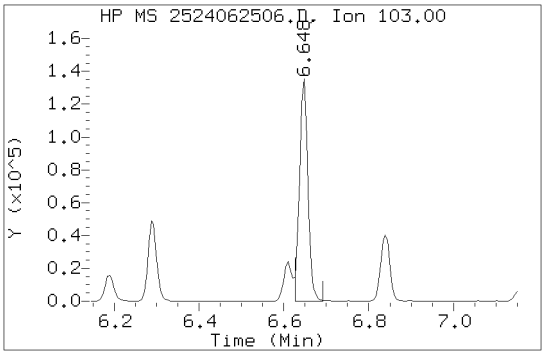
AFTER
MASS
78
AREA
157590
HEIGHT
108498
25-Jun-2024
19:31



BEFORE
MASS
103
AREA
220134
HEIGHT
135360
25-Jun-2024
18:30



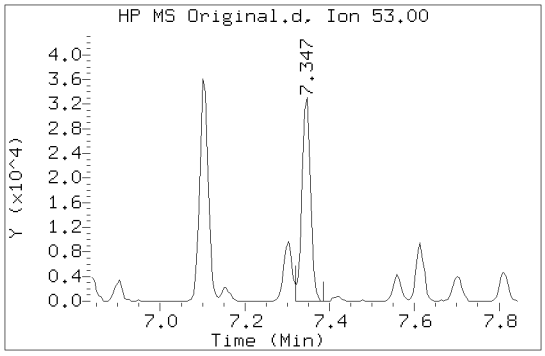
AFTER
MASS
103
AREA
187425
HEIGHT
135253
25-Jun-2024
19:31



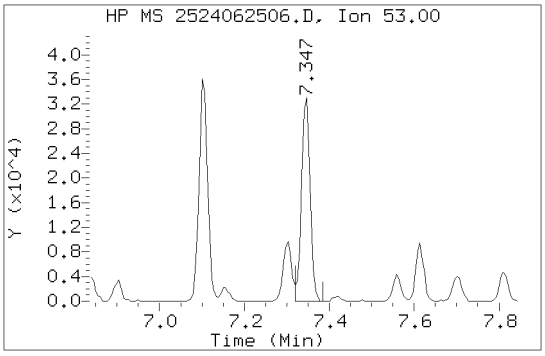
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

BEFORE
MASS
53
AREA
47099
HEIGHT
33112
25-Jun-2024
18:30



AFTER
MASS
53
AREA
47099
HEIGHT
33112
25-Jun-2024
19:31

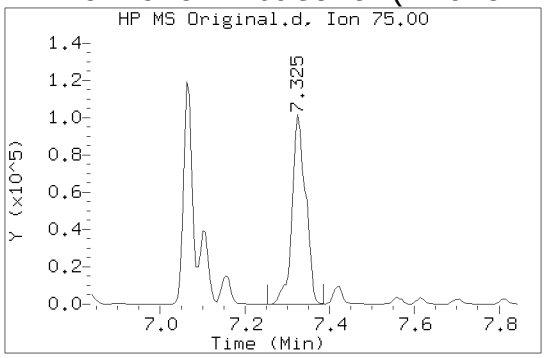


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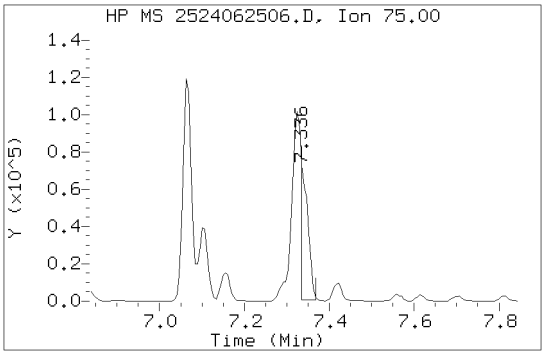
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

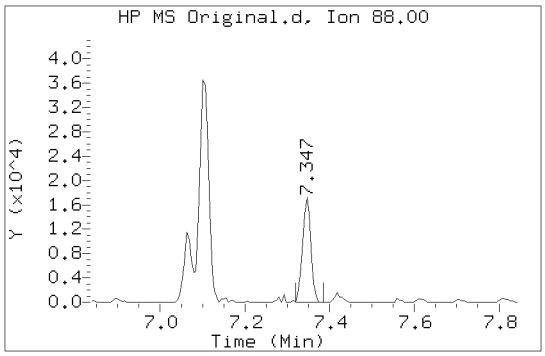
BEFORE
MASS
75
AREA
226916
HEIGHT
101592
25-Jun-2024
18:30



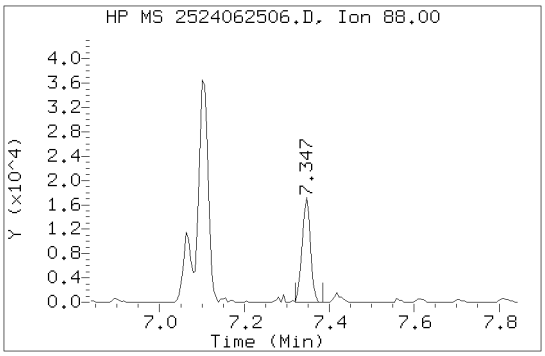
AFTER
MASS
75
AREA
82393
HEIGHT
72327
25-Jun-2024
19:31



BEFORE
MASS
88
AREA
23401
HEIGHT
17216
25-Jun-2024
18:30



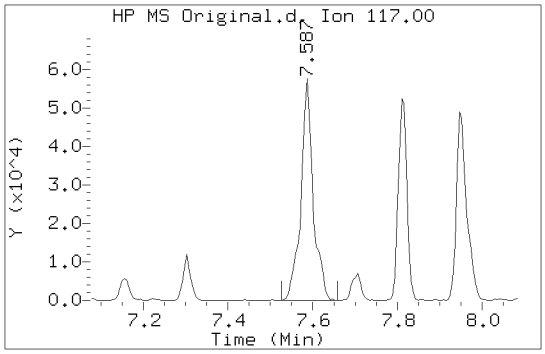
AFTER
MASS
88
AREA
23401
HEIGHT
17216
25-Jun-2024
19:31



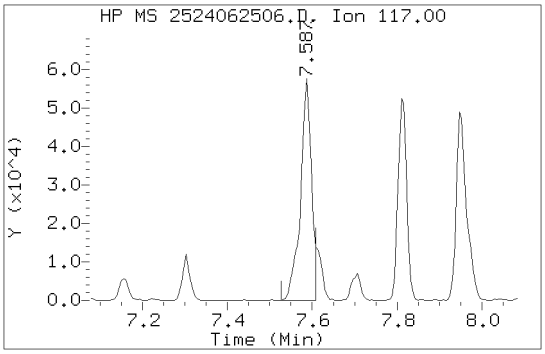
Pentachloroethane (76-01-7)

Reason Code: MP

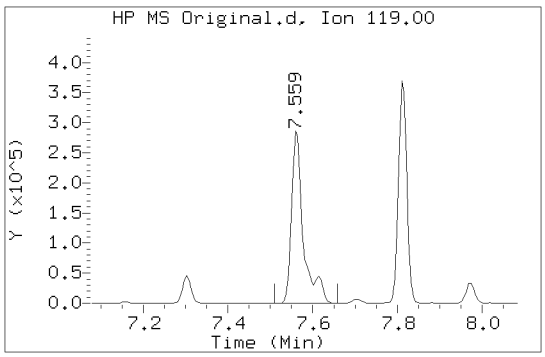
BEFORE
MASS
117
AREA
115930
HEIGHT
57624
25-Jun-2024
18:30



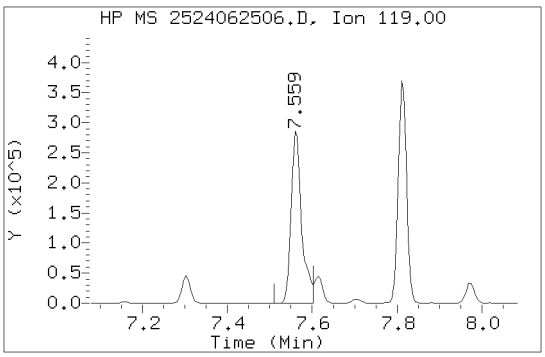
AFTER
MASS
117
AREA
104294
HEIGHT
57624
25-Jun-2024
19:31



BEFORE
MASS
119
AREA
557519
HEIGHT
285888
25-Jun-2024
18:30



AFTER
MASS
119
AREA
503478
HEIGHT
285888
25-Jun-2024
19:31



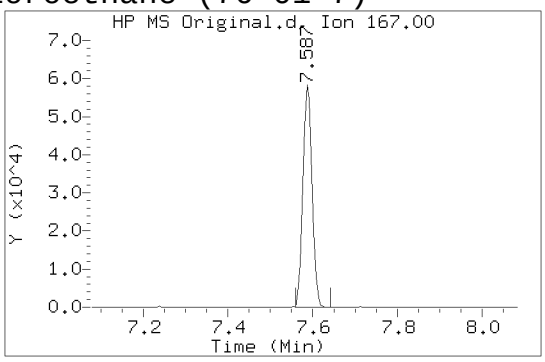
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Inj Date : 25-JUN-2024 12:04
InstruID : ms25.i
LabSampID : 1236

Pentachloroethane (76-01-7)

Reason Code: MP

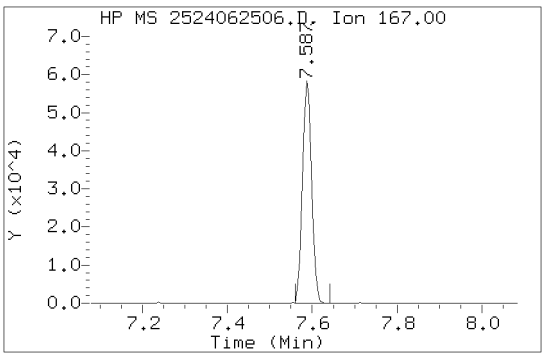
BEFORE

MASS
167
AREA
87791
HEIGHT
58336
25-Jun-2024
18:30



AFTER

MASS
167
AREA
87791
HEIGHT
58336
25-Jun-2024
19:31

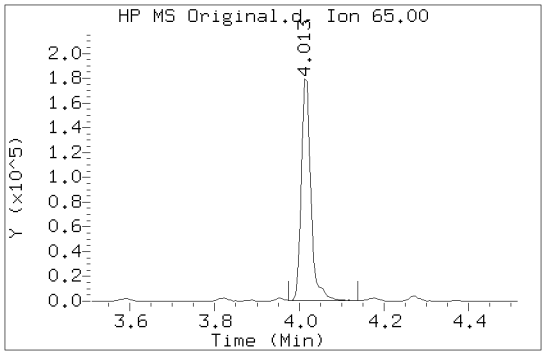


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

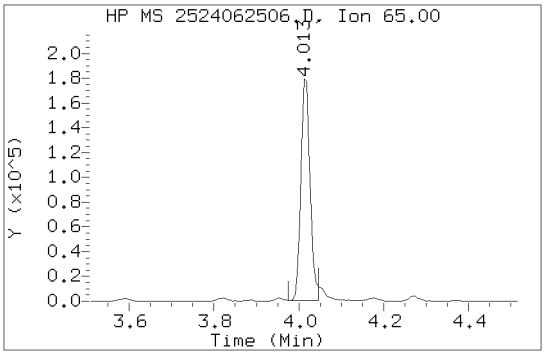
BEFORE

MASS
65
AREA
283179
HEIGHT
179074
25-Jun-2024
18:30



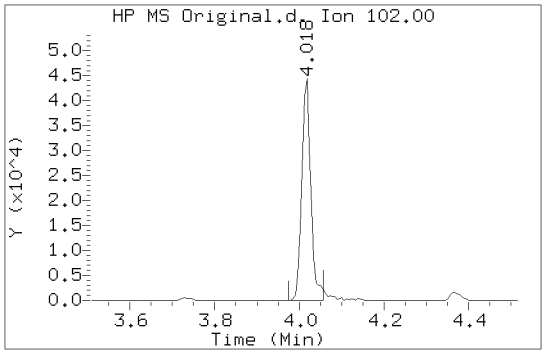
AFTER

MASS
65
AREA
270413
HEIGHT
179074
25-Jun-2024
19:31



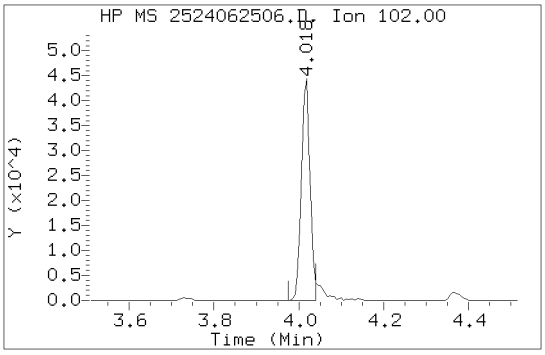
BEFORE

MASS
102
AREA
65943
HEIGHT
44392
25-Jun-2024
18:30



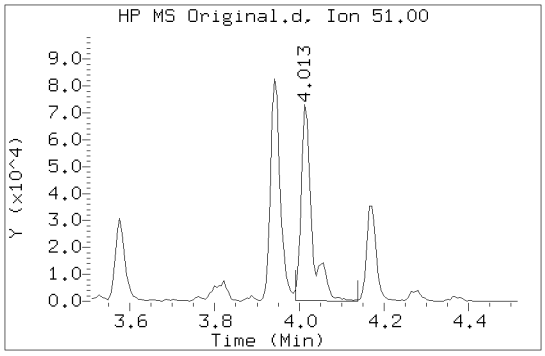
AFTER

MASS
102
AREA
63278
HEIGHT
44392
25-Jun-2024
19:31



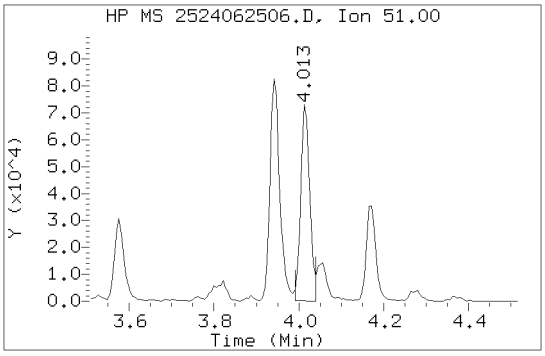
BEFORE

MASS
51
AREA
132627
HEIGHT
73037
25-Jun-2024
18:30



AFTER

MASS
51
AREA
109122
HEIGHT
73037
25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 12:04
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062507.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062507.D
Lab Smp Id: 1237
Inj Date : 25-JUN-2024 12:24
Operator : ILY Inst ID: ms25.i
Smp Info : 1237;;1;1;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	626482	50.0000	49.5188	
2	Chloromethane	50	1.644	1.645	(0.394)	540092	50.0000	48.8810	
3	Vinyl Chloride	62	1.704	1.705	(0.409)	708017	50.0000	49.5047	
4	Bromomethane	94	1.923	1.923	(0.461)	348305	50.0000	50.8873	
5	Chloroethane	64	2.004	2.005	(0.481)	473353	50.0000	48.9920	
6	Pentane	41	2.092	2.092	(0.502)	429548	50.0000	48.1516	
7	Trichlorofluoromethane	101	2.097	2.103	(0.503)	967150	50.0000	49.3694	
8	Dichlorofluoromethane	67	2.124	2.125	(0.509)	977801	50.0000	53.9430	
9	Ethyl Ether	74	2.277	2.278	(0.546)	298493	50.0000	54.1514	
10	1,1-Dichloroethene	61	2.414	2.409	(0.579)	575051	50.0000	52.2802	
11	Freon 113	101	2.425	2.425	(0.581)	405953	50.0000	52.4723	
12	Carbon Disulfide	76	2.446	2.447	(0.587)	1276822	50.0000	53.8113	
13	Iodomethane	127	2.506	2.507	(0.601)	202377	50.0000	47.4853(M)	I
14	Acrolein	56	2.599	2.600	(0.623)	464121	250.000	261.595(A)	
15	Isopropyl Alcohol	45	2.654	2.654	(0.636)	143259	250.000	246.986(A)	
16	3-Chloro-1-propene	41	2.676	2.676	(0.642)	502818	50.0000	52.4523	
17	Methylene Chloride	84	2.741	2.741	(0.657)	478779	50.0000	53.2878	
18	Acetone	58	2.752	2.752	(0.660)	251793	250.000	252.945(A)	
19	Methyl acetate	74	2.817	2.812	(0.676)	106383	50.0000	52.0435	
20	trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	585851	50.0000	54.3804	
21	Hexane	57	2.866	2.867	(0.687)	870351	50.0000	48.5594	

Data File: 2524062507.D
Report Date: 25-Jun-2024 19:32

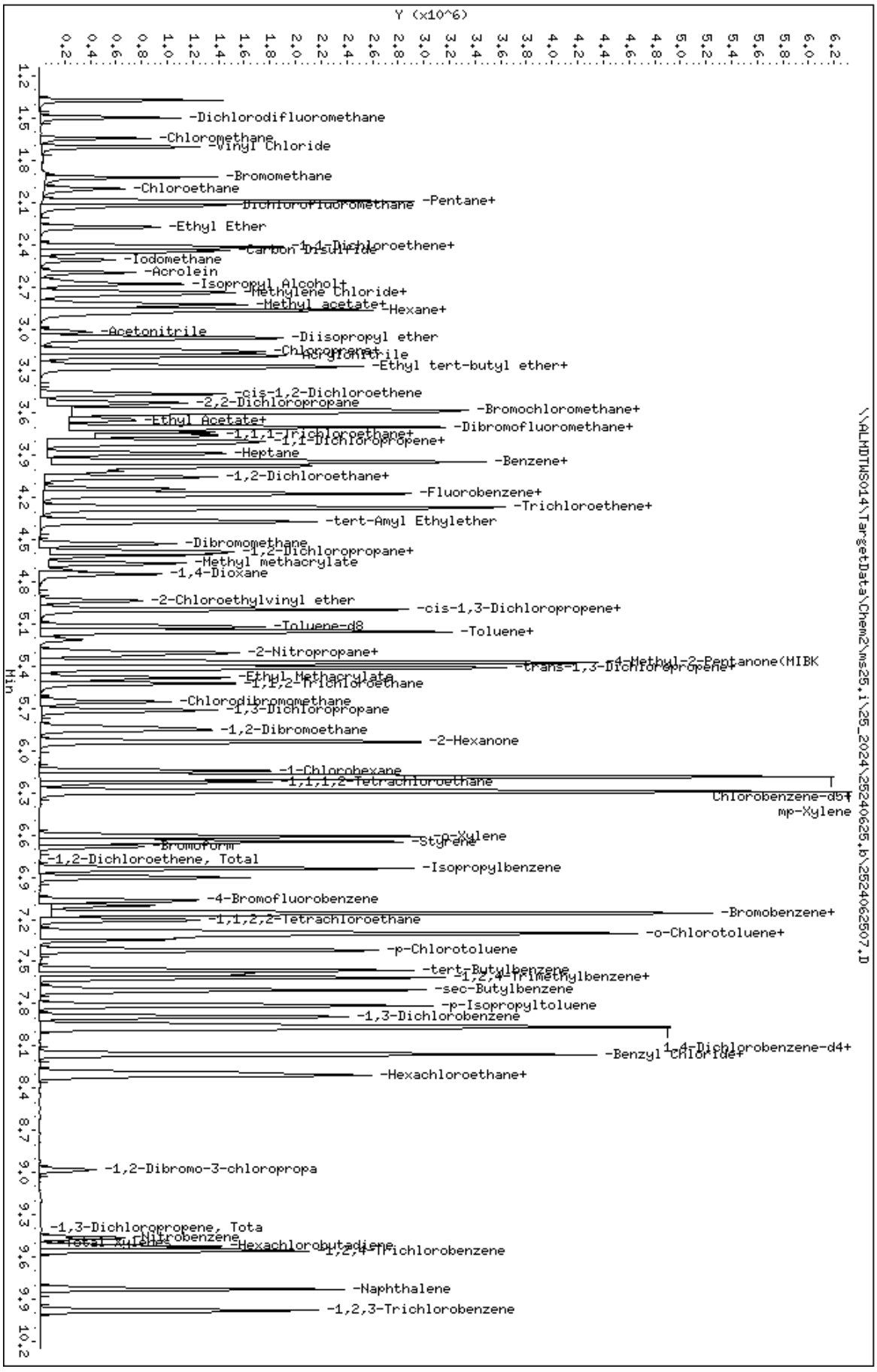
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1393184	50.0000	50.4055	
	23 tert.- Butyl Alcohol	59	2.894	2.889	(0.694)	269513	250.000	271.210(A)	
	24 Acetonitrile	41	3.019	3.020	(0.724)	302780	250.000	272.006(AM)	I
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1308855	50.0000	54.7418	
	26 Chloroprene	53	3.156	3.156	(0.757)	670182	50.0000	55.2871	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	802466	50.0000	54.6742	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	1064988	250.000	278.611(AM)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1408293	50.0000	55.4575	
	30 n-Propanol	41	3.265	3.260	(0.783)	237482	500.000	504.166(A)	
	31 Vinyl Acetate	86	3.276	3.276	(0.785)	126310	50.0000	50.4145	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	591362	50.0000	54.1368	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	621193	50.0000	53.1030	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	268442	50.0000	56.9861	
	35 Cyclohexane	84	3.587	3.587	(0.860)	675442	50.0000	51.5333	
	36 Chloroform	83	3.598	3.598	(0.863)	859409	50.0000	54.2399	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	472909	50.0000	49.7769	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	476529	50.0000	54.1748	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	556541	50.0000	47.7742(M)	MP
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	270997	30.0000	30.0385	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	715886	250.000	266.220(A)	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	676102	50.0000	54.8220	
	43 2-Butanone	72	3.761	3.767	(0.902)	342451	250.000	263.431(AM)	MP
	44 1,1-Dichloropropene	75	3.800	3.800	(0.911)	631378	50.0000	54.1229	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	375025	50.0000	49.9907(M)	I
	46 Heptane	71	3.887	3.887	(0.932)	333893	50.0000	49.2649	
	47 Benzene	78	3.941	3.942	(0.945)	1864401	50.0000	51.9969	
	48 Propionitrile	54	3.941	3.942	(0.945)	402346	250.000	277.963(A)	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	238979	50.0000	55.0754	
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	1354755	50.0000	55.2670	
	54 Isobutyl alcohol	42	3.991	3.980	(0.957)	96464	500.000	437.479(AM)	MP
$	51 1,2-Dichloroethane-d4	65	4.012	4.013	(0.962)	275529	30.0000	28.9719(M)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	601015	50.0000	53.3210	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	203990	250.000	267.550(A)	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1143383	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	1061231	50.0000	47.8757	
	57 Trichloroethene	95	4.269	4.269	(1.024)	484631	50.0000	53.4046	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	739867	50.0000	51.7277	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	1054026	50.0000	49.3327	
	60 Dibromomethane	93	4.525	4.526	(1.085)	316536	50.0000	55.1767	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	467339	50.0000	54.1545	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	593498	50.0000	49.4511	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	375084	50.0000	54.9186	
	64 1,4-Dioxane	88	4.716	4.722	(1.131)	176416	1250.00	1320.58(A)	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	300617	50.0000	47.6165	
	66 cis-1,3-Dichloropropene	75	4.995	4.995	(0.809)	767185	50.0000	51.4196	
	67 Octane	85	5.000	5.000	(0.810)	282195	50.0000	52.0345	
$	68 Toluene-d8	98	5.115	5.120	(0.829)	1034239	30.0000	29.6246	
	69 Toluene	92	5.153	5.153	(0.835)	1143510	50.0000	51.6780	
	70 Chloroacetonitrile	75	5.207	5.208	(0.844)	159860	250.000	289.804(A)	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	593939	250.000	244.811(A)	
	72 1,1-Dichloro-2-Propanone	63	5.316	5.317	(0.861)	56995	250.000	243.015(A)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2330999	250.000	266.689(A)	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	694418	50.0000	50.2673	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	434379	50.0000	53.9104	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	687236	50.0000	51.5180	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	377593	50.0000	55.5399(M)	I
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	487189	50.0000	50.5479	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	754617	50.0000	56.1784	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	464742	50.0000	51.3501	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1586898	250.000	264.643(A)	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	643857	50.0000	55.3101	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	440953	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	1244553	50.0000	55.1920	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	661770	50.0000	50.1941	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	438151	50.0000	51.4526	
	87 mp-Xylene	106	6.288	6.288	(1.019)	1603689	100.000	102.462	
	88 o-Xylene	106	6.610	6.610	(1.071)	773279	50.0000	51.5309	
	89 Styrene	104	6.648	6.648	(0.836)	1227060	50.0000	48.6117(M)	I
	90 Bromoform	173	6.681	6.686	(0.840)	330003	50.0000	46.3030	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1751429	50.0000	49.7675	
M	100 1,2-Dichloroethene, Total	61				1177213	100.000	108.517	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	333940	30.0000	28.2793	
	93 Bromobenzene	156	7.155	7.156	(0.900)	531635	50.0000	52.6787	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	543408	50.0000	52.6568	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	552178	50.0000	55.0487	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1435543	50.0000	52.8720	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	1501540	50.0000	52.2803	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	171874	50.0000	53.1264	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	149889	50.0000	48.7036(M)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	1318356	50.0000	53.6064	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	375749	50.0000	54.7011	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	332675	50.0000	48.2392(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1510193	50.0000	49.6560	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	1923591	50.0000	54.1902	
	106 p-Isopropyltoluene	134	7.810	7.816	(0.982)	438683	50.0000	53.9663	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	913731	50.0000	53.7418	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	426848	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	937340	50.0000	52.8905	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	194577	50.0000	45.8459	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	391628	50.0000	51.5539	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	284589	50.0000	46.7465	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	869762	50.0000	53.7034	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	86909	50.0000	45.3439	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	289112	500.000	463.590(A)	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	257277	50.0000	48.0265	
M	120 1,3-Dichloropropene, Total	75				1461603	100.000	101.687	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	580629	50.0000	54.1363	
M	121 Total Xylenes	106				2376968	150.000	153.993	
	118 Naphthalene	128	9.829	9.829	(1.236)	1514181	50.0000	48.0426	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	573042	50.0000	47.5666	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



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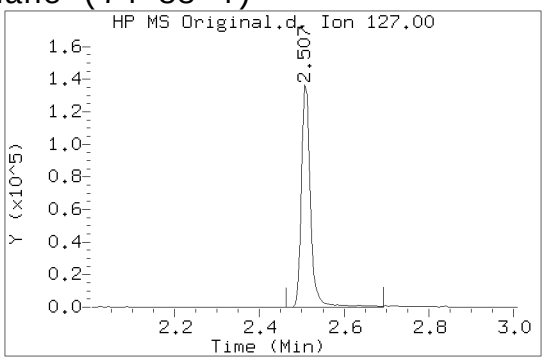
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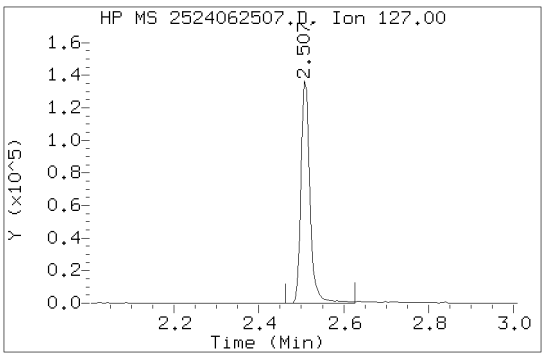
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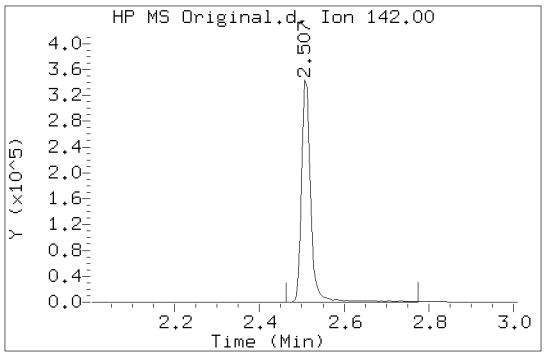
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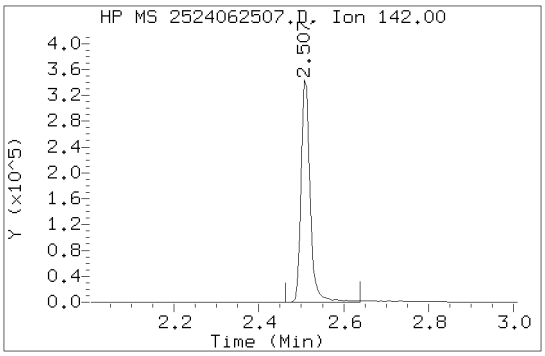
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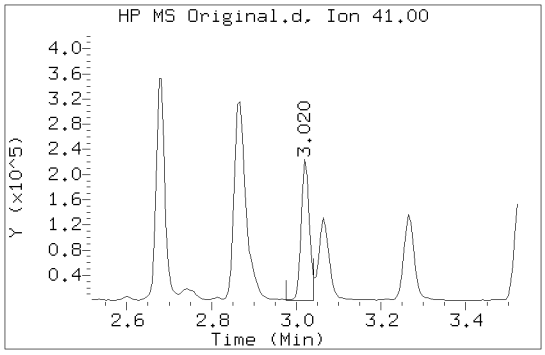
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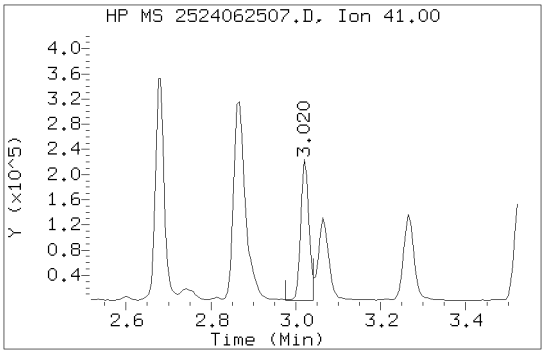
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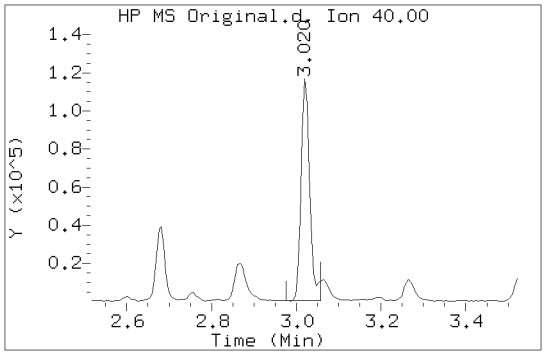
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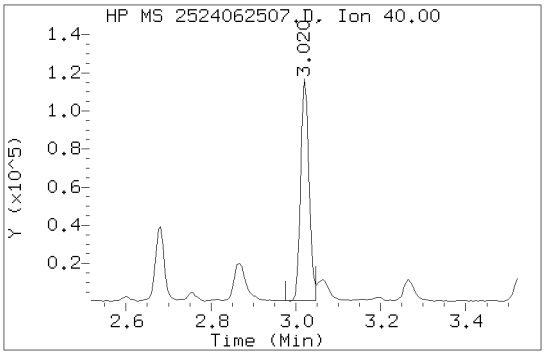
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AFTER
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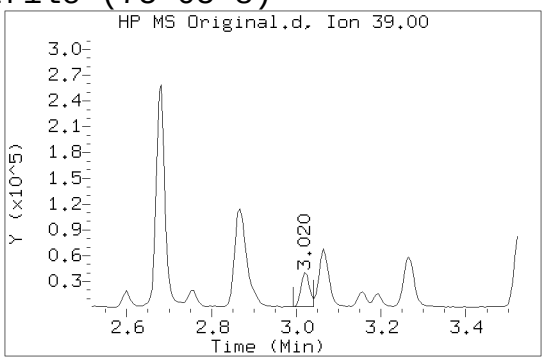


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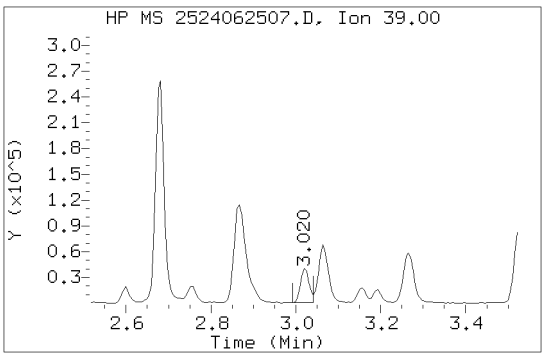
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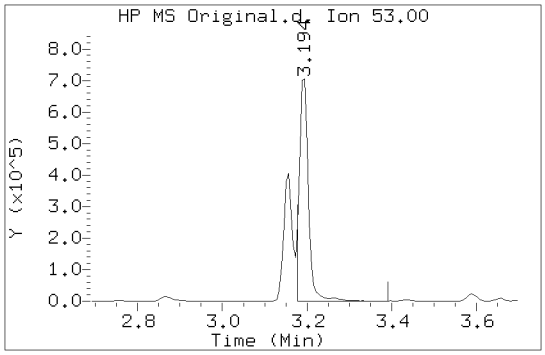
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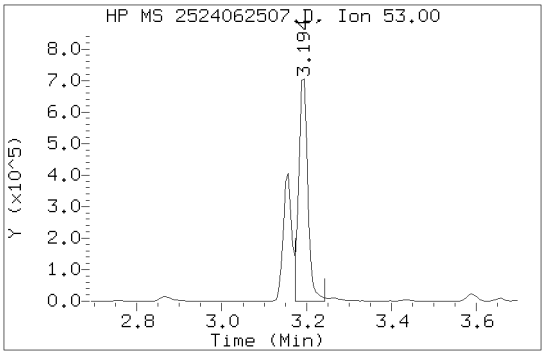
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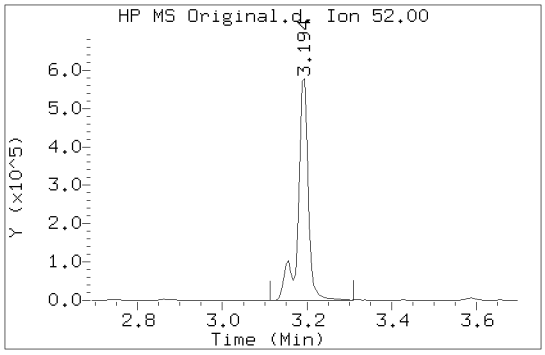
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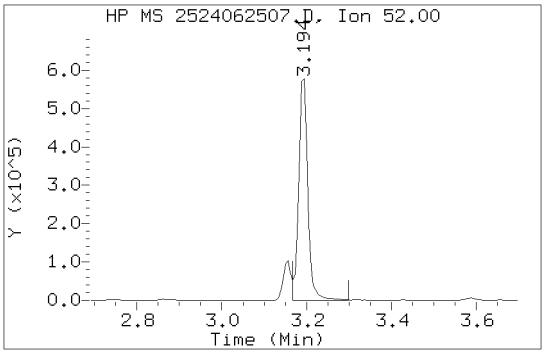
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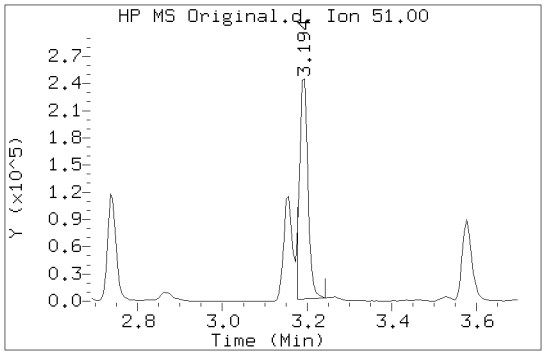
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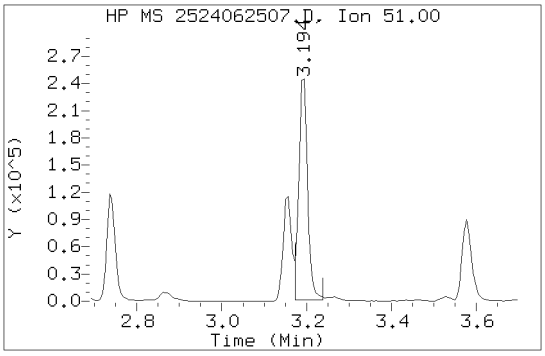
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577577
25-Jun-2024
19:31



BEFORE
MASS
51
AREA
335909
HEIGHT
242661
25-Jun-2024
18:13



AFTER
MASS
51
AREA
355694
HEIGHT
243801
25-Jun-2024
19:31

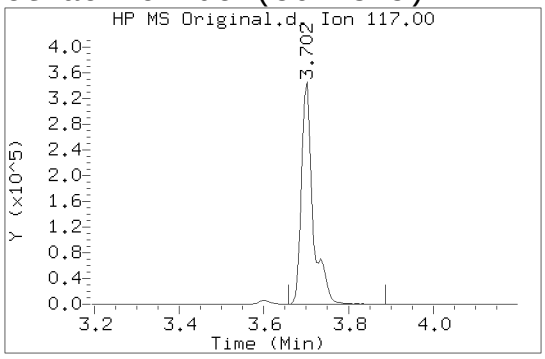


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InstruID : ms25.i
LabSampID : 1237

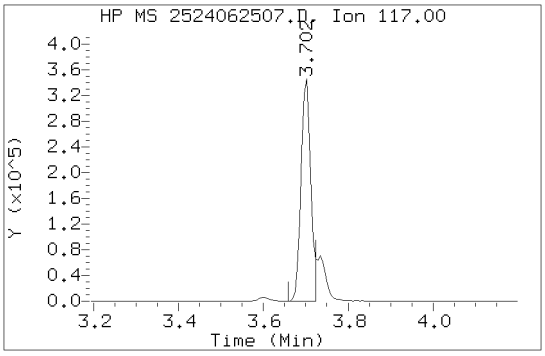
Carbon Tetrachloride (56-23-5)

Reason Code: MP

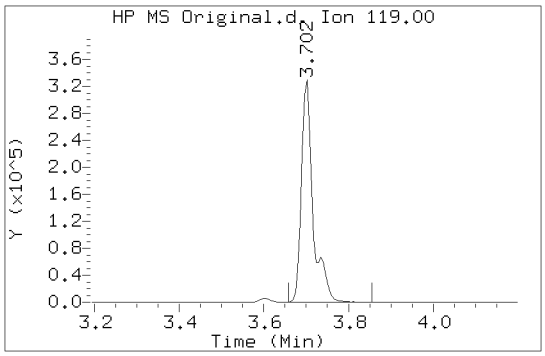
BEFORE
MASS
117
AREA
658697
HEIGHT
345856
25-Jun-2024
18:13



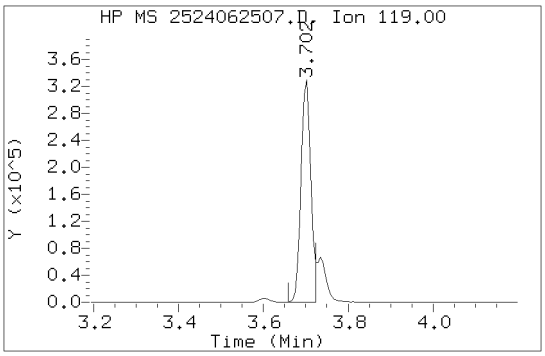
AFTER
MASS
117
AREA
556541
HEIGHT
345856
25-Jun-2024
19:31



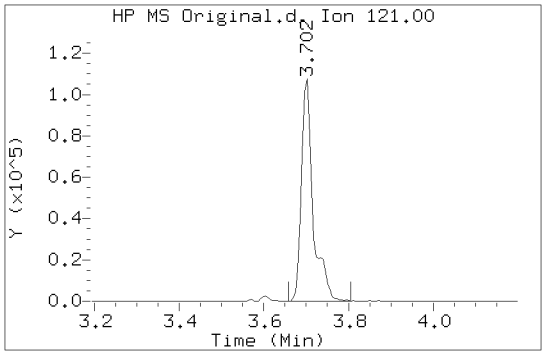
BEFORE
MASS
119
AREA
632625
HEIGHT
329472
25-Jun-2024
18:13



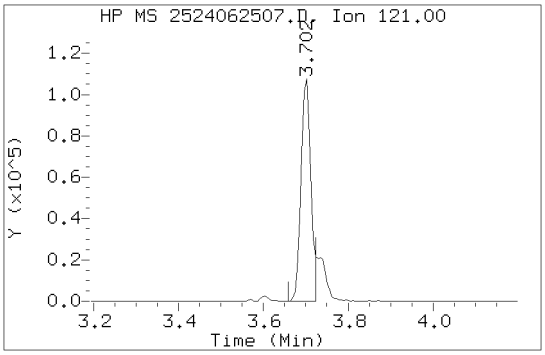
AFTER
MASS
119
AREA
535486
HEIGHT
329472
25-Jun-2024
19:31



BEFORE
MASS
121
AREA
207030
HEIGHT
107576
25-Jun-2024
18:13



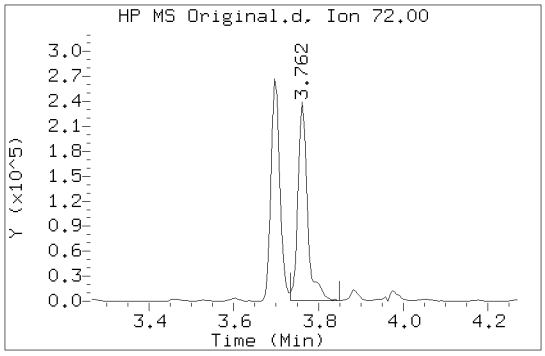
AFTER
MASS
121
AREA
175053
HEIGHT
107576
25-Jun-2024
19:31



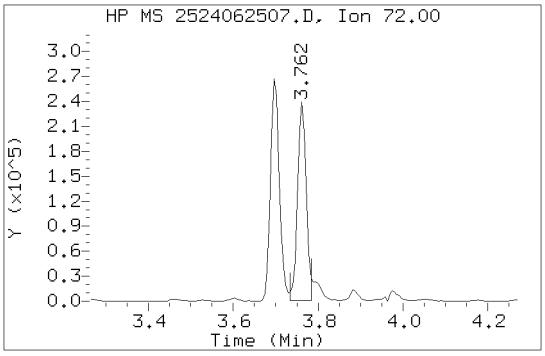
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
72
AREA
377066
HEIGHT
239051
25-Jun-2024
18:13



AFTER
MASS
72
AREA
342451
HEIGHT
239051
25-Jun-2024
19:31

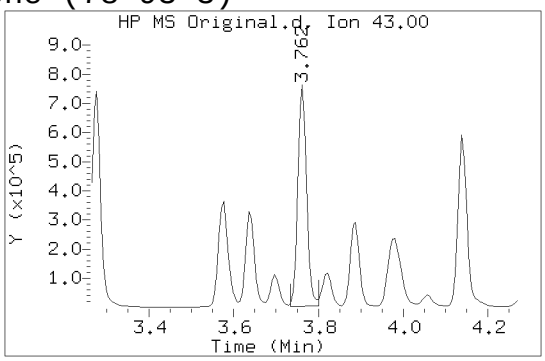


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LabSampID : 1237

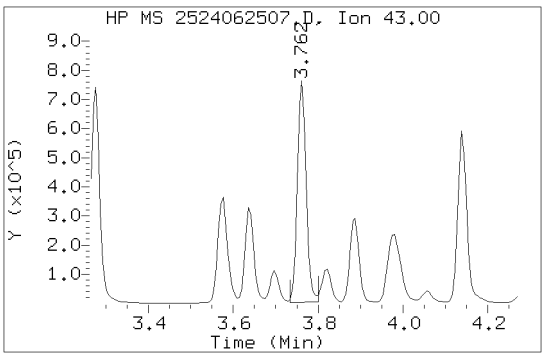
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
43
AREA
1100991
HEIGHT
759909
25-Jun-2024
18:13



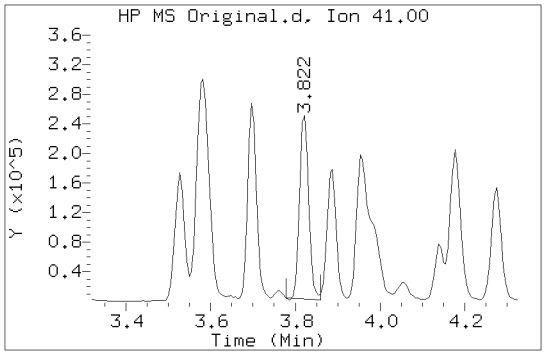
AFTER
MASS
43
AREA
1100991
HEIGHT
759909
25-Jun-2024
19:31



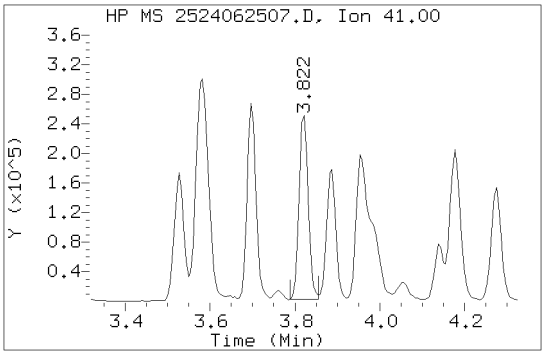
1-Chlorobutane (109-69-3)

Reason Code: I

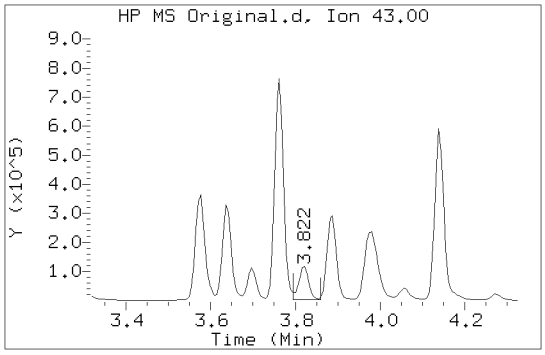
BEFORE
MASS
41
AREA
374876
HEIGHT
248504
25-Jun-2024
18:13



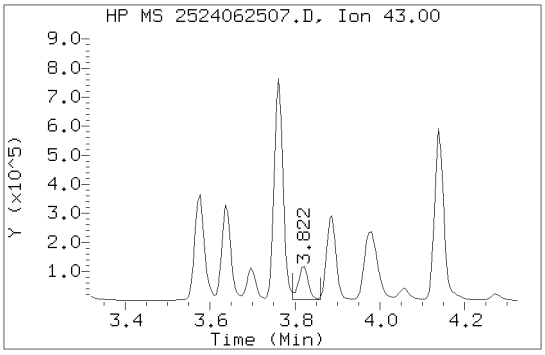
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MASS
41
AREA
375025
HEIGHT
248948
25-Jun-2024
19:31



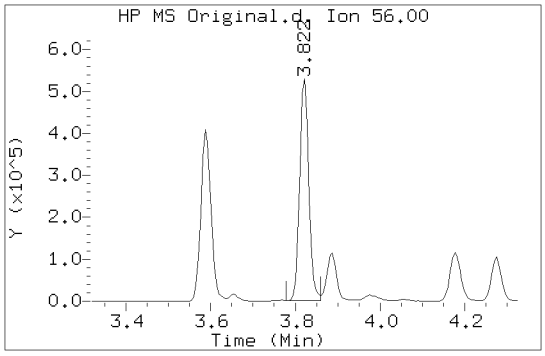
BEFORE
MASS
43
AREA
195215
HEIGHT
115255
25-Jun-2024
18:13



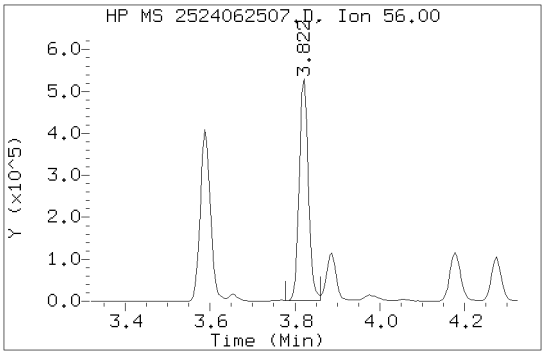
AFTER
MASS
43
AREA
195215
HEIGHT
115255
25-Jun-2024
19:31



BEFORE
MASS
56
AREA
796493
HEIGHT
529078
25-Jun-2024
18:13



AFTER
MASS
56
AREA
796493
HEIGHT
529078
25-Jun-2024
19:31

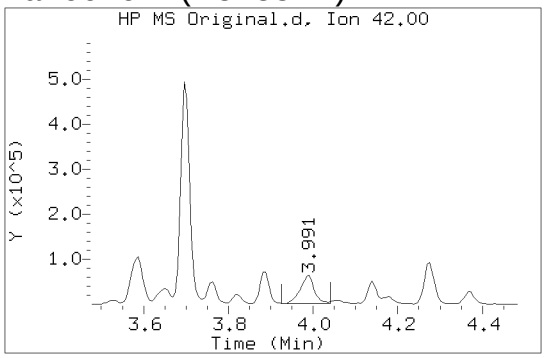


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LabSampID : 1237

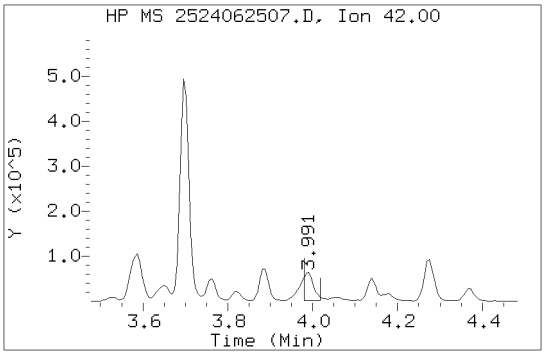
Isobutyl alcohol (78-83-1)

Reason Code: MP

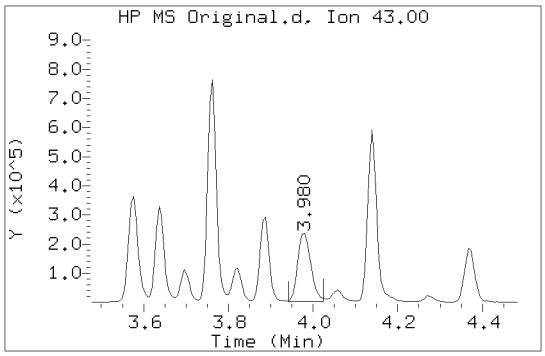
BEFORE
MASS
42
AREA
146510
HEIGHT
62573
25-Jun-2024
18:13



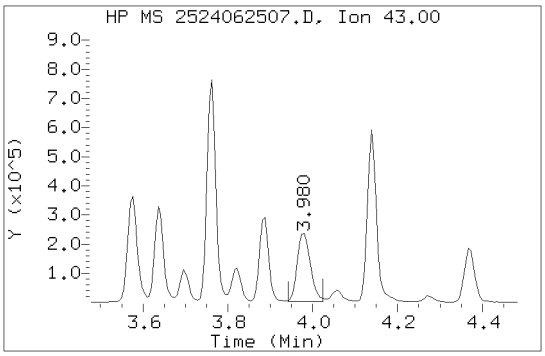
AFTER
MASS
42
AREA
96464
HEIGHT
61948
25-Jun-2024
19:31



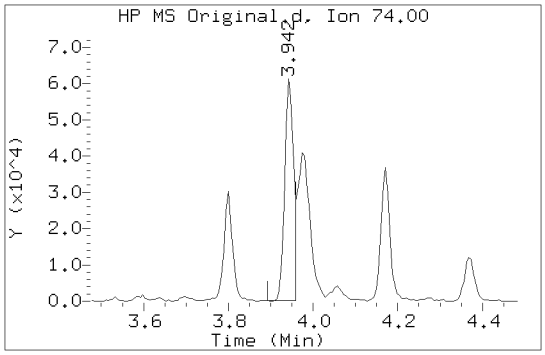
BEFORE
MASS
43
AREA
513535
HEIGHT
235532
25-Jun-2024
18:13



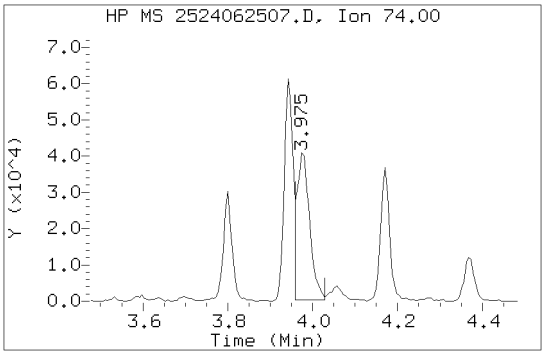
AFTER
MASS
43
AREA
513535
HEIGHT
235532
25-Jun-2024
19:31



BEFORE
MASS
74
AREA
89775
HEIGHT
61104
25-Jun-2024
18:13



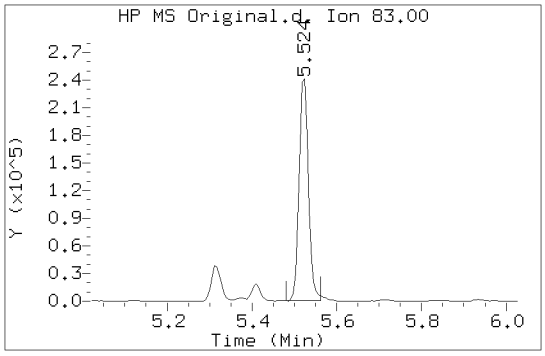
AFTER
MASS
74
AREA
88150
HEIGHT
40518
25-Jun-2024
19:31



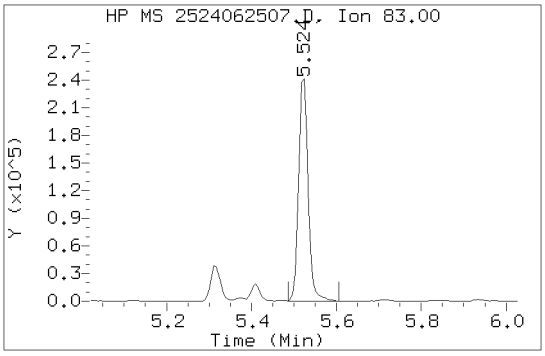
1,1,2-Trichloroethane (79-00-5)

Reason Code: I

BEFORE
MASS
83
AREA
370462
HEIGHT
240602
25-Jun-2024
18:13



AFTER
MASS
83
AREA
377593
HEIGHT
241170
25-Jun-2024
19:31

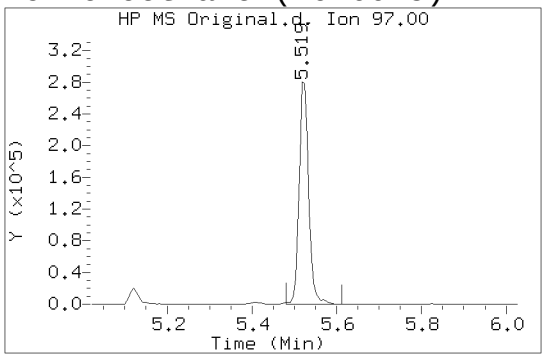


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LabSampID : 1237

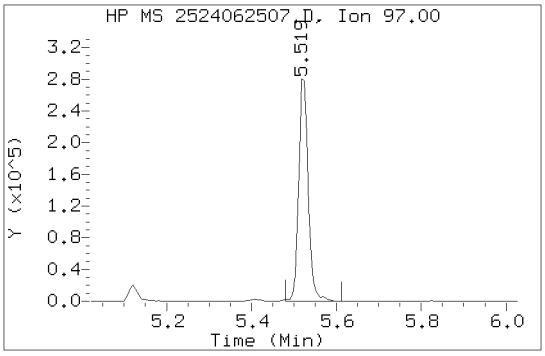
1,1,2-Trichloroethane (79-00-5)

Reason Code: I

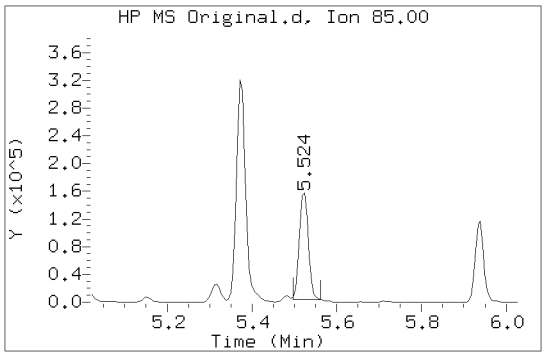
BEFORE
MASS
97
AREA
440302
HEIGHT
280320
25-Jun-2024
18:13



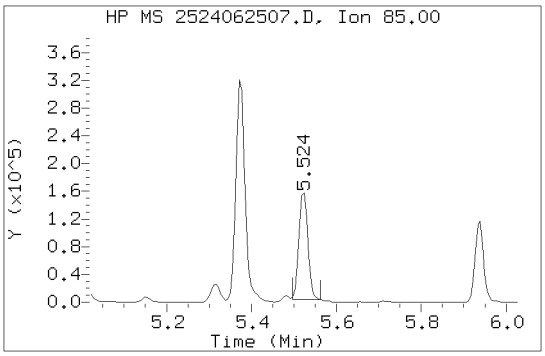
AFTER
MASS
97
AREA
440302
HEIGHT
280320
25-Jun-2024
19:31



BEFORE
MASS
85
AREA
231090
HEIGHT
154322
25-Jun-2024
18:13



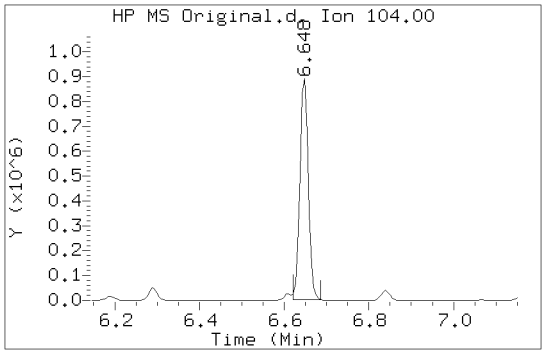
AFTER
MASS
85
AREA
231090
HEIGHT
154322
25-Jun-2024
19:31



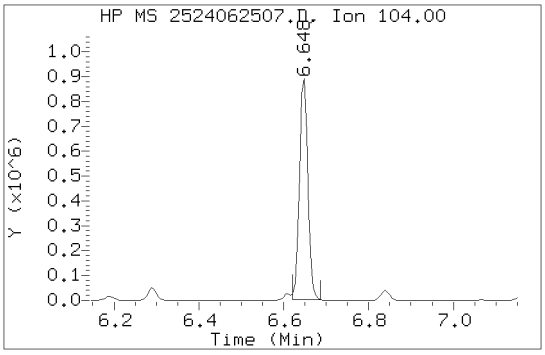
Styrene (100-42-5)

Reason Code: I

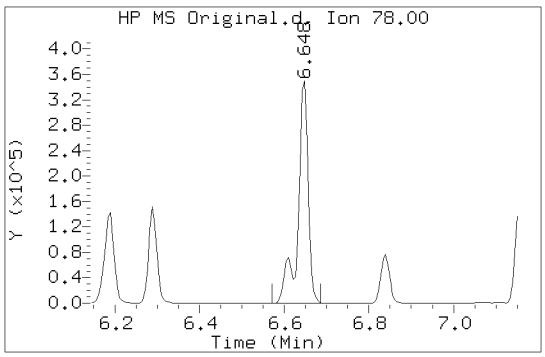
BEFORE
MASS
104
AREA
1227060
HEIGHT
888636
25-Jun-2024
18:13



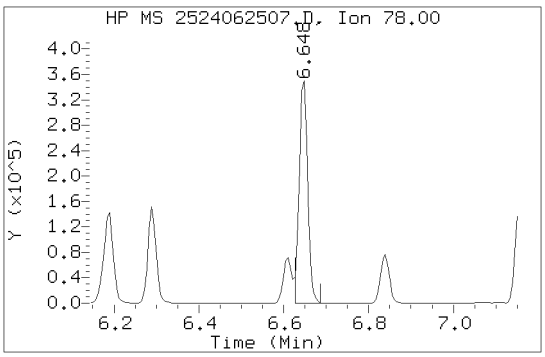
AFTER
MASS
104
AREA
1227060
HEIGHT
888636
25-Jun-2024
19:31



BEFORE
MASS
78
AREA
590646
HEIGHT
349696
25-Jun-2024
18:13



AFTER
MASS
78
AREA
490491
HEIGHT
349493
25-Jun-2024
19:31

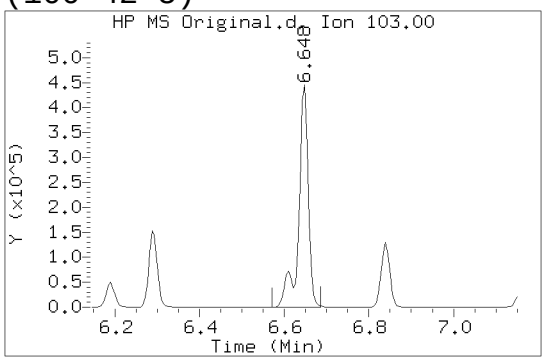


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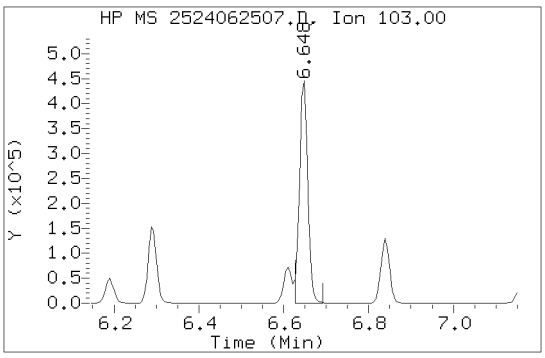
Styrene (100-42-5)

Reason Code: I

BEFORE
MASS
103
AREA
706899
HEIGHT
445440
25-Jun-2024
18:13



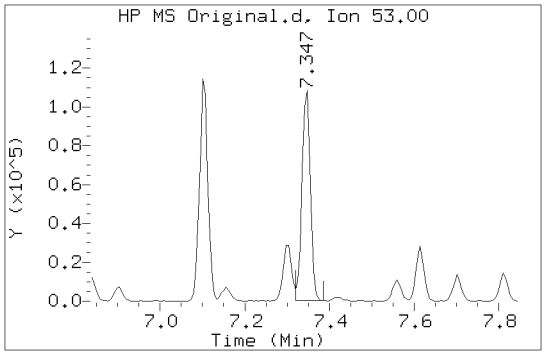
AFTER
MASS
103
AREA
608627
HEIGHT
445294
25-Jun-2024
19:31



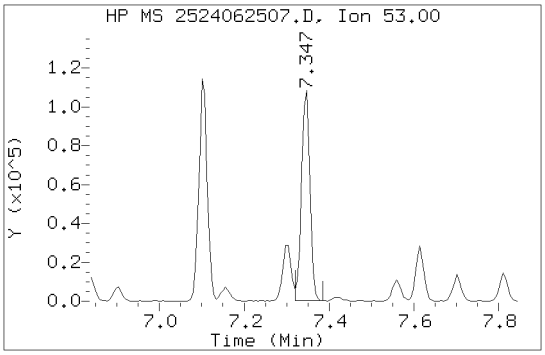
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

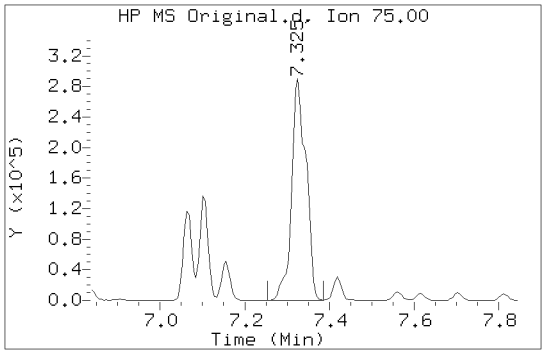
BEFORE
MASS
53
AREA
149889
HEIGHT
108236
25-Jun-2024
18:13



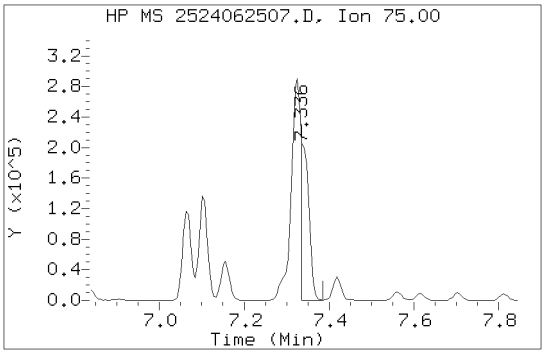
AFTER
MASS
53
AREA
149889
HEIGHT
108236
25-Jun-2024
19:31



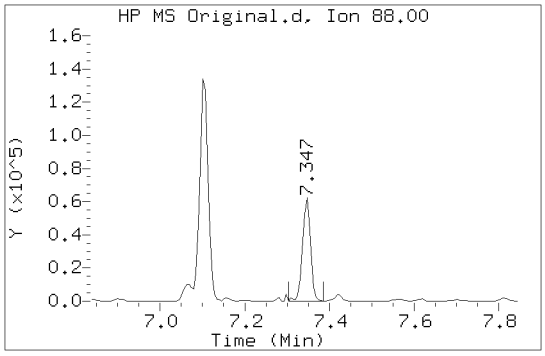
BEFORE
MASS
75
AREA
689042
HEIGHT
290112
25-Jun-2024
18:13



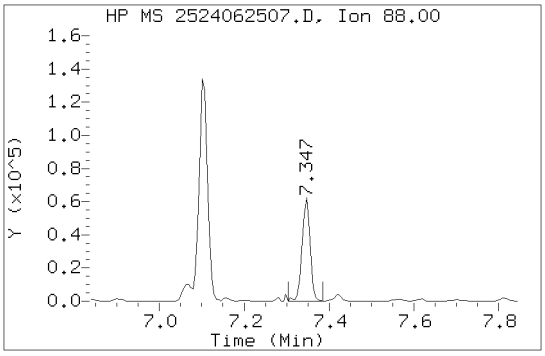
AFTER
MASS
75
AREA
264959
HEIGHT
205766
25-Jun-2024
19:31



BEFORE
MASS
88
AREA
82132
HEIGHT
62280
25-Jun-2024
18:13



AFTER
MASS
88
AREA
82132
HEIGHT
62280
25-Jun-2024
19:31

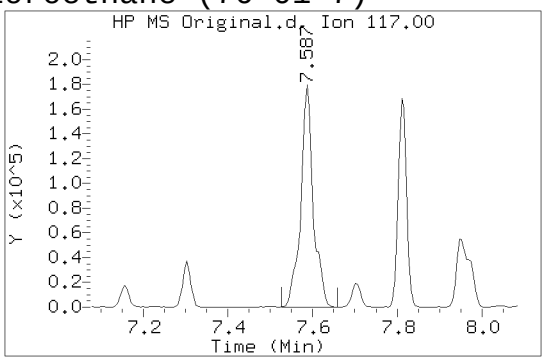


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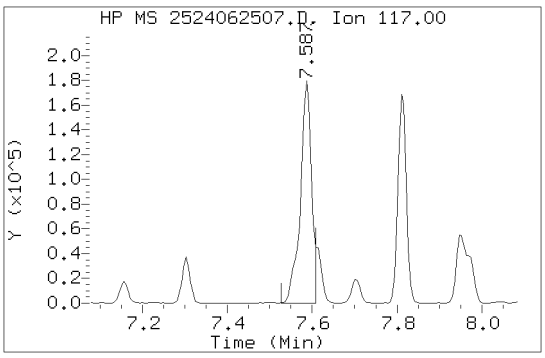
Pentachloroethane (76-01-7)

Reason Code: MP

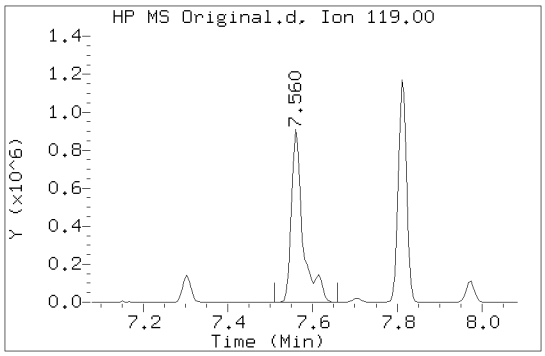
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MASS
117
AREA
368716
HEIGHT
179648
25-Jun-2024
18:13



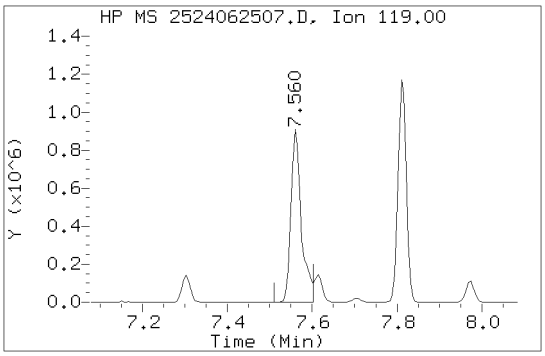
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25-Jun-2024
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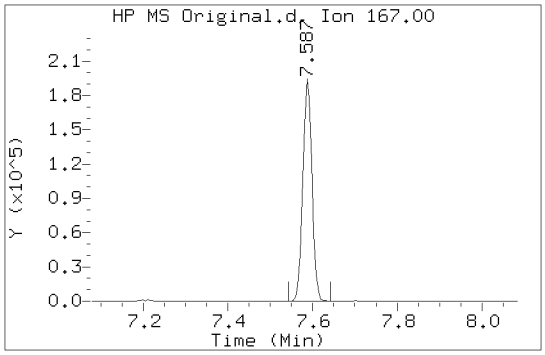
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AREA
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HEIGHT
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25-Jun-2024
18:13



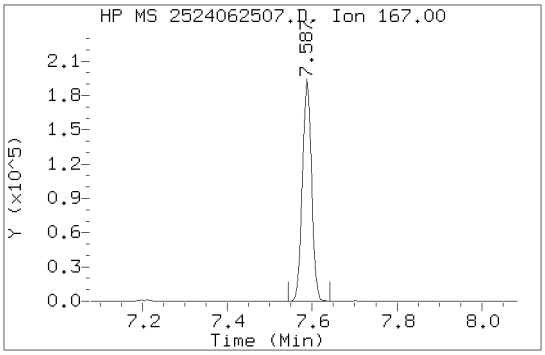
AFTER
MASS
119
AREA
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HEIGHT
911232
25-Jun-2024
19:31



BEFORE
MASS
167
AREA
291176
HEIGHT
194496
25-Jun-2024
18:13



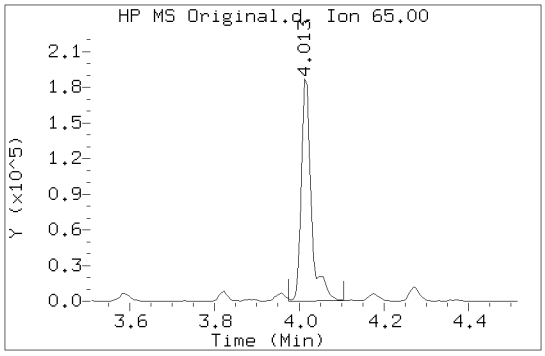
AFTER
MASS
167
AREA
291176
HEIGHT
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25-Jun-2024
19:31



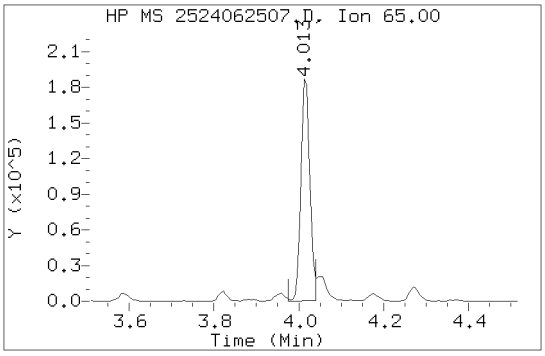
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
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HEIGHT
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25-Jun-2024
18:13



AFTER
MASS
65
AREA
275529
HEIGHT
186601
25-Jun-2024
19:31



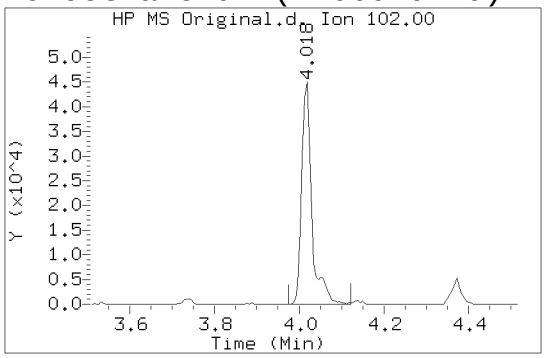
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Inj Date : 25-JUN-2024 12:24
InstruID : ms25.i
LabSampID : 1237

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

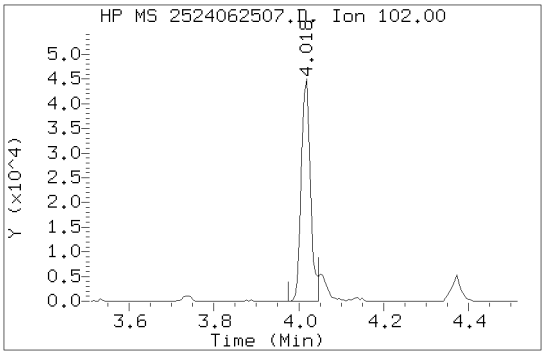
BEFORE

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HEIGHT
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25-Jun-2024
18:13



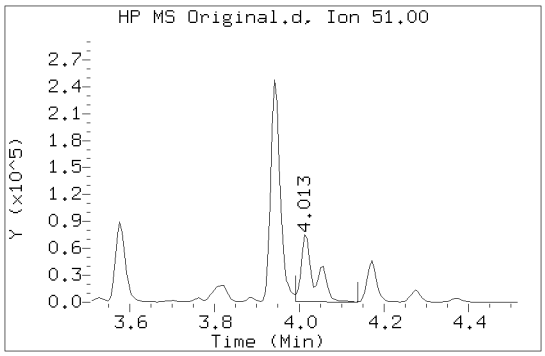
AFTER

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19:31



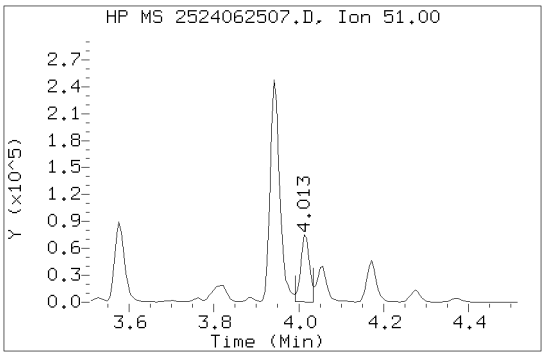
BEFORE

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HEIGHT
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25-Jun-2024
18:13



AFTER

MASS
51
AREA
110484
HEIGHT
75164
25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406250
Inj Date: 25-JUN-2024 12:24
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062508.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062508.D
Lab Smp Id: 1238
Inj Date : 25-JUN-2024 12:45
Operator : ILY Inst ID: ms25.i
Smp Info : 1238;;1;1;5;;;
Misc Info :
Comment :
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	1280711	100.000	108.035	
2	Chloromethane	50	1.644	1.645	(0.394)	1078871	100.000	104.339	
3	Vinyl Chloride	62	1.704	1.705	(0.409)	1417886	100.000	105.803	
4	Bromomethane	94	1.922	1.923	(0.461)	683038	100.000	106.980	
5	Chloroethane	64	2.004	2.005	(0.481)	939865	100.000	104.159	
6	Pentane	41	2.091	2.092	(0.502)	877950	100.000	106.282	
7	Trichlorofluoromethane	101	2.097	2.103	(0.503)	1936633	100.000	105.503	
8	Dichlorofluoromethane	67	2.124	2.125	(0.509)	1909414	100.000	112.418	
9	Ethyl Ether	74	2.277	2.278	(0.546)	577826	100.000	111.873	
10	1,1-Dichloroethene	61	2.413	2.409	(0.579)	1162374	100.000	112.779	
11	Freon 113	101	2.424	2.425	(0.581)	828017	100.000	114.221	
12	Carbon Disulfide	76	2.446	2.447	(0.587)	2554462	100.000	114.893	
13	Iodomethane	127	2.512	2.507	(0.602)	423659	100.000	105.457(M)	MP
14	Acrolein	56	2.599	2.600	(0.623)	917167	500.000	551.695(A)	
15	Isopropyl Alcohol	45	2.653	2.654	(0.636)	289391	500.000	536.134(A)	
16	3-Chloro-1-propene	41	2.681	2.676	(0.643)	973704	100.000	108.215	
17	Methylene Chloride	84	2.741	2.741	(0.657)	917372	100.000	108.966	
18	Acetone	58	2.757	2.752	(0.661)	490337	500.000	525.690(A)	
19	Methyl acetate	74	2.812	2.812	(0.674)	195422	100.000	102.434	
20	trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	1142895	100.000	113.218	
21	Hexane	57	2.866	2.867	(0.687)	1762469	100.000	105.284	

Data File: 2524062508.D Page 2
Report Date: 25-Jun-2024 19:32

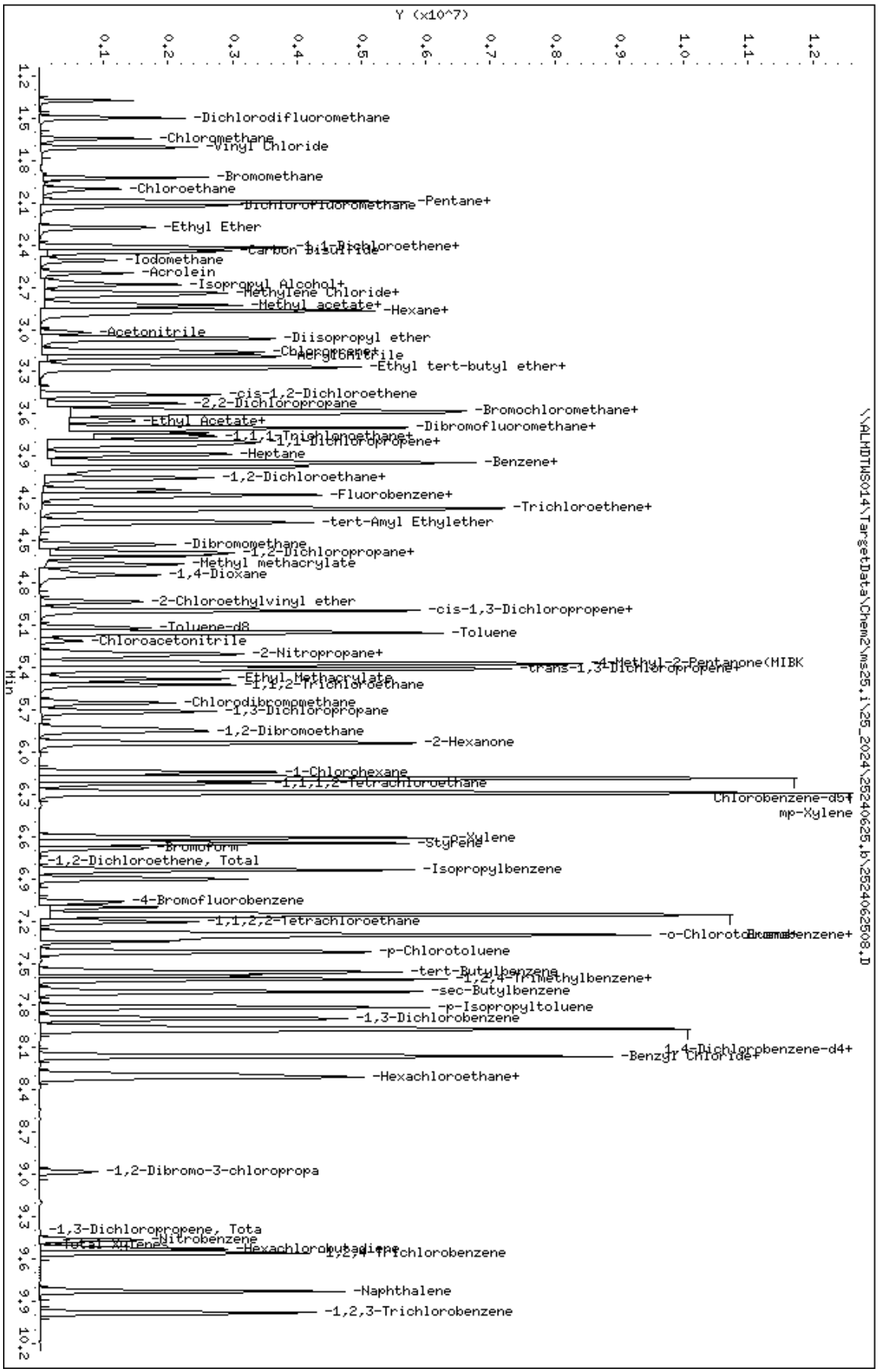
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	2707334	100.000	104.288	
	23 tert.- Butyl Alcohol	59	2.899	2.889	(0.695)	531352	500.000	570.639(A)	
	24 Acetonitrile	41	3.019	3.020	(0.724)	586835	500.000	562.628(A)	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	2528853	100.000	112.877	
	26 Chloroprene	53	3.155	3.156	(0.757)	1314924	100.000	115.767	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	1557064	100.000	113.218	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	2086695	500.000	582.594(AM)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	2763916	100.000	116.157	
	30 n-Propanol	41	3.265	3.260	(0.783)	457445	1000.00	1036.42(A)	
	31 Vinyl Acetate	86	3.275	3.276	(0.785)	244750	100.000	103.846	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	1151450	100.000	112.496	
	33 2,2-Dichloropropane	77	3.526	3.522	(0.846)	1243832	100.000	113.477	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	505828	100.000	114.597	
	35 Cyclohexane	84	3.586	3.587	(0.860)	1388288	100.000	113.040	
	36 Chloroform	83	3.597	3.598	(0.863)	1699897	100.000	114.497	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	938737	100.000	105.546	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	947622	100.000	114.973	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	1141242	100.000	104.056(M)	MP
$	41 Dibromofluoromethane	113	3.706	3.707	(0.889)	259811	30.0000	30.7343	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	1387430	500.000	550.631(A)	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	1344421	100.000	116.341	
	43 2-Butanone	72	3.761	3.767	(0.902)	680917	500.000	559.005(AM)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	1236081	100.000	113.082	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	750558	100.000	106.774(M)	I
	46 Heptane	71	3.887	3.887	(0.932)	692684	100.000	109.073	
	47 Benzene	78	3.941	3.942	(0.945)	3618340	100.000	107.696	
	48 Propionitrile	54	3.941	3.942	(0.945)	774353	500.000	570.925(A)	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	465553	100.000	114.504	
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	2638153	100.000	114.857	
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	211992	1000.00	1020.63(AQM)	MP
$	51 1,2-Dichloroethane-d4	65	4.012	4.013	(0.962)	268195	30.0000	30.0964(M)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	1135084	100.000	107.472	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	401168	500.000	561.534(A)	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1071368	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	2168082	100.000	106.165	
	57 Trichloroethene	95	4.268	4.269	(1.024)	928864	100.000	109.238	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	1513087	100.000	108.597	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	2075694	100.000	103.393	
	60 Dibromomethane	93	4.525	4.526	(1.085)	615591	100.000	114.519	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	916829	100.000	113.382	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	1172803	100.000	103.923	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	760558	100.000	118.844	
	64 1,4-Dioxane	88	4.721	4.722	(1.132)	341622	2500.00	2729.14(A)	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	612756	100.000	103.147	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	1499905	100.000	102.916	
	67 Octane	85	5.000	5.000	(0.810)	586960	100.000	111.106	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1004893	30.0000	29.5486	
	69 Toluene	92	5.152	5.153	(0.835)	2215702	100.000	102.793	
	70 Chloroacetonitrile	75	5.212	5.208	(0.844)	313617	500.000	583.645(A)	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	1224339	500.000	515.968(A)	
	72 1,1-Dichloro-2-Propanone	63	5.311	5.317	(0.860)	120735	500.000	526.185(AQ)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	4540988	500.000	532.322(A)	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	1390540	100.000	103.018	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	861759	100.000	109.793	

Data File: 2524062508.D Page 3
Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	1354483	100.000	103.911	
	77 1,1,2-Trichloroethane	83	5.523	5.524	(0.895)	726717	100.000	109.731	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	980105	100.000	103.998	
	79 1,3-Dichloropropane	76	5.714	5.710	(0.926)	1471130	100.000	112.429	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	921715	100.000	104.304	
	81 2-Hexanone	43	5.933	5.933	(0.961)	3096661	500.000	529.025(A)	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	1297909	100.000	114.457	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	429544	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	2443576	100.000	111.243	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	1327438	100.000	103.500	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	867838	100.000	104.290	
	87 mp-Xylene	106	6.287	6.288	(1.019)	3168696	200.000	208.645(A)	
	88 o-Xylene	106	6.609	6.610	(1.071)	1516109	100.000	103.716	
	89 Styrene	104	6.648	6.648	(0.836)	2454318	100.000	102.297(M)	MP
	90 Bromoform	173	6.680	6.686	(0.840)	690099	100.000	101.763	
	91 Isopropylbenzene	105	6.838	6.839	(0.860)	3465736	100.000	103.792	
M	100 1,2-Dichloroethene, Total	61				2294345	200.000	225.714	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	346523	30.0000	30.9724	
	93 Bromobenzene	156	7.155	7.156	(0.900)	1061383	100.000	111.003	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	1084898	100.000	110.958	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	1083239	100.000	113.982	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	2871759	100.000	111.635	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	3015928	100.000	110.832	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	340852	100.000	111.201	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	297095	100.000	101.573(M)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	2569291	100.000	110.266	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	733804	100.000	112.751	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	667170	100.000	101.782(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	2964649	100.000	103.049	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	3807940	100.000	113.225	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	882856	100.000	114.632	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	1788974	100.000	111.056	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	404418	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	1841285	100.000	109.659	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	405519	100.000	100.284(Q)	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	788569	100.000	109.565	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	590317	100.000	101.880	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	1716708	100.000	111.877	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	187226	100.000	102.574	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	699975	1000.00	1037.49(A)	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	520622	100.000	102.290	
M	120 1,3-Dichloropropene, Total	75				2890445	200.000	205.934	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	1183404	100.000	116.457	
M	121 Total Xylenes	106				4684805	300.000	312.362	
	118 Naphthalene	128	9.829	9.829	(1.236)	3095315	100.000	103.286	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	1155326	100.000	100.890	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

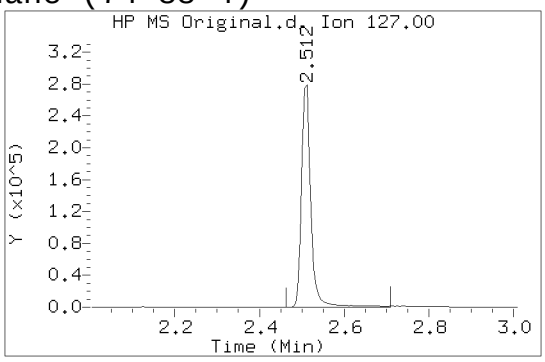

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1.2
Min
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1.5
1.8
2.1
2.4
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3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4
5.7
6.0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9.0
9.3
9.6
9.9
10.2
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Dibromofluoromethane+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Benzene+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene
-Chloroacetonitrile
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Total Xylenes
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Client ID:
Sample Info: 1238;;1;1;5;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: ILY
Column diameter: 0.25
Page 1

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InstruID : ms25.i
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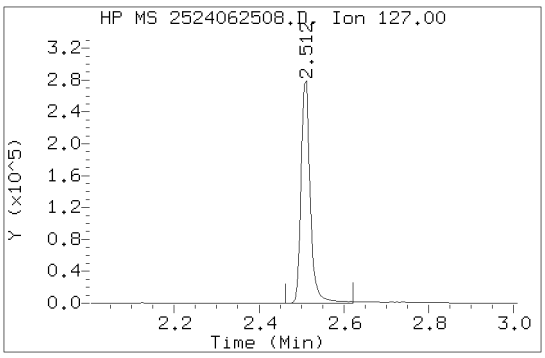
Iodomethane (74-88-4)

Reason Code: MP

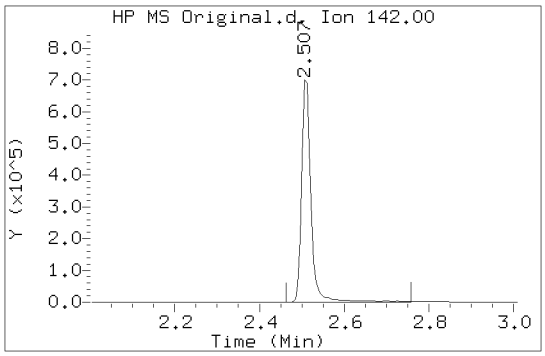
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HEIGHT
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25-Jun-2024
18:20



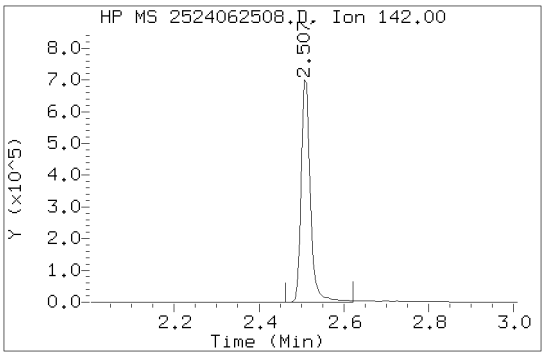
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127
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423659
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278848
25-Jun-2024
19:31



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142
AREA
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HEIGHT
700288
25-Jun-2024
18:20



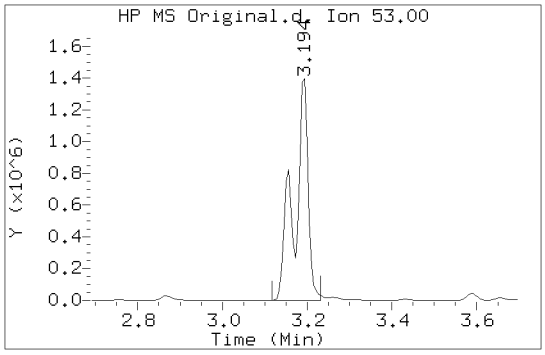
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25-Jun-2024
19:31



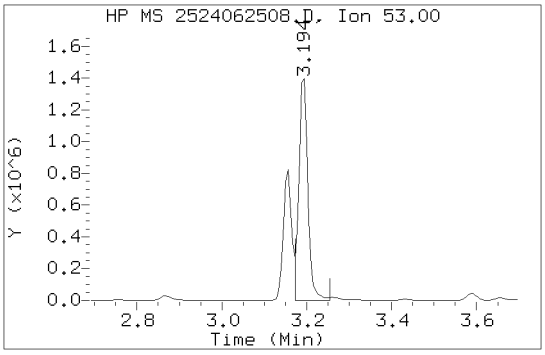
Acrylonitrile (107-13-1)

Reason Code: MP

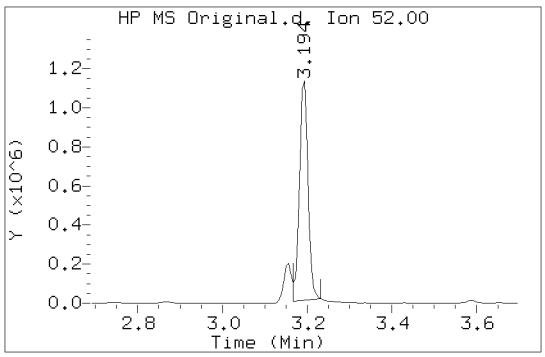
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25-Jun-2024
18:20



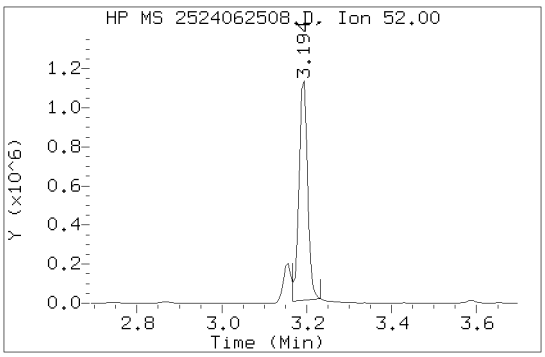
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MASS
53
AREA
2086695
HEIGHT
1396088
25-Jun-2024
19:31



BEFORE
MASS
52
AREA
1590847
HEIGHT
1122482
25-Jun-2024
18:20



AFTER
MASS
52
AREA
1590847
HEIGHT
1122482
25-Jun-2024
19:31

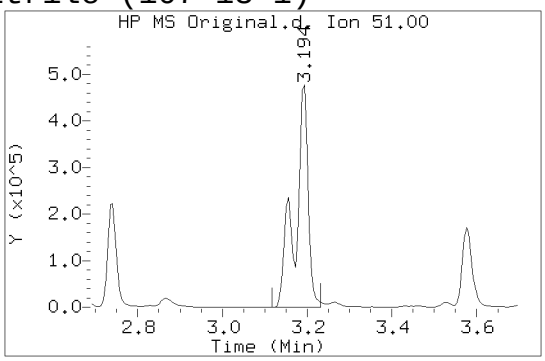


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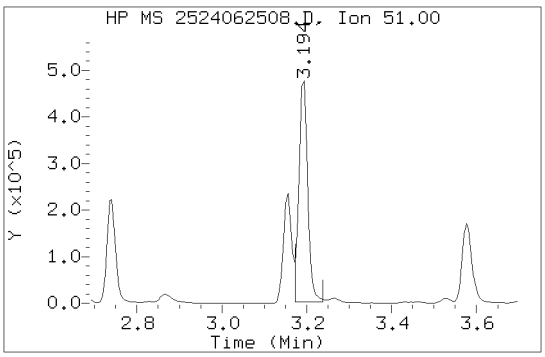
Acrylonitrile (107-13-1)

Reason Code: MP

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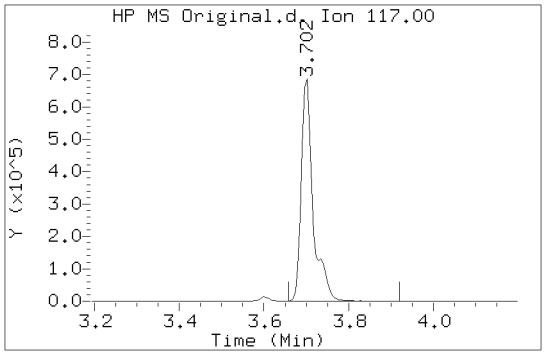
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HEIGHT
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25-Jun-2024
19:31



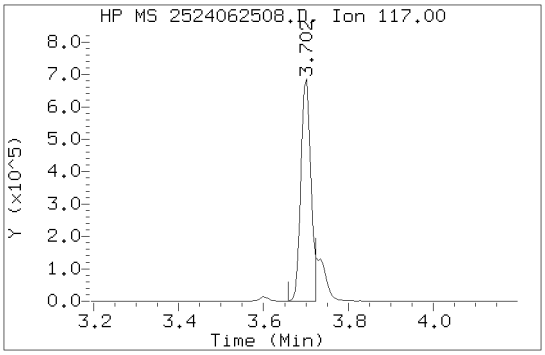
Carbon Tetrachloride (56-23-5)

Reason Code: MP

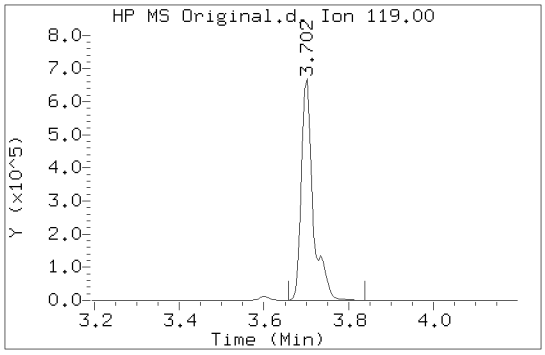
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1340898
HEIGHT
685952
25-Jun-2024
18:20



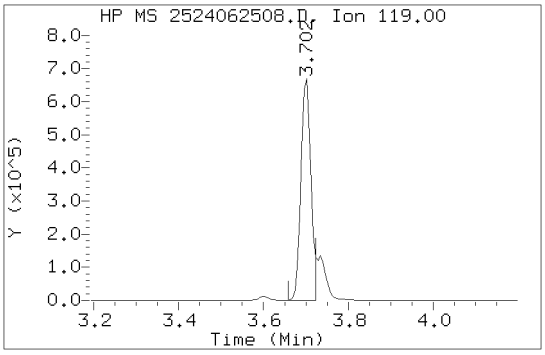
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25-Jun-2024
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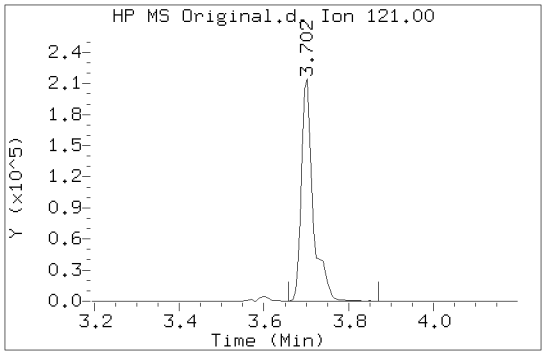
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25-Jun-2024
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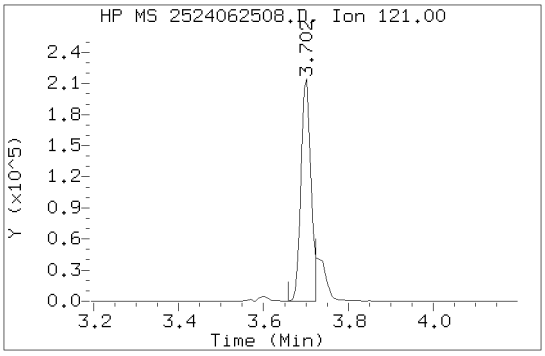
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1108054
HEIGHT
669237
25-Jun-2024
19:31



BEFORE
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AREA
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HEIGHT
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25-Jun-2024
18:20



AFTER
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HEIGHT
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25-Jun-2024
19:31

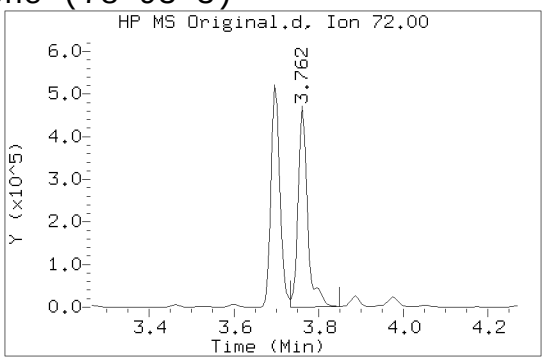


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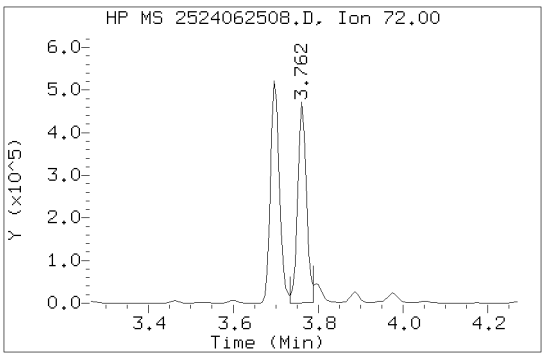
2-Butanone (78-93-3)

Reason Code: MP

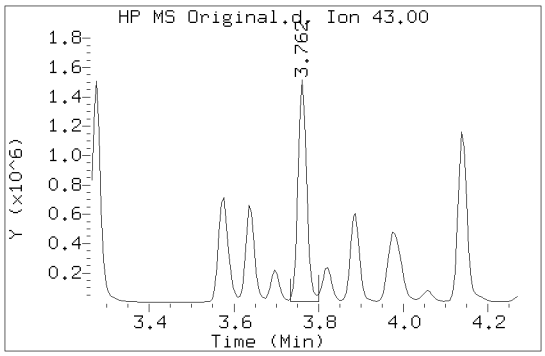
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25-Jun-2024
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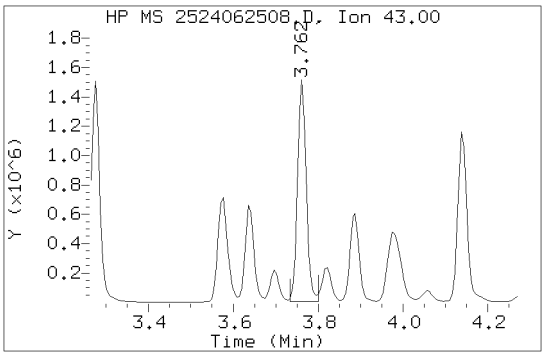
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BEFORE
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HEIGHT
1509778
25-Jun-2024
18:20



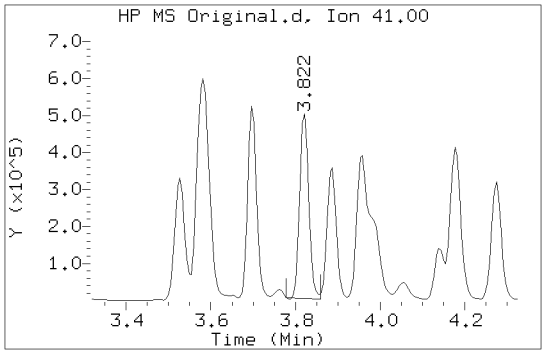
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25-Jun-2024
19:31



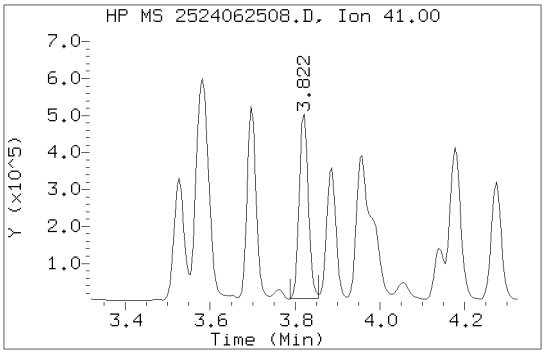
1-Chlorobutane (109-69-3)

Reason Code: I

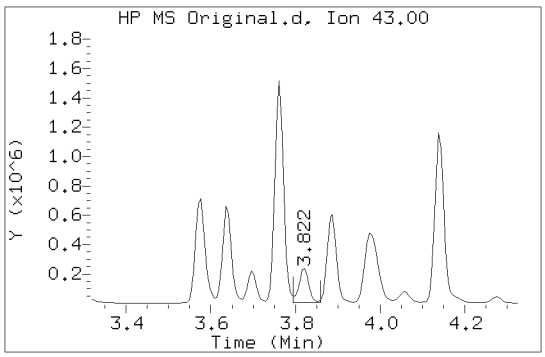
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25-Jun-2024
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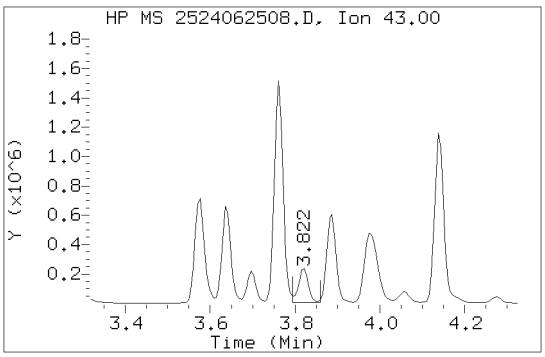
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25-Jun-2024
19:31



BEFORE
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AREA
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25-Jun-2024
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AFTER
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25-Jun-2024
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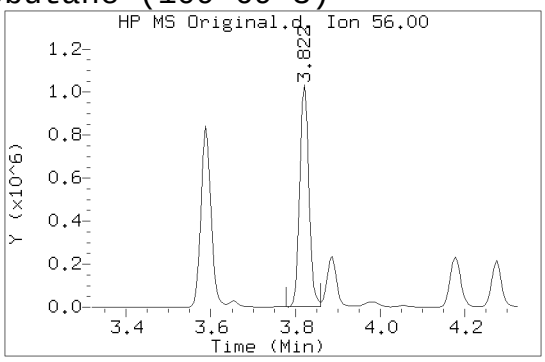


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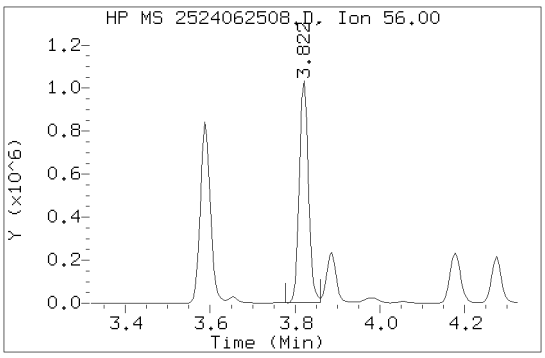
1-Chlorobutane (109-69-3)

Reason Code: I

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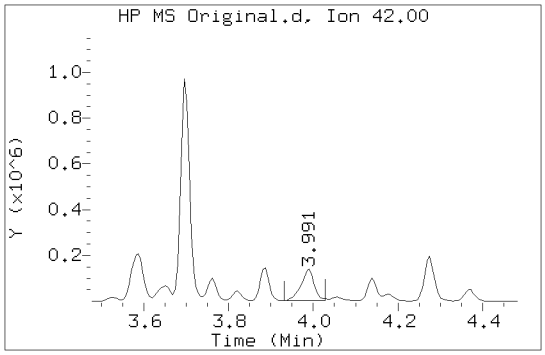
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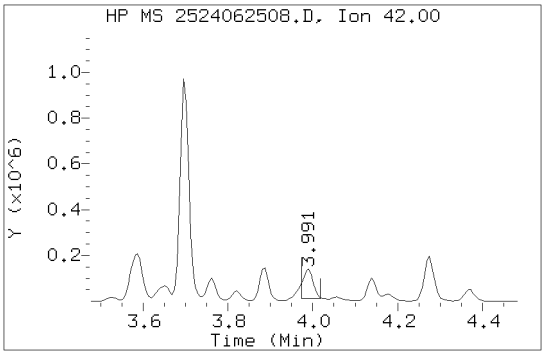
Isobutyl alcohol (78-83-1)

Reason Code: MP

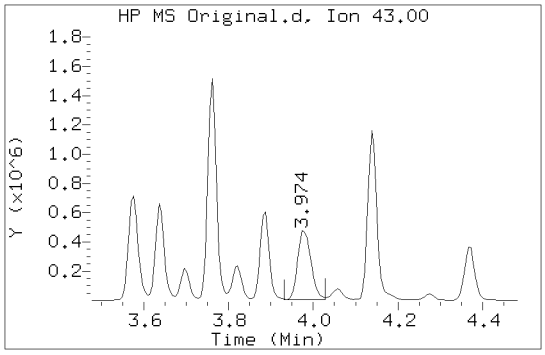
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18:20



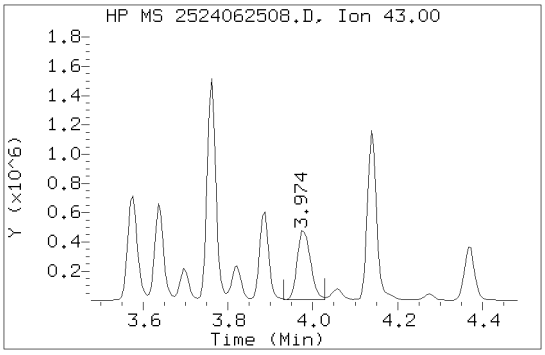
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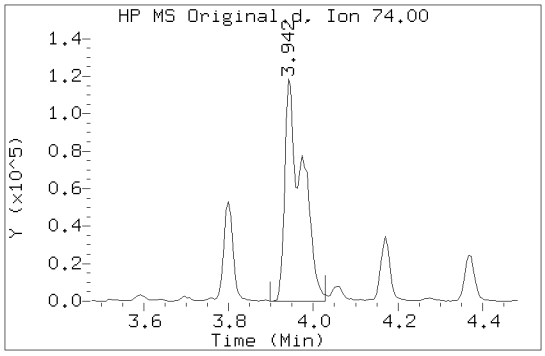
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25-Jun-2024
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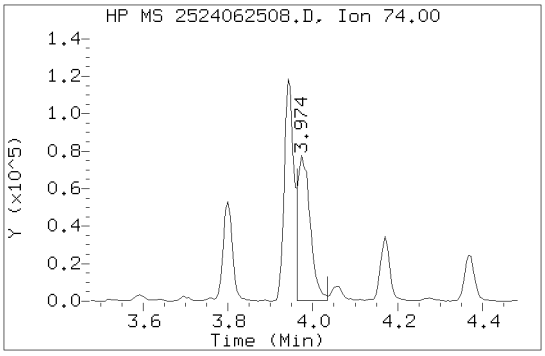
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473179
25-Jun-2024
19:31



BEFORE
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18:20



AFTER
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19:31

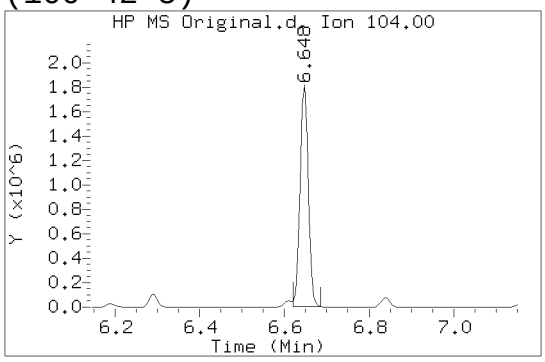


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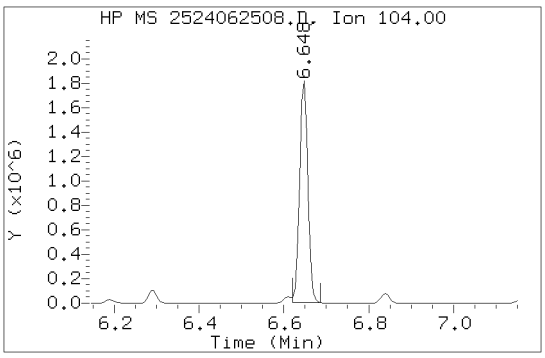
Styrene (100-42-5)

Reason Code: MP

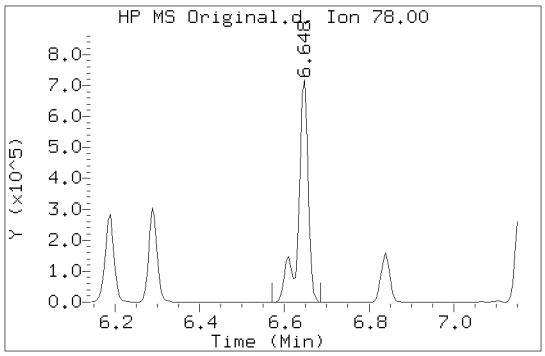
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25-Jun-2024
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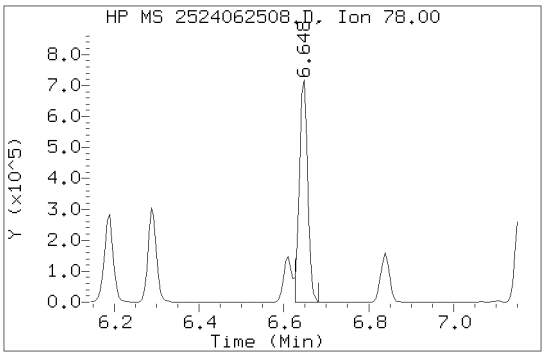
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25-Jun-2024
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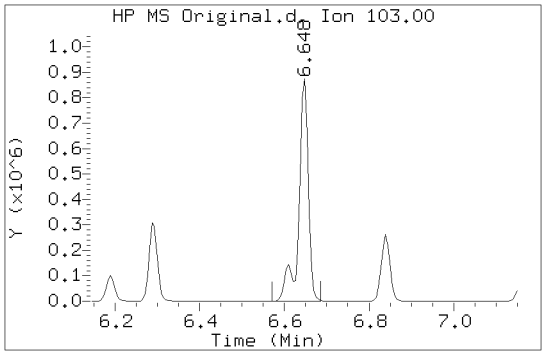
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18:20



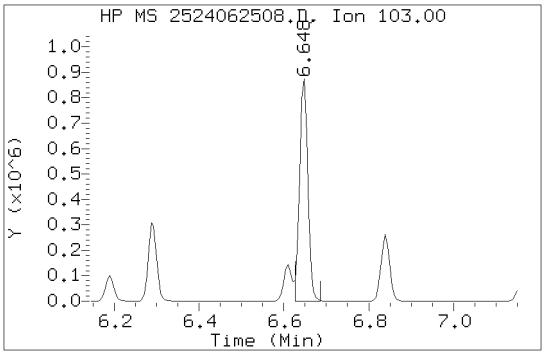
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BEFORE
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18:20



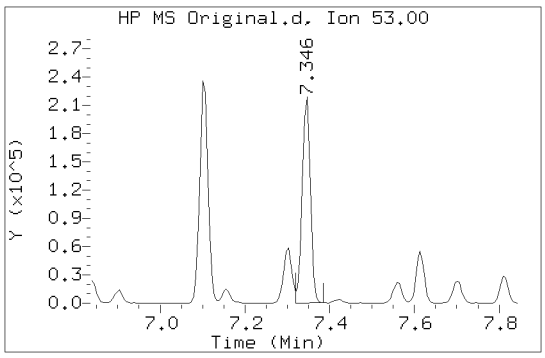
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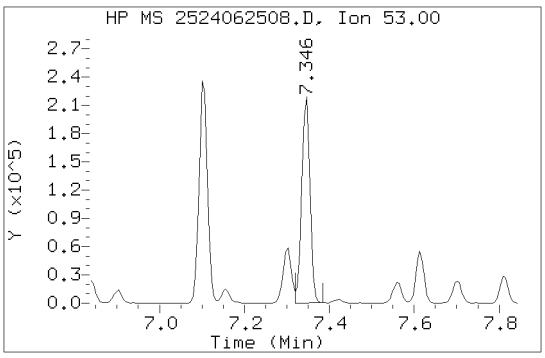
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

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AFTER
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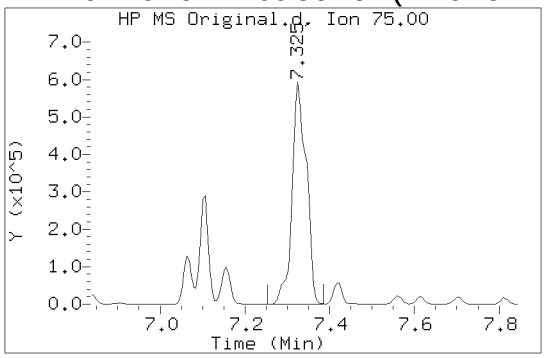


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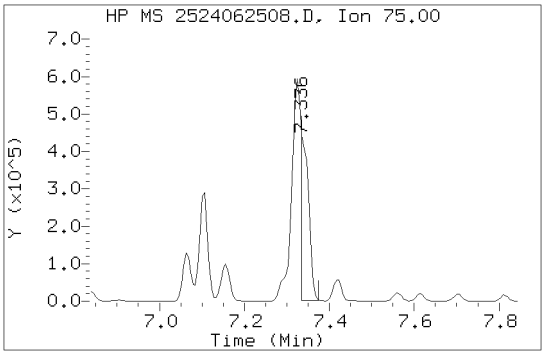
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

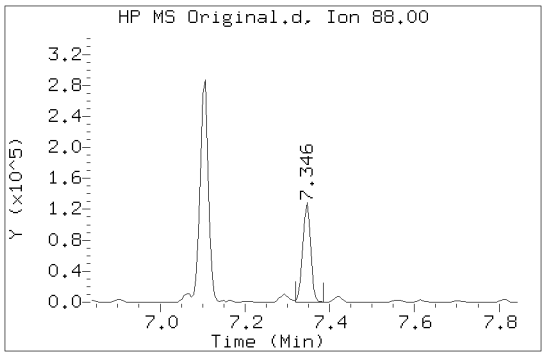
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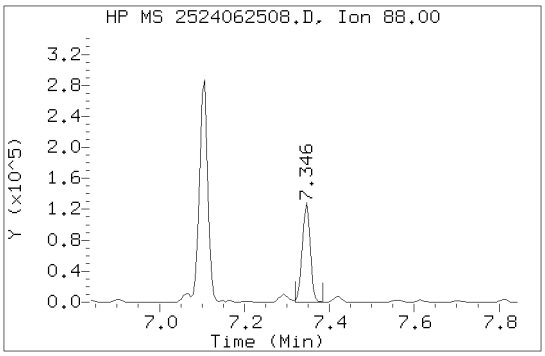
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25-Jun-2024
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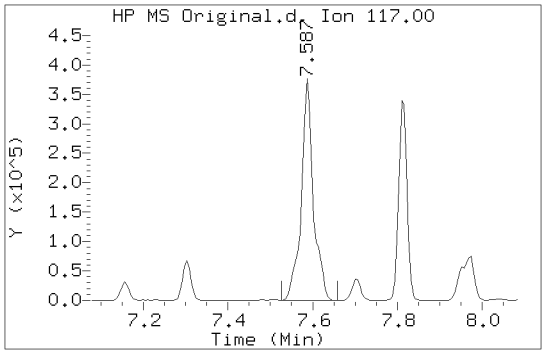
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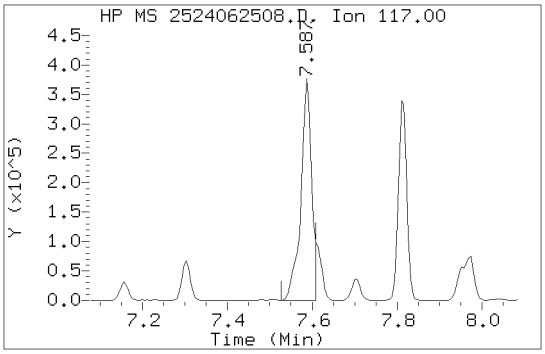
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Reason Code: MP

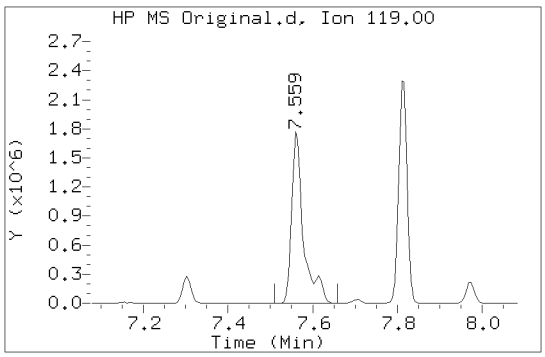
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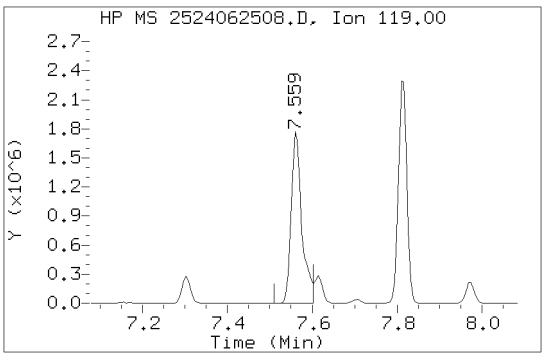
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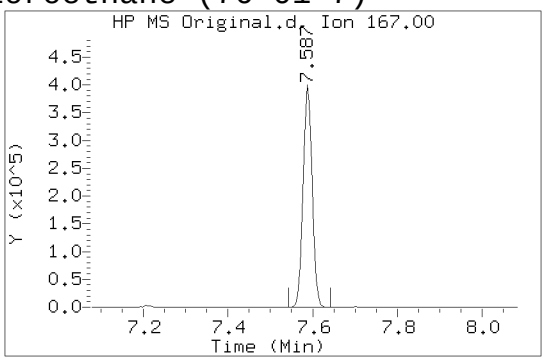


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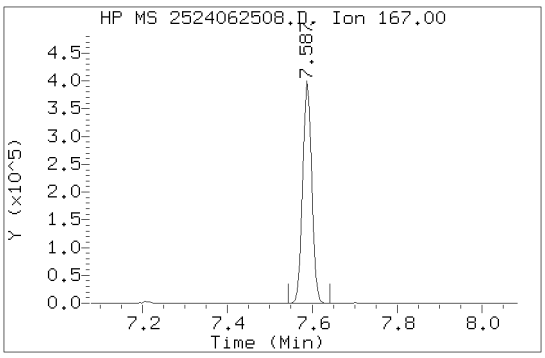
Pentachloroethane (76-01-7)

Reason Code: MP

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25-Jun-2024
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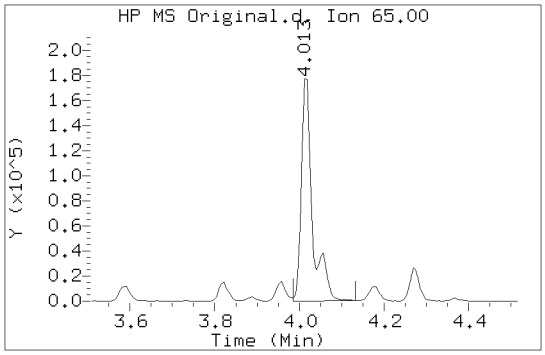
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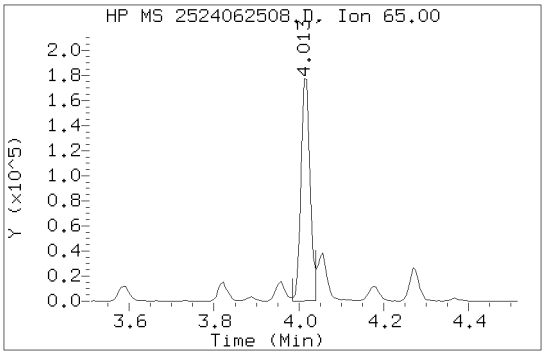
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Reason Code: MP

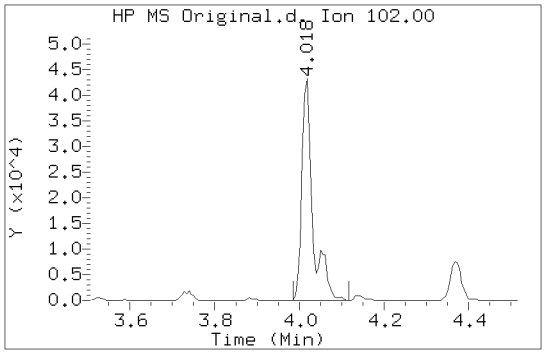
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25-Jun-2024
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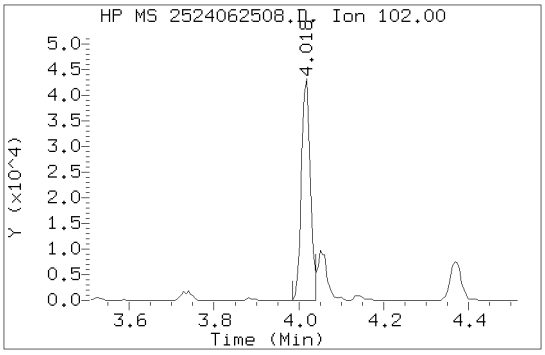
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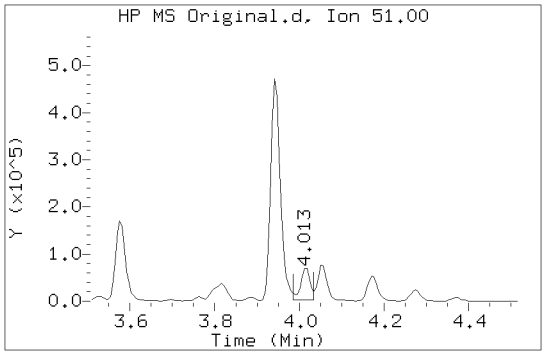
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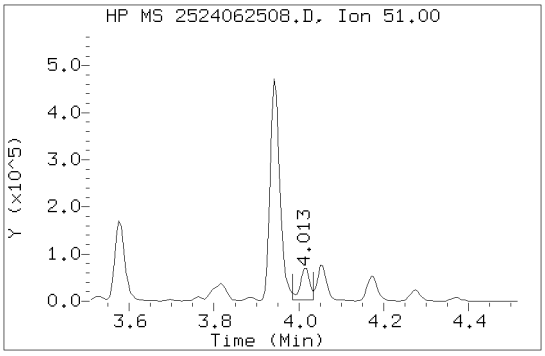
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BEFORE
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25-Jun-2024
18:20



AFTER
MASS
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19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
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Inj Date: 25-JUN-2024 12:45
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062509.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062509.D
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Inj Date : 25-JUN-2024 13:05
Operator : ILY Inst ID: ms25.i
Smp Info : 1239;;1;1;6;;;
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

						AMOUNTS		
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	2533343	200.000	200.661(A)	
2 Chloromethane	50	1.644	1.645	(0.394)	2190978	200.000	199.066	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	2763717	200.000	193.643	
4 Bromomethane	94	1.922	1.923	(0.461)	1305713	200.000	192.375	
5 Chloroethane	64	1.999	2.005	(0.479)	1905246	200.000	198.539	
6 Pentane	41	2.086	2.092	(0.500)	1732989	200.000	197.891	
7 Trichlorofluoromethane	101	2.097	2.103	(0.503)	3760616	200.000	192.366	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	3794751	200.000	209.785(A)	
9 Ethyl Ether	74	2.277	2.278	(0.546)	1181973	200.000	214.877(A)	
10 1,1-Dichloroethene	61	2.413	2.409	(0.579)	2327421	200.000	212.037(A)	
11 Freon 113	101	2.424	2.425	(0.581)	1639523	200.000	212.363(A)	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	5113780	200.000	215.969(A)	
13 Iodomethane	127	2.506	2.507	(0.601)	874390	200.000	203.891(AM)	MP
14 Acrolein	56	2.599	2.600	(0.623)	1855433	1000.00	1047.97(A)	
15 Isopropyl Alcohol	45	2.653	2.654	(0.636)	563852	1000.00	983.496(A)	
16 3-Chloro-1-propene	41	2.681	2.676	(0.643)	1831594	200.000	191.003	
17 Methylene Chloride	84	2.741	2.741	(0.657)	1850713	200.000	206.413(A)	
18 Acetone	58	2.757	2.752	(0.661)	957192	1000.00	963.579(A)	
19 Methyl acetate	74	2.812	2.812	(0.674)	401646	200.000	198.075	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	2259733	200.000	210.193(A)	
21 Hexane	57	2.861	2.867	(0.686)	3534639	200.000	198.521	

Data File: 2524062509.D
Report Date: 25-Jun-2024 19:32

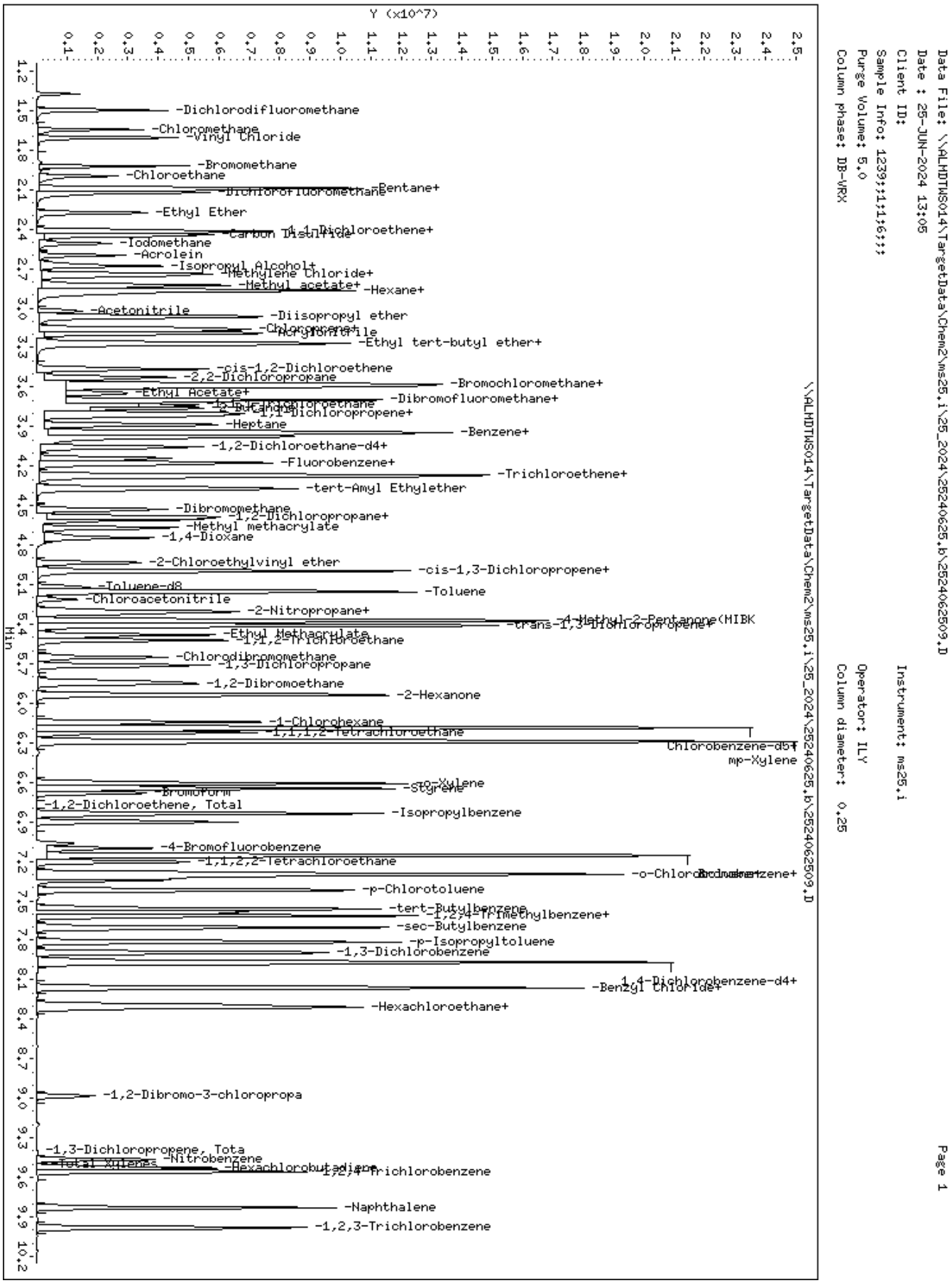
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	5465615	200.000	197.482	
	23 tert.- Butyl Alcohol	59	2.899	2.889	(0.695)	1044247	1000.00	1053.02(A)	
	24 Acetonitrile	41	3.019	3.020	(0.724)	1144489	1000.00	1030.32(A)	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	5106206	200.000	214.009(A)	
	26 Chloroprene	53	3.155	3.156	(0.757)	2690763	200.000	222.440(A)	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	3152575	200.000	215.242(A)	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	4150745	1000.00	1088.14(AM)	MP
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	5631765	200.000	222.238(A)	
	30 n-Propanol	41	3.265	3.260	(0.783)	934630	2000.00	1988.33(A)	
	31 Vinyl Acetate	86	3.276	3.276	(0.785)	502264	200.000	199.748(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	2317342	200.000	212.587(A)	
	33 2,2-Dichloropropane	77	3.526	3.522	(0.846)	2483153	200.000	212.717(A)	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	1007796	200.000	214.387(A)	
	35 Cyclohexane	84	3.587	3.587	(0.860)	2805001	200.000	214.457(A)	
	36 Chloroform	83	3.597	3.598	(0.863)	3402674	200.000	215.202(A)	
	37 Ethyl Acetate	43	3.636	3.642	(0.872)	1869543	200.000	197.447	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	1893330	200.000	215.695(A)	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	2364065	200.000	202.004(AM)	MP
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	269793	30.0000	29.9675	
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	2809741	1000.00	1047.05(A)	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	2730421	200.000	221.860(A)	
	43 2-Butanone	72	3.761	3.767	(0.902)	1355775	1000.00	1045.11(AM)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	2490484	200.000	213.935(A)	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	1497481	200.000	200.031(A)	
	46 Heptane	71	3.887	3.887	(0.932)	1359947	200.000	201.075(A)	
	47 Benzene	78	3.941	3.942	(0.945)	7285794	200.000	203.620(A)	
	48 Propionitrile	54	3.941	3.942	(0.945)	1569623	1000.00	1086.65(A)	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	949015	200.000	219.168(A)	
	50 tert-Amyl methyl ether	73	3.974	3.975	(0.953)	5347492	200.000	218.606(A)	
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	461252	2000.00	2080.98(AQM)	MP
$	51 1,2-Dichloroethane-d4	65	4.018	4.013	(0.963)	264730	30.0000	27.8946(Q)	
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	2293019	200.000	203.858(A)	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	828700	1000.00	1089.18(A)	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1140999	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	4304948	200.000	199.241	
	57 Trichloroethene	95	4.269	4.269	(1.024)	1911167	200.000	211.044(A)	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	3083558	200.000	207.342(A)	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	4280148	200.000	199.943	
	60 Dibromomethane	93	4.525	4.526	(1.085)	1261550	200.000	220.365(A)	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	1865089	200.000	216.575(A)	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	2408792	200.000	200.112(A)	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	1542068	200.000	226.257(A)	
	64 1,4-Dioxane	88	4.721	4.722	(1.132)	654248	5000.00	4907.67(A)	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	1290655	200.000	203.639(A)	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	3091062	200.000	198.443	
	67 Octane	85	5.000	5.000	(0.810)	1164839	200.000	206.573(A)	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1004821	30.0000	27.6813	
	69 Toluene	92	5.153	5.153	(0.835)	4497848	200.000	195.496	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	605378	1000.00	1055.50(A)	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	2564073	1000.00	1010.56(A)	
	72 1,1-Dichloro-2-Propanone	63	5.316	5.317	(0.861)	244954	1000.00	998.419(AQ)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	8734882	1000.00	958.508(A)	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	2883334	200.000	199.848	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	1746614	200.000	208.481(A)	

Data File: 2524062509.D Page 3
Report Date: 25-Jun-2024 19:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.480	5.481	(0.888)	2747208	200.000	197.168	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	1455486	200.000	205.900(A)	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	2002816	200.000	198.766	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	2931716	200.000	209.909(A)	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	1854429	200.000	196.399	
	81 2-Hexanone	43	5.938	5.933	(0.962)	6043549	1000.00	966.370(A)	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	2598392	200.000	214.677(A)	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	458486	30.0000		
	84 Chlorobenzene	112	6.184	6.184	(1.002)	4976299	200.000	212.244(A)	
	85 Ethylbenzene	106	6.189	6.190	(1.003)	2724522	200.000	199.145	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	1749666	200.000	196.705	
	87 mp-Xylene	106	6.287	6.288	(1.019)	6367993	400.000	393.536(A)	
	88 o-Xylene	106	6.609	6.610	(1.071)	3066270	200.000	196.521	
	89 Styrene	104	6.648	6.648	(0.836)	4976988	200.000	202.321(AM)	MP
	90 Bromoform	173	6.680	6.686	(0.840)	1437569	200.000	206.673(A)	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	6796201	200.000	198.663	
M	100 1,2-Dichloroethene, Total	61				4577075	400.000	422.780	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	328983	30.0000	28.7193	
	93 Bromobenzene	156	7.155	7.156	(0.900)	2134822	200.000	218.064(A)	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	2189906	200.000	218.753(A)	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	2194263	200.000	225.506(A)	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	5793534	200.000	219.965(A)	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	5987392	200.000	214.902(A)	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	681141	200.000	217.039(A)	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	609147	200.000	203.114(AM)	MP
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	5152023	200.000	215.954(A)	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	1465252	200.000	219.893(A)	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	1367796	200.000	203.511(AM)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	5884390	200.000	199.913	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	7352965	200.000	213.536(A)	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	1743745	200.000	221.134(A)	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	3602650	200.000	218.432(A)	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	414069	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	3762667	200.000	218.865(A)	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	867235	200.000	208.955(AQ)	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	1593183	200.000	216.199(A)	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	1225691	200.000	206.207(A)	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	3512145	200.000	223.550(A)	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	386483	200.000	206.383(A)	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	1663438	2000.00	1994.71(A)	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	1058167	200.000	202.812(A)	
M	120 1,3-Dichloropropene, Total	75				5974396	400.000	398.291	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	2422661	200.000	232.854(A)	
M	121 Total Xylenes	106				9434263	600.000	590.057	
	118 Naphthalene	128	9.829	9.829	(1.236)	6235557	200.000	202.911(A)	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	2411703	200.000	205.392(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Y (x10^7)
Min
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Date : 25-JUN-2024 13:05
Client ID:
Sample Info: 1239;;1;1;6;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: ILY
Column diameter: 0.25
\\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25240625009.D
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Methylene Chloride+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Dibromofluoromethane+
-Heptane
-Benzene+
-1,2-Dichloroethane-d4+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene
-Chloroacetonitrile
-2-Nitropropane+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Total Xylenes
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
Page 1

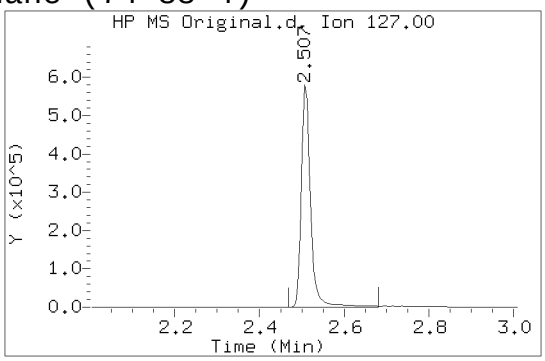
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InstruID : ms25.i
LabSampID : 1239

Iodomethane (74-88-4)

Reason Code: MP

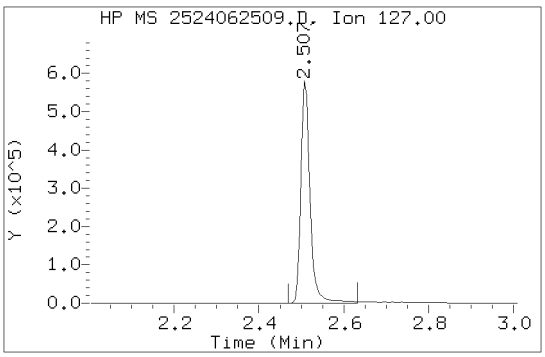
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127
AREA
884363
HEIGHT
580224
25-Jun-2024
18:25



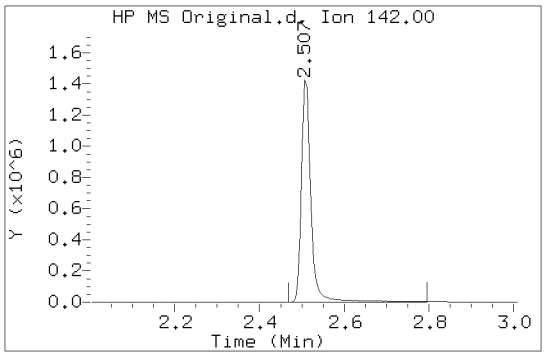
AFTER

MASS
127
AREA
874390
HEIGHT
580224
25-Jun-2024
19:31



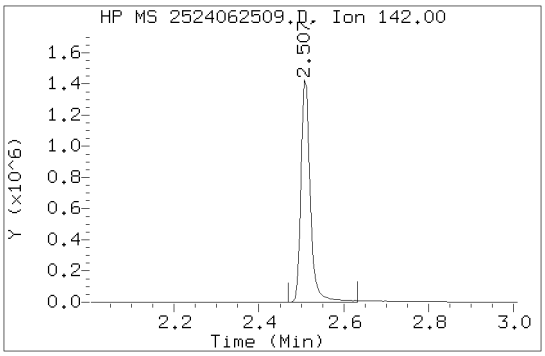
BEFORE

MASS
142
AREA
2248055
HEIGHT
1425920
25-Jun-2024
18:25



AFTER

MASS
142
AREA
2188795
HEIGHT
1425920
25-Jun-2024
19:31

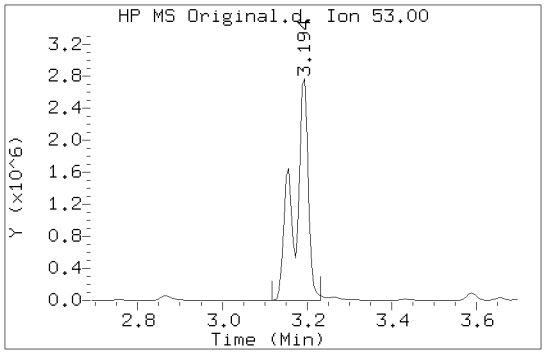


Acrylonitrile (107-13-1)

Reason Code: MP

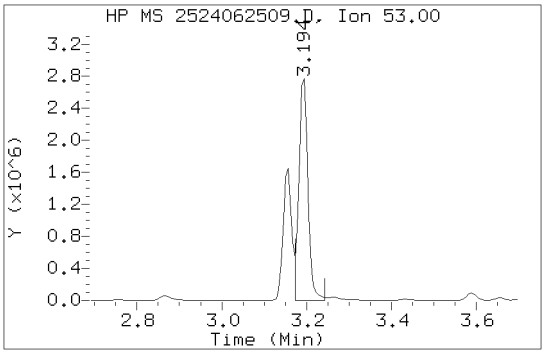
BEFORE

MASS
53
AREA
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HEIGHT
2769907
25-Jun-2024
18:25



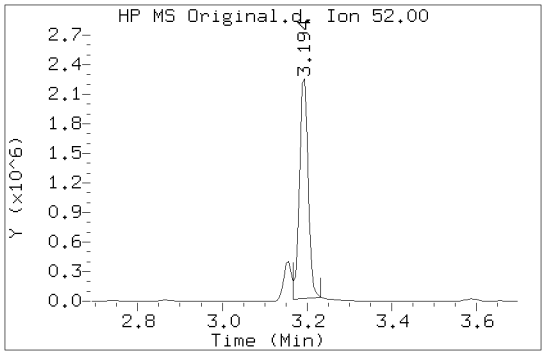
AFTER

MASS
53
AREA
4150745
HEIGHT
2769098
25-Jun-2024
19:31



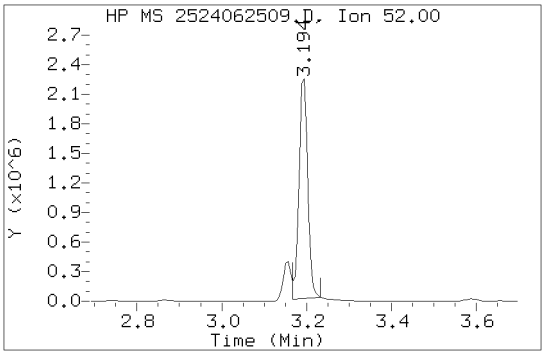
BEFORE

MASS
52
AREA
3216697
HEIGHT
2229568
25-Jun-2024
18:25



AFTER

MASS
52
AREA
3216697
HEIGHT
2229568
25-Jun-2024
19:31



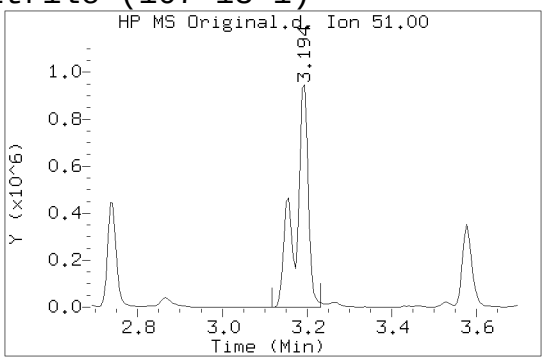
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Inj Date : 25-JUN-2024 13:05
InstruID : ms25.i
LabSampID : 1239

Acrylonitrile (107-13-1)

Reason Code: MP

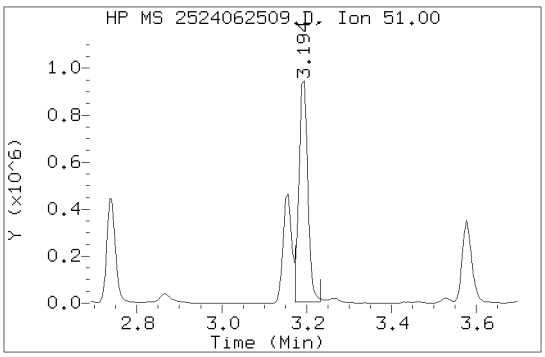
BEFORE

MASS
51
AREA
2049581
HEIGHT
945935
25-Jun-2024
18:25



AFTER

MASS
51
AREA
1391216
HEIGHT
941577
25-Jun-2024
19:31

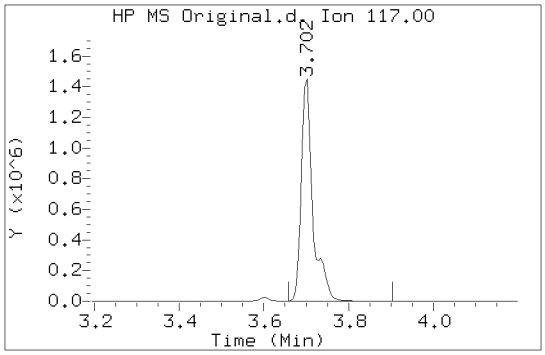


Carbon Tetrachloride (56-23-5)

Reason Code: MP

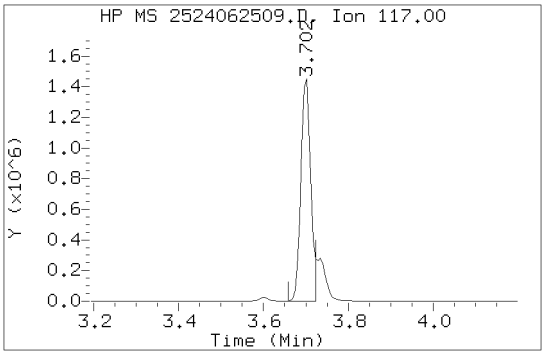
BEFORE

MASS
117
AREA
2775522
HEIGHT
1451008
25-Jun-2024
18:25



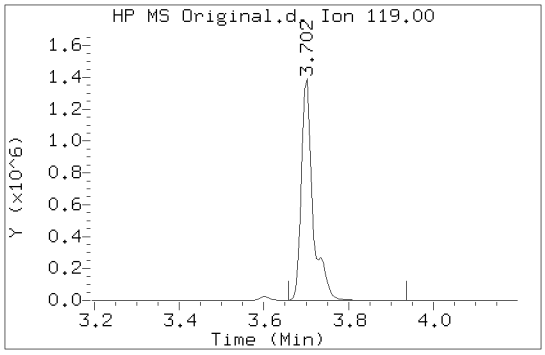
AFTER

MASS
117
AREA
2364065
HEIGHT
1451008
25-Jun-2024
19:31



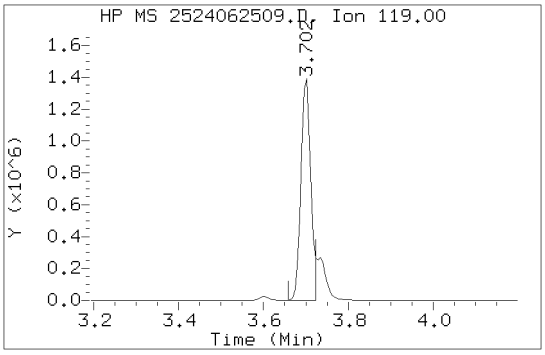
BEFORE

MASS
119
AREA
2660083
HEIGHT
1391104
25-Jun-2024
18:25



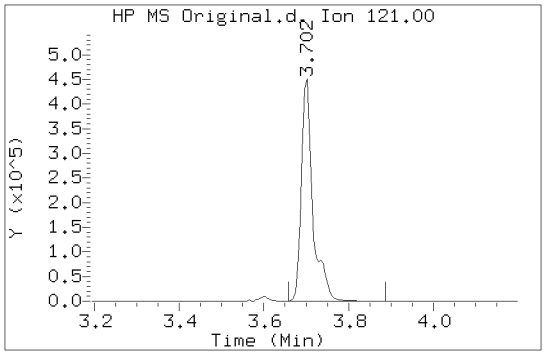
AFTER

MASS
119
AREA
2260916
HEIGHT
1391104
25-Jun-2024
19:31



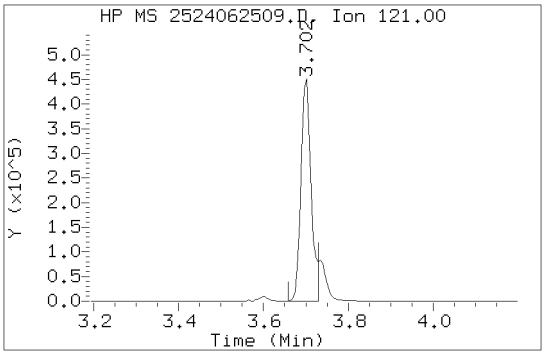
BEFORE

MASS
121
AREA
857041
HEIGHT
451264
25-Jun-2024
18:25



AFTER

MASS
121
AREA
757273
HEIGHT
451264
25-Jun-2024
19:31

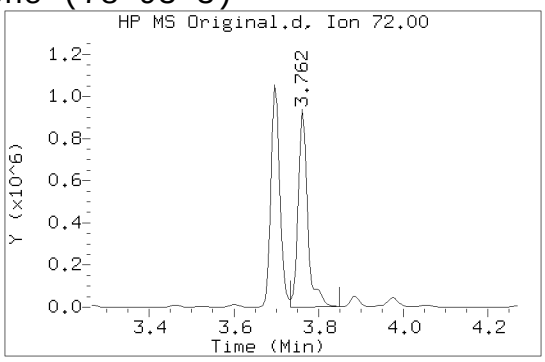


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LabSampID : 1239

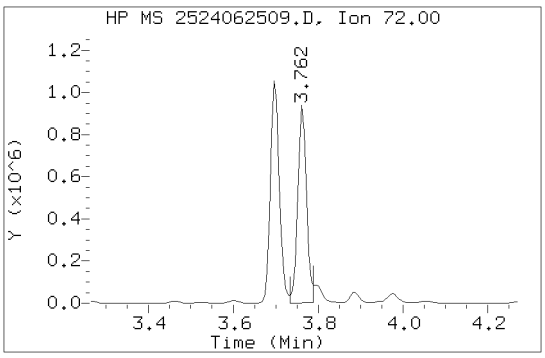
2-Butanone (78-93-3)

Reason Code: MP

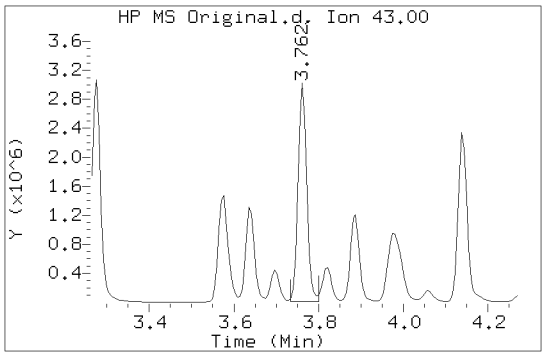
BEFORE
MASS
72
AREA
1460527
HEIGHT
938761
25-Jun-2024
18:25



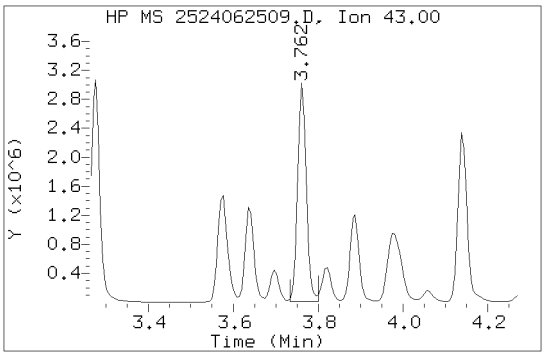
AFTER
MASS
72
AREA
1355775
HEIGHT
938762
25-Jun-2024
19:31



BEFORE
MASS
43
AREA
4299038
HEIGHT
3010929
25-Jun-2024
18:25



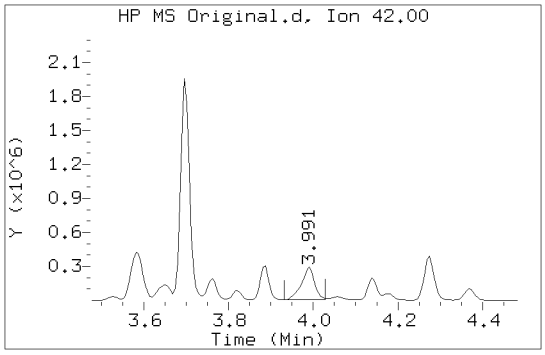
AFTER
MASS
43
AREA
4299038
HEIGHT
3010929
25-Jun-2024
19:31



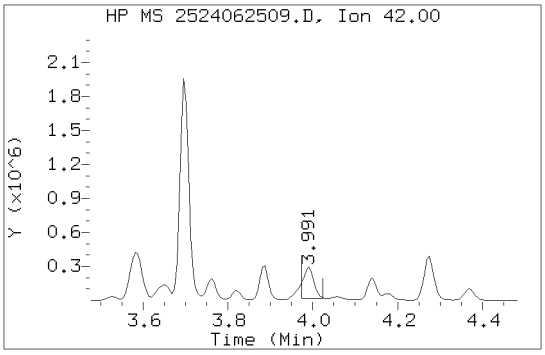
Isobutyl alcohol (78-83-1)

Reason Code: MP

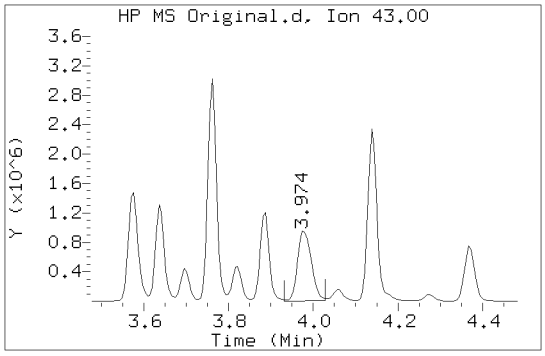
BEFORE
MASS
42
AREA
620025
HEIGHT
289160
25-Jun-2024
18:25



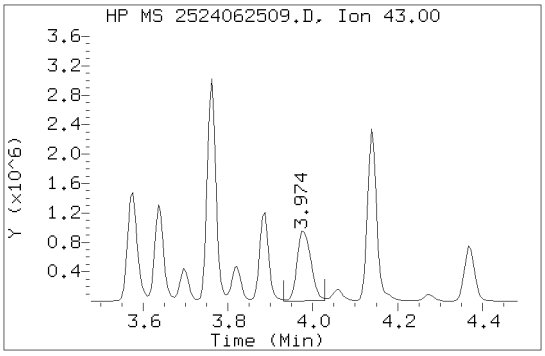
AFTER
MASS
42
AREA
461252
HEIGHT
275900
25-Jun-2024
19:31



BEFORE
MASS
43
AREA
2173621
HEIGHT
947154
25-Jun-2024
18:25



AFTER
MASS
43
AREA
2173621
HEIGHT
947154
25-Jun-2024
19:31

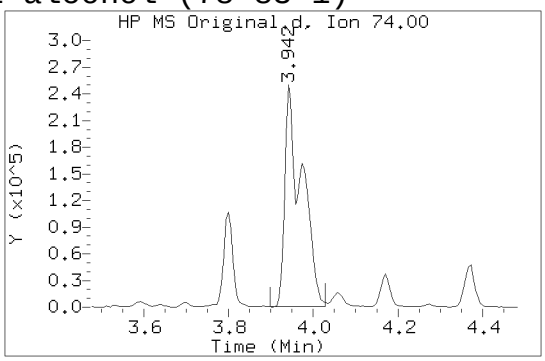


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LabSampID : 1239

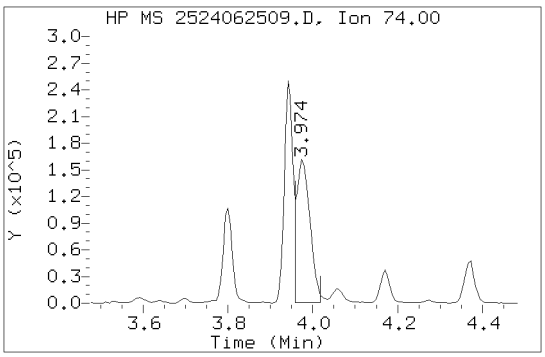
Isobutyl alcohol (78-83-1)

Reason Code: MP

BEFORE
MASS
74
AREA
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HEIGHT
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25-Jun-2024
18:25



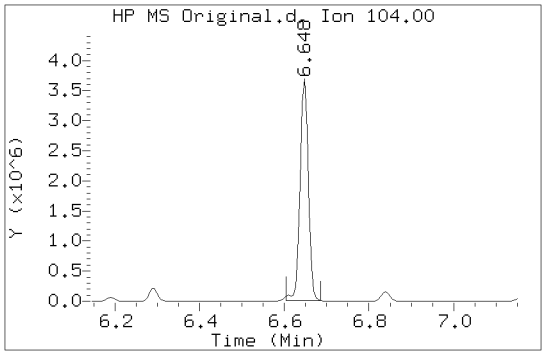
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74
AREA
366826
HEIGHT
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25-Jun-2024
19:31



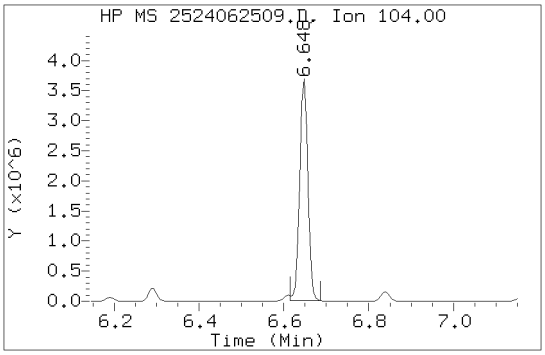
Styrene (100-42-5)

Reason Code: MP

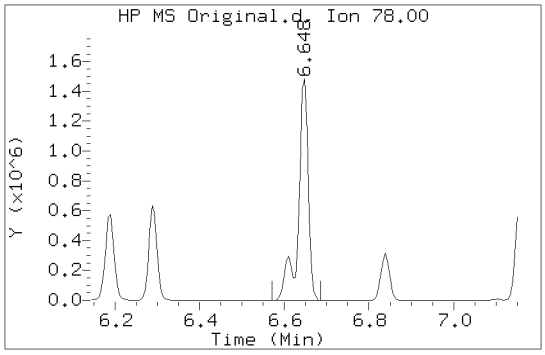
BEFORE
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AREA
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HEIGHT
3687716
25-Jun-2024
18:25



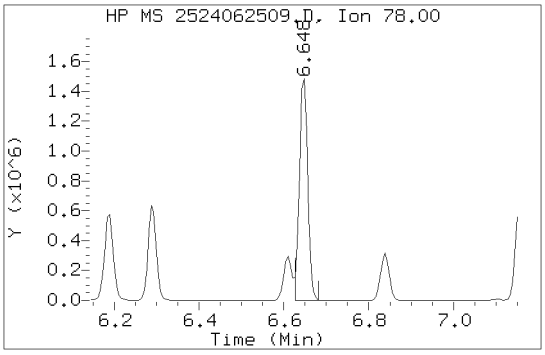
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AREA
4976988
HEIGHT
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25-Jun-2024
19:31



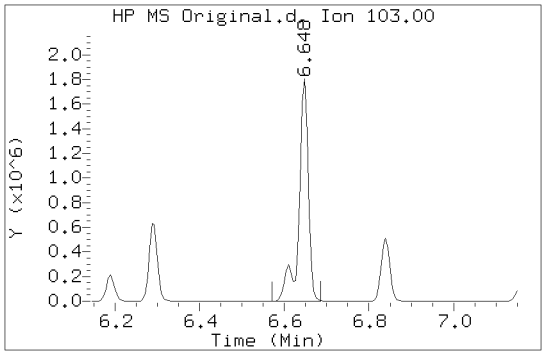
BEFORE
MASS
78
AREA
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HEIGHT
1484288
25-Jun-2024
18:25



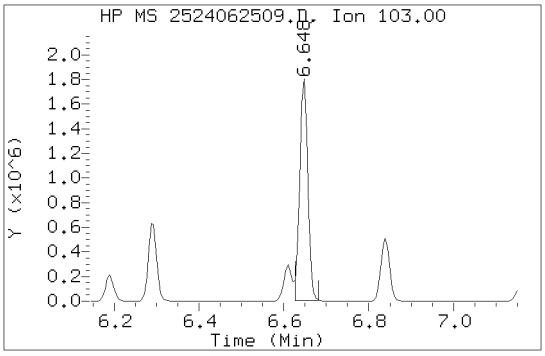
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BEFORE
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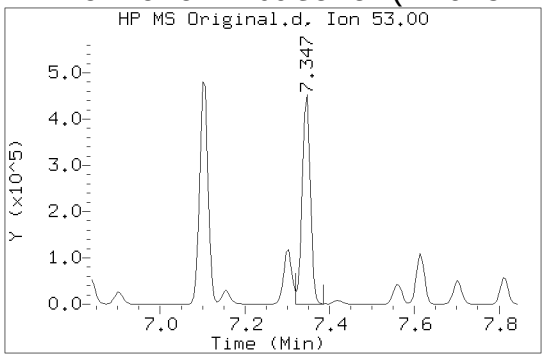


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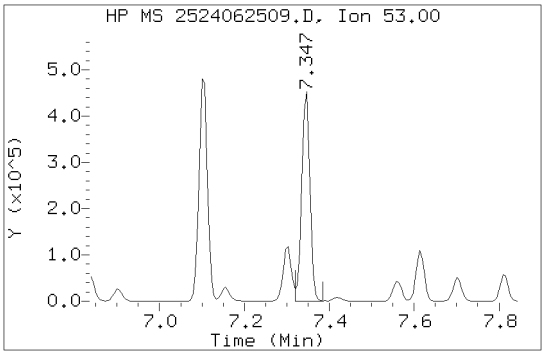
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MP

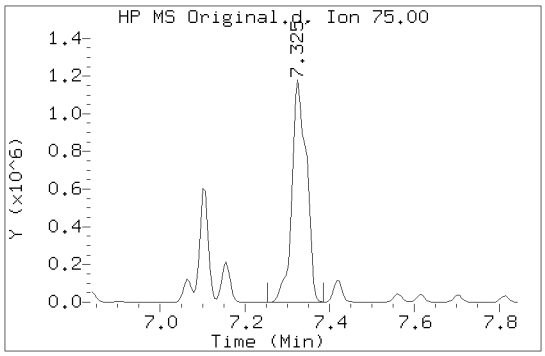
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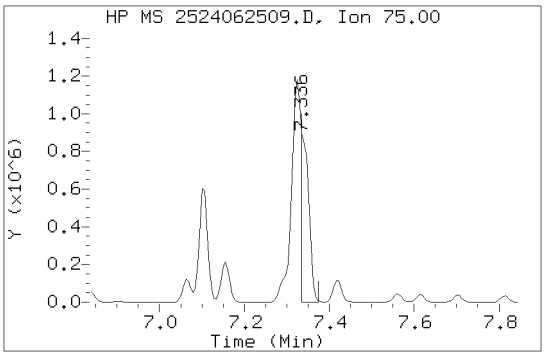
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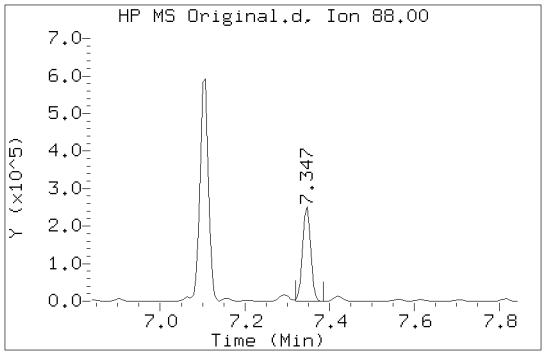
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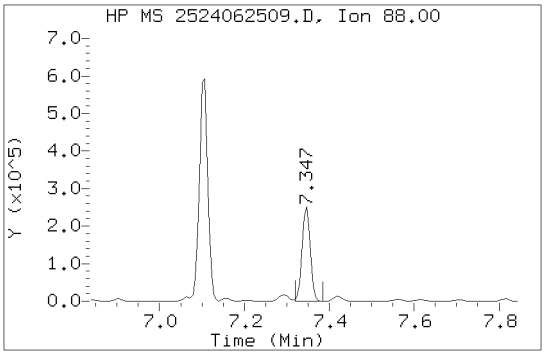
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BEFORE
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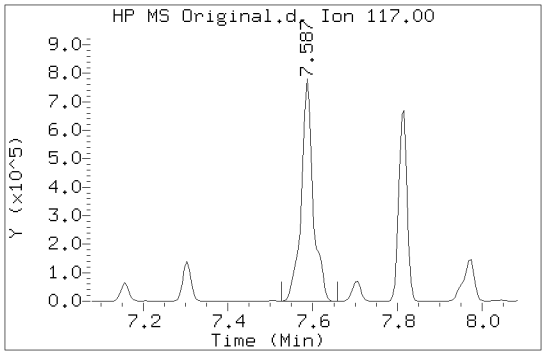
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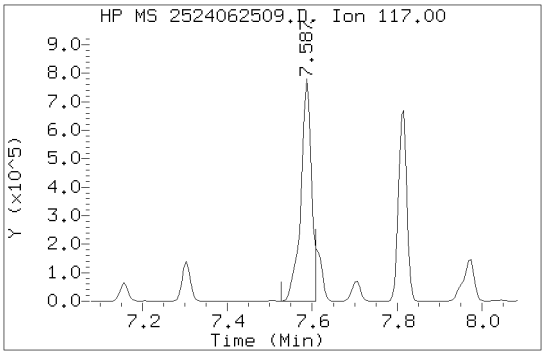
Pentachloroethane (76-01-7)

Reason Code: MP

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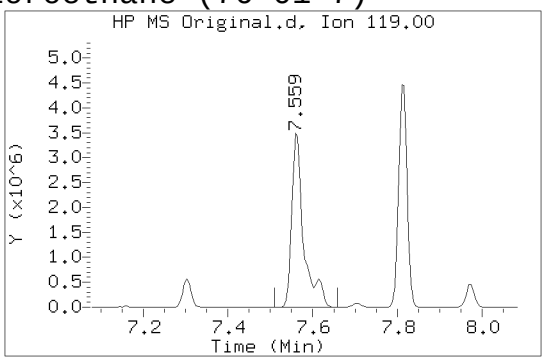
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LabSampID : 1239

Pentachloroethane (76-01-7)

Reason Code: MP

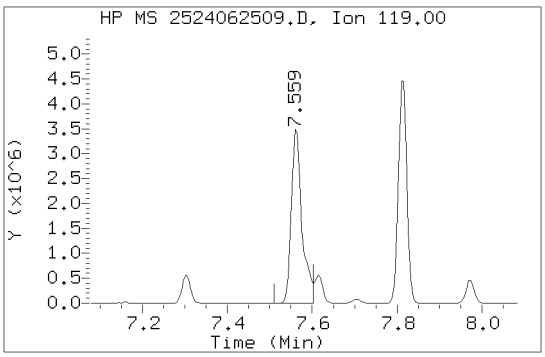
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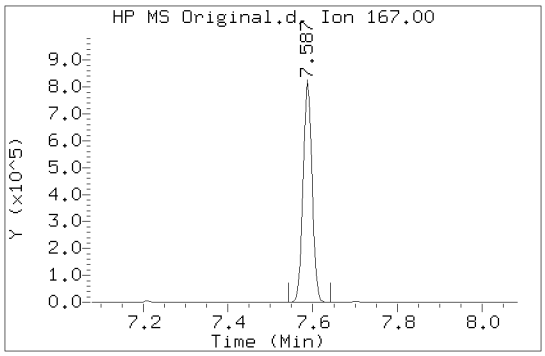
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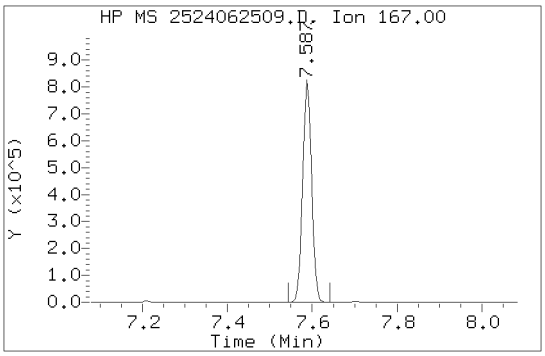
BEFORE

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AFTER

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25-Jun-2024
19:31



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:32
Client ID:
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Inj Date: 25-JUN-2024 13:05
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062515ICVQ.D Page 1
Report Date: 25-Jun-2024 19:30

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062515ICV
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Operator : ILY Inst ID: ms25.i
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Misc Info :
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Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 15 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	251951	20.6685	20.6685	
2 Chloromethane	50	1.644	1.645	(0.394)	208848	19.5473	19.5473	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	280887	20.3829	20.3829	
4 Bromomethane	94	1.922	1.923	(0.461)	135606	20.2997	20.2997	
5 Chloroethane	64	1.999	2.005	(0.479)	198690	21.1689	21.1689	
6 Pentane	41	2.086	2.092	(0.500)	183202	20.7239	20.7239	
7 Trichlorofluoromethane	101	2.092	2.103	(0.502)	384907	20.3916	20.3916	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	405133	23.1960	23.1960	
9 Ethyl Ether	74	2.277	2.278	(0.546)	114503	21.5588	21.5588	
10 1,1-Dichloroethene	61	2.413	2.409	(0.579)	241984	22.8323	22.8323	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	495835	21.6876	21.6876	
11 Freon 113	101	2.424	2.425	(0.581)	170212	22.8337	22.8337	
13 Iodomethane	127	2.506	2.507	(0.601)	67585	16.7923	16.7923	
14 Acrolein	56	2.599	2.600	(0.623)	272564	159.440	159.440	
16 3-Chloro-1-propene	41	2.675	2.676	(0.642)	210672	22.9067	22.9067	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	58549	102.932	102.932	
17 Methylene Chloride	84	2.735	2.741	(0.656)	192795	22.2700	22.2700	
18 Acetone	58	2.757	2.752	(0.661)	103013	107.400	107.400	
19 Methyl acetate	74	2.812	2.812	(0.674)	42205	21.1799	21.1799(Q)	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	238437	22.9700	22.9700	
21 Hexane	57	2.861	2.867	(0.686)	364566	20.9440	20.9440	

Data File: 2524062515ICVQ.D
Report Date: 25-Jun-2024 19:30

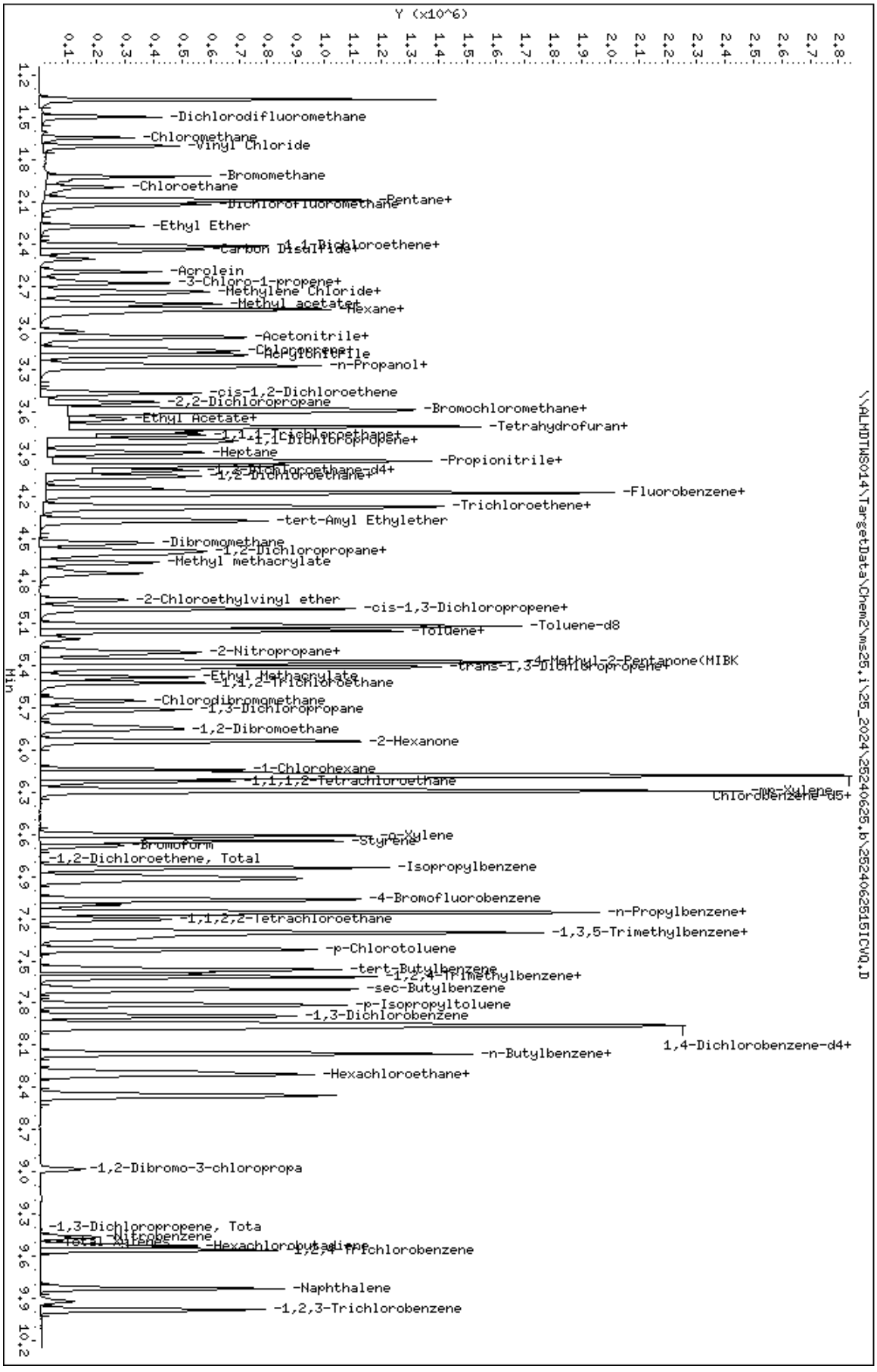
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	547401	20.6913	20.6913	
	23 tert.- Butyl Alcohol	59	2.899	2.889	(0.695)	107488	112.258	112.258	
	24 Acetonitrile	41	3.019	3.020	(0.724)	118663	110.637	110.637	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	518577	22.5098	22.5098	
	26 Chloroprene	53	3.156	3.156	(0.757)	267398	22.8940	22.8940	
	27 1,1-Dichloroethane	63	3.166	3.167	(0.759)	319400	22.5851	22.5851	
	28 Acrylonitrile	53	3.194	3.194	(0.766)	419174	113.810	113.810(M)	MP
	30 n-Propanol	41	3.265	3.260	(0.783)	94386	207.961	207.961	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	568234	23.2234	23.2234	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	45058	18.9056	18.9056(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	237502	22.5651	22.5651	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	231583	20.5462	20.5462	
M	100 1,2-Dichloroethene, Total	61				475939	45.5351	45.5351	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	106286	23.4167	23.4167	
	35 Cyclohexane	84	3.587	3.587	(0.860)	285137	22.5780	22.5780	
	36 Chloroform	83	3.597	3.598	(0.863)	348031	22.7965	22.7965	
	37 Ethyl acetate	43	3.636	3.642	(0.872)	183312	19.9738	19.9738	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	191793	22.6294	22.6294	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	217824	19.6529	19.6529(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	275680	106.398	106.398	
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	256125	29.4644	29.4644	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	280959	23.6438	23.6438	
	43 2-Butanone	72	3.761	3.767	(0.902)	137862	110.064	110.064(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	251179	22.3464	22.3464	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	155097	21.4567	21.4567	
	46 Heptane	71	3.887	3.887	(0.932)	136483	20.8997	20.8997	
	48 Propionitrile	54	3.941	3.942	(0.945)	155474	111.475	111.475	
	47 Benzene	78	3.941	3.942	(0.945)	744196	21.5406	21.5406	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	92810	22.1985	22.1985	
	50 tert-amyl methyl Ether	73	3.974	3.975	(0.953)	542174	22.9549	22.9549	
$	51 1,2-Dichloroethane-d4	65	4.018	4.013	(0.963)	262361	28.6313	28.6313(M)	MP
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	34211	163.562	163.562(QM)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	236551	21.7806	21.7806	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	83872	114.168	114.168	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1101692	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	452639	20.3518	20.3518	
	57 Trichloroethene	95	4.269	4.269	(1.024)	190652	21.8042	21.8042	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	304774	21.9417	21.9417	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	402469	19.7081	19.7081	
	60 Dibromomethane	93	4.525	4.526	(1.085)	123469	22.3369	22.3369	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	186337	22.4096	22.4096	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	233572	20.3931	20.3931	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	144674	21.9843	21.9843	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	120010	19.9453	19.9453	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	281300	19.5895	19.5895	
	67 Octane	85	5.000	5.000	(0.810)	115653	21.9595	21.9595	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	988189	29.1471	29.1471	
	69 Toluene	92	5.153	5.153	(0.835)	450960	20.9859	20.9859	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	62587	116.835	116.835	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	216627	93.1119	93.1119	
	72 1,1-Dichloro-2-propanone	63	5.316	5.317	(0.861)	21848	97.0977	97.0977(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	928220	109.950	109.950	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	266554	20.0483	20.0483	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	172484	22.0433	22.0433	

Data File: 2524062515ICVQ.D
Report Date: 25-Jun-2024 19:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.481	(0.888)	253851	19.7911	19.7911	
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	147105	22.2809	22.2809	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	179731	19.4308	19.4308	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	297226	22.7852	22.7852	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	175686	20.1319	20.1319	
	81 2-Hexanone	43	5.933	5.933	(0.961)	623906	107.801	107.801	
	82 1-Chlorohexane	91	6.140	6.146	(0.995)	255005	22.5573	22.5573	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	428222	30.0000		
	85 Ethylbenzene	106	6.189	6.190	(1.003)	268551	20.8965	20.8965	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	479812	21.9107	21.9107	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	165593	20.2181	20.2181	
	87 mp-Xylene	106	6.288	6.288	(1.019)	633583	41.2141	41.2141	
M	120 1,3-Dichloropropene, Total	75				547854	39.6378	39.6378	
	88 o-Xylene	106	6.609	6.610	(1.071)	296259	20.3295	20.3295	
	89 Styrene	104	6.648	6.648	(0.836)	476196	21.1423	21.1423	
	90 Bromoform	173	6.680	6.686	(0.840)	117468	18.5434	18.5434	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	748030	23.7053	23.7053	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	306965	28.9025	28.9025	
M	121 TOTAL XYLENES	106				929842	61.5436	61.5436	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	202709	21.8398	21.8398	
	93 Bromobenzene	156	7.155	7.156	(0.900)	194158	21.3906	21.3906	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	202733	22.4719	22.4719	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	558673	21.6275	21.6275	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	534310	21.8801	21.8801	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	64224	22.0722	22.0722	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	54164	19.7417	19.7417(Q)	
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	488613	22.0900	22.0900	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	140218	22.6960	22.6960	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	109789	17.8854	17.8854(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	566890	20.6358	20.6358	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	727916	22.8001	22.8001	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	160341	21.9313	21.9313	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	341074	22.3044	22.3044	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	383907	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	348388	21.8570	21.8570	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	146071	21.3796	21.3796(Q)	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	60049	16.0397	16.0397(Q)	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	100711	18.6291	18.6291	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	325146	22.3217	22.3217	
	114 1,2-Dibromo-3-chloropropane	75	8.978	8.984	(1.129)	31004	18.2352	18.2352	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	86105	165.714	165.714	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	100478	20.9968	20.9968	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	225852	23.4132	23.4132	
	118 Naphthalene	128	9.829	9.829	(1.236)	556398	19.8177	19.8177	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	207382	19.3142	19.3142	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

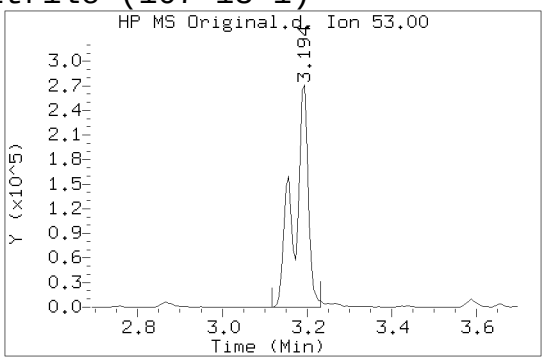

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Date : 25-JUN-2024 15:08
Client ID:
Sample Info: ICVQ;;1;3;;ICVQ;1;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: ILY
Column diameter: 0.25
Page 1
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide+
-Acrolein
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene+
-Toluene-d8
-2-Nitropropane+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
-Bromoform
-Styrene
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Naphthalene
-1,2,3-Trichlorobenzene

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InstruID : ms25.i
LabSampID : ICVQ

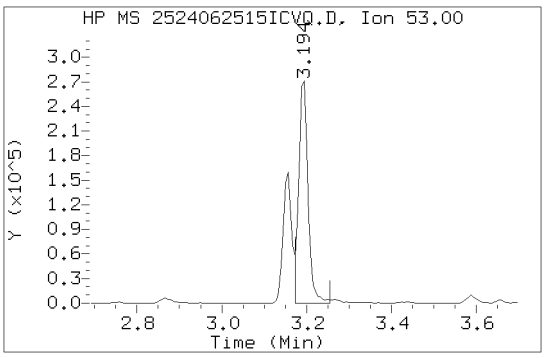
Acrylonitrile (107-13-1)

Reason Code: MP

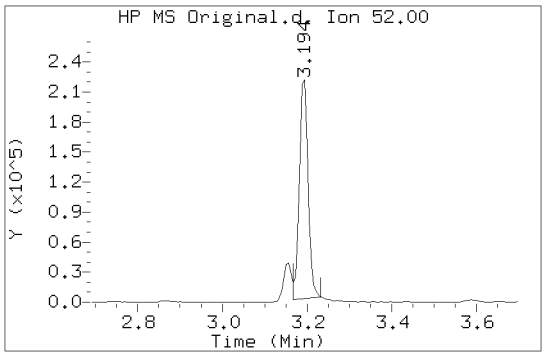
BEFORE
MASS
53
AREA
631381
HEIGHT
271232
25-Jun-2024
19:15



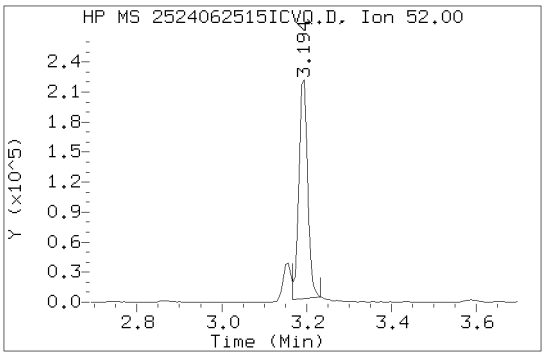
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MASS
53
AREA
419174
HEIGHT
270971
25-Jun-2024
19:30



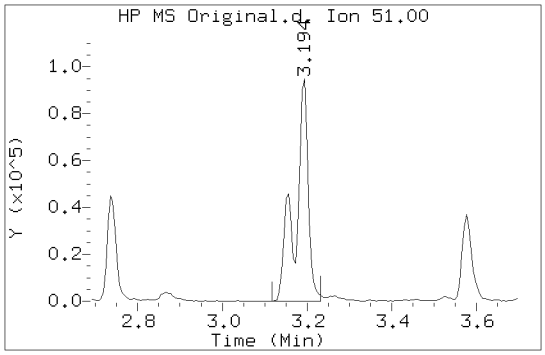
BEFORE
MASS
52
AREA
316707
HEIGHT
218548
25-Jun-2024
19:15



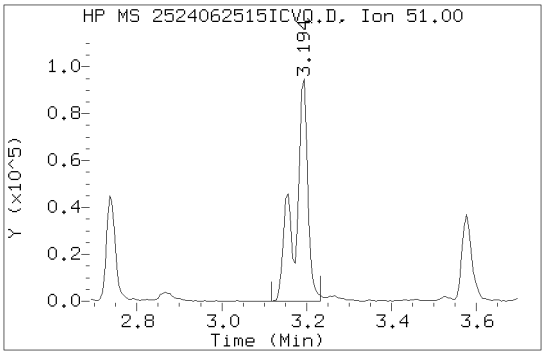
AFTER
MASS
52
AREA
316707
HEIGHT
218548
25-Jun-2024
19:30



BEFORE
MASS
51
AREA
202318
HEIGHT
94832
25-Jun-2024
19:15



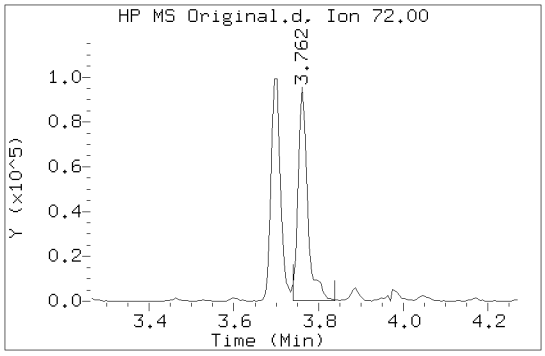
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51
AREA
202318
HEIGHT
94832
25-Jun-2024
19:30



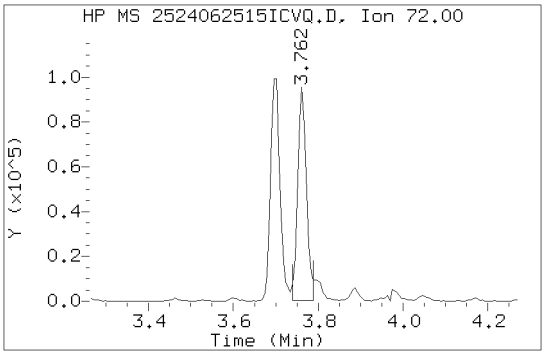
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
72
AREA
149078
HEIGHT
95221
25-Jun-2024
19:15



AFTER
MASS
72
AREA
137862
HEIGHT
95221
25-Jun-2024
19:30

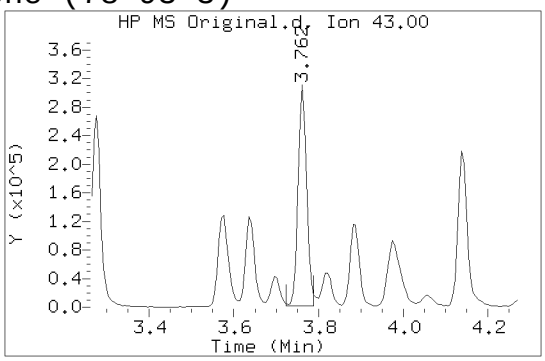


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LabSampID : ICVQ

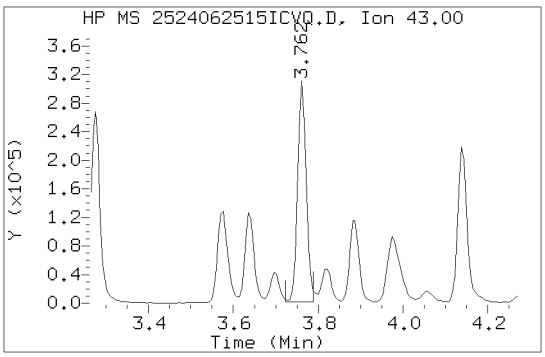
2-Butanone (78-93-3)

Reason Code: MP

BEFORE
MASS
43
AREA
438170
HEIGHT
309348
25-Jun-2024
19:15



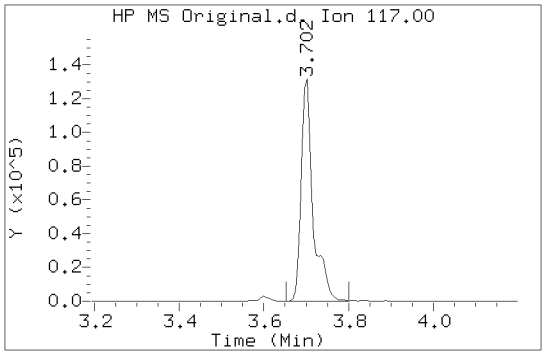
AFTER
MASS
43
AREA
438170
HEIGHT
309348
25-Jun-2024
19:30



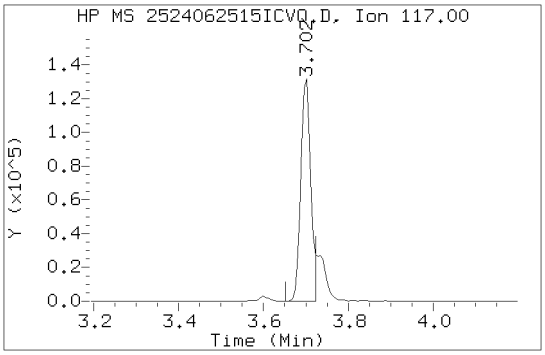
Carbon Tetrachloride (56-23-5)

Reason Code: MP

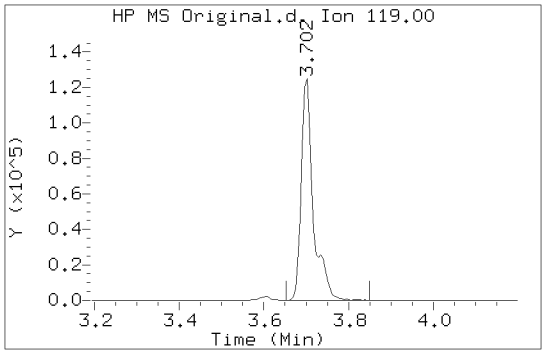
BEFORE
MASS
117
AREA
258670
HEIGHT
131712
25-Jun-2024
19:15



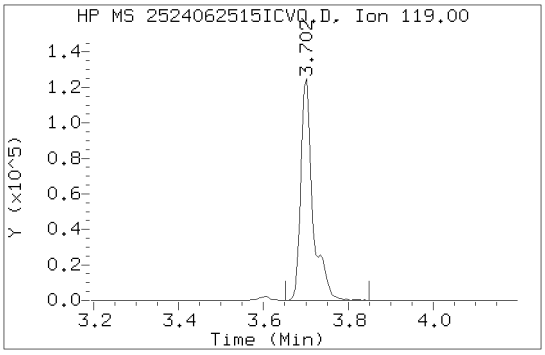
AFTER
MASS
117
AREA
217824
HEIGHT
131712
25-Jun-2024
19:30



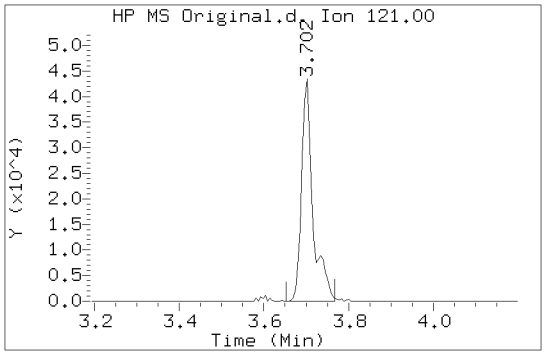
BEFORE
MASS
119
AREA
248093
HEIGHT
124944
25-Jun-2024
19:15



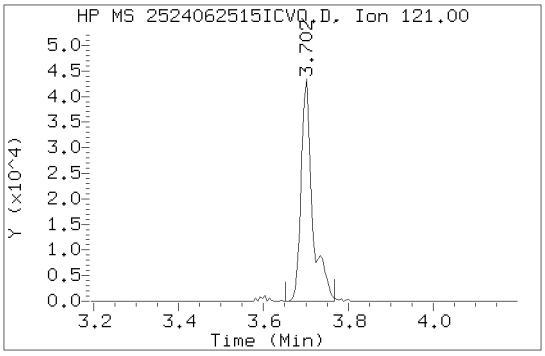
AFTER
MASS
119
AREA
248093
HEIGHT
124944
25-Jun-2024
19:30



BEFORE
MASS
121
AREA
81141
HEIGHT
43440
25-Jun-2024
19:15



AFTER
MASS
121
AREA
81141
HEIGHT
43440
25-Jun-2024
19:30

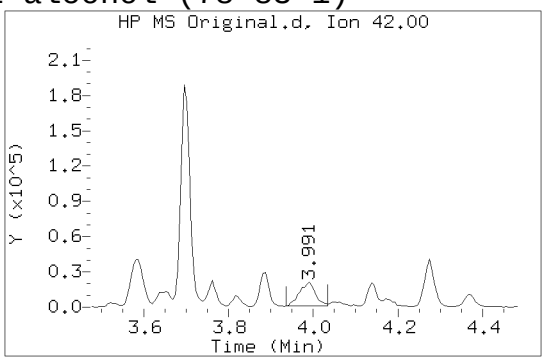


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LabSampID : ICVQ

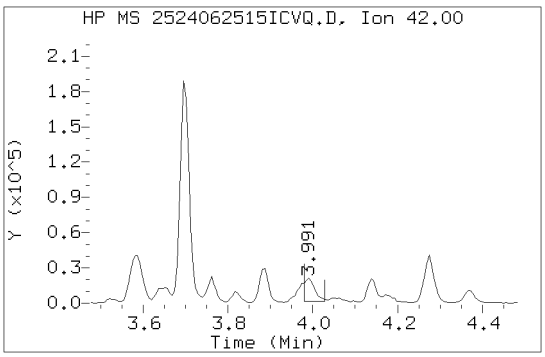
Isobutyl alcohol (78-83-1)

Reason Code: MP

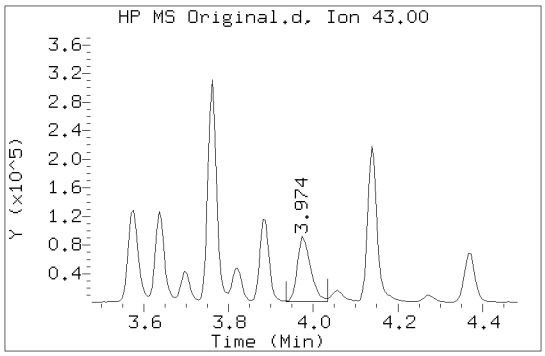
BEFORE
MASS
42
AREA
52636
HEIGHT
20290
25-Jun-2024
19:15



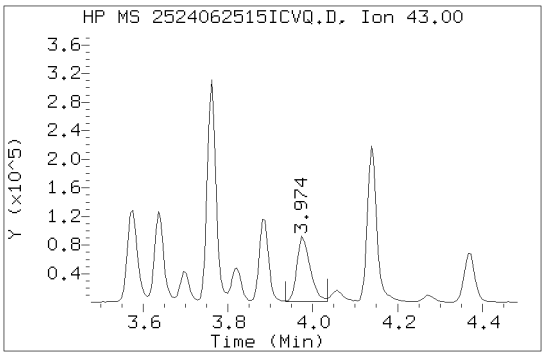
AFTER
MASS
42
AREA
34211
HEIGHT
19874
25-Jun-2024
19:30



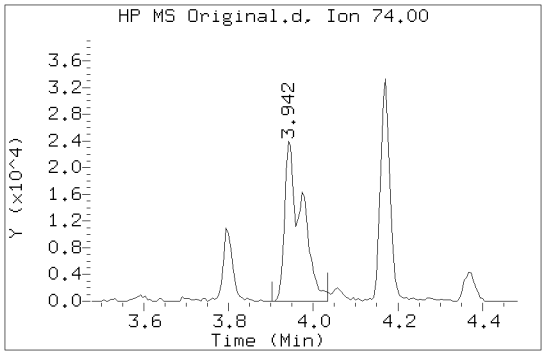
BEFORE
MASS
43
AREA
201412
HEIGHT
92297
25-Jun-2024
19:15



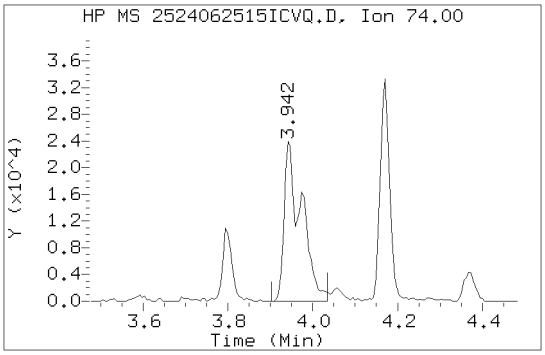
AFTER
MASS
43
AREA
201412
HEIGHT
92297
25-Jun-2024
19:30



BEFORE
MASS
74
AREA
68348
HEIGHT
23944
25-Jun-2024
19:15



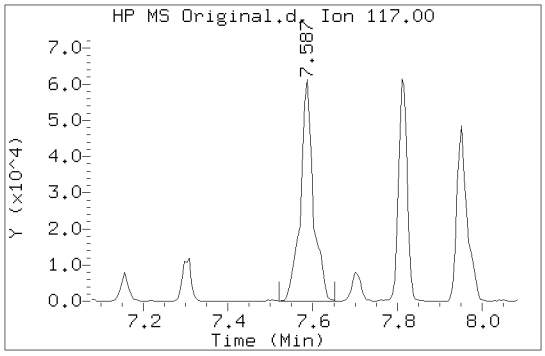
AFTER
MASS
74
AREA
68348
HEIGHT
23944
25-Jun-2024
19:30



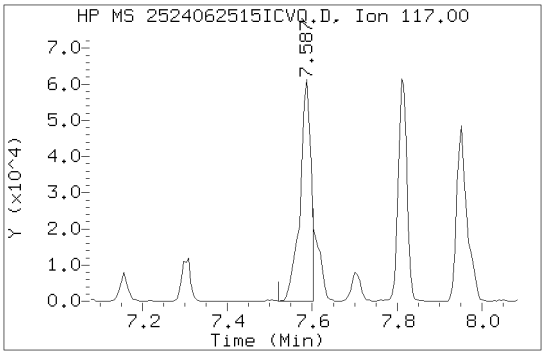
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
129320
HEIGHT
61344
25-Jun-2024
19:15



AFTER
MASS
117
AREA
109789
HEIGHT
61344
25-Jun-2024
19:30

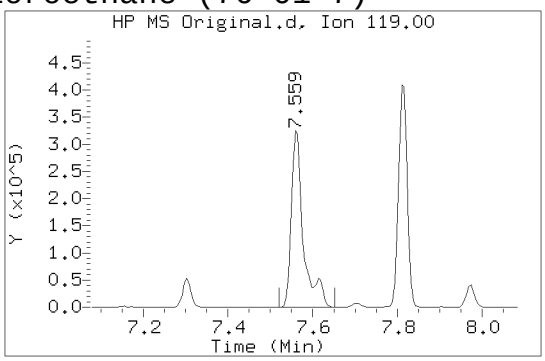


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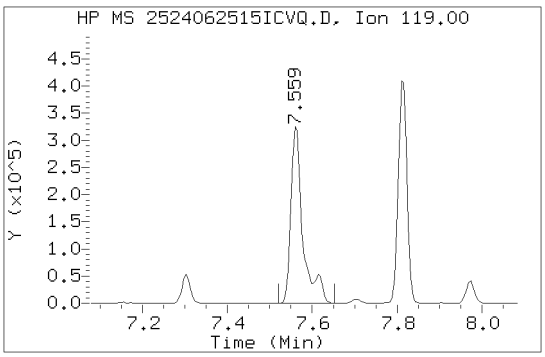
Pentachloroethane (76-01-7)

Reason Code: MP

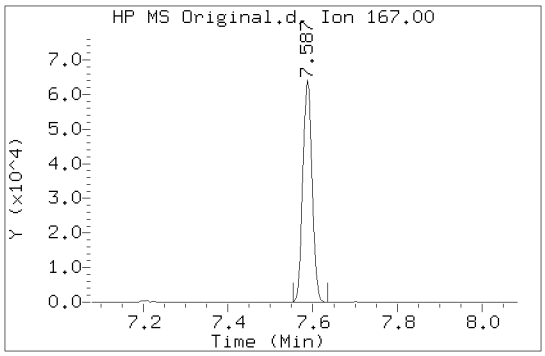
BEFORE
MASS
119
AREA
643920
HEIGHT
325696
25-Jun-2024
19:15



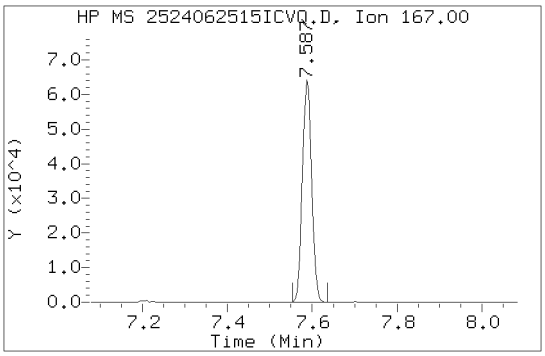
AFTER
MASS
119
AREA
643920
HEIGHT
325696
25-Jun-2024
19:30



BEFORE
MASS
167
AREA
98097
HEIGHT
64208
25-Jun-2024
19:15



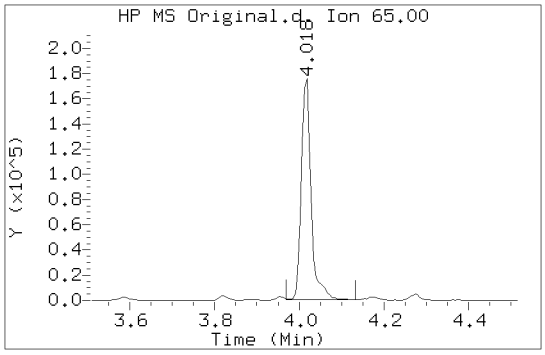
AFTER
MASS
167
AREA
98097
HEIGHT
64208
25-Jun-2024
19:30



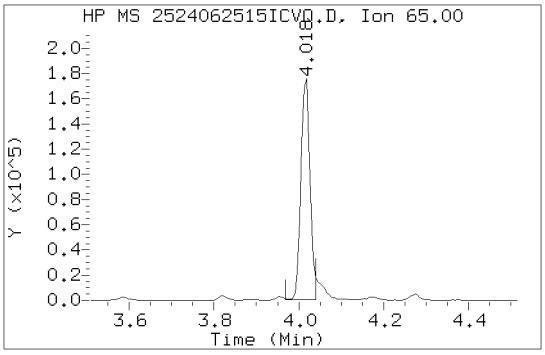
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

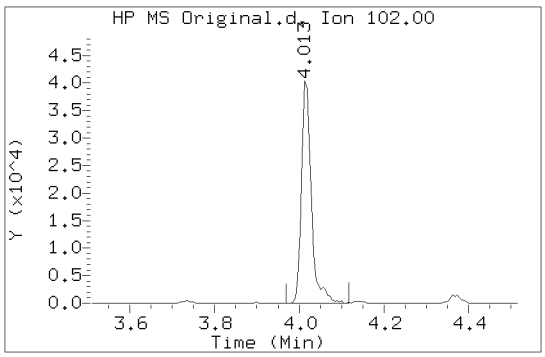
BEFORE
MASS
65
AREA
281156
HEIGHT
175231
25-Jun-2024
19:15



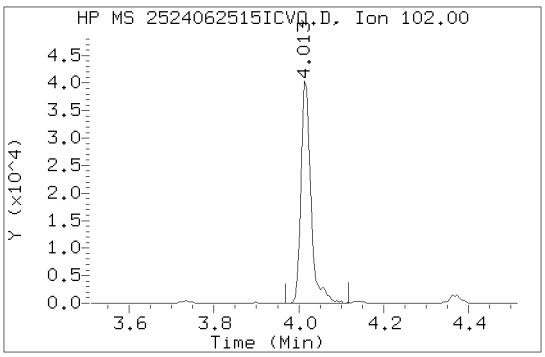
AFTER
MASS
65
AREA
262361
HEIGHT
175231
25-Jun-2024
19:30



BEFORE
MASS
102
AREA
66020
HEIGHT
40384
25-Jun-2024
19:15



AFTER
MASS
102
AREA
66020
HEIGHT
40384
25-Jun-2024
19:30



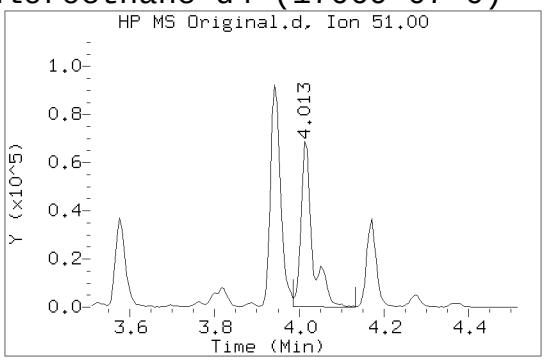
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Inj Date : 25-JUN-2024 15:08
InstruID : ms25.i
LabSampID : ICVQ

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

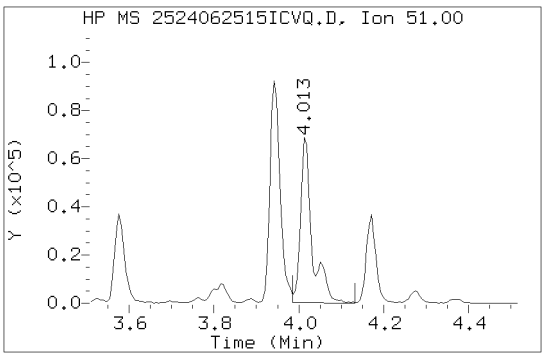
BEFORE

MASS
51
AREA
131671
HEIGHT
68658
25-Jun-2024
19:15



AFTER

MASS
51
AREA
131671
HEIGHT
68658
25-Jun-2024
19:30



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 19:30
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406251
Inj Date: 25-JUN-2024 15:08
Operator: ILY

There were no Unassigned peaks in this sample!

Data File: 2524062532.D Page 1
Report Date: 25-Jun-2024 21:56

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062532.D
Lab Smp Id: 1801
Inj Date : 25-JUN-2024 20:54
Operator : ILY Inst ID: ms25.i
Smp Info : 1801;;1;;;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 31 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	525294	45.8314	45.8314	
2 Chloromethane	50	1.644	1.645	(0.394)	479677	47.9181	47.9181	
3 Vinyl Chloride	62	1.704	1.705	(0.409)	607277	46.8693	46.8693	
4 Bromomethane	94	1.922	1.923	(0.461)	329775	53.2020	53.2020	
5 Chloroethane	64	2.004	2.005	(0.481)	405653	46.3273	46.3273	
6 Pentane	41	2.092	2.092	(0.502)	324450	39.9703	39.9703	
7 Trichlorofluoromethane	101	2.097	2.103	(0.503)	810436	45.6648	45.6648	
8 Dichlorofluoromethane	67	2.124	2.125	(0.509)	867118	52.8033	52.8033	
9 Ethyl Ether	74	2.277	2.278	(0.546)	272722	54.6128	54.6128	
10 1,1-Dichloroethene	61	2.414	2.409	(0.579)	508553	51.0347	51.0347	
12 Carbon Disulfide	76	2.446	2.447	(0.587)	1095807	50.9771	50.9771	
11 Freon 113	101	2.424	2.425	(0.581)	337214	48.1126	48.1126	
13 Iodomethane	127	2.506	2.507	(0.601)	181958	47.1306	47.1306	
14 Acrolein	56	2.599	2.600	(0.623)	408273	254.008	254.008	
16 3-Chloro-1-propene	41	2.681	2.676	(0.643)	437614	50.3967	50.3967	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	131858	250.983	250.983	
17 Methylene Chloride	84	2.741	2.741	(0.657)	438346	53.8528	53.8528	
18 Acetone	58	2.757	2.752	(0.661)	224851	249.331	249.331	
19 Methyl acetate	74	2.817	2.812	(0.676)	101212	54.6756	54.6756	
20 trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	518305	53.1055	53.1055	
21 Hexane	57	2.866	2.867	(0.687)	711782	43.8068	43.8068	

Data File: 2524062532.D Page 2
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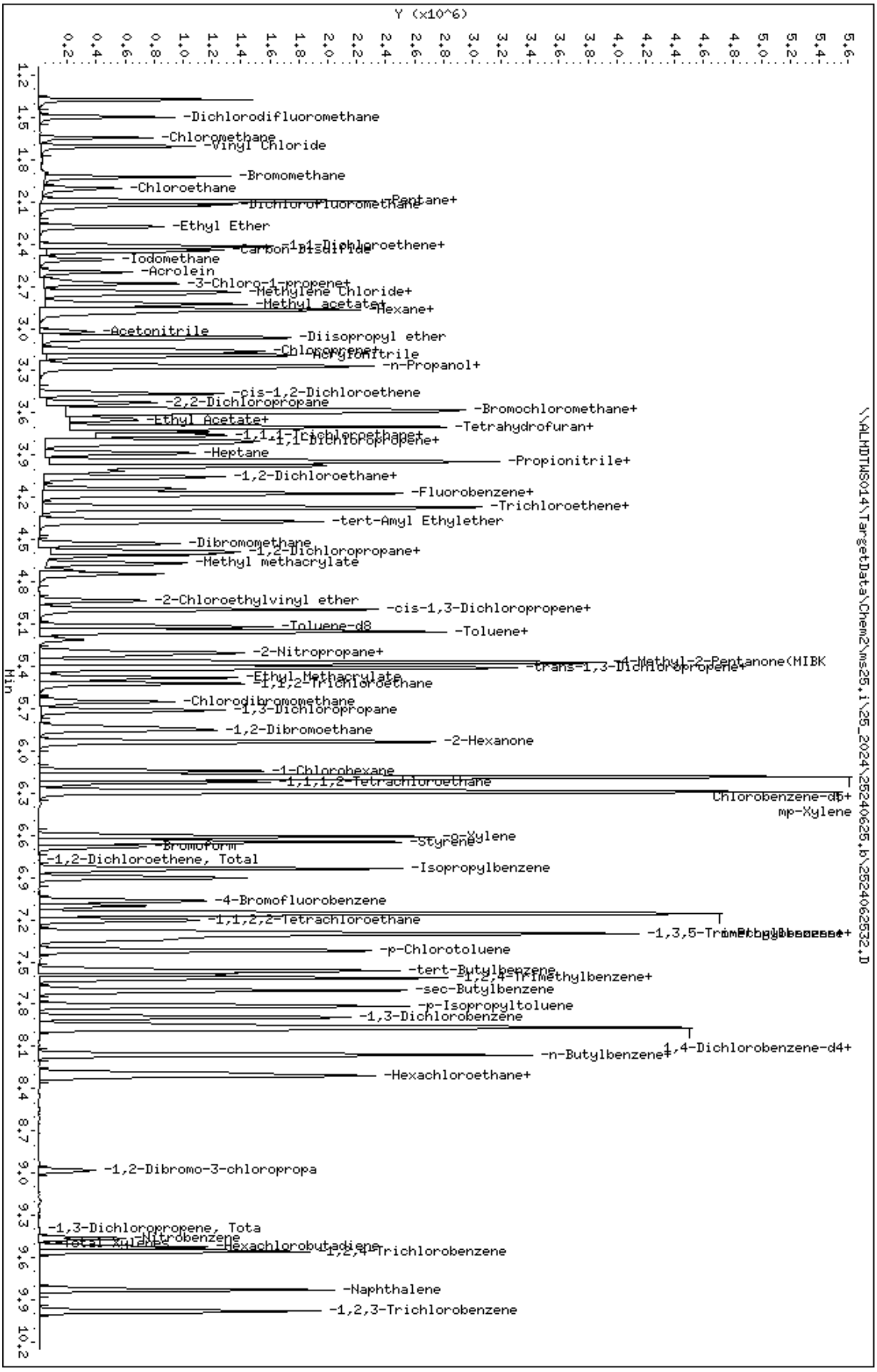
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1267674	50.6252	50.6252	
	23 tert.- Butyl Alcohol	59	2.894	2.889	(0.694)	246956	274.312	274.312	
	24 Acetonitrile	41	3.019	3.020	(0.724)	280006	277.663	277.663	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	1203908	55.5801	55.5801	
	26 Chloroprene	53	3.156	3.156	(0.757)	591465	53.8591	53.8591	
	27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	713253	53.6411	53.6411	
	28 Acrylonitrile	53	3.188	3.194	(0.765)	981416	283.404	283.404(M)	MP
	30 n-Propanol	41	3.265	3.260	(0.783)	218709	512.517	512.517	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1299982	56.5071	56.5071	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	105989	46.7240	46.7240(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.462	(0.830)	531630	53.7214	53.7214	
	33 2,2-Dichloropropane	77	3.527	3.522	(0.846)	446069	42.0914	42.0914	
M	100 1,2-Dichloroethene, Total	61				1049935	106.827	106.827	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	242746	56.8813	56.8813	
	35 Cyclohexane	84	3.587	3.587	(0.860)	585418	49.3020	49.3020	
	36 Chloroform	83	3.603	3.598	(0.864)	784870	54.6784	54.6784	
	37 Ethyl acetate	43	3.636	3.642	(0.872)	429365	49.8859	49.8859	
	38 Methyl acrylate	55	3.652	3.653	(0.876)	441224	55.3689	55.3689	
	39 Carbon Tetrachloride	117	3.701	3.696	(0.887)	499575	47.3403	47.3403(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	658634	270.358	270.358	
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	238727	29.2088	29.2088	
	42 1,1,1-Trichloroethane	97	3.734	3.740	(0.895)	596876	53.4226	53.4226	
	43 2-Butanone	72	3.761	3.767	(0.902)	313984	266.609	266.609(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	538663	50.9692	50.9692	
	45 1-Chlorobutane	41	3.821	3.822	(0.916)	338956	49.8736	49.8736	
	46 Heptane	71	3.887	3.887	(0.932)	241675	39.3605	39.3605	
	48 Propionitrile	54	3.941	3.942	(0.945)	370497	282.534	282.534	
	47 Benzene	78	3.941	3.942	(0.945)	1660781	51.1268	51.1268	
	49 Methacrylonitrile	67	3.952	3.953	(0.948)	216882	55.1721	55.1721	
	50 tert-amyl methyl Ether	73	3.974	3.975	(0.953)	1268373	57.1151	57.1151	
$	51 1,2-Dichloroethane-d4	65	4.018	4.013	(0.963)	252196	29.2716	29.2716(QM)	MP
	54 Isobutyl alcohol	42	3.990	3.980	(0.957)	112290	560.978	560.978(QM)	MP
	52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	541498	53.0284	53.0284	
	53 tert-Amyl Alcohol	59	4.056	4.062	(0.973)	181059	262.129	262.129	
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1035841	30.0000		
	56 Diisobutylene	57	4.176	4.171	(1.001)	892825	44.3524	44.3524	
	57 Trichloroethene	95	4.269	4.269	(1.024)	414129	50.3734	50.3734	
	58 Methyl cyclohexane	83	4.274	4.275	(0.692)	612081	48.8072	48.8072	
	59 tert-Amyl Ethylether	59	4.367	4.373	(1.047)	970569	50.1385	50.1385	
	60 Dibromomethane	93	4.525	4.526	(1.085)	288229	55.4586	55.4586	
	61 1,2-Dichloropropane	63	4.585	4.586	(1.099)	427891	54.7311	54.7311	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	537769	49.4596	49.4596	
	63 Methyl methacrylate	41	4.667	4.662	(1.119)	355887	57.5178	57.5178	
	65 2-Chloroethylvinyl ether	63	4.934	4.935	(1.183)	273371	47.7950	47.7950	
	66 cis-1,3-Dichloropropene	75	4.994	4.995	(0.809)	665996	50.9131	50.9131	
	67 Octane	85	5.000	5.000	(0.810)	199779	42.0144	42.0144	
$	68 Toluene-d8	98	5.120	5.120	(0.829)	933963	30.5118	30.5118	
	69 Toluene	92	5.153	5.153	(0.835)	1004603	51.7805	51.7805	
	70 Chloroacetonitrile	75	5.213	5.208	(0.844)	135807	280.797	280.797	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	543687	255.508	255.508	
	72 1,1-Dichloro-2-propanone	63	5.316	5.317	(0.861)	52704	256.192	256.192(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2153105	280.899	280.899	
	75 trans-1,3-Dichloropropene	75	5.409	5.410	(0.876)	612827	50.5932	50.5932	
	74 Tetrachloroethene	164	5.409	5.410	(0.876)	399230	56.5110	56.5110	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.481	(0.888)	626868	53.5835	53.5835	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	339266	56.9151	56.9151	
	78 Chlorodibromomethane	129	5.649	5.650	(0.915)	440113	52.0694	52.0694	
	79 1,3-Dichloropropane	76	5.715	5.710	(0.926)	686667	58.3036	58.3036	
	80 1,2-Dibromoethane	107	5.829	5.830	(0.944)	422049	53.1777	53.1777	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1441053	274.053	274.053	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	526774	51.6113	51.6113	
*	83 Chlorobenzene-d5	82	6.173	6.174	(1.000)	386622	30.0000		
	85 Ethylbenzene	106	6.189	6.190	(1.003)	584392	50.5549	50.5549	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	1118023	56.5483	56.5483	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.223	(1.008)	390118	52.2450	52.2450	
	87 mp-Xylene	106	6.288	6.288	(1.019)	1403951	102.305	102.305	
M	120 1,3-Dichloropropene, Total	75				1278823	101.506	101.506	
	88 o-Xylene	106	6.610	6.610	(1.071)	674772	51.2855	51.2855	
	89 Styrene	104	6.648	6.648	(0.836)	1109684	52.2144	52.2144	
	90 Bromoform	173	6.680	6.686	(0.840)	300814	50.1219	50.1219	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1511311	51.0241	51.0241	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	310618	31.2554	31.2554	
M	121 TOTAL XYLENES	106				2078723	153.590	153.590	
	94 n-Propylbenzene	120	7.155	7.156	(0.900)	467813	53.8641	53.8641	
	93 Bromobenzene	156	7.155	7.156	(0.900)	475757	56.0151	56.0151	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.205	(0.906)	494856	58.6199	58.6199	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	1315592	54.4278	54.4278	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1282789	56.1388	56.1388	
	98 1,2,3-Trichloropropane	110	7.324	7.325	(0.921)	154034	56.5737	56.5737	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.341	(0.924)	124784	48.1811	48.1811(Q)	
	101 p-Chlorotoluene	91	7.417	7.418	(0.933)	1158317	55.9641	55.9641	
	102 tert-Butylbenzene	134	7.564	7.559	(0.951)	322322	55.7554	55.7554	
	103 Pentachloroethane	117	7.586	7.581	(0.954)	268063	46.1989	46.1989(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1320277	51.5885	51.5885	
	105 sec-Butylbenzene	105	7.701	7.707	(0.968)	1665313	55.7445	55.7445	
	106 p-Isopropyltoluene	134	7.815	7.816	(0.983)	370347	54.1351	54.1351	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	799382	55.8659	55.8659	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	359232	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	813676	54.5545	54.5545	
	111 n-Butylbenzene	134	8.159	8.160	(1.026)	324917	50.8228	50.8228(Q)	
	110 Benzyl Chloride	126	8.159	8.160	(1.026)	121588	34.1616	34.1616(Q)	
	112 Hexachloroethane	117	8.290	8.285	(1.043)	246708	48.1401	48.1401	
	113 1,2-Dichlorobenzene	146	8.312	8.311	(1.045)	780850	57.2885	57.2885	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.984	(1.130)	82002	50.7864	50.7864	
	115 Nitrobenzene	77	9.463	9.464	(1.190)	250676	476.139	476.139	
	116 Hexachlorobutadiene	225	9.529	9.524	(1.198)	204556	45.3862	45.3862	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	503609	55.7932	55.7932	
	118 Naphthalene	128	9.829	9.829	(1.236)	1345077	50.6923	50.6923	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	498818	49.1889	49.1889	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

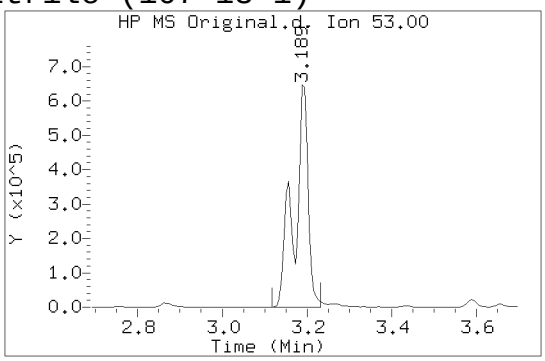

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Ethyl Ether
-Iodomethane
-Acrolein
-Methylene Chloride+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,2-Dibromoethane
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-1-Chlorohexane
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-1,3-Dichlorobenzene
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1,4-Dichlorobenzene-d4+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
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-Nitrobenzene
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
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-1,2,3-Trichlorobenzene
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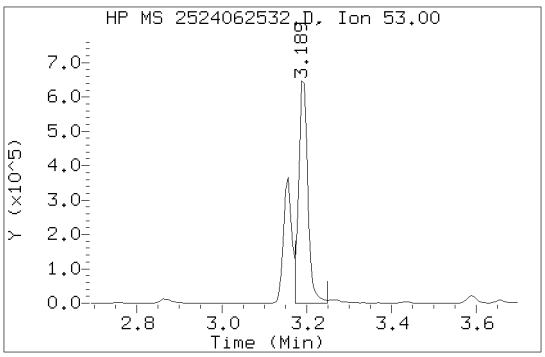
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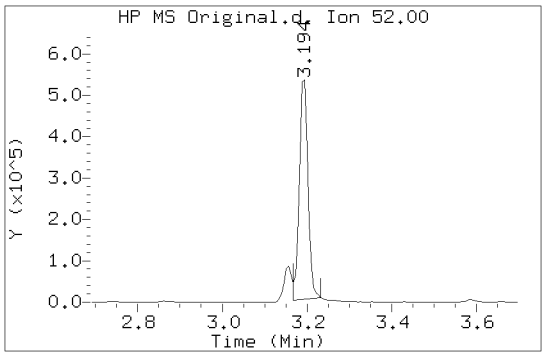
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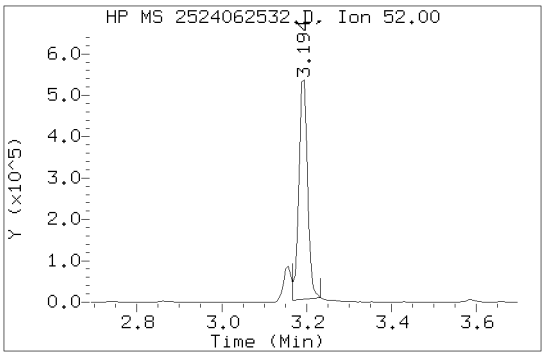
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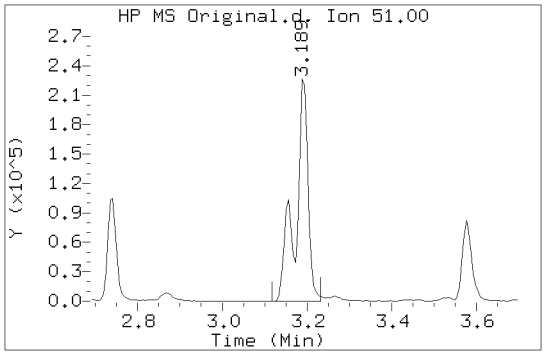
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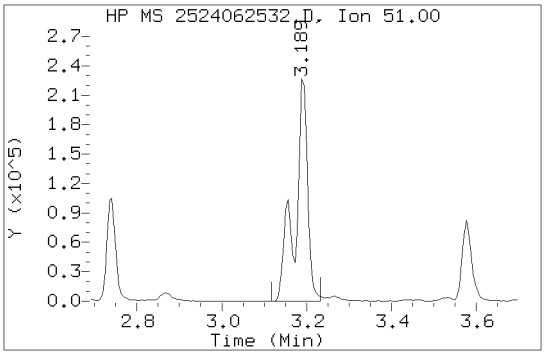
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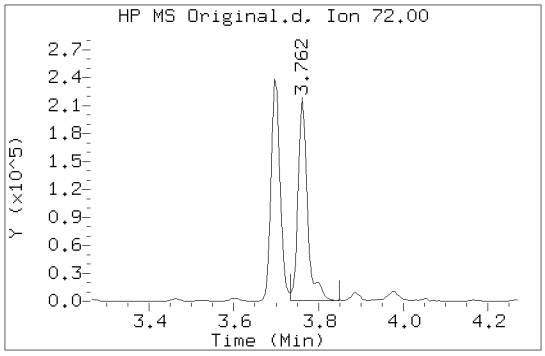
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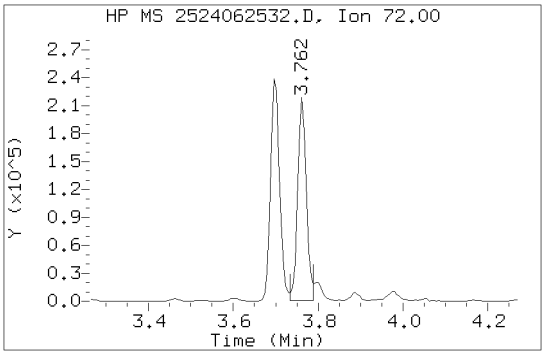
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Reason Code: MP

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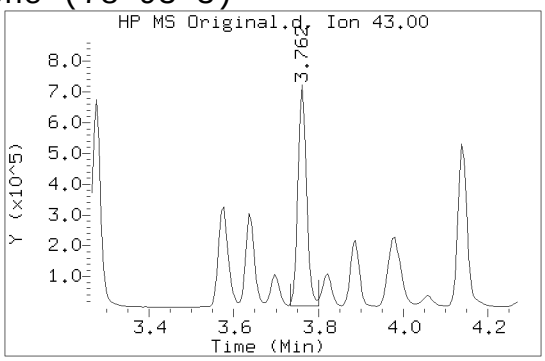


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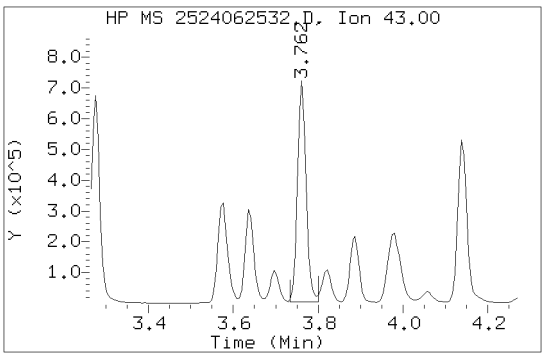
2-Butanone (78-93-3)

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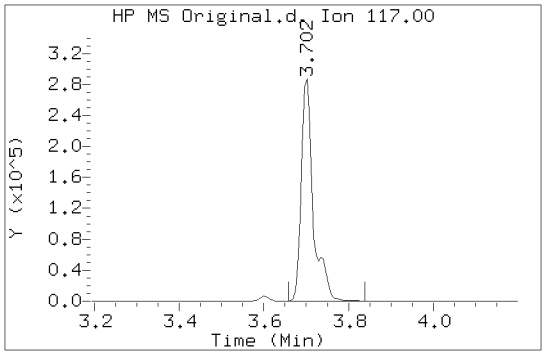
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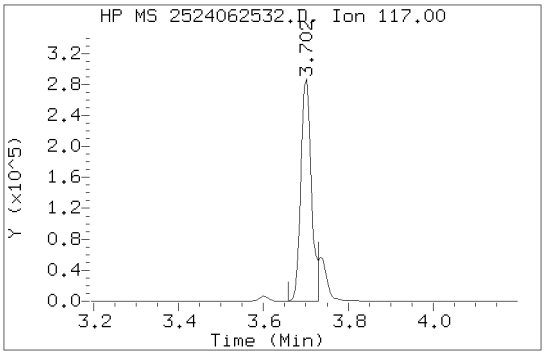
Carbon Tetrachloride (56-23-5)

Reason Code: MP

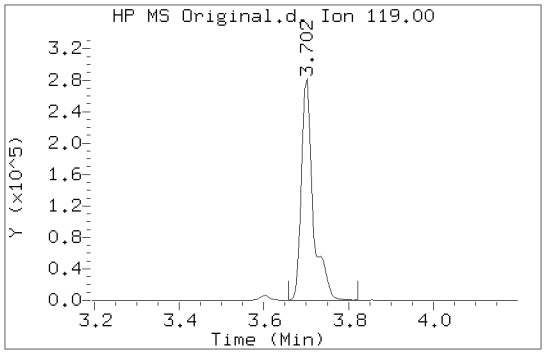
BEFORE
MASS
117
AREA
569738
HEIGHT
287168
25-Jun-2024
21:54



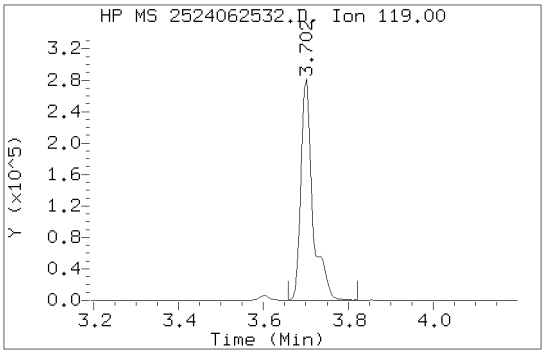
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117
AREA
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HEIGHT
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25-Jun-2024
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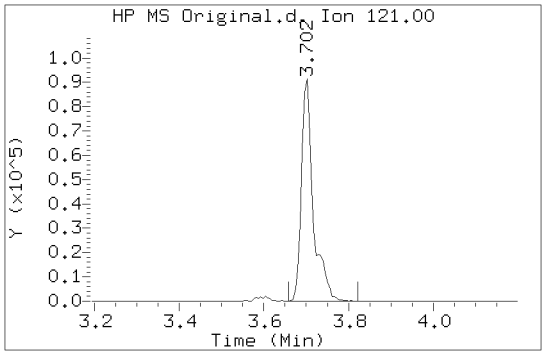
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MASS
119
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25-Jun-2024
21:54



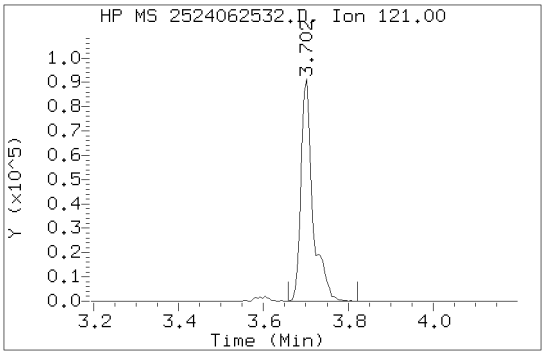
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119
AREA
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HEIGHT
281920
25-Jun-2024
21:56



BEFORE
MASS
121
AREA
178729
HEIGHT
91408
25-Jun-2024
21:54



AFTER
MASS
121
AREA
178729
HEIGHT
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25-Jun-2024
21:56

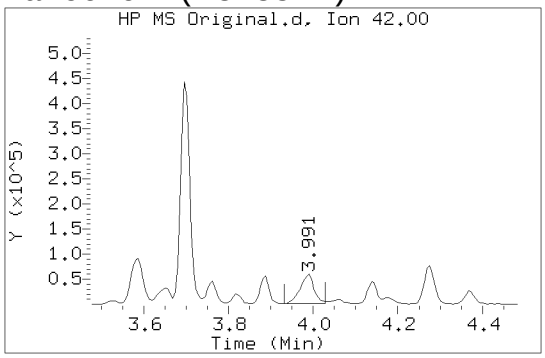


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LabSampID : 1801

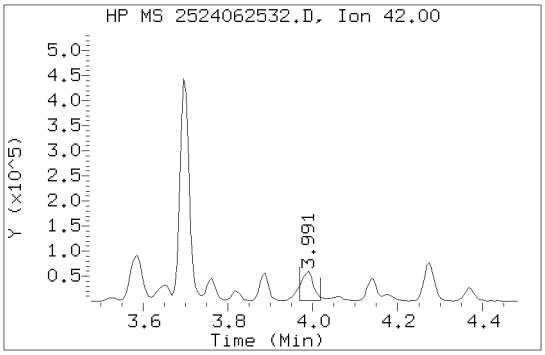
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Reason Code: MP

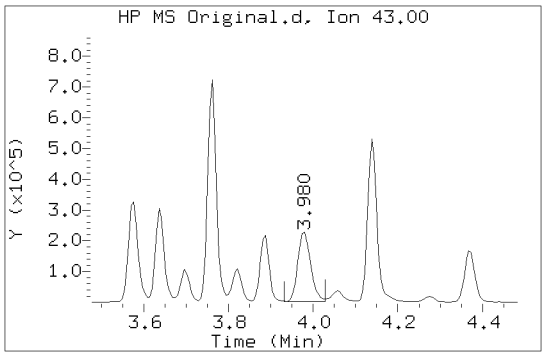
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MASS
42
AREA
135226
HEIGHT
58796
25-Jun-2024
21:54



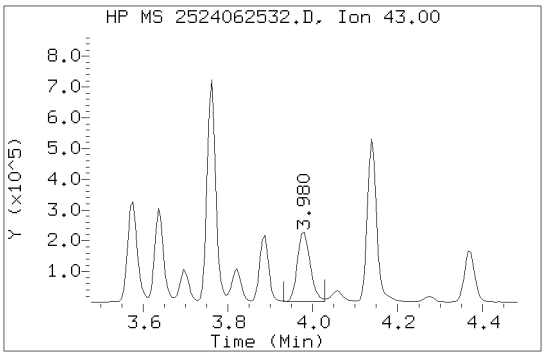
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HEIGHT
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25-Jun-2024
21:56



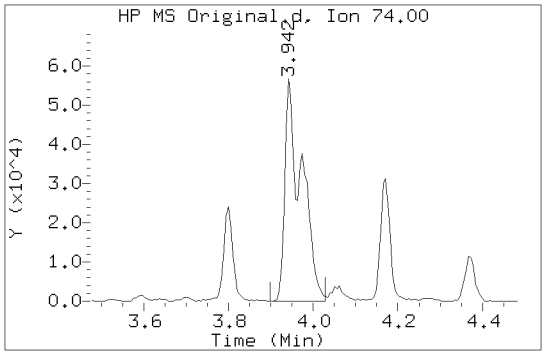
BEFORE
MASS
43
AREA
483601
HEIGHT
225604
25-Jun-2024
21:54



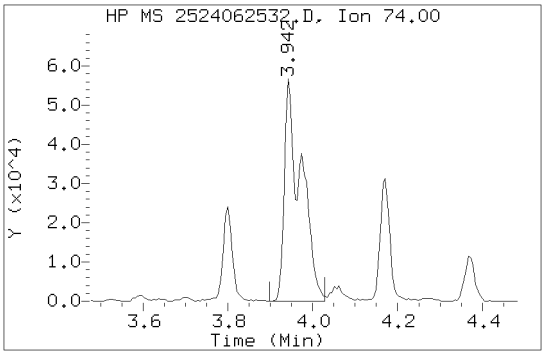
AFTER
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43
AREA
483601
HEIGHT
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25-Jun-2024
21:56



BEFORE
MASS
74
AREA
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HEIGHT
56712
25-Jun-2024
21:54



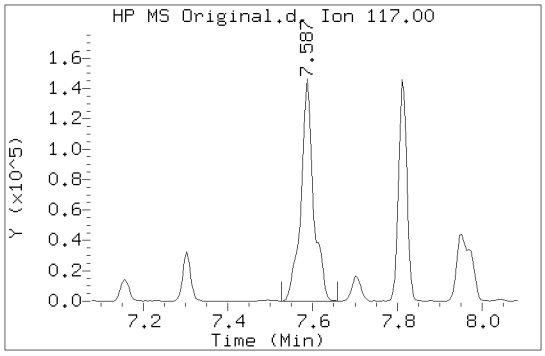
AFTER
MASS
74
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156027
HEIGHT
56712
25-Jun-2024
21:56



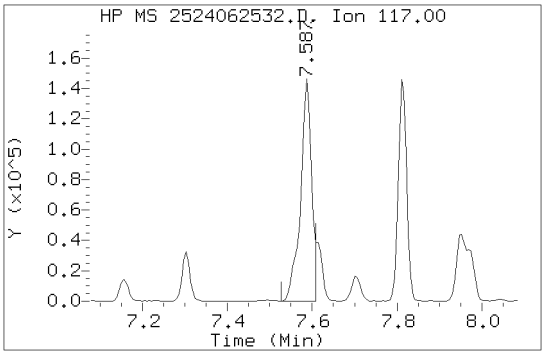
Pentachloroethane (76-01-7)

Reason Code: MP

BEFORE
MASS
117
AREA
302592
HEIGHT
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25-Jun-2024
21:54



AFTER
MASS
117
AREA
268063
HEIGHT
146304
25-Jun-2024
21:56

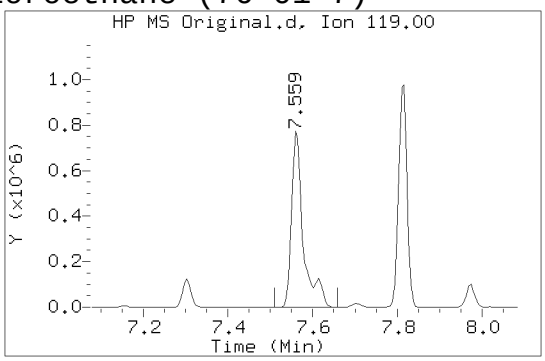


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Inj Date : 25-JUN-2024 20:54
InstruID : ms25.i
LabSampID : 1801

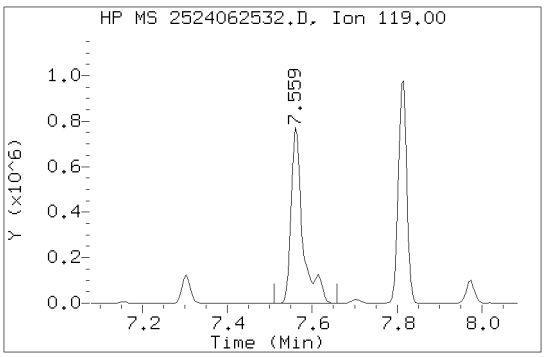
Pentachloroethane (76-01-7)

Reason Code: MP

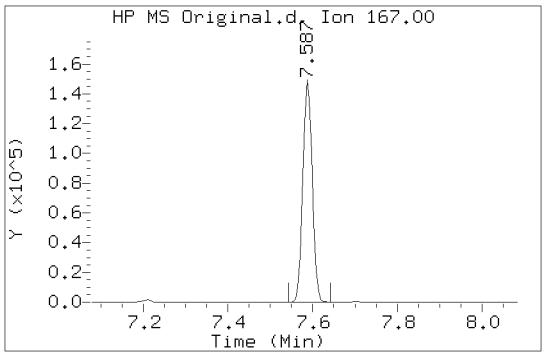
BEFORE
MASS
119
AREA
1497973
HEIGHT
773632
25-Jun-2024
21:54



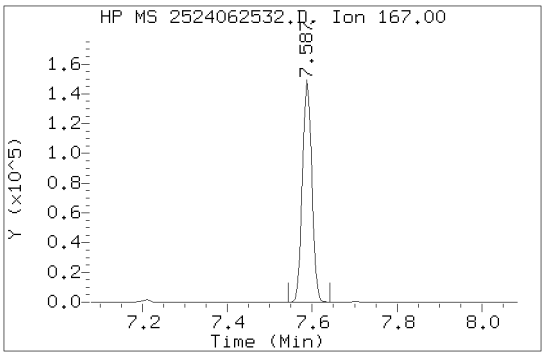
AFTER
MASS
119
AREA
1497973
HEIGHT
773632
25-Jun-2024
21:56



BEFORE
MASS
167
AREA
231107
HEIGHT
149376
25-Jun-2024
21:54



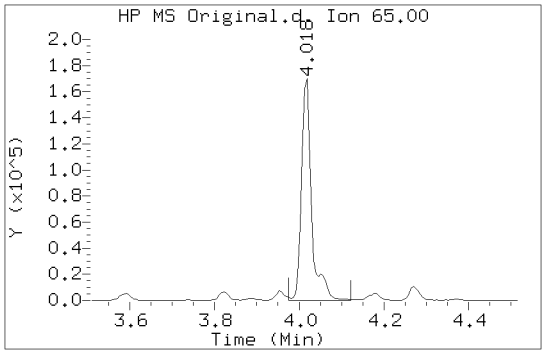
AFTER
MASS
167
AREA
231107
HEIGHT
149376
25-Jun-2024
21:56



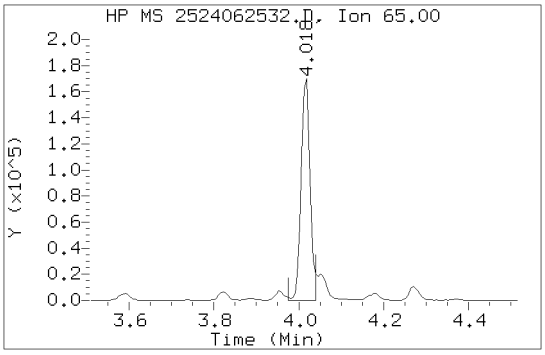
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

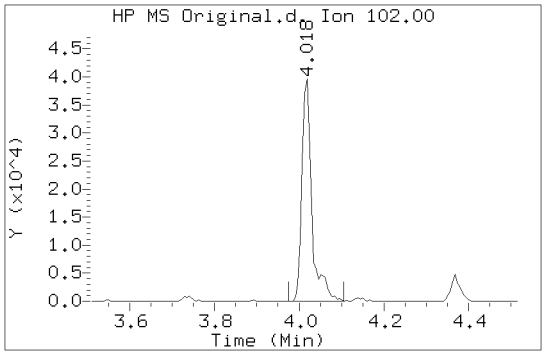
BEFORE
MASS
65
AREA
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HEIGHT
169984
25-Jun-2024
21:54



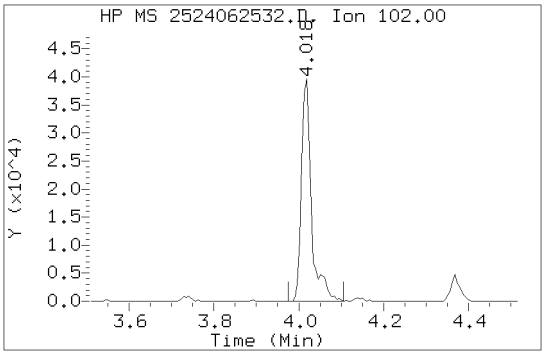
AFTER
MASS
65
AREA
252196
HEIGHT
169984
25-Jun-2024
21:56



BEFORE
MASS
102
AREA
65426
HEIGHT
39640
25-Jun-2024
21:54



AFTER
MASS
102
AREA
65426
HEIGHT
39640
25-Jun-2024
21:56



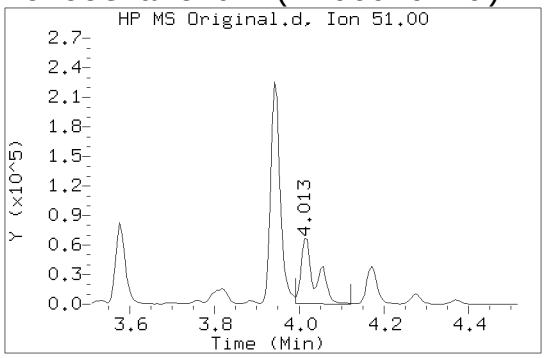
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Inj Date : 25-JUN-2024 20:54
InstruID : ms25.i
LabSampID : 1801

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

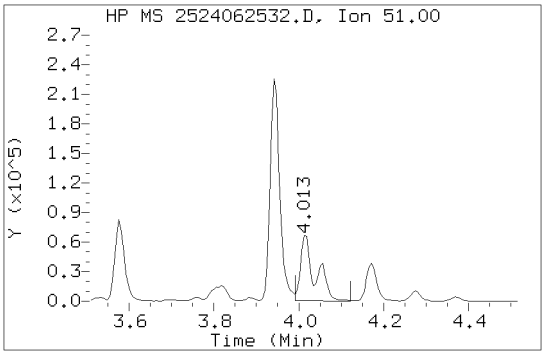
BEFORE

MASS
51
AREA
162769
HEIGHT
66260
25-Jun-2024
21:54



AFTER

MASS
51
AREA
162769
HEIGHT
66260
25-Jun-2024
21:56



UNASSIGNED PEAK REPORT

Report Date: 06/25/2024 21:56
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240625.b/252406253
Inj Date: 25-JUN-2024 20:54
Operator: ILY

There were no Unassigned peaks in this sample!

right solutions.
right partner.

Raw Data 25240627A

Volatiles by EPA 8260D

Workorder

3366036

Client

ALS Houston

Project

AHH133|HS24061218

07/09/2024

www.alsglobal.com

Data File: 2524062750.D Page 1
Report Date: 27-Jun-2024 18:51

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062750.D
Lab Smp Id: 1000
Inj Date : 27-JUN-2024 18:40
Operator : BST Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAMDTW7018

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
7.057	8.129	(0.000)	95	84656			0.00- 100.00	100.00
7.057	8.129	(0.000)	50	14893			15.00- 40.00	17.59
7.057	8.129	(0.000)	75	39856			30.00- 60.00	47.08
7.057	8.129	(0.000)	96	5539			5.00- 9.00	6.54
7.057	8.129	(0.000)	173	358			0.00- 2.00	0.48
7.057	8.129	(0.000)	174	73832			50.00- 0.00	87.21
7.057	8.129	(0.000)	175	6023			5.00- 9.00	8.16
7.057	8.129	(0.000)	176	71456			95.00- 101.00	96.78
7.057	8.129	(0.000)	177	4419			5.00- 9.00	6.18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.59
75	30.00 - 60.00% of mass 95	47.08
96	5.00 - 9.00% of mass 95	6.54
173	Less than 2.00% of mass 174	0.42 (0.48)
174	Greater than 50.00% of mass 95	87.21
175	5.00 - 9.00% of mass 174	7.11 (8.16)
176	95.00 - 101.00% of mass 174	84.41 (96.78)
177	5.00 - 9.00% of mass 176	5.22 (6.18)

Data File: 2524062750.D
Spectrum: Avg. Scans 1084-1086 (7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	547	63.00	3107	88.00	3052	130.00	223
37.00	3684	64.00	119	91.00	331	135.00	237
38.00	3112	65.00	58	92.00	2388	137.00	232
39.00	1422	67.00	222	93.00	3371	141.00	840
41.00	257	68.00	8426	94.00	9223	142.00	127
43.00	175	69.00	8579	95.00	84656	143.00	911
44.00	272	70.00	593	96.00	5539	146.00	201
45.00	686	71.00	60	97.00	333	148.00	109
47.00	964	72.00	619	104.00	495	152.00	63
48.00	309	73.00	3454	105.00	147	154.00	50
49.00	3469	74.00	13701	106.00	440	155.00	137
50.00	14893	75.00	39856	107.00	69	170.00	58
51.00	4788	76.00	3261	111.00	132	171.00	105
52.00	182	77.00	671	115.00	180	172.00	90
55.00	295	78.00	463	116.00	153	173.00	358
56.00	1331	79.00	2840	117.00	416	174.00	73832
57.00	2378	80.00	752	118.00	485	175.00	6023
58.00	61	81.00	3008	119.00	462	176.00	71456
60.00	821	82.00	711	127.00	53	177.00	4419
61.00	3701	86.00	73	128.00	250	178.00	50
62.00	3396	87.00	3552	129.00	214		

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062750.D

Page 1

Date : 27-JUN-2024 18:40

Client ID:

Instrument: ms25.i

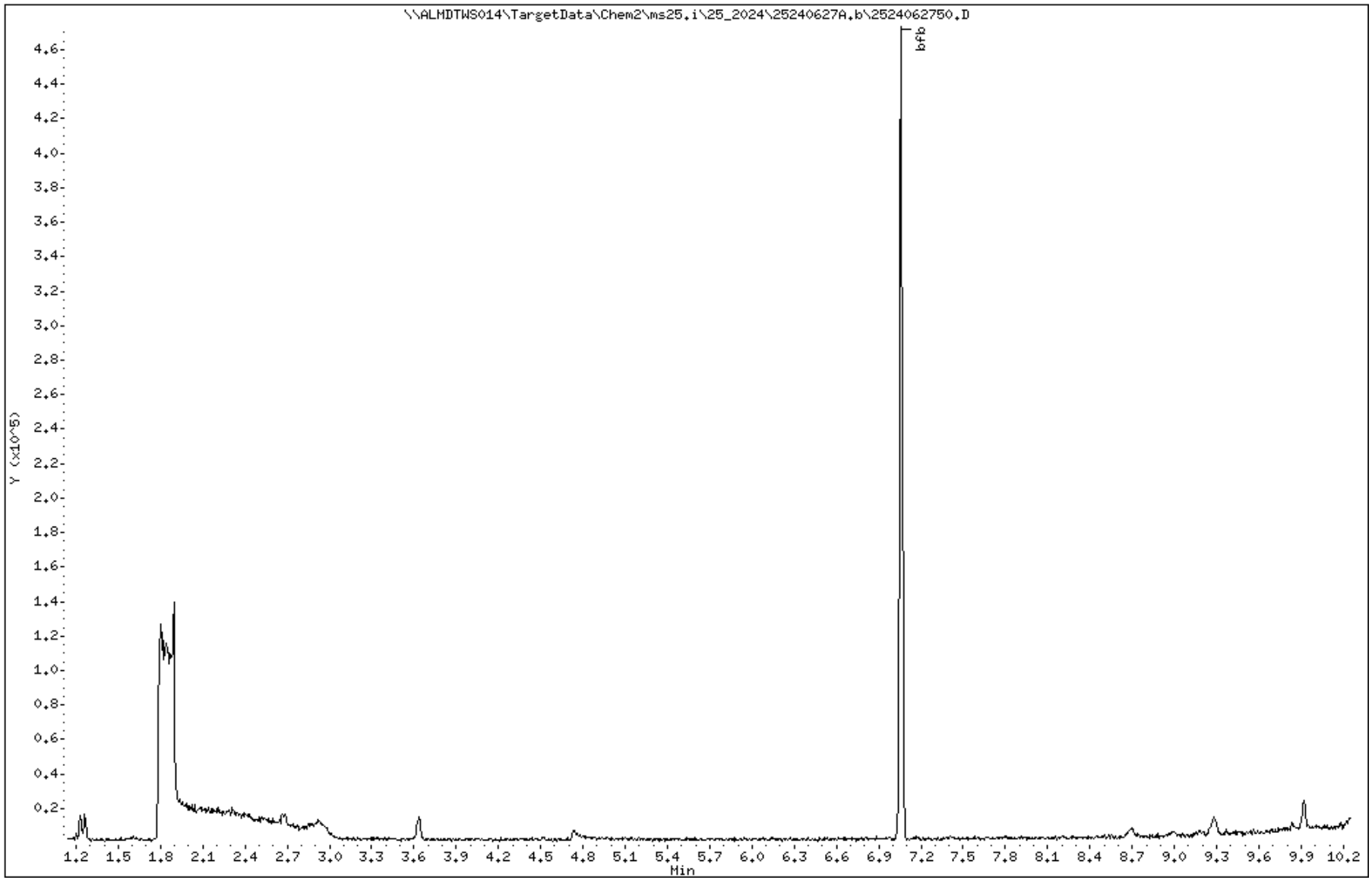
Sample Info: 1000

Volume Injected (uL): 1.0

Operator: BST

Column phase: DB624

Column diameter: 0.53



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Inj Date : 27-JUN-2024 18:40
InstruID : ms25.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2524062751.D Page 1
Report Date: 28-Jun-2024 15:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062751.D
Lab Smp Id: 1800
Inj Date : 27-JUN-2024 19:08
Operator : BST Inst ID: ms25.i
Smp Info : 1800;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: NAMDTW7018

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	588569	50.0000	44.9699	
2 Chloromethane	50	1.644	1.644	(0.394)	581144	50.0000	50.8463	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	704104	50.0000	47.5886	
4 Bromomethane	94	1.923	1.923	(0.461)	382386	50.0000	54.0296	
5 Chloroethane	64	2.004	2.004	(0.481)	501176	50.0000	50.1482	
6 Pentane	41	2.092	2.092	(0.502)	378864	50.0000	40.8970	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	915619	50.0000	45.1796	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	996250	50.0000	53.1271	
9 Ethyl Ether	74	2.277	2.277	(0.546)	307704	50.0000	53.9600	
10 1,1-Dichloroethene	61	2.414	2.414	(0.579)	573103	50.0000	50.3648	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	1282798	50.0000	52.2594	
11 Freon 113	101	2.424	2.424	(0.581)	369140	50.0000	46.1221	
13 Iodomethane	127	2.506	2.506	(0.601)	230606	50.0000	52.2517	
14 Acrolein	56	2.599	2.599	(0.623)	484639	250.000	264.046	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	501820	50.0000	50.6078	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	142316	250.000	237.048	
17 Methylene Chloride	84	2.741	2.741	(0.657)	493568	50.0000	53.1010	
18 Acetone	58	2.752	2.752	(0.660)	249065	250.000	241.857	
19 Methyl acetate	74	2.812	2.812	(0.674)	105189	50.0000	49.7239	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	600454	50.0000	53.8763	
21 Hexane	57	2.866	2.866	(0.687)	832329	50.0000	44.8665	

Data File: 2524062751.D
Report Date: 28-Jun-2024 15:11

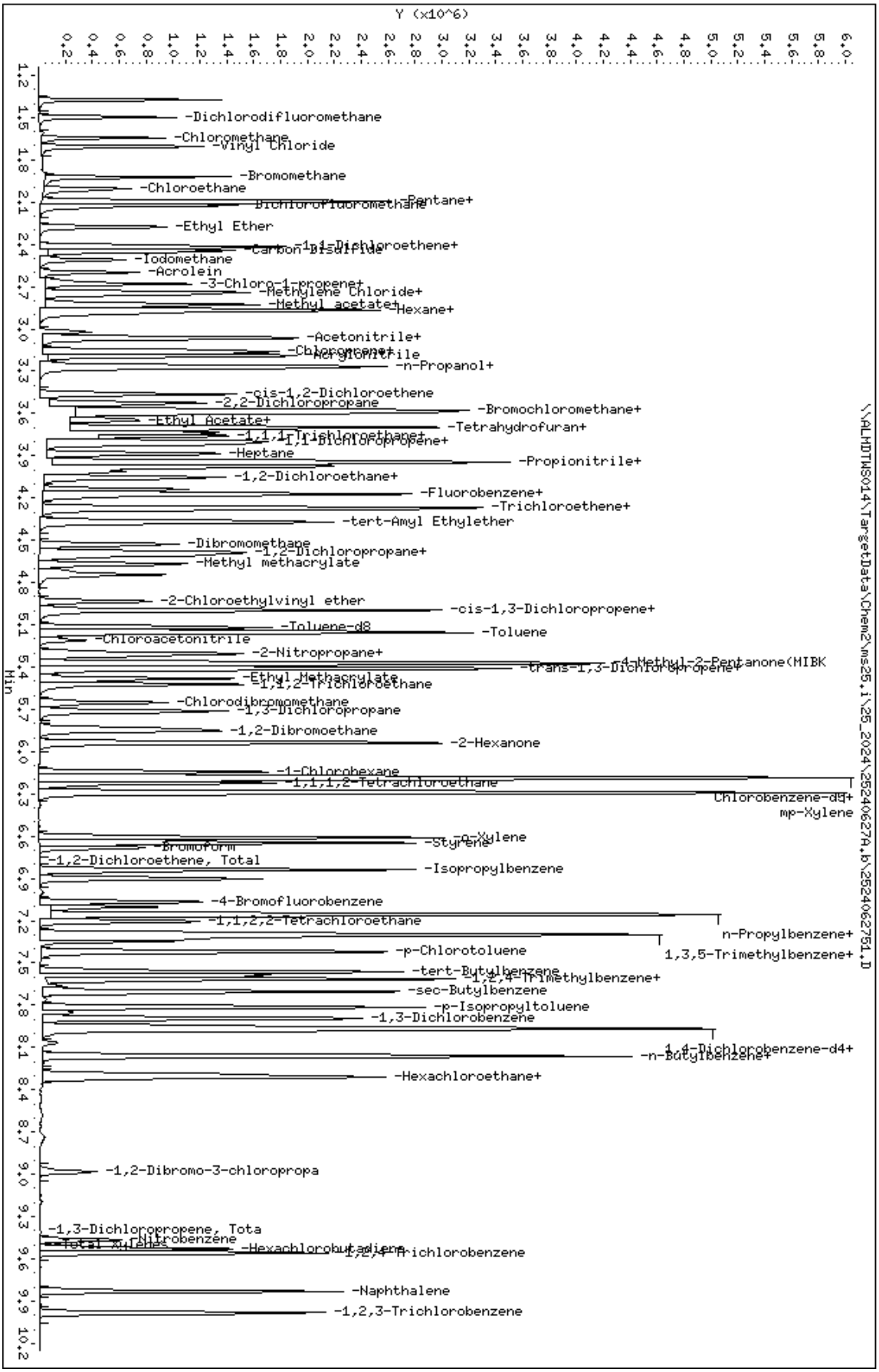
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1430746	50.0000	50.0392	
23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	263773	250.000	256.578	
24 Acetonitrile	41	3.019	3.019	(0.724)	295243	250.000	256.386	
25 Diisopropyl ether	45	3.063	3.063	(0.734)	1370185	50.0000	55.3949	
26 Chloroprene	53	3.156	3.156	(0.757)	672544	50.0000	53.6309	
27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	840524	50.0000	55.3565	
28 Acrylonitrile	53	3.188	3.188	(0.765)	1045484	250.000	264.384	
30 n-Propanol	41	3.265	3.265	(0.783)	241949	500.000	496.512	
29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1464185	50.0000	55.7348	
31 Vinyl acetate	86	3.276	3.276	(0.785)	126277	50.0000	48.7326	
32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	606484	50.0000	53.6688	
33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	682559	50.0000	56.4022	
M 100 1,2-Dichloroethene, Total	61				1206938	100.000	107.545	
34 Bromochloromethane	128	3.576	3.576	(0.857)	266890	50.0000	54.7664	
35 Cyclohexane	84	3.587	3.587	(0.860)	606745	50.0000	44.7476	
36 Chloroform	83	3.603	3.603	(0.864)	878396	50.0000	53.5887	
37 Ethyl acetate	43	3.636	3.636	(0.872)	473894	50.0000	48.2137	
38 Methyl acrylate	55	3.652	3.652	(0.876)	475301	50.0000	52.2324	
39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	539288	50.0000	44.7750(M)	MP
40 Tetrahydrofuran	42	3.696	3.696	(0.886)	699107	250.000	251.306	
$ 41 Dibromofluoromethane	113	3.707	3.707	(0.889)	260546	30.0000	27.9165	
42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	676290	50.0000	53.0077	
43 2-Butanone	72	3.761	3.761	(0.902)	347634	250.000	258.496(M)	MP
44 1,1-Dichloropropene	75	3.800	3.800	(0.911)	620944	50.0000	51.4526	
45 1-Chlorobutane	41	3.821	3.821	(0.916)	373520	50.0000	48.1289	
46 Heptane	71	3.887	3.887	(0.932)	314750	50.0000	44.8910	
48 Propionitrile	54	3.941	3.941	(0.945)	394071	250.000	263.163	
47 Benzene	78	3.941	3.941	(0.945)	1911810	50.0000	51.5402	
49 Methacrylonitrile	67	3.952	3.952	(0.948)	233568	50.0000	52.0324	
50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	1368515	50.0000	53.9657	
$ 51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	280289	30.0000	28.4892(M)	MP
54 Isobutyl alcohol	42	3.990	3.990	(0.957)	114015	500.000	499.251(M)	MP
52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	609034	50.0000	52.2297	
53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	198002	250.000	251.032	
* 55 Fluorobenzene	96	4.171	4.171	(1.000)	1182847	30.0000		
56 Diisobutylene	57	4.176	4.176	(1.001)	930710	50.0000	40.3569	
57 Trichloroethene	95	4.269	4.269	(1.024)	482145	50.0000	51.3580	
58 Methyl cyclohexane	83	4.274	4.274	(0.692)	652020	50.0000	43.5964	
59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	1119442	50.0000	50.6394	
60 Dibromomethane	93	4.525	4.525	(1.085)	318195	50.0000	53.6153	
61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	480355	50.0000	53.8057	
62 Bromodichloromethane	83	4.607	4.607	(1.105)	592350	50.0000	47.7204	
63 Methyl methacrylate	41	4.667	4.667	(1.119)	381183	50.0000	53.9496	
65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	316167	50.0000	48.4025	
66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	790316	50.0000	50.6623	
67 Octane	85	5.000	5.000	(0.810)	298231	50.0000	52.5914	
$ 68 Toluene-d8	98	5.120	5.120	(0.829)	1011539	30.0000	27.7099	
69 Toluene	92	5.153	5.153	(0.835)	1145504	50.0000	49.5088	
70 Chloroacetonitrile	75	5.213	5.213	(0.844)	148835	250.000	258.041	
71 2-Nitropropane	41	5.300	5.300	(0.859)	590049	250.000	232.687	
72 1,1-Dichloro-2-propanone	63	5.316	5.316	(0.861)	55916	250.000	228.128	
73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2342413	250.000	256.338	
75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	707367	50.0000	48.9776	
74 Tetrachloroethene	164	5.409	5.409	(0.876)	407949	50.0000	48.4205	

Data File: 2524062751.D Page 3
Report Date: 28-Jun-2024 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	697481	50.0000	50.0133	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	376928	50.0000	53.0224	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	477567	50.0000	47.4101	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	757440	50.0000	53.9276	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	463543	50.0000	48.9931	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1590243	250.000	253.672	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	581809	50.0000	47.7986	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	461076	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	659872	50.0000	47.8595	
	84 Chlorobenzene	112	6.189	6.189	(1.003)	1243855	50.0000	52.7536	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	429719	50.0000	48.2798	
	87 mp-Xylene	106	6.293	6.293	(1.019)	1576528	100.000	96.2834	
M	120 1,3-Dichloropropene, Total	75				1497683	100.000	99.6399	
	88 o-Xylene	106	6.610	6.610	(1.071)	758113	50.0000	48.3154	
	89 Styrene	104	6.648	6.648	(0.836)	1222722	50.0000	51.5078	
	90 Bromoform	173	6.681	6.681	(0.840)	316614	50.0000	47.2468	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1669910	50.0000	50.4718	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	318666	30.0000	28.7048	
M	121 TOTAL XYLENES	106				2334641	150.000	144.599	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	518810	50.0000	53.4757	
	93 Bromobenzene	156	7.155	7.155	(0.900)	527661	50.0000	55.6155	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	535948	50.0000	56.8343	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	1458558	50.0000	54.0187	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1417977	50.0000	55.5518	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	166786	50.0000	54.8377	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	147920	50.0000	51.1111	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	1307636	50.0000	56.5574	
	102 tert-Butylbenzene	134	7.564	7.564	(0.951)	347354	50.0000	53.7886	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	330634	50.0000	50.9805(M)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1475466	50.0000	51.6105	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1776358	50.0000	53.2302	
	106 p-Isopropyltoluene	134	7.815	7.815	(0.983)	407936	50.0000	53.3806	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	895935	50.0000	56.0518	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	401286	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	914825	50.0000	54.9083	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	373809	50.0000	52.3428	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	212106	50.0000	53.0847	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	261521	50.0000	45.7025	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	859950	50.0000	56.4799	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	84879	50.0000	47.0896	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	269001	500.000	459.305	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	254055	50.0000	50.4334	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	580898	50.0000	57.6115	
	118 Naphthalene	128	9.829	9.829	(1.236)	1490052	50.0000	50.2736	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	565968	50.0000	49.9572	

QC Flag Legend

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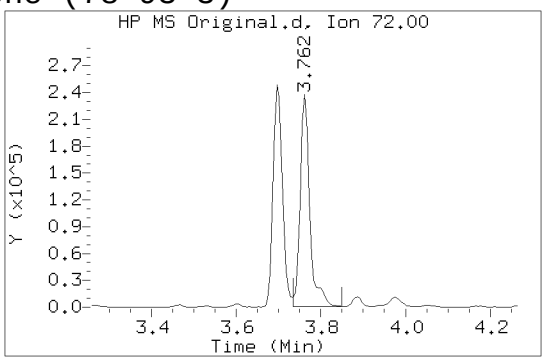

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene
-Chloroacetonitrile
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
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-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
n-Propylbenzene+
1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Total Xylenes
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1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Page 1

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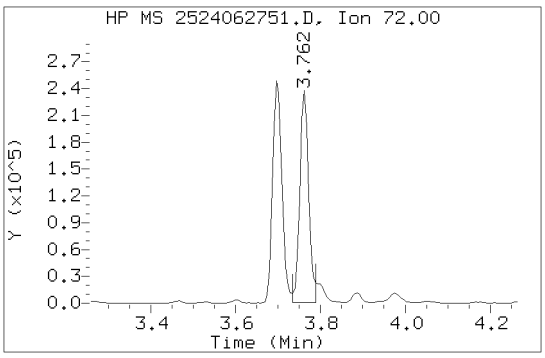
2-Butanone (78-93-3)

Reason Code: MP

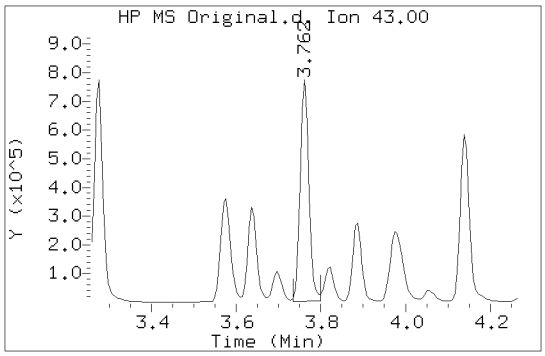
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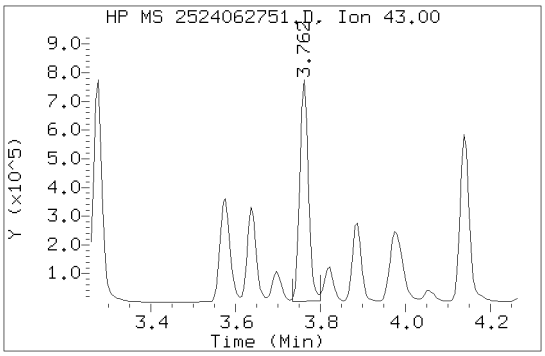
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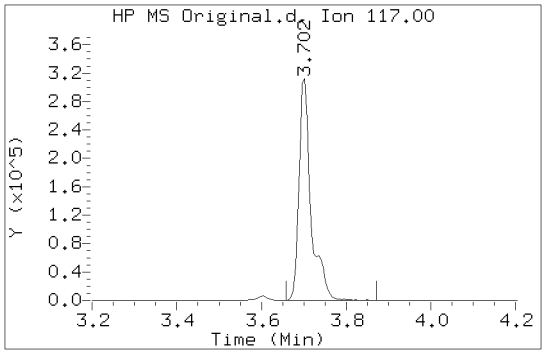
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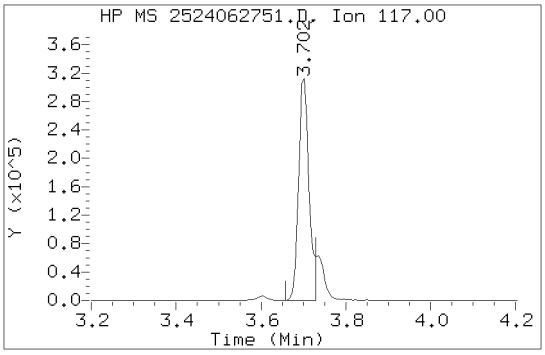
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Reason Code: MP

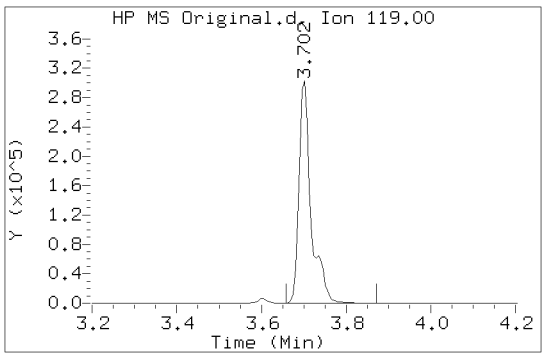
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27-Jun-2024
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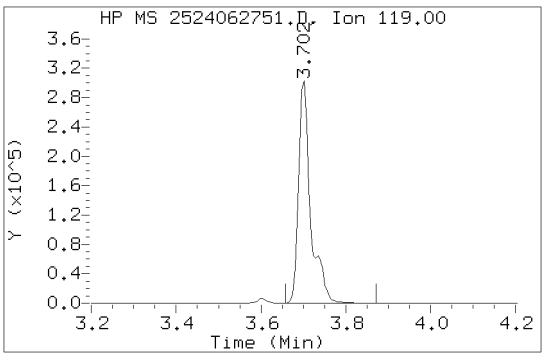
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BEFORE
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AFTER
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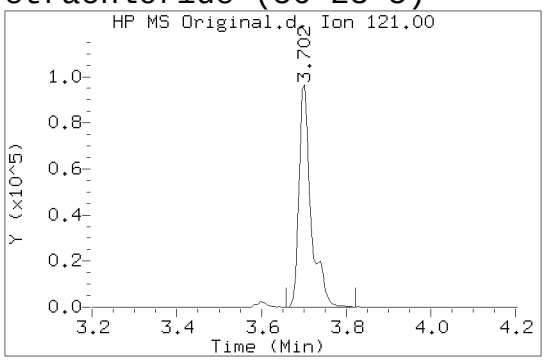


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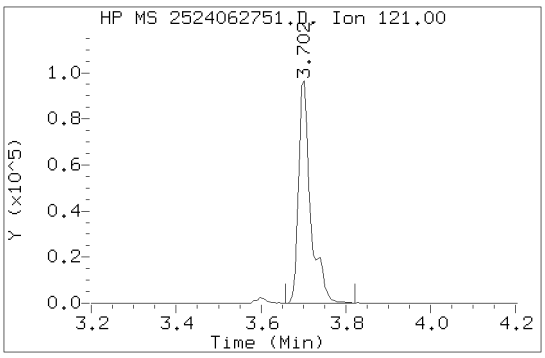
Carbon Tetrachloride (56-23-5)

Reason Code: MP

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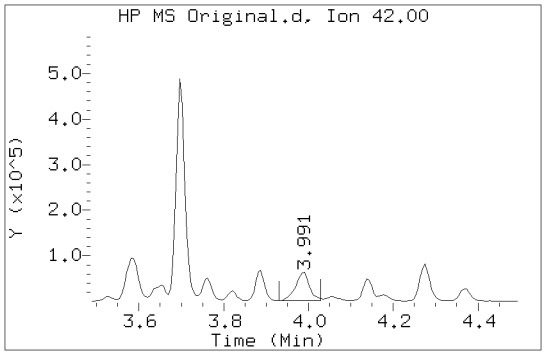
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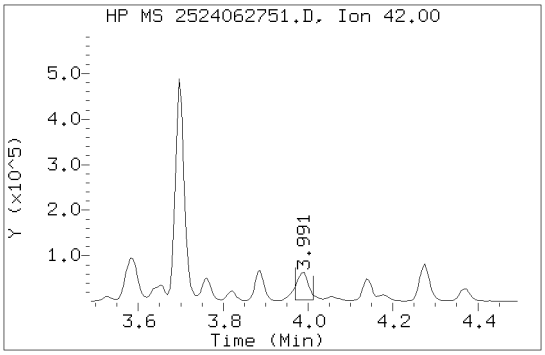
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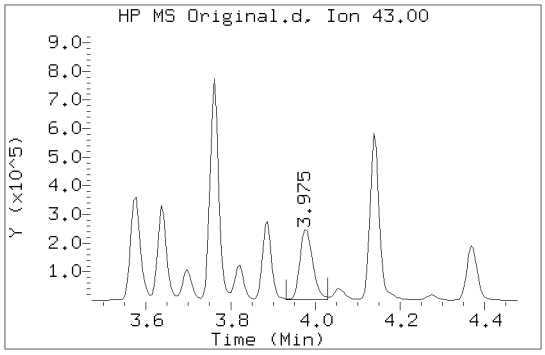
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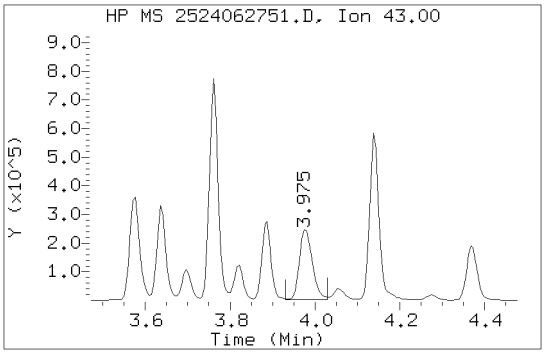
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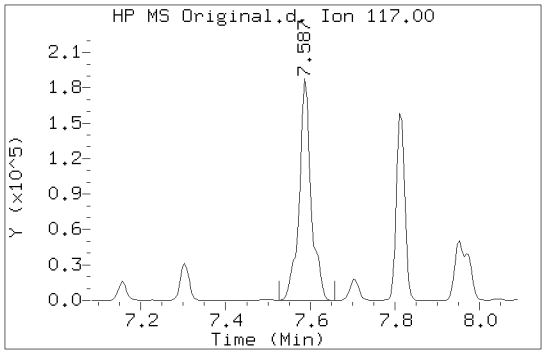
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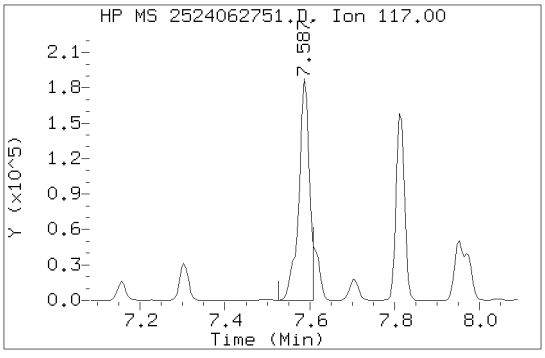
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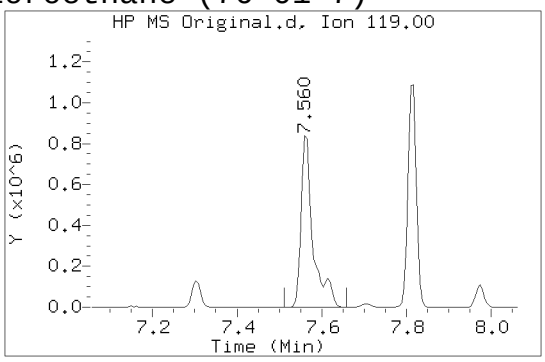


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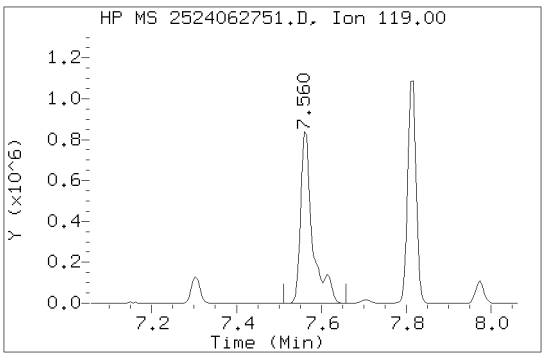
Pentachloroethane (76-01-7)

Reason Code: MP

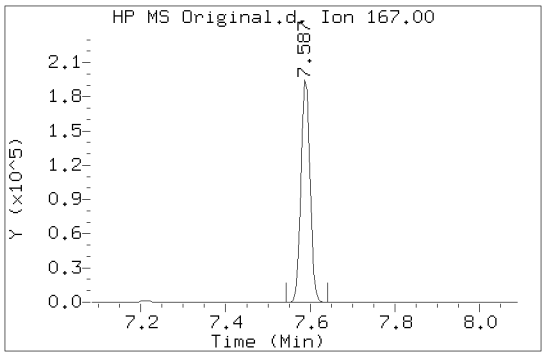
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27-Jun-2024
19:21



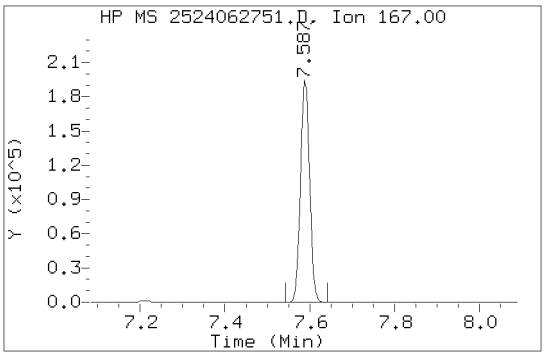
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MASS
119
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HEIGHT
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28-Jun-2024
15:11



BEFORE
MASS
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AREA
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HEIGHT
330933
27-Jun-2024
19:21



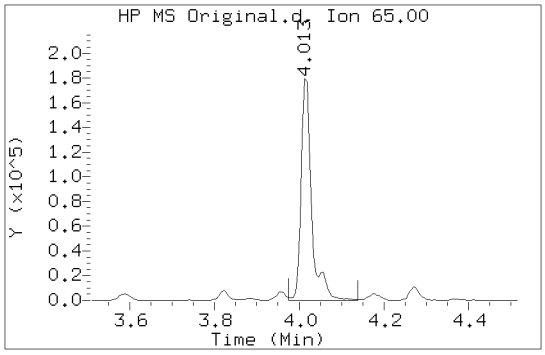
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15:11



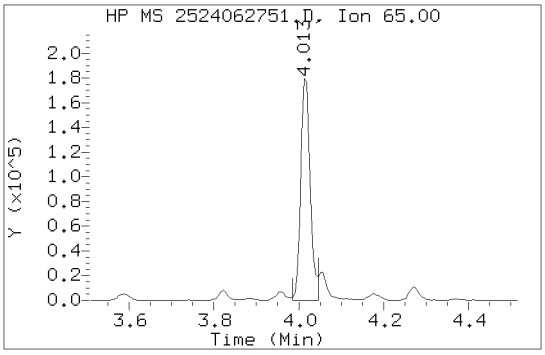
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Reason Code: MP

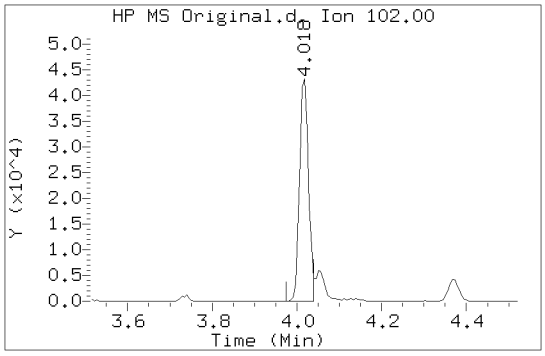
BEFORE
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27-Jun-2024
19:21



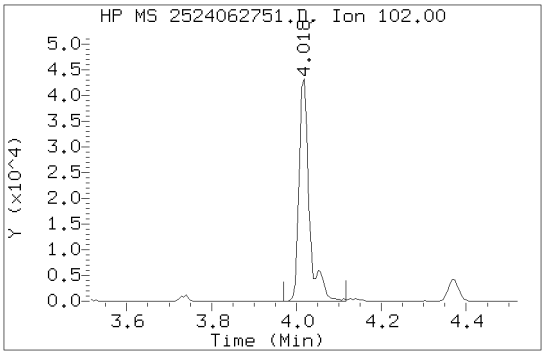
AFTER
MASS
65
AREA
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HEIGHT
179456
28-Jun-2024
15:11



BEFORE
MASS
111
AREA
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HEIGHT
168448
27-Jun-2024
19:21



AFTER
MASS
102
AREA
73629
HEIGHT
43256
28-Jun-2024
15:11



UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:11
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 27-JUN-2024 19:08
Operator: BST

There were no Unassigned peaks in this sample!

Data File: 2524062752.D Page 1
Report Date: 28-Jun-2024 15:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062752.D
Lab Smp Id: 3845609 Client Smp ID: LCS for HBN 1235666
Inj Date : 27-JUN-2024 19:49
Operator : BST Inst ID: ms25.i
Smp Info : 3845609;;1;3;;LCS;1;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	210599	16.1968	16.1968	
2 Chloromethane	50	1.644	1.644	(0.394)	196791	17.2544	17.2544	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	245892	16.7285	16.7285	
4 Bromomethane	94	1.922	1.923	(0.461)	116316	16.2380	16.2380	
5 Chloroethane	64	1.999	2.004	(0.479)	180595	17.9932	17.9932	
6 Pentane	41	2.086	2.092	(0.500)	153643	16.0680	16.0680	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	341961	16.9845	16.9845	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	361688	19.4146	19.4146	
9 Ethyl Ether	74	2.277	2.277	(0.546)	112307	19.8241	19.8241	
10 1,1-Dichloroethene	61	2.413	2.414	(0.579)	219421	19.4098	19.4098	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	462977	18.9851	18.9851	
11 Freon 113	101	2.424	2.424	(0.581)	153545	19.3109	19.3109	
13 Iodomethane	127	2.506	2.506	(0.601)	71861	16.7407	16.7407	
14 Acrolein	56	2.599	2.599	(0.623)	287946	157.914	157.914	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	195950	19.9971	19.9971	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	56898	93.4967	93.4967	
17 Methylene Chloride	84	2.741	2.741	(0.657)	182832	19.7996	19.7996	
18 Acetone	58	2.757	2.752	(0.661)	114583	111.999	111.999	
19 Methyl acetate	74	2.812	2.812	(0.674)	42355	19.9021	19.9021	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	221501	20.0052	20.0052	
21 Hexane	57	2.866	2.866	(0.687)	347075	18.6618	18.6618	
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	547870	19.4294	19.4294	

Data File: 2524062752.D
Report Date: 28-Jun-2024 15:11

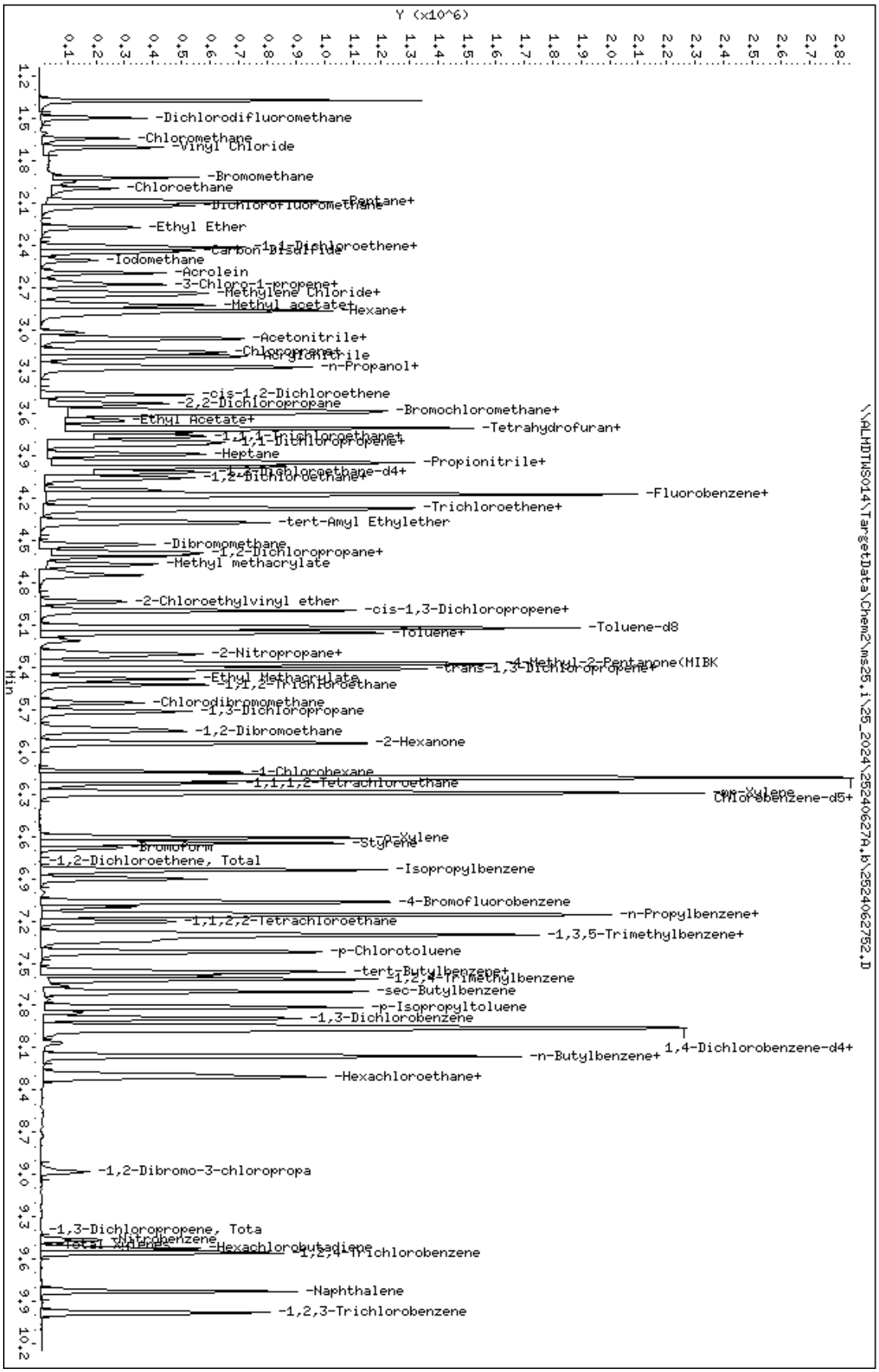
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
23 tert.- Butyl Alcohol	59	2.899	2.894	(0.695)	95827	93.8265	93.8265	
24 Acetonitrile	41	3.019	3.019	(0.724)	118893	103.925	103.925	
25 Diisopropyl ether	45	3.063	3.063	(0.734)	512191	20.8435	20.8435	
26 Chloroprene	53	3.156	3.156	(0.757)	250419	20.1006	20.1006	
27 1,1-Dichloroethane	63	3.172	3.167	(0.761)	297644	19.7317	19.7317	
28 Acrylonitrile	53	3.188	3.188	(0.765)	405848	103.307	103.307	
30 n-Propanol	41	3.265	3.265	(0.783)	94595	195.399	195.399(a)	
29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	558896	21.4146	21.4146	
31 Vinyl acetate	86	3.276	3.276	(0.785)	44462	17.5185	17.5185	
32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	229143	20.4106	20.4106	
33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	252513	21.0033	21.0033	
M 100 1,2-Dichloroethene, Total	61				450644	40.4158	40.4158	
34 Bromochloromethane	128	3.576	3.576	(0.857)	101916	21.0510	21.0510	
35 Cyclohexane	84	3.587	3.587	(0.860)	257444	19.1115	19.1115	
36 Chloroform	83	3.603	3.603	(0.864)	327473	20.1097	20.1097	
37 Ethyl acetate	43	3.636	3.636	(0.872)	170210	17.3763	17.3763	
38 Methyl acrylate	55	3.652	3.652	(0.876)	187509	20.7415	20.7415	
39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	205024	17.3911	17.3911(M)	MP
40 Tetrahydrofuran	42	3.696	3.696	(0.886)	265077	95.9135	95.9135	
$ 41 Dibromofluoromethane	113	3.707	3.707	(0.889)	276598	29.8314	29.8314	
42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	256350	20.2249	20.2249	
43 2-Butanone	72	3.761	3.761	(0.902)	140144	104.895	104.895(M)	MP
44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	229127	19.1108	19.1108	
45 1-Chlorobutane	41	3.821	3.821	(0.916)	146381	18.9856	18.9856	
46 Heptane	71	3.887	3.887	(0.932)	130504	18.7355	18.7355	
48 Propionitrile	54	3.941	3.941	(0.945)	161169	108.338	108.338	
47 Benzene	78	3.941	3.941	(0.945)	707865	19.2088	19.2088	
49 Methacrylonitrile	67	3.952	3.952	(0.948)	94004	21.0792	21.0792	
50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	546539	21.6939	21.6939	
$ 51 1,2-Dichloroethane-d4	65	4.018	4.012	(0.963)	299523	30.6444	30.6444(M)	MP
54 Isobutyl alcohol	42	3.990	3.990	(0.957)	39338	176.010	176.010(QM)	MP
52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	231523	19.9856	19.9856	
53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	79253	101.140	101.140	
* 55 Fluorobenzene	96	4.170	4.171	(1.000)	1175116	30.0000		
56 Diisobutylene	57	4.176	4.176	(1.001)	417716	17.4047	17.4047	
57 Trichloroethene	95	4.269	4.269	(1.024)	177868	19.0711	19.0711	
58 Methyl cyclohexane	83	4.274	4.274	(0.692)	277560	19.1146	19.1146	
59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	402165	18.4793	18.4793	
60 Dibromomethane	93	4.525	4.525	(1.085)	121352	20.5821	20.5821	
61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	179033	20.1858	20.1858	
62 Bromodichloromethane	83	4.607	4.607	(1.105)	230394	18.8836	18.8836	
63 Methyl methacrylate	41	4.667	4.667	(1.119)	147090	20.9549	20.9549	
65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	114599	17.8948	17.8948	
66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	282492	18.8292	18.8292	
67 Octane	85	5.000	5.000	(0.810)	112847	20.4961	20.4961	
$ 68 Toluene-d8	98	5.120	5.120	(0.829)	1093913	30.8641	30.8641	
69 Toluene	92	5.153	5.153	(0.835)	430622	19.1691	19.1691	
70 Chloroacetonitrile	75	5.213	5.213	(0.844)	57274	102.273	102.273	
71 2-Nitropropane	41	5.300	5.300	(0.859)	215683	88.7687	88.7687	
72 1,1-Dichloro-2-propanone	63	5.316	5.316	(0.861)	22091	93.9771	93.9771(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	898489	101.881	101.881	
75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	270070	19.4397	19.4397	
74 Tetrachloroethene	164	5.409	5.409	(0.876)	160204	19.5847	19.5847	
76 Ethyl methacrylate	69	5.480	5.480	(0.888)	253728	18.9363	18.9363	

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Report Date: 28-Jun-2024 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	146100	21.1676	21.1676	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	178885	18.5170	18.5170	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	293438	21.5178	21.5178	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	174597	19.1498	19.1498	
	81 2-Hexanone	43	5.933	5.933	(0.961)	624608	103.282	103.282	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	244624	20.6992	20.6992	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	447665	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	257990	19.1920	19.1920	
	84 Chlorobenzene	112	6.184	6.189	(1.002)	467997	20.4430	20.4430	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	164223	19.1964	19.1964	
	87 mp-Xylene	106	6.288	6.293	(1.019)	604847	37.5672	37.5672	
M	120 1,3-Dichloropropene, Total	75				552562	38.2688	38.2688	
	88 o-Xylene	106	6.609	6.610	(1.071)	291218	19.1157	19.1157	
	89 Styrene	104	6.648	6.648	(0.836)	461152	19.8807	19.8807	
	90 Bromoform	173	6.680	6.681	(0.840)	116915	17.9174	17.9174	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	728797	22.4137	22.4137	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	335418	30.6384	30.6384	
M	121 TOTAL XYLENES	106				896065	56.6828	56.6828	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	202507	21.1665	21.1665	
	93 Bromobenzene	156	7.155	7.155	(0.900)	201849	21.5739	21.5739	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	209415	22.5194	22.5194	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	565243	21.2284	21.2284	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	546947	21.7287	21.7287	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	65691	21.9021	21.9021	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	57915	20.4677	20.4677	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	503708	22.0924	22.0924	
	102 tert-Butylbenzene	134	7.559	7.564	(0.951)	138262	21.7111	21.7111	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	120221	18.9818	18.9818(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	567526	20.0376	20.0376	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	719760	21.8714	21.8714	
	106 p-Isopropyltoluene	134	7.810	7.815	(0.982)	161914	21.4850	21.4850	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	341037	21.6359	21.6359	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	395725	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	353139	21.4935	21.4935	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	148594	21.0994	21.0994(Q)	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	74590	19.2324	19.2324(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	96164	17.2854	17.2854	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	329853	21.9686	21.9686	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	33216	18.9364	18.9364	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	92155	171.783	171.783	
	116 Hexachlorobutadiene	225	9.523	9.529	(1.198)	99472	20.1757	20.1757	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	237043	23.8395	23.8395	
	118 Naphthalene	128	9.829	9.829	(1.236)	578236	19.9778	19.9778	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	213566	19.2964	19.2964	

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.

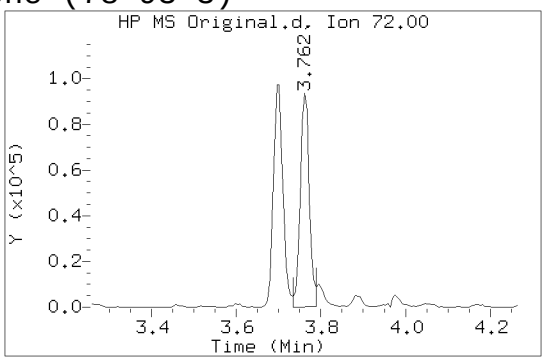

Y (x10^6)
Abundance
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Date : 27-JUN-2024 19:49
Client ID: LCS for HBN 1235666
Sample Info: 3845609;;1;3;;LCS;1;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: BST
Column diameter: 0.25
\\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\252406270,b\2524062752.D
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Dichlorofluoromethane
-Ethyl Ether
-1,1-Dichloroethene+
-Carbon disulfide
-Iodomethane
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-1,1,1-Trichloroethane+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-trans-1,3-Dichloropropene+
-4-Methyl-2-Pentanone(MIBK
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
-m,p-Xylene
Chlorobenzene-d5+
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062752.D
Inj Date : 27-JUN-2024 19:49
InstruID : ms25.i
LabSampID : 3845609

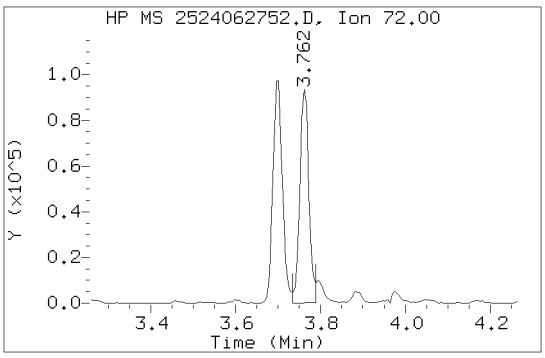
2-Butanone (78-93-3)

Reason Code: MP

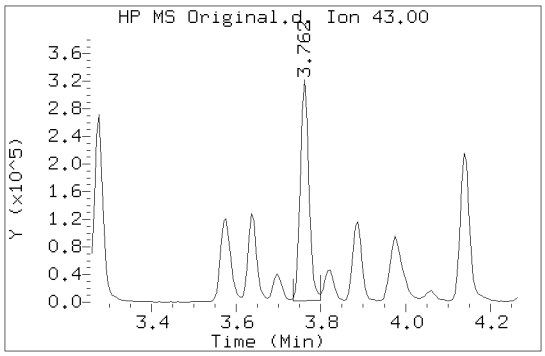
BEFORE
MASS
72
AREA
140144
HEIGHT
93412
27-Jun-2024
20:03



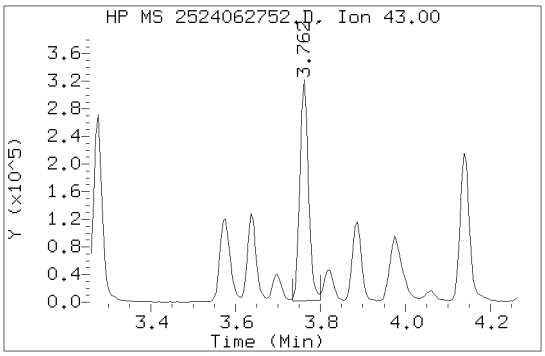
AFTER
MASS
72
AREA
140144
HEIGHT
93412
28-Jun-2024
15:11



BEFORE
MASS
43
AREA
455930
HEIGHT
319789
27-Jun-2024
20:03



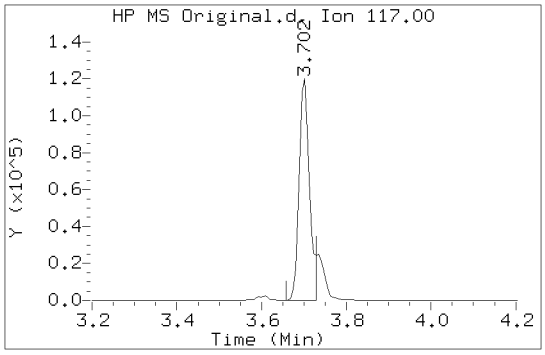
AFTER
MASS
43
AREA
455930
HEIGHT
319789
28-Jun-2024
15:11



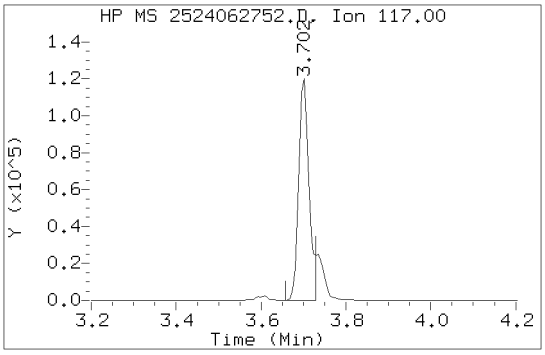
Carbon Tetrachloride (56-23-5)

Reason Code: MP

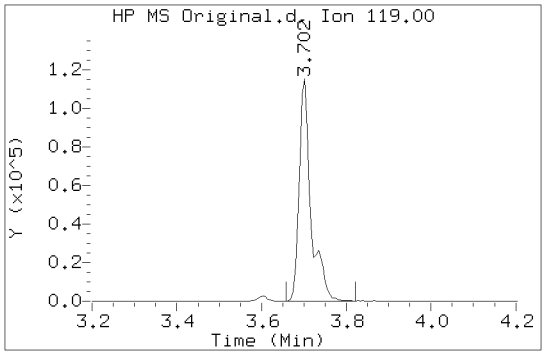
BEFORE
MASS
117
AREA
205024
HEIGHT
120064
27-Jun-2024
20:03



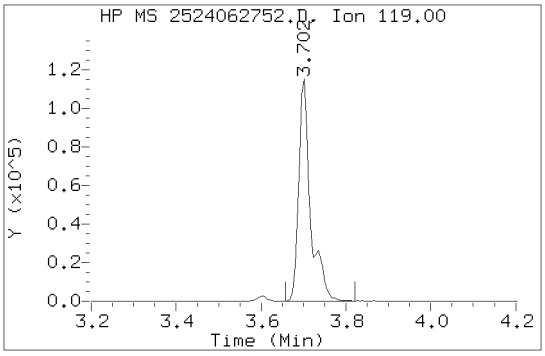
AFTER
MASS
117
AREA
205024
HEIGHT
120064
28-Jun-2024
15:11



BEFORE
MASS
119
AREA
223280
HEIGHT
115184
27-Jun-2024
20:03



AFTER
MASS
119
AREA
223280
HEIGHT
115184
28-Jun-2024
15:11



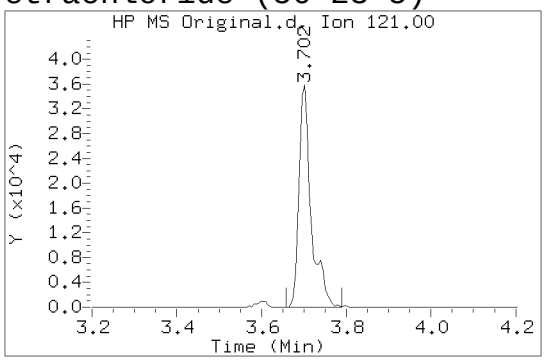
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Inj Date : 27-JUN-2024 19:49
InstruID : ms25.i
LabSampID : 3845609

Carbon Tetrachloride (56-23-5)

Reason Code: MP

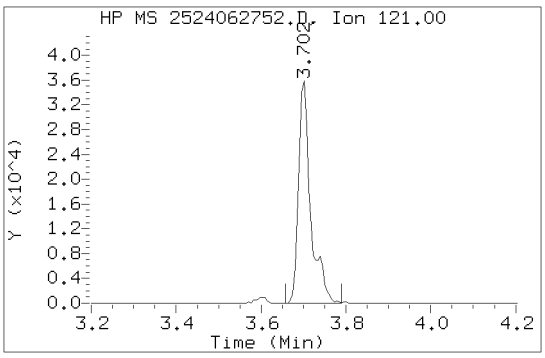
BEFORE

MASS
121
AREA
71636
HEIGHT
35856
27-Jun-2024
20:03



AFTER

MASS
121
AREA
71636
HEIGHT
35856
28-Jun-2024
15:11

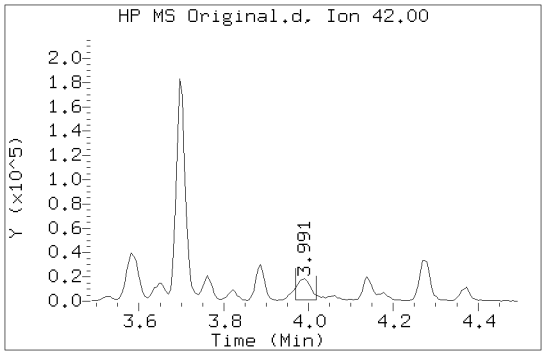


Isobutyl alcohol (78-83-1)

Reason Code: MP

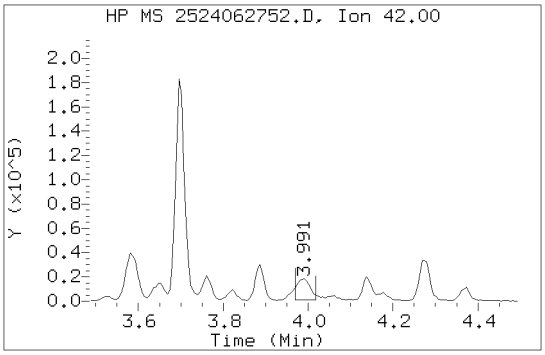
BEFORE

MASS
42
AREA
39338
HEIGHT
17351
27-Jun-2024
20:03



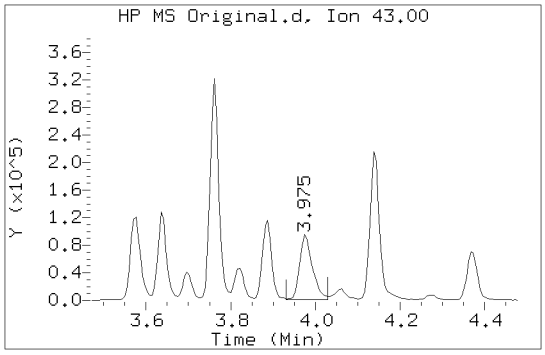
AFTER

MASS
42
AREA
39338
HEIGHT
17351
28-Jun-2024
15:11



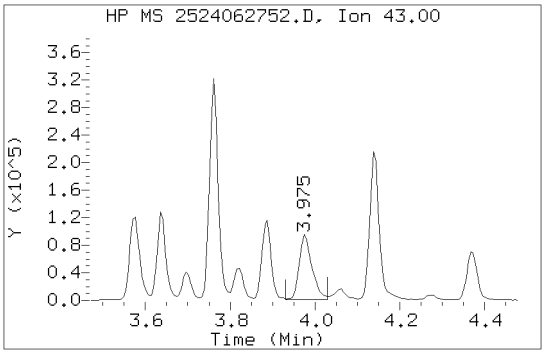
BEFORE

MASS
43
AREA
195671
HEIGHT
94477
27-Jun-2024
20:03



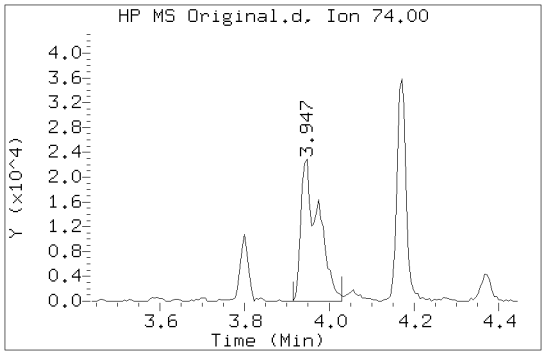
AFTER

MASS
43
AREA
195671
HEIGHT
94477
28-Jun-2024
15:11



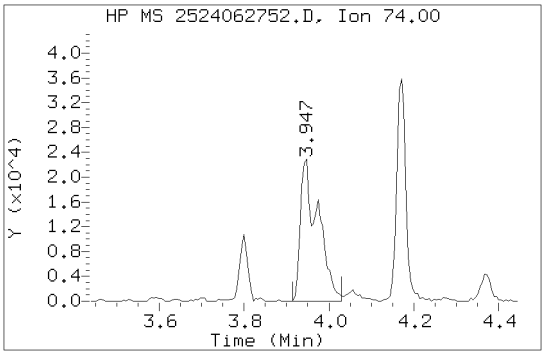
BEFORE

MASS
74
AREA
66614
HEIGHT
22904
27-Jun-2024
20:03



AFTER

MASS
74
AREA
66614
HEIGHT
22904
28-Jun-2024
15:11

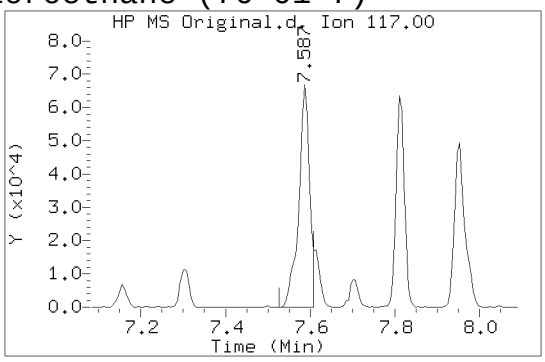


Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062752.D
Inj Date : 27-JUN-2024 19:49
InstruID : ms25.i
LabSampID : 3845609

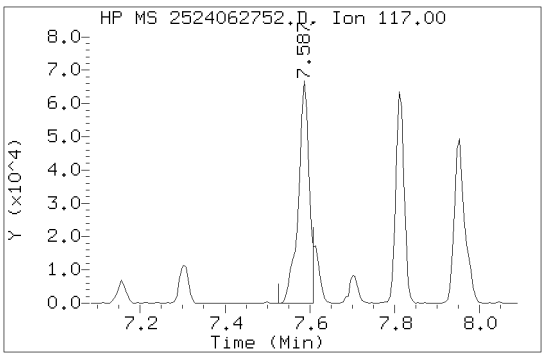
Pentachloroethane (76-01-7)

Reason Code: MP

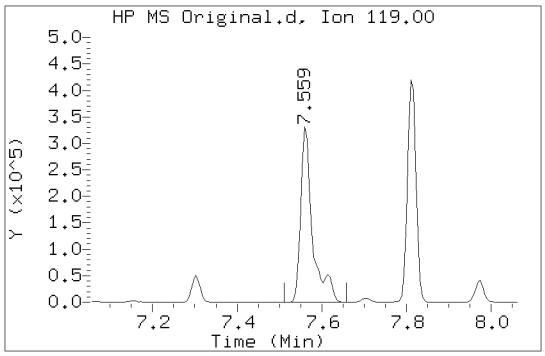
BEFORE
MASS
117
AREA
120221
HEIGHT
66776
27-Jun-2024
20:03



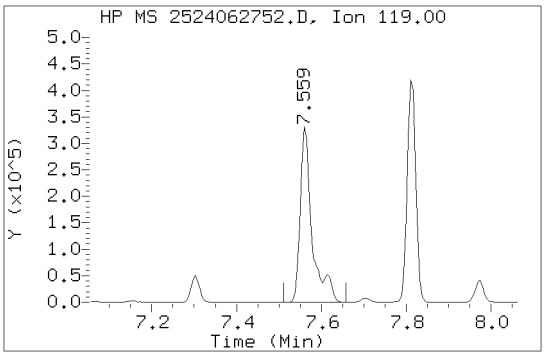
AFTER
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117
AREA
120221
HEIGHT
66776
28-Jun-2024
15:11



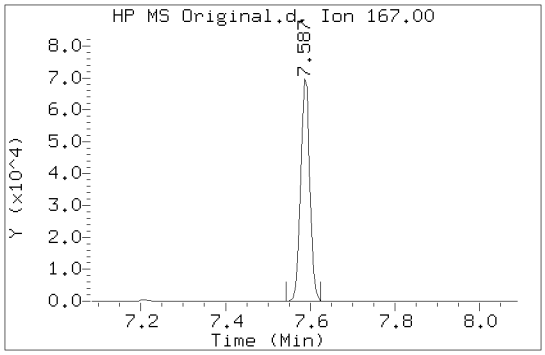
BEFORE
MASS
119
AREA
644668
HEIGHT
331648
27-Jun-2024
20:03



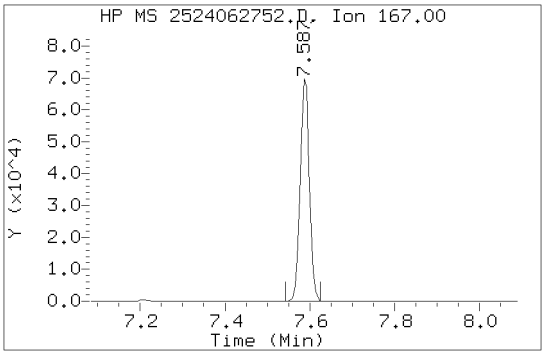
AFTER
MASS
119
AREA
644668
HEIGHT
331648
28-Jun-2024
15:11



BEFORE
MASS
167
AREA
104312
HEIGHT
69680
27-Jun-2024
20:03



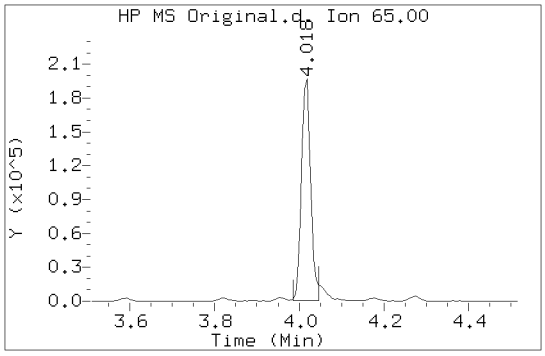
AFTER
MASS
167
AREA
104312
HEIGHT
69680
28-Jun-2024
15:11



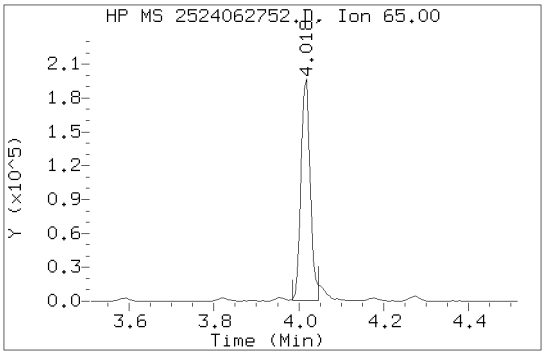
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
MASS
65
AREA
299523
HEIGHT
196453
27-Jun-2024
20:03



AFTER
MASS
65
AREA
299523
HEIGHT
196453
28-Jun-2024
15:11



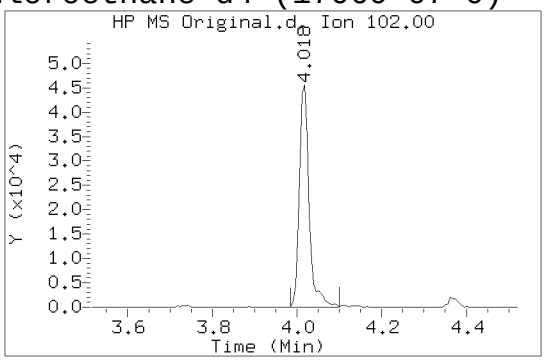
Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062752.D
Inj Date : 27-JUN-2024 19:49
InstruID : ms25.i
LabSampID : 3845609

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

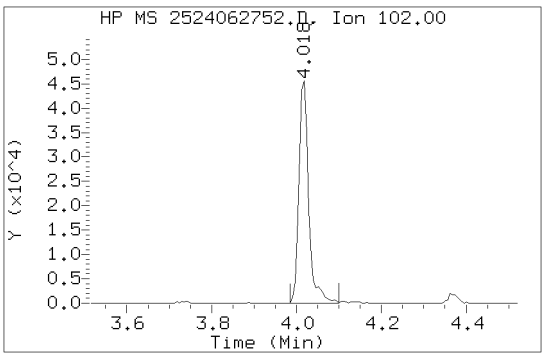
BEFORE

MASS
102
AREA
73332
HEIGHT
45600
27-Jun-2024
20:03



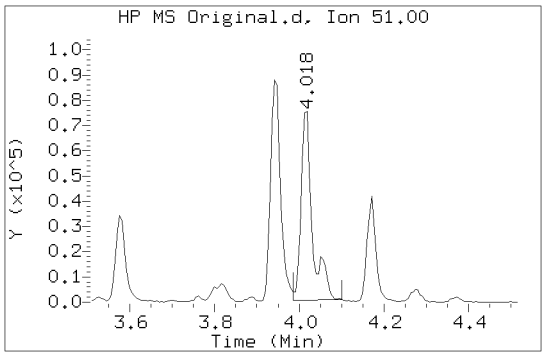
AFTER

MASS
102
AREA
73332
HEIGHT
45600
28-Jun-2024
15:11



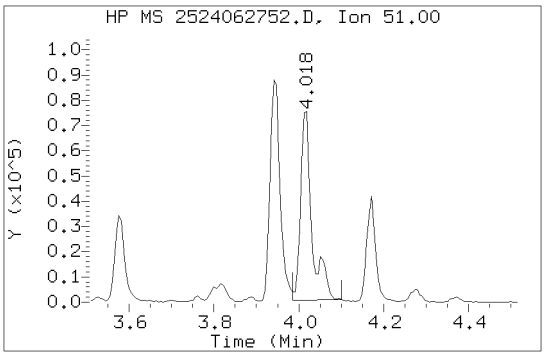
BEFORE

MASS
51
AREA
139010
HEIGHT
74860
27-Jun-2024
20:03



AFTER

MASS
51
AREA
139010
HEIGHT
74860
28-Jun-2024
15:11



UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:11
Client ID: LCS for HBN 1235666
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 27-JUN-2024 19:49
Operator: BST

There were no Unassigned peaks in this sample!

Data File: 2524062755.D Page 1
Report Date: 28-Jun-2024 15:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062755.D
Lab Smp Id: 3845608 Client Smp ID: MB for HBN 1235666
Inj Date : 27-JUN-2024 21:10
Operator : BST Inst ID: ms25.i
Smp Info : 3845608;;1;3;;MB;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524062755.D Page 2
Report Date: 28-Jun-2024 15:12

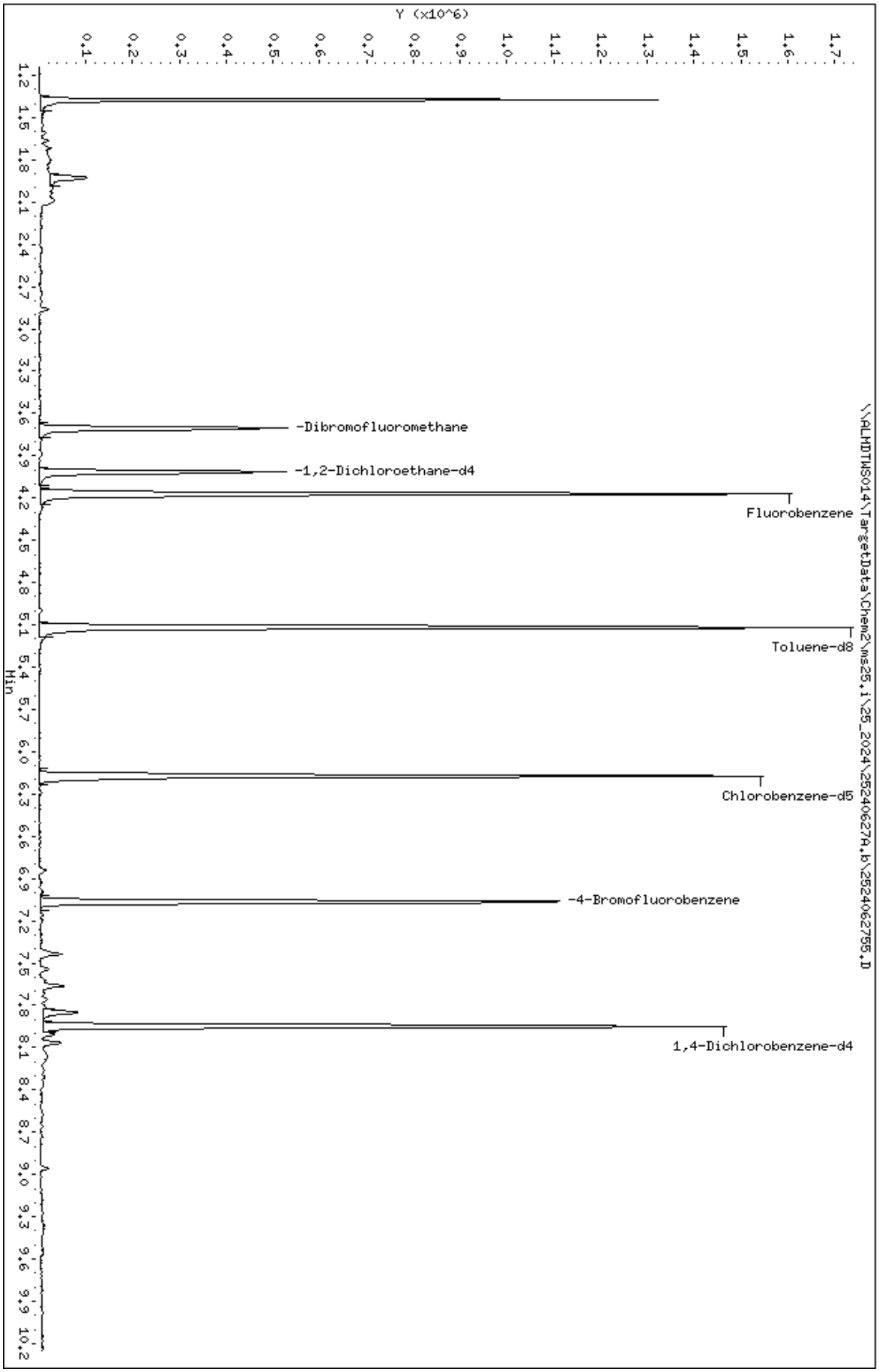
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.706	3.707	(0.889)	253615	27.5793	27.5793	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.017	4.012	(0.963)	289921	29.9078	29.9078	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1165460	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1000510	30.1513	30.1513	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524062755.D Page 3
Report Date: 28-Jun-2024 15:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	419122	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	301165	29.7315	29.7315	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	366151	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.


Data File: \\ALMDTMS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25240627S5.D
Date : 27-JUN-2024 21:10
Client ID: MB for HBN 1235666
Sample Info: 3845608;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: BST
Column diameter: 0.25
Page 1
Y (x10^6)
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\ALMDTMS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25240627S5.D
Min

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062755.D
Inj Date : 27-JUN-2024 21:10
InstruID : ms25.i
LabSampID : 3845608

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:12
Client ID: MB for HBN 1235666
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 27-JUN-2024 21:10
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Chloroethane
1,2-Dichloroethane
Heptane
2-Nitropropane
Benzyl Chloride
1-Chlorohexane
Ethyl methacrylate
Methacrylonitrile

Data File: 2524062756.D Page 1
Report Date: 28-Jun-2024 15:13

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062756.D
Lab Smp Id: 3366036009 Client Smp ID: HS24061218-09
Inj Date : 27-JUN-2024 21:33
Operator : BST Inst ID: ms25.i
Smp Info : 3366036009;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062756.D Page 2
Report Date: 28-Jun-2024 15:13

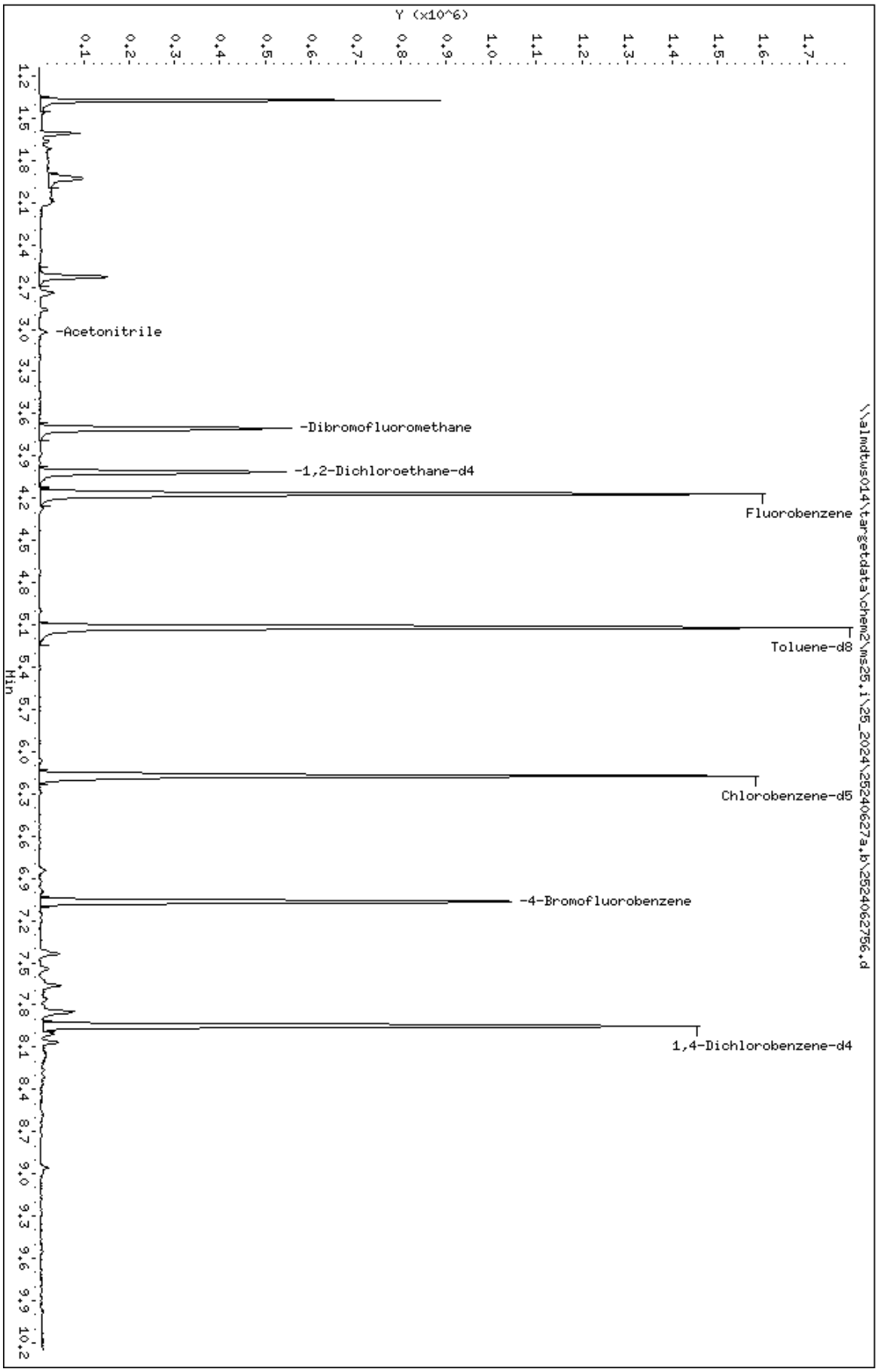
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	3.019	3.019	(0.724)	13821	11.9812	11.9812(a)	
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	263696	28.2051	28.2051	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	299293	30.3680	30.3680	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1184900	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	1015816	29.9807	29.9807	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062756.D Page 3
Report Date: 28-Jun-2024 15:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	427955	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	281532	27.4814	27.4814	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	370307	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.


Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\25240627S6.d
Date : 27-JUN-2024 21:33
Client ID: HS24061218-09
Sample Info: 33660360091;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: BST
Column diameter: 0.25
Page 1
Y (x10^6)
-Acetonitrile
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\25240627S6.d
Min

Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062756.d Page 2

Date : 27-JUN-2024 21:33

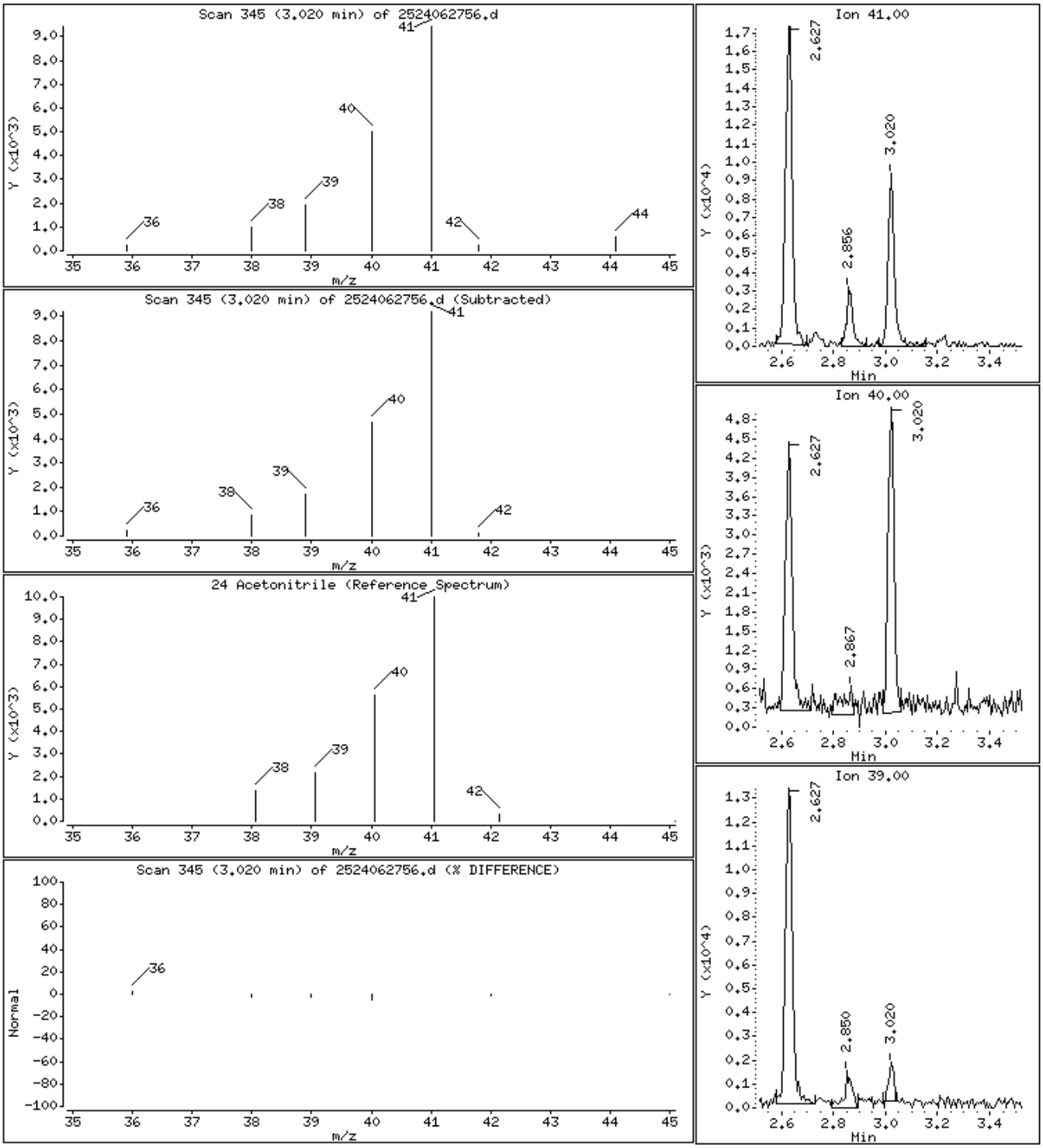
Client ID: HS24061218-09 Instrument: ms25.i

Sample Info: 3366036009;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

24 Acetonitrile Concentration: 11.9812 ug/L



Data File : \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062756.d
Inj Date : 27-JUN-2024 21:33
InstruID : ms25.i
LabSampID : 3366036009

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 05:35
Client ID: HS24061218-09
DataFile: //almdtws014/targetdata/chem2/ms25.i/25_2024/25240627a.b/25240627
Inj Date: 27-JUN-2024 21:33
Operator: BST

tert.- Butyl Alcohol
1-Chlorohexane
1,2-Dichloroethane
Heptane
Methacrylonitrile
Trichloroethene
Chloroethane
Dichlorodifluoromethane
Ethyl methacrylate
2-Hexanone
2-Nitropropane

Data File: 2524062759.D Page 1
Report Date: 28-Jun-2024 15:15

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062759.D
Lab Smp Id: 3366036001 Client Smp ID: HS24061218-01
Inj Date : 27-JUN-2024 22:34
Operator : BST Inst ID: ms25.i
Smp Info : 3366036001;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.704	1.704	(0.409)	39334	2.96925	2.96925	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.413	2.424	(0.579)	22137968	3089.36	3089.36(AQ)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062759.D Page 2
Report Date: 28-Jun-2024 15:15

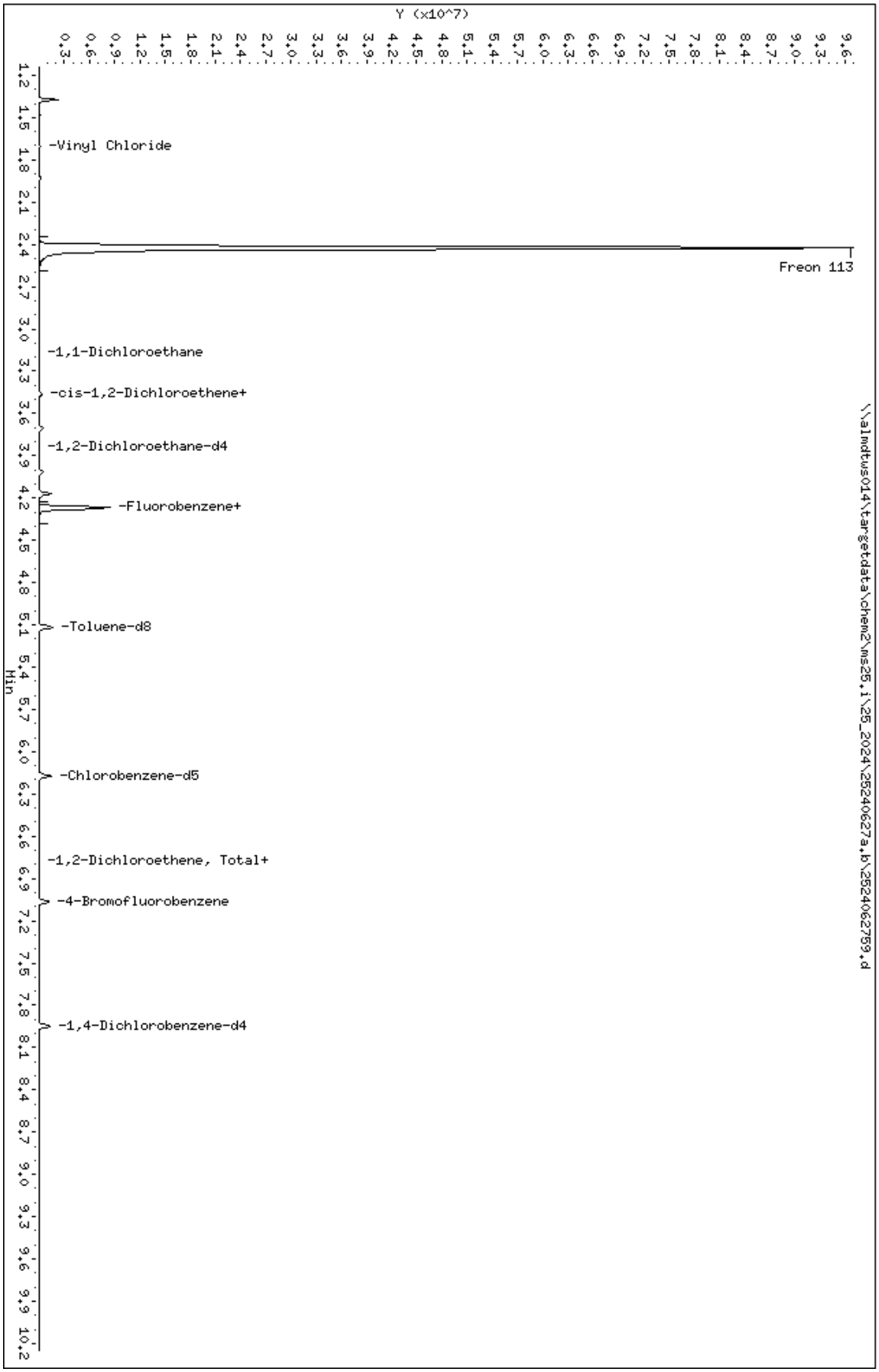
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	3.166	3.167	(0.759)	10158	0.74721	0.747206(a)	
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	134066	13.2506	13.2506	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				134066	13.2506	13.2506	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	3.597	3.603	(0.863)	26073	1.77659	1.77659	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	240420	28.7714	28.7714	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	271072	30.7731	30.7731	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1059047	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	2156484	256.561	256.561(A)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	957350	30.9490	30.9490	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062759.D Page 3
Report Date: 28-Jun-2024 15:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	390705	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	6.844	6.839	(0.861)	2448	0.22409	0.224094(a)	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	297181	31.3343	31.3343	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	342826	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

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.



Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\25240627S9.d
Date : 27-JUN-2024 22:34
Client ID: HS24061218-01
Sample Info: 33660360001;1;;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: BST
Column diameter: 0.25

Page 1

Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062759.d Page 2

Date : 27-JUN-2024 22:34

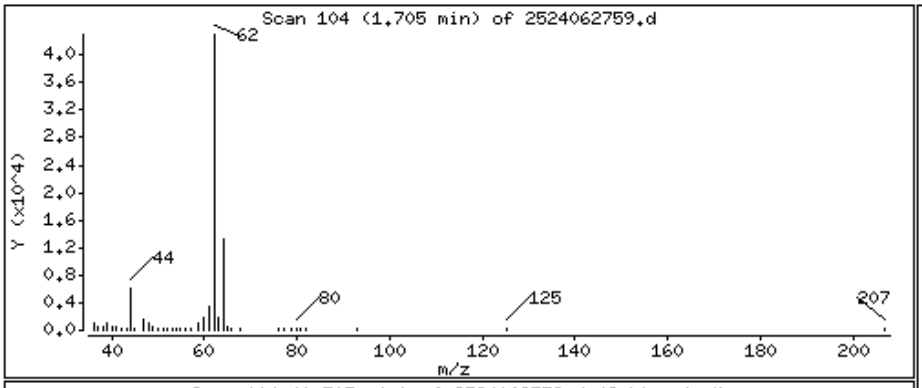
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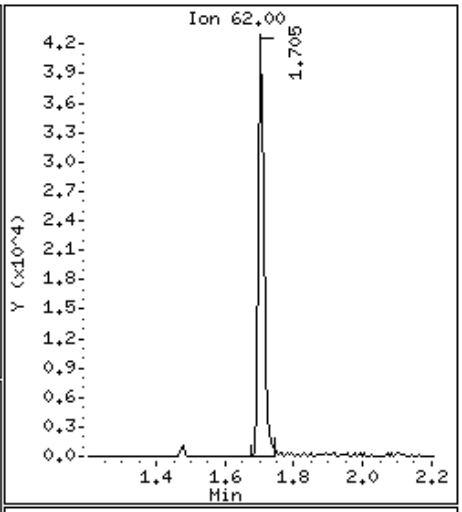
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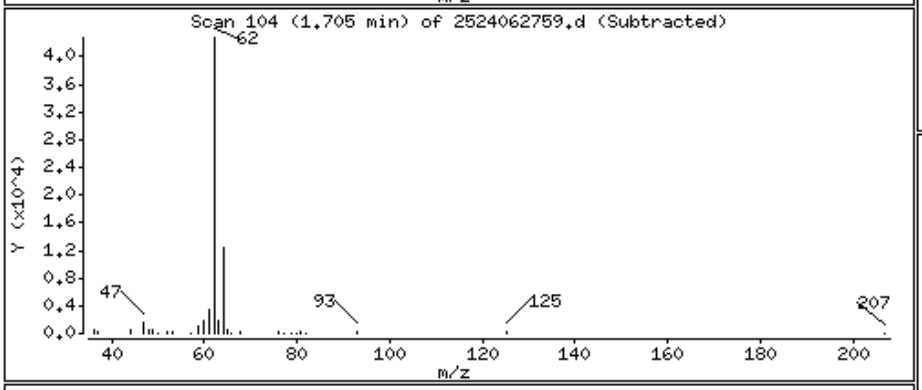
Purge Volume: 5.0 Operator: BST

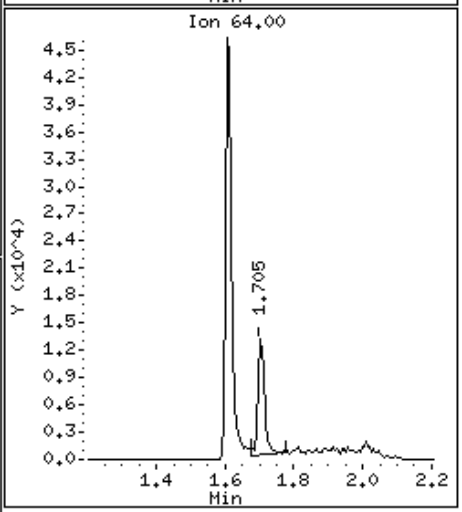
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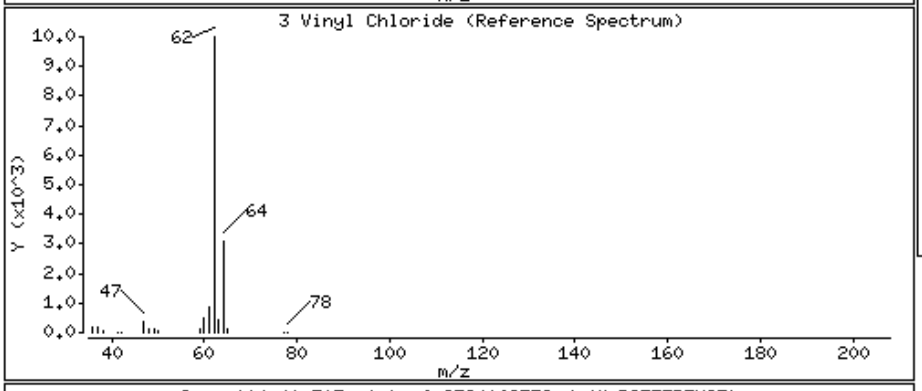
3 Vinyl Chloride Concentration: 2.96925 ug/L

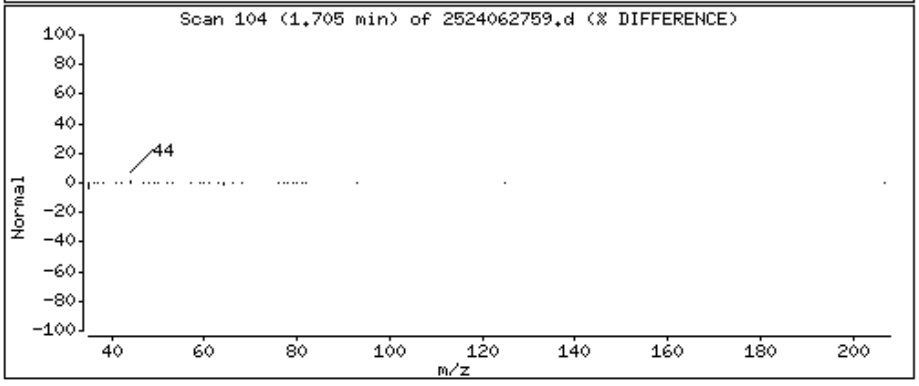












Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062759.d Page 3

Date : 27-JUN-2024 22:34

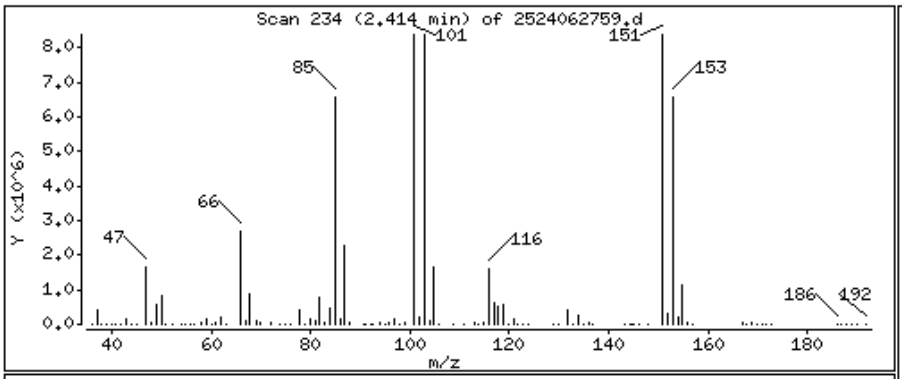
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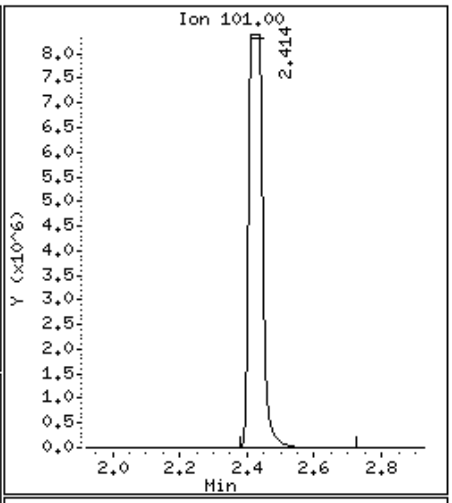
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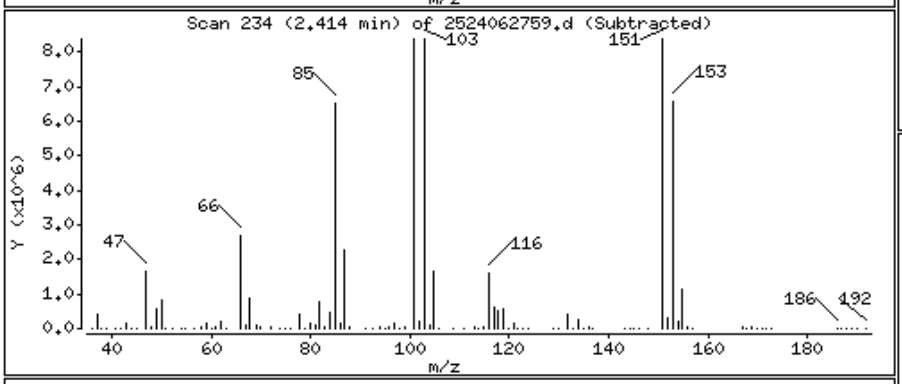
Purge Volume: 5.0 Operator: BST

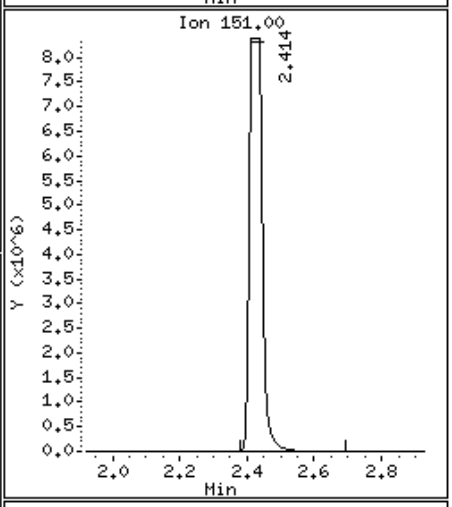
Column phase: DB-VRX Column diameter: 0.25

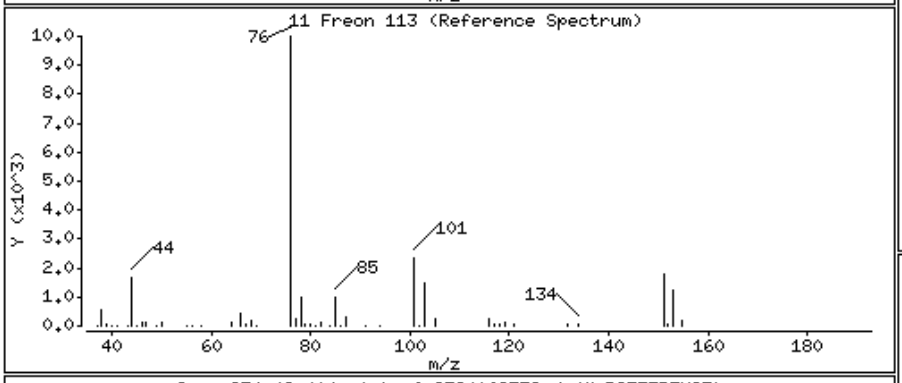
11 Freon 113 Concentration: 3089.36 ug/L

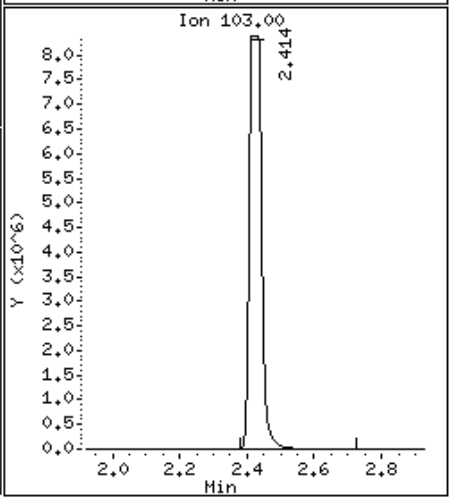


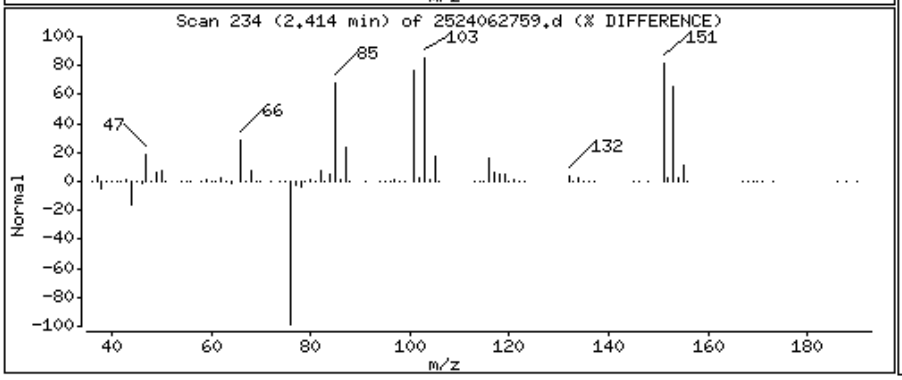












Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062759.d Page 4

Date : 27-JUN-2024 22:34

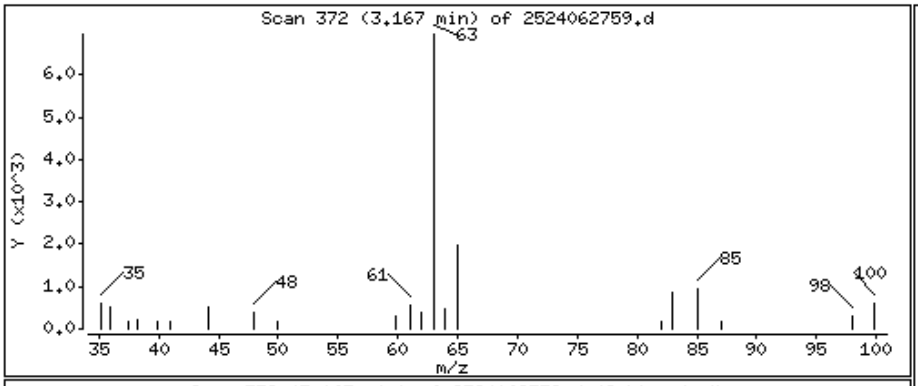
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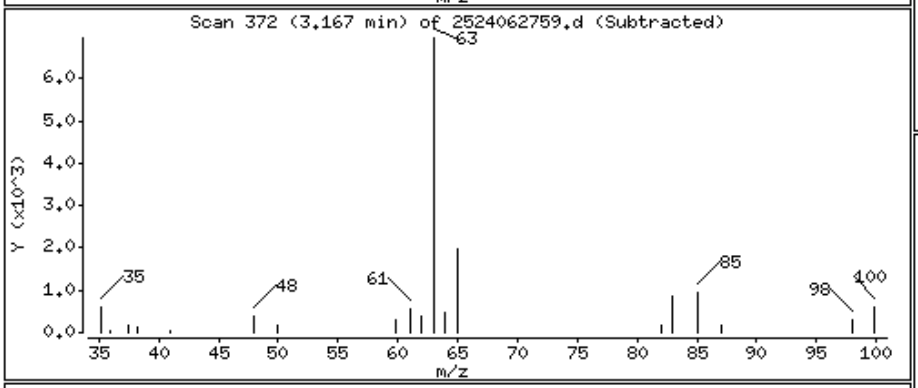
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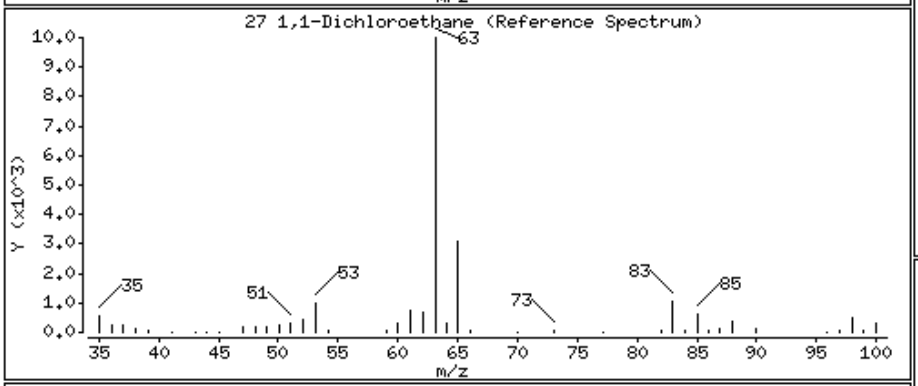
Purge Volume: 5.0 Operator: BST

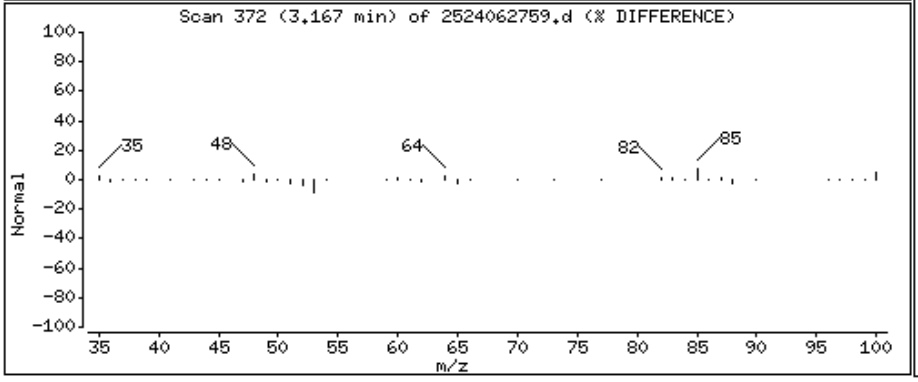
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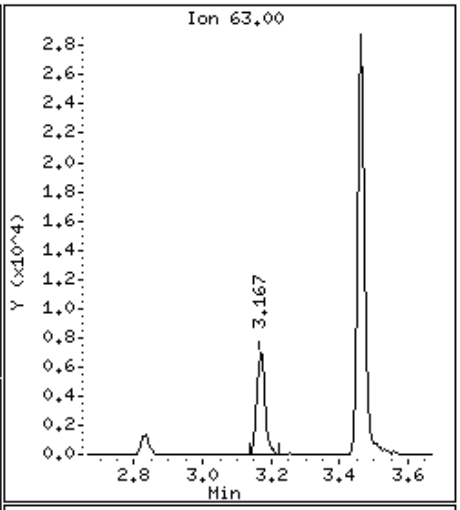
27 1,1-Dichloroethane Concentration: 0.747206 ug/L

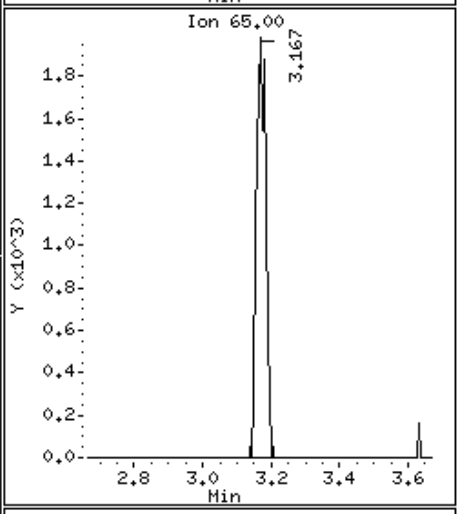


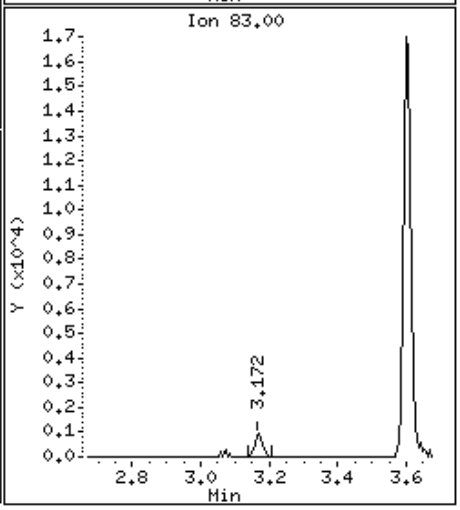












Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062759.d Page 5

Date : 27-JUN-2024 22:34

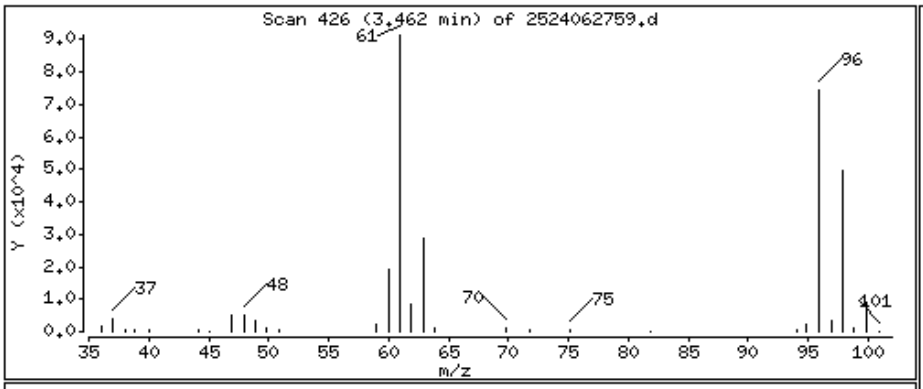
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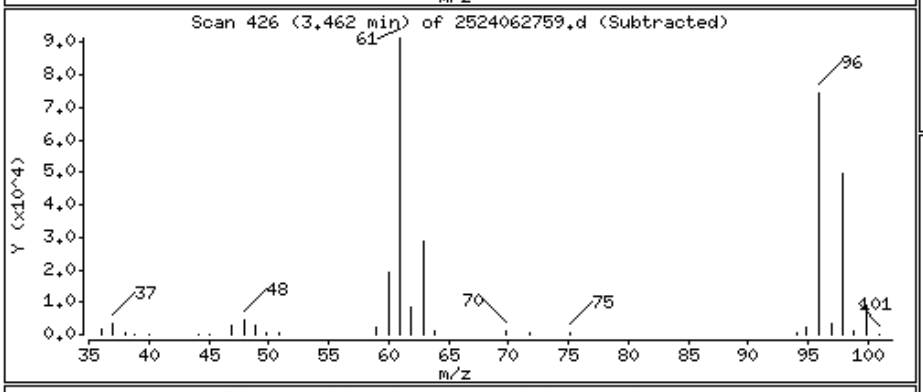
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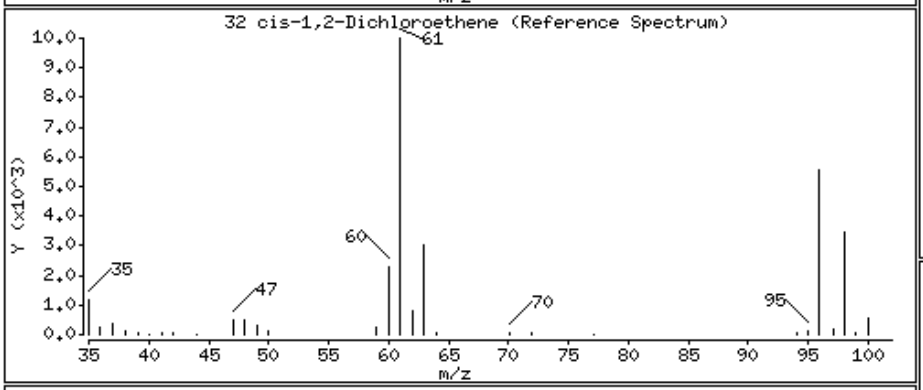
Purge Volume: 5.0 Operator: BST

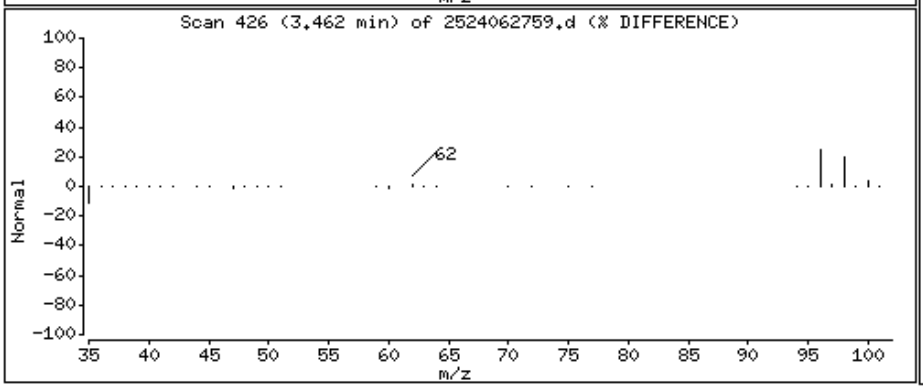
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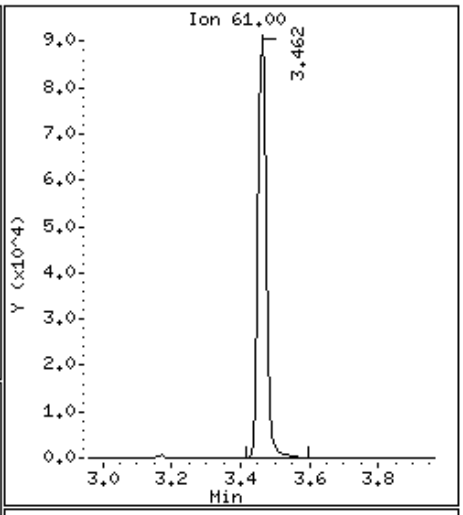
32 cis-1,2-Dichloroethene Concentration: 13.2506 ug/L

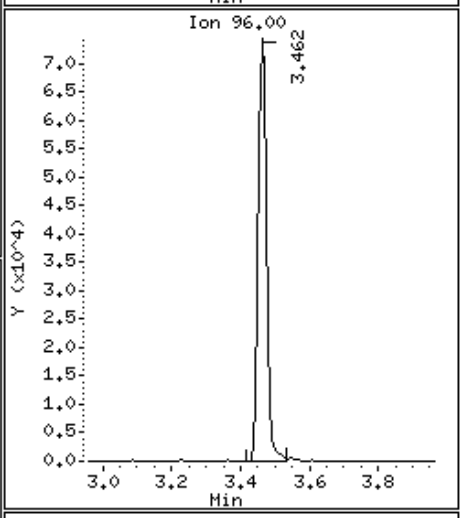


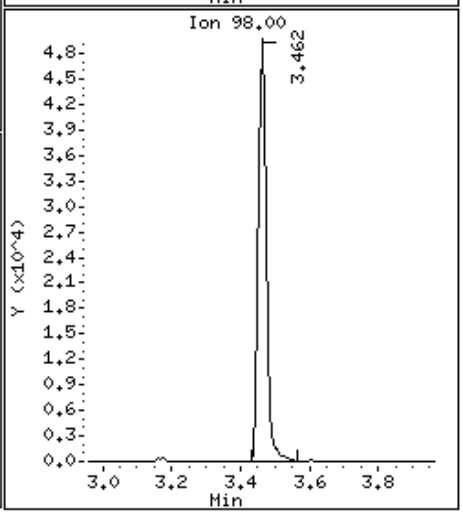












Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062759.d Page 6

Date : 27-JUN-2024 22:34

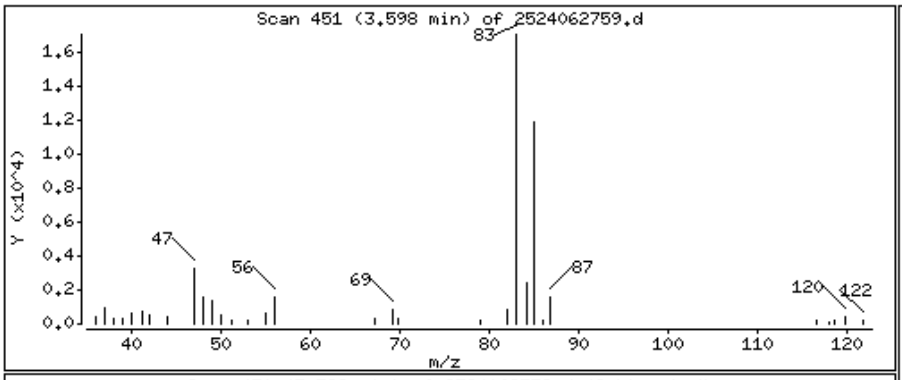
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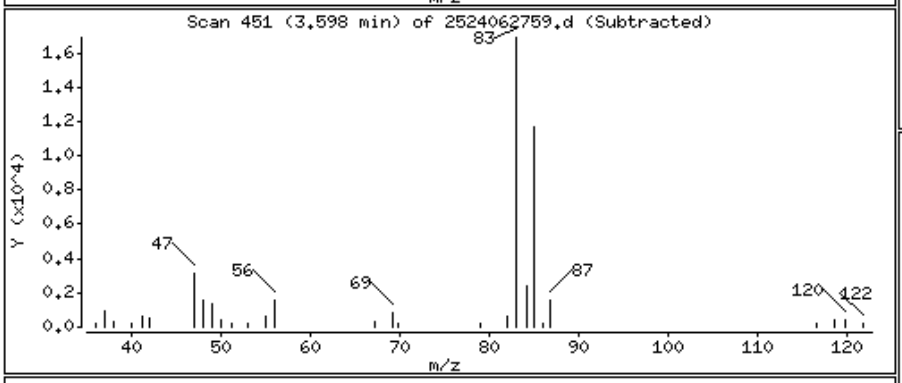
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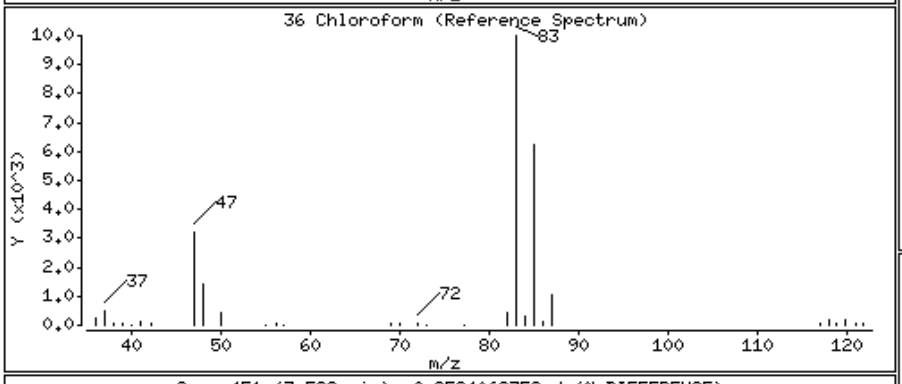
Purge Volume: 5.0 Operator: BST

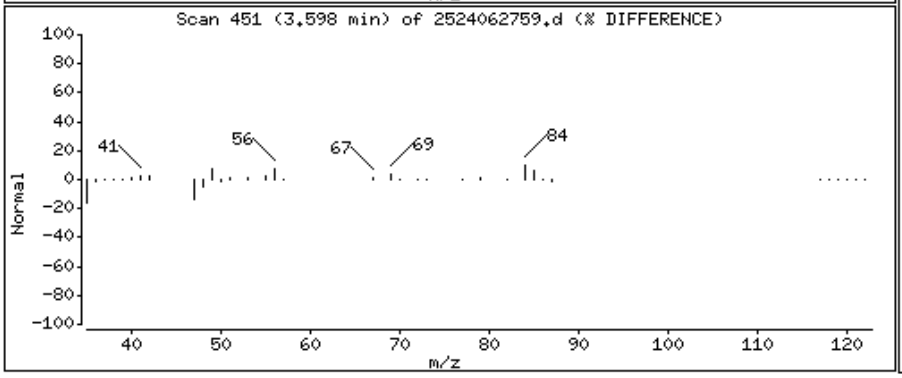
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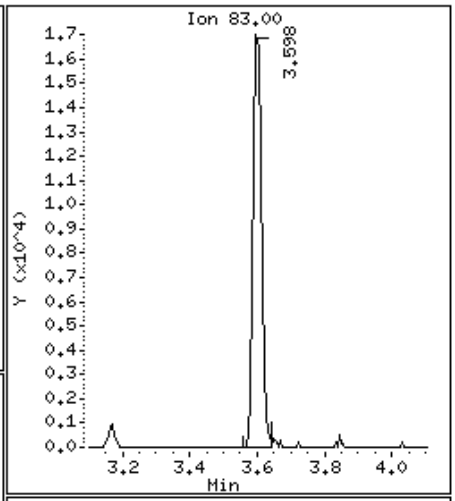
36 Chloroform Concentration: 1.77659 ug/L

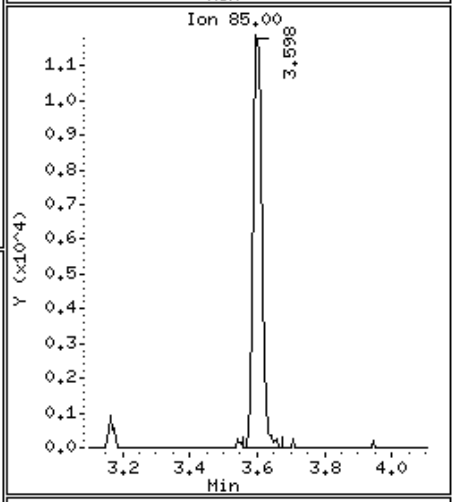


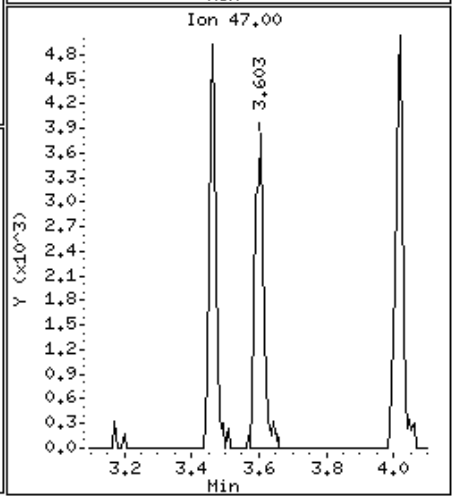












Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062759.d Page 7

Date : 27-JUN-2024 22:34

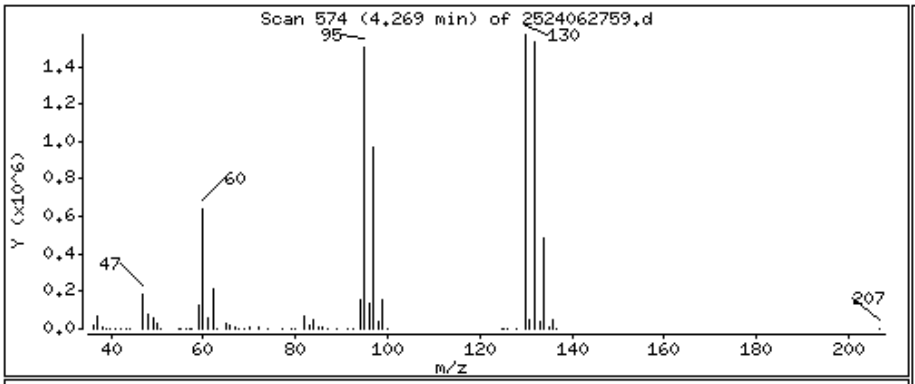
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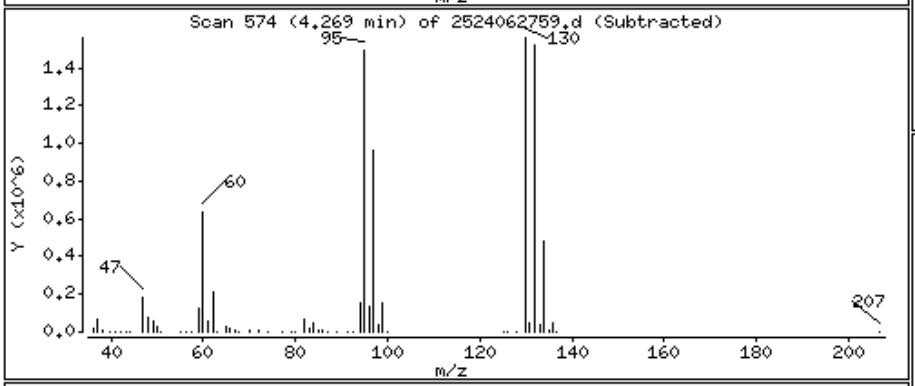
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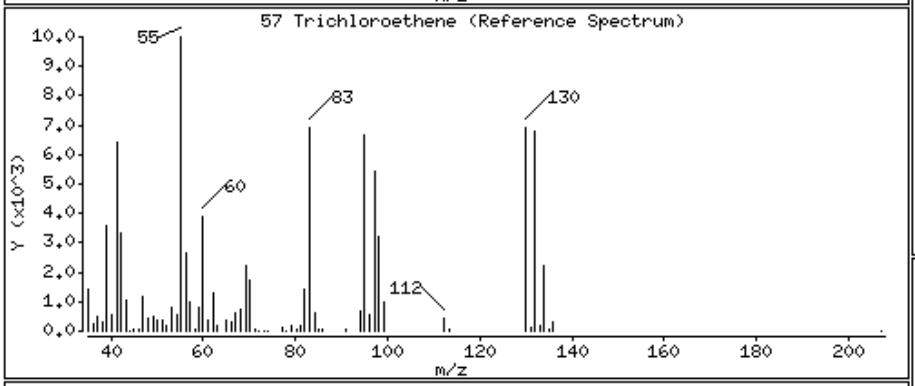
Purge Volume: 5.0 Operator: BST

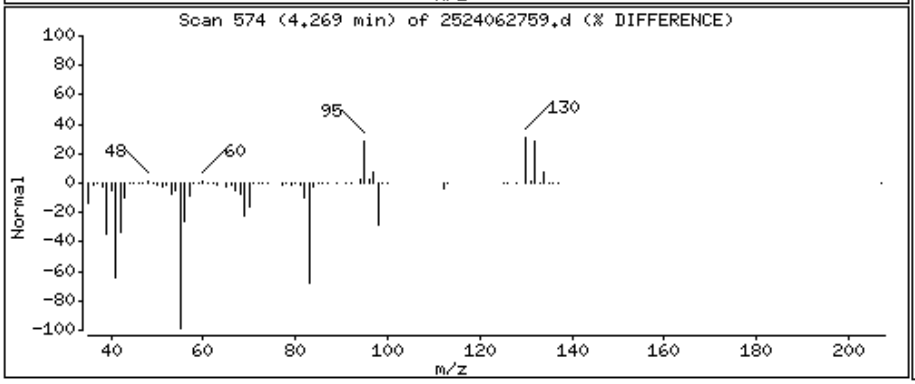
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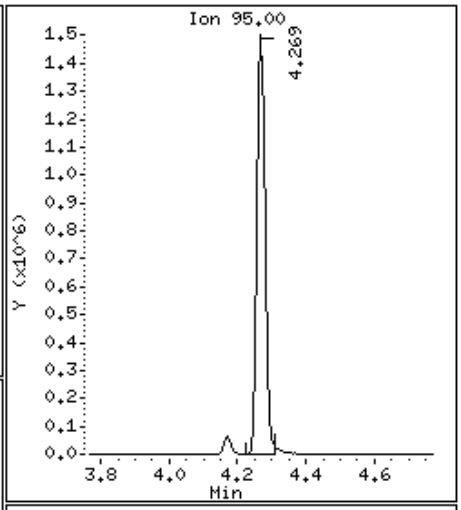
57 Trichloroethene Concentration: 256.561 ug/L

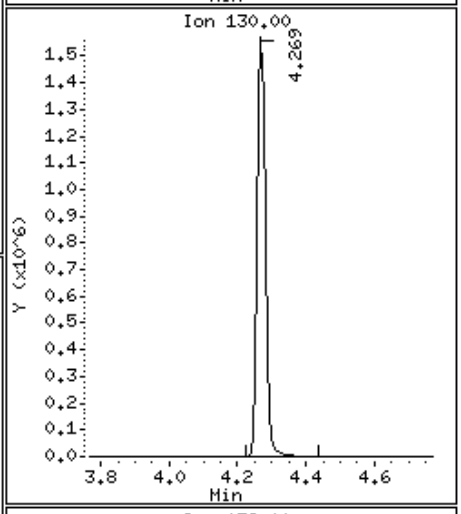


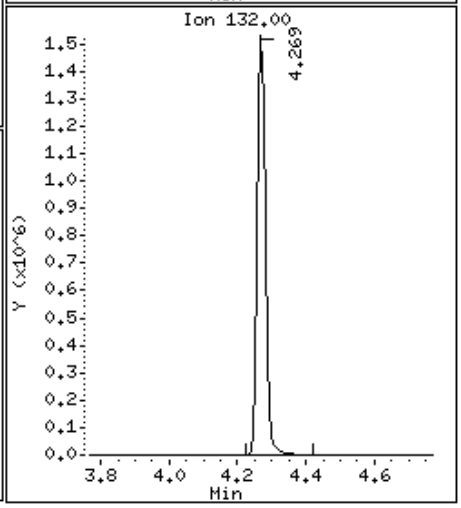












Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062759.d Page 8

Date : 27-JUN-2024 22:34

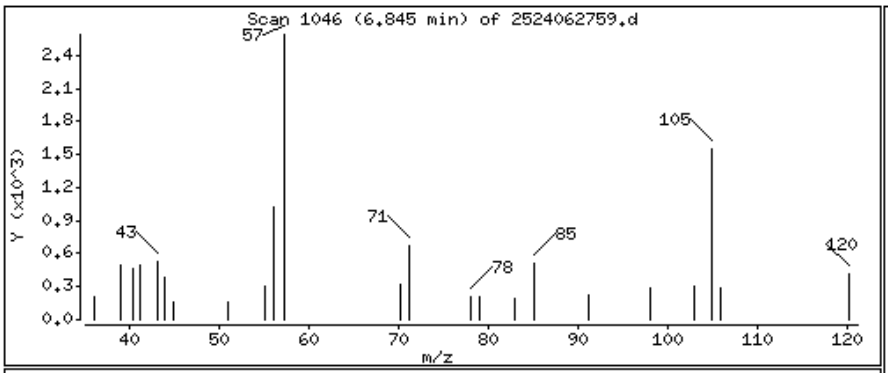
Client ID: HS24061218-01 Instrument: ms25.i

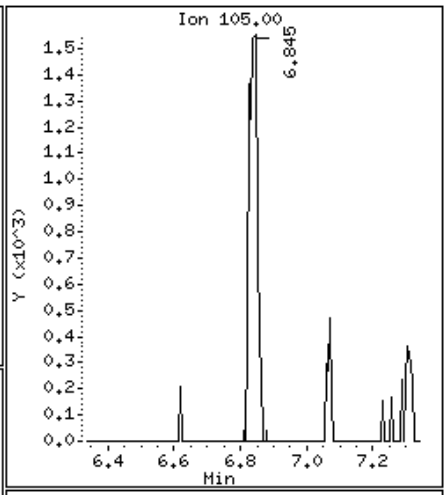
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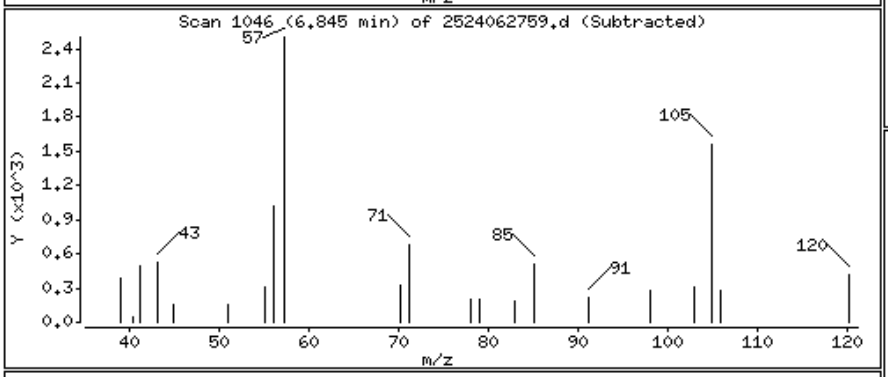
Purge Volume: 5.0 Operator: BST

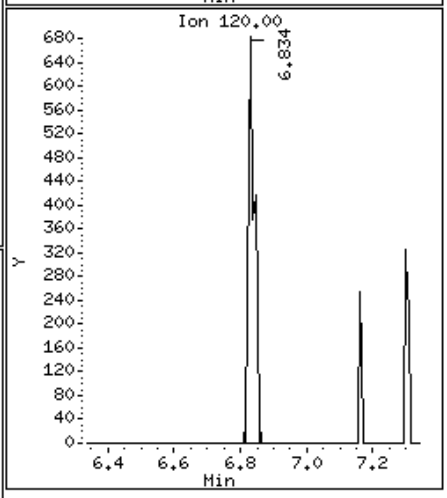
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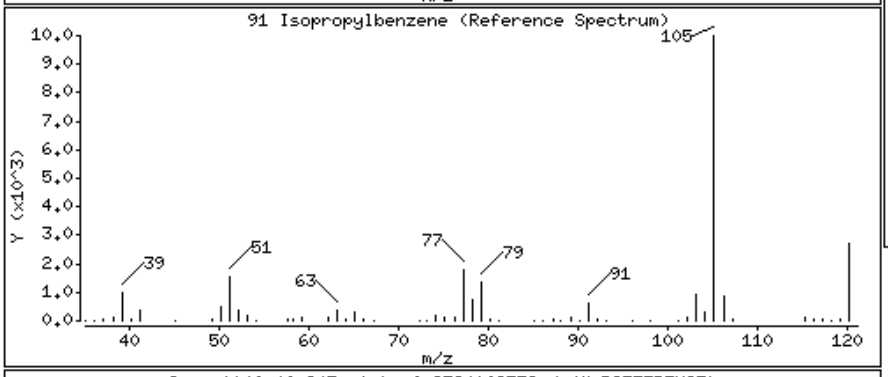
91 Isopropylbenzene Concentration: 0.224094 ug/L

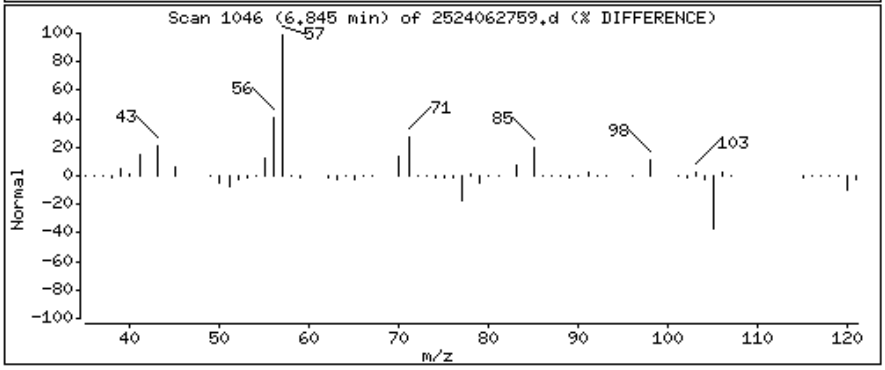












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Inj Date : 27-JUN-2024 22:34
InstruID : ms25.i
LabSampID : 3366036001

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 05:35
Client ID: HS24061218-01
DataFile: //almdtws014/targetdata/chem2/ms25.i/25_2024/25240627a.b/25240627
Inj Date: 27-JUN-2024 22:34
Operator: BST

Acetone	Acetonitrile
tert-amyl methyl Ether	tert-Amyl Alcohol
tert-Amyl Ethylether	Bromodichloromethane
Carbon Disulfide	1-Chlorobutane
3-Chloro-1-propene	Cyclohexane
1,1-Dichloroethene	trans-1,2-Dichloroethene
Dichlorofluoromethane	Ethyl Ether
Ethyl methacrylate	Heptane
Methacrylonitrile	Methyl acetate
Methyl cyclohexane	Methylene Chloride
2-Nitropropane	Propionitrile
1,1,1-Trichloroethane	Trichlorofluoromethane

Data File: 2524062760.D Page 1
Report Date: 28-Jun-2024 15:16

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062760.D
Lab Smp Id: 3366036002 Client Smp ID: HS24061218-02
Inj Date : 27-JUN-2024 22:54
Operator : BST Inst ID: ms25.i
Smp Info : 3366036002;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	58833	7.66484	7.66484	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062760.D Page 2
Report Date: 28-Jun-2024 15:16

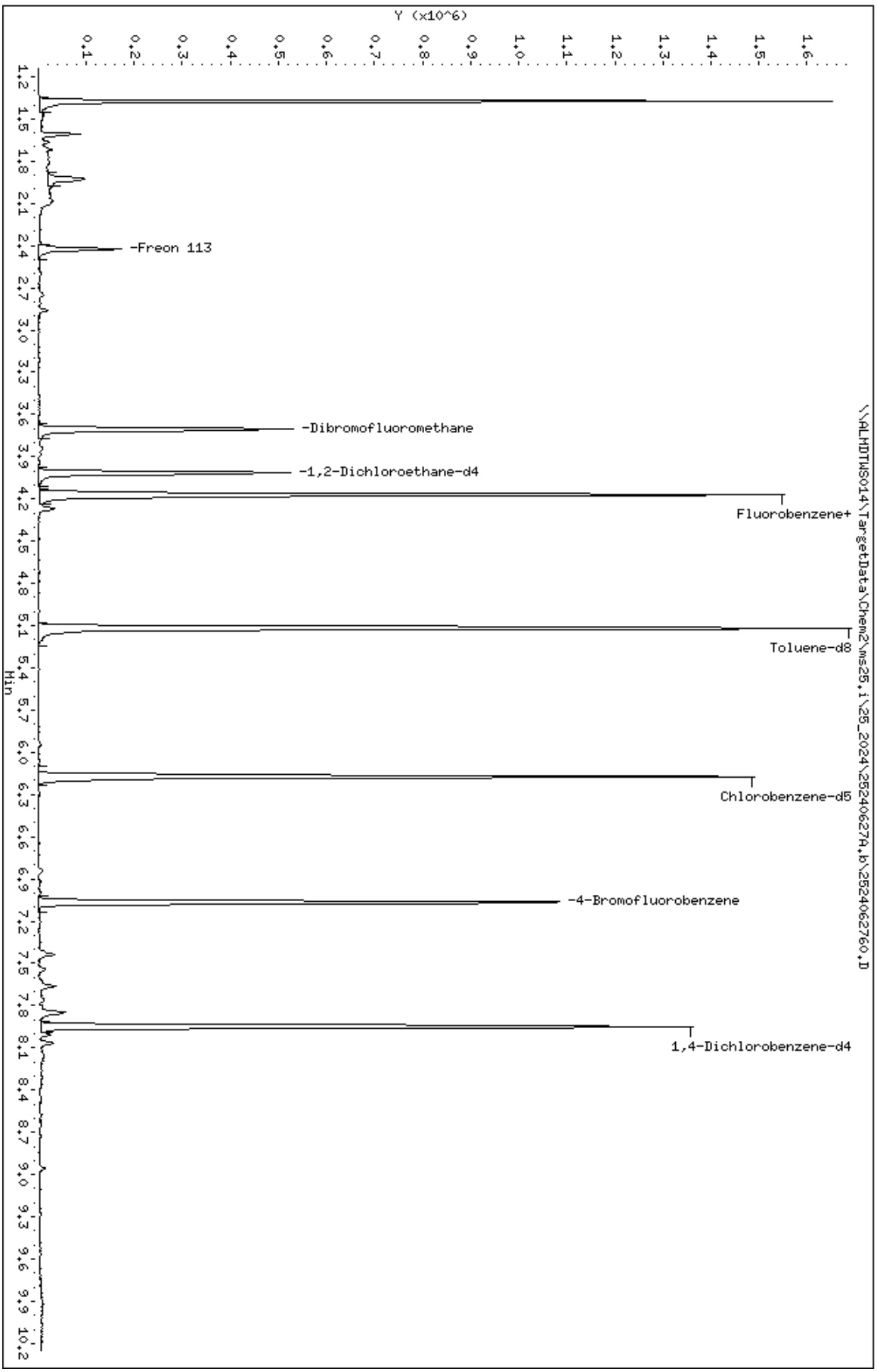
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	249143	27.8349	27.8349	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	287594	30.4802	30.4802	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1134395	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.274	4.269	(1.025)	8356	0.92810	0.928097(a)	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	987435	30.5017	30.5017	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062760.D Page 3
Report Date: 28-Jun-2024 15:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	408892	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	284464	29.8145	29.8145	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	344884	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240627A,b\25240627G0,D
Date : 27-JUN-2024 22:54
Client ID: HS24061218-02
Sample Info: 33660360002;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: BST
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062760.D Page 2

Date : 27-JUN-2024 22:54

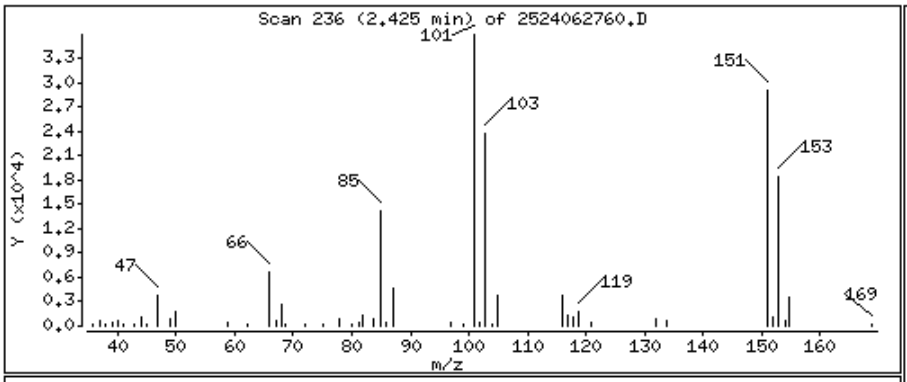
Client ID: HS24061218-02 Instrument: ms25.i

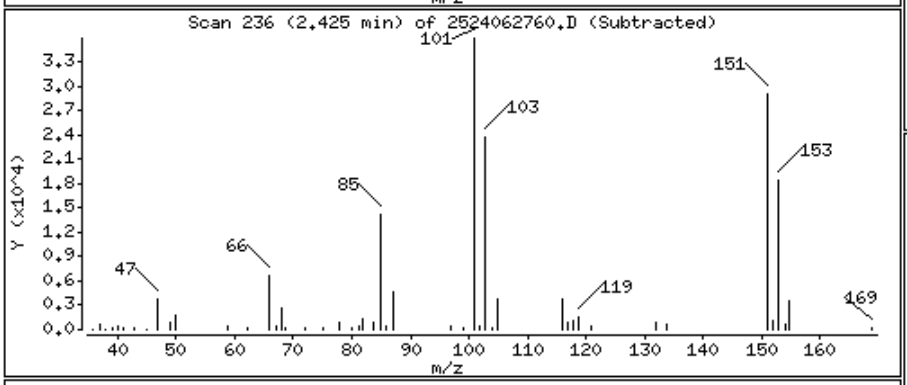
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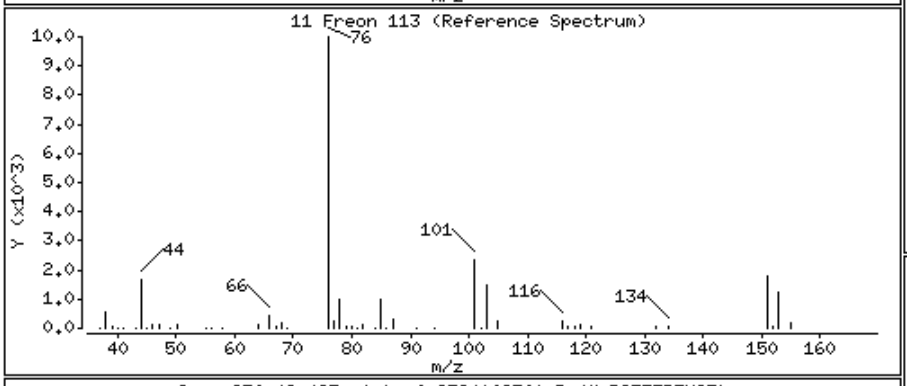
Purge Volume: 5.0 Operator: BST

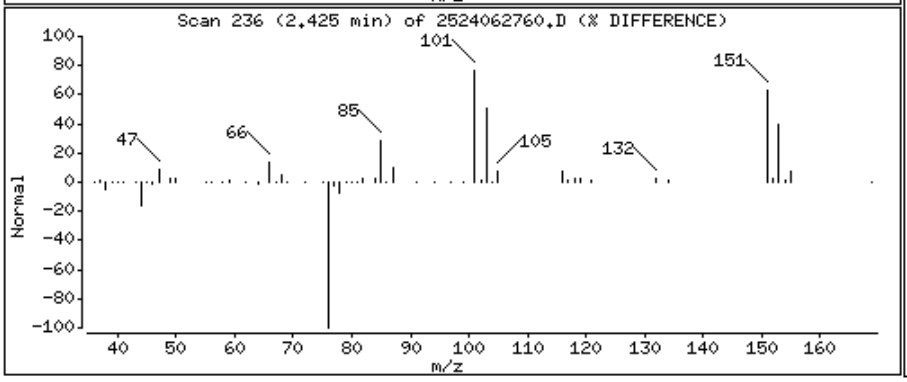
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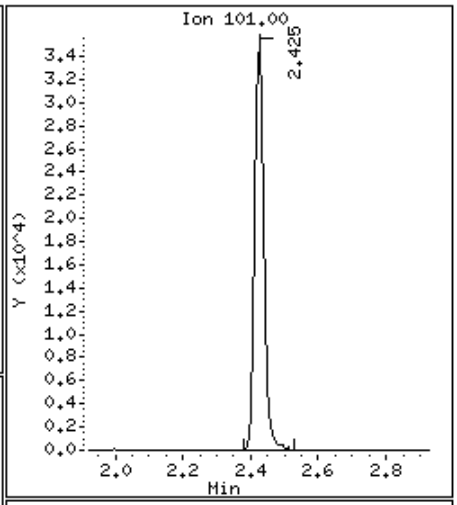
11 Freon 113 Concentration: 7.66484 ug/L

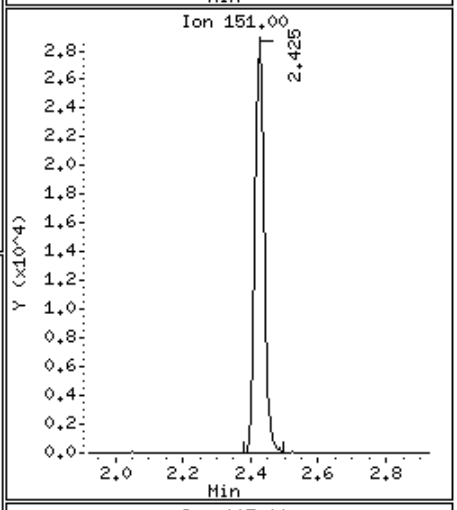


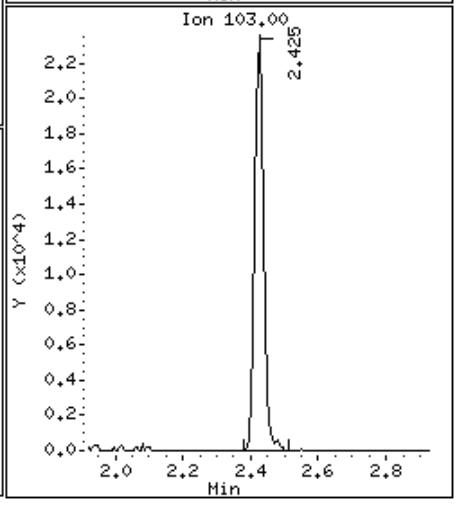












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062760.D Page 3

Date : 27-JUN-2024 22:54

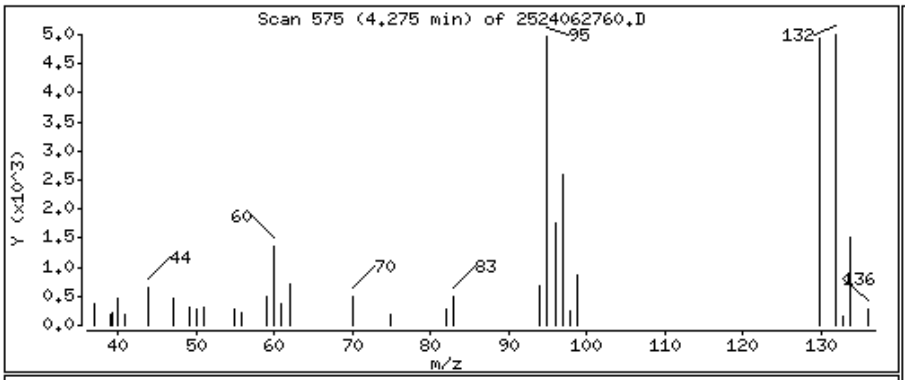
Client ID: HS24061218-02 Instrument: ms25.i

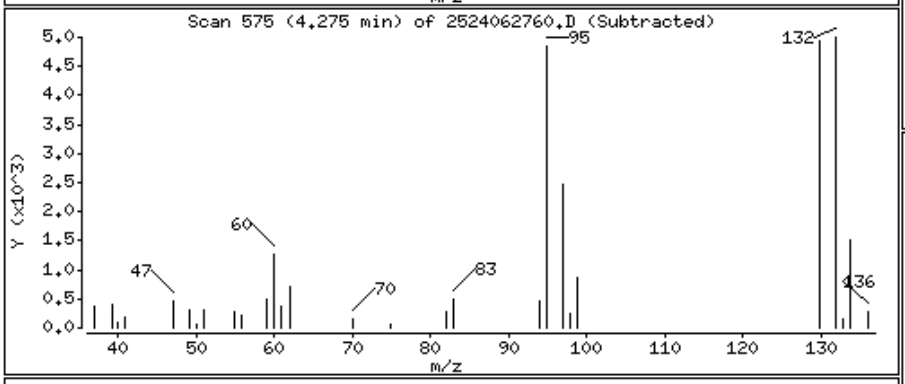
Sample Info: 3366036002;;1;;;;;

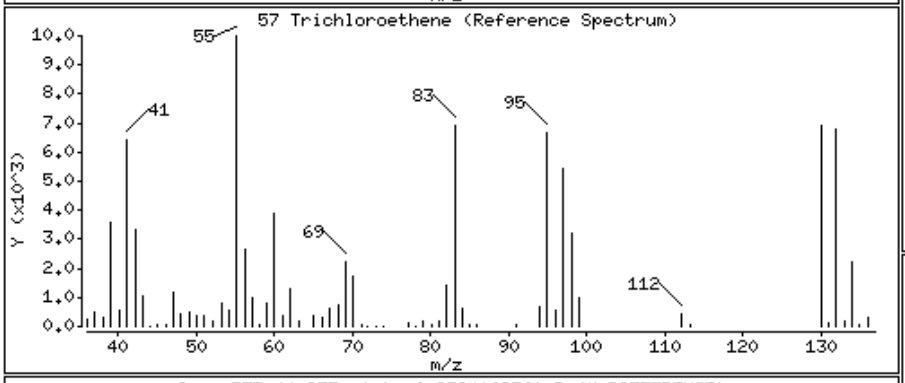
Purge Volume: 5.0 Operator: BST

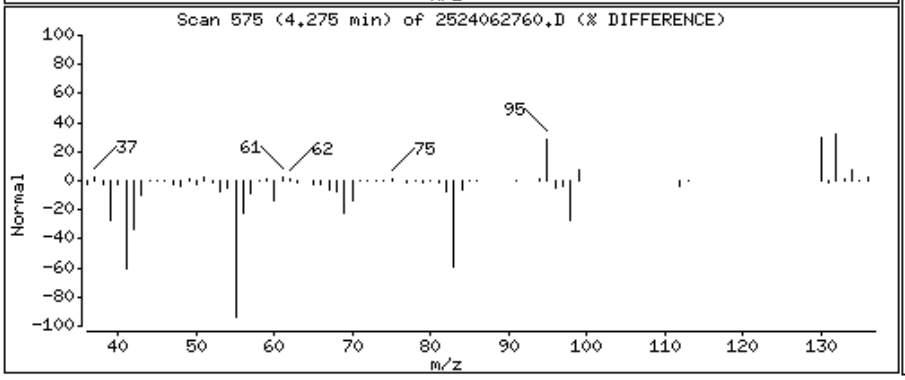
Column phase: DB-VRX Column diameter: 0.25

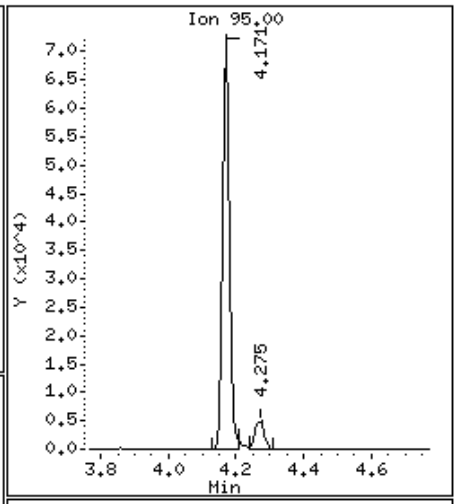
57 Trichloroethene Concentration: 0.928097 ug/L

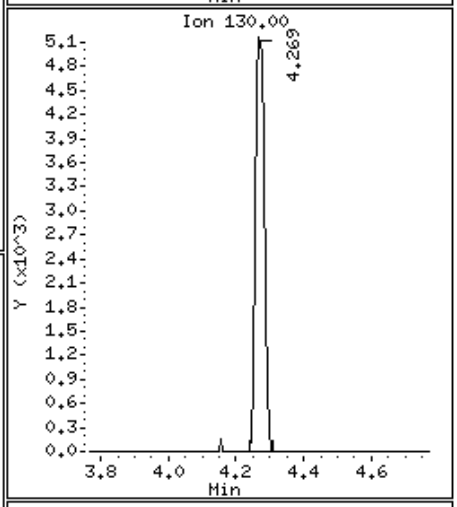


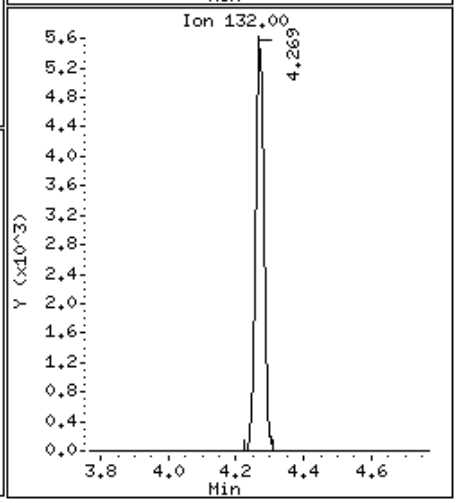












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062760.D
Inj Date : 27-JUN-2024 22:54
InstruID : ms25.i
LabSampID : 3366036002

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:16
Client ID: HS24061218-02
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 27-JUN-2024 22:54
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Heptane
Trichlorofluoromethane
Chloroethane
Ethyl methacrylate
2-Nitropropane

Data File: 2524062761.D Page 1
Report Date: 28-Jun-2024 15:16

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062761.D
Lab Smp Id: 3366036003 Client Smp ID: HS24061218-03
Inj Date : 27-JUN-2024 23:14
Operator : BST Inst ID: ms25.i
Smp Info : 3366036003;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	21384	2.81594	2.81594	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062761.D Page 2
Report Date: 28-Jun-2024 15:16

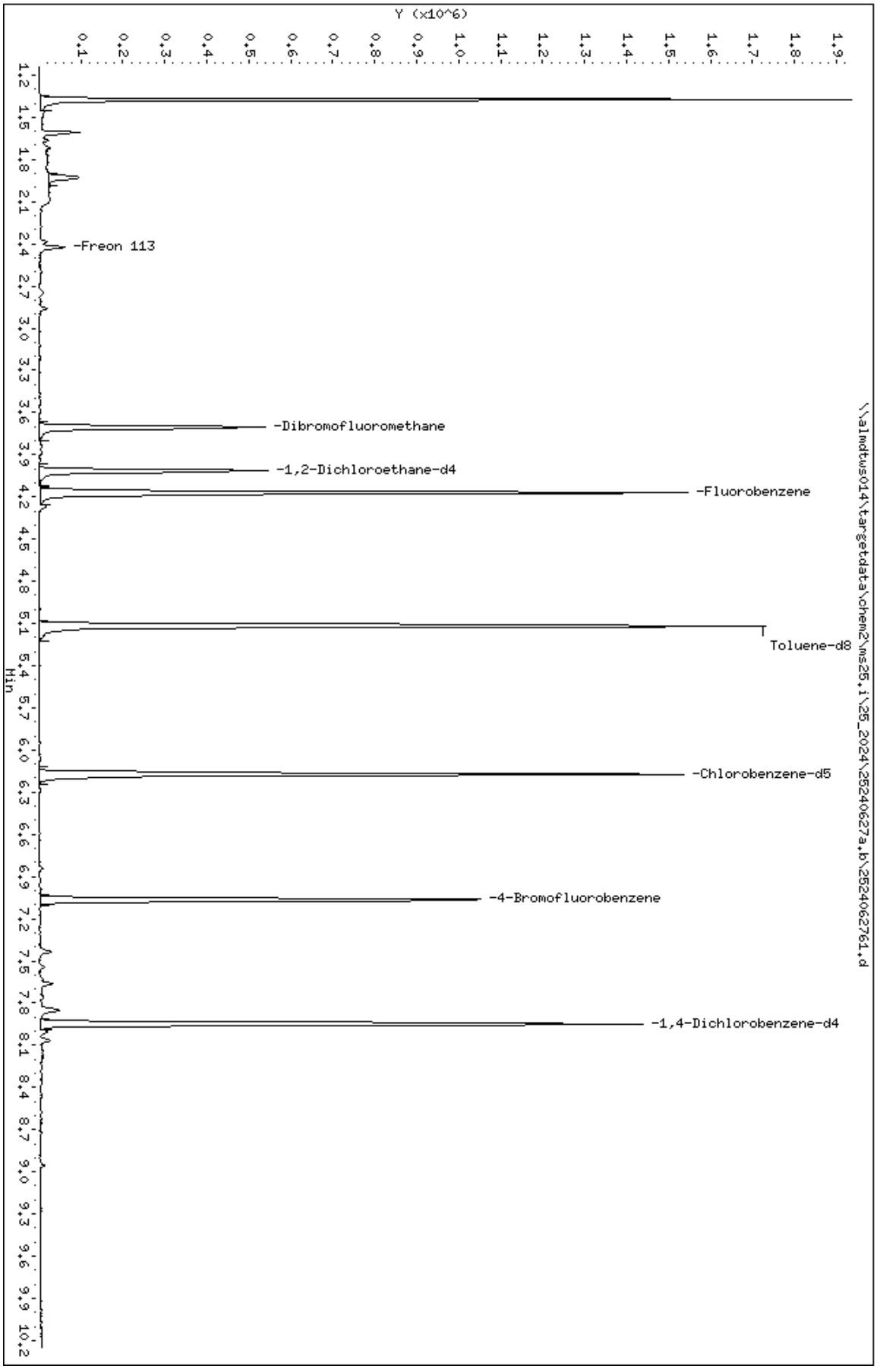
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	251999	28.4572	28.4572	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	294410	31.5386	31.5386	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1122307	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	991291	30.4827	30.4827	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062761.D Page 3
Report Date: 28-Jun-2024 15:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	410745	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	280561	28.2543	28.2543	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.946	7.952	(1.000)	358935	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.


Data File: \\almdtws014\targetdata\chem2\ms25,i\25_2024\25240627a,b\25240627b1.d
Date : 27-JUN-2024 23:14
Client ID: HS240641218-03
Sample Info: 33660360003;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: BST
Column diameter: 0.25
Page 1
Y (x10^6)
Min
-Freon 113
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene
Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
\\almdtws014\targetdata\chem2\ms25,i\25_2024\25240627a,b\25240627b1.d

Data File: \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062761.d Page 2

Date : 27-JUN-2024 23:14

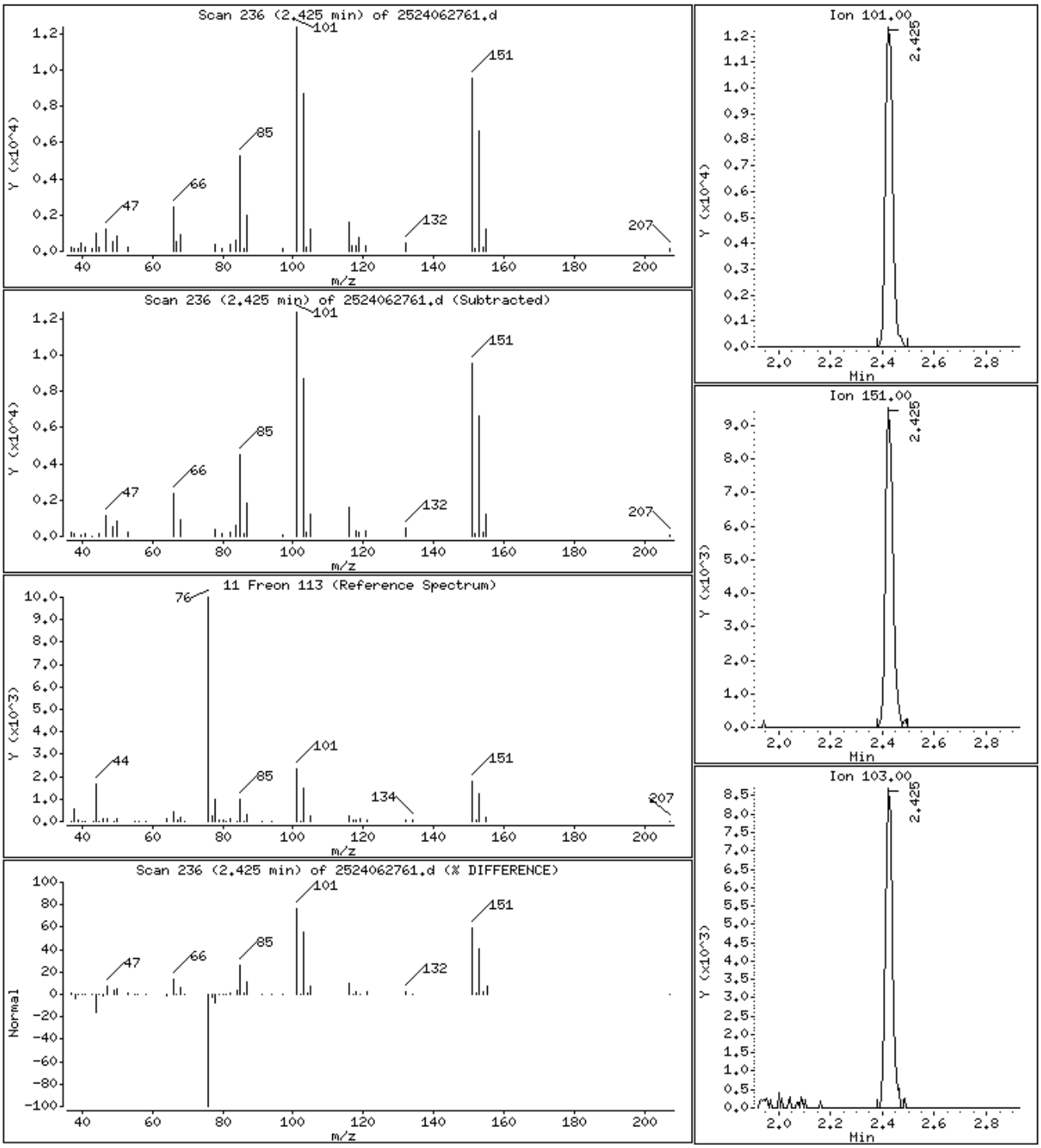
Client ID: HS24061218-03 Instrument: ms25.i

Sample Info: 3366036003;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 2.81594 ug/L



Data File : \\almdtws014\targetdata\chem2\ms25.i\25_2024\25240627a.b\2524062761.d
Inj Date : 27-JUN-2024 23:14
InstruID : ms25.i
LabSampID : 3366036003

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 07/09/2024 05:36
Client ID: HS24061218-03
DataFile: //almdtws014/targetdata/chem2/ms25.i/25_2024/25240627a.b/25240627
Inj Date: 27-JUN-2024 23:14
Operator: BST

Acetonitrile
3-Chloro-1-propene
Dichlorofluoromethane
Heptane
2-Nitropropane
Trichlorofluoromethane
Chloroethane
1,2-Dichloroethane
Ethyl methacrylate
Methacrylonitrile
Trichloroethene

Data File: 2524062762.D Page 1
Report Date: 28-Jun-2024 15:17

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062762.D
Lab Smp Id: 3366036004 Client Smp ID: HS24061218-04
Inj Date : 27-JUN-2024 23:35
Operator : BST Inst ID: ms25.i
Smp Info : 3366036004;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	11242	1.53715	1.53715	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062762.D
Report Date: 28-Jun-2024 15:17

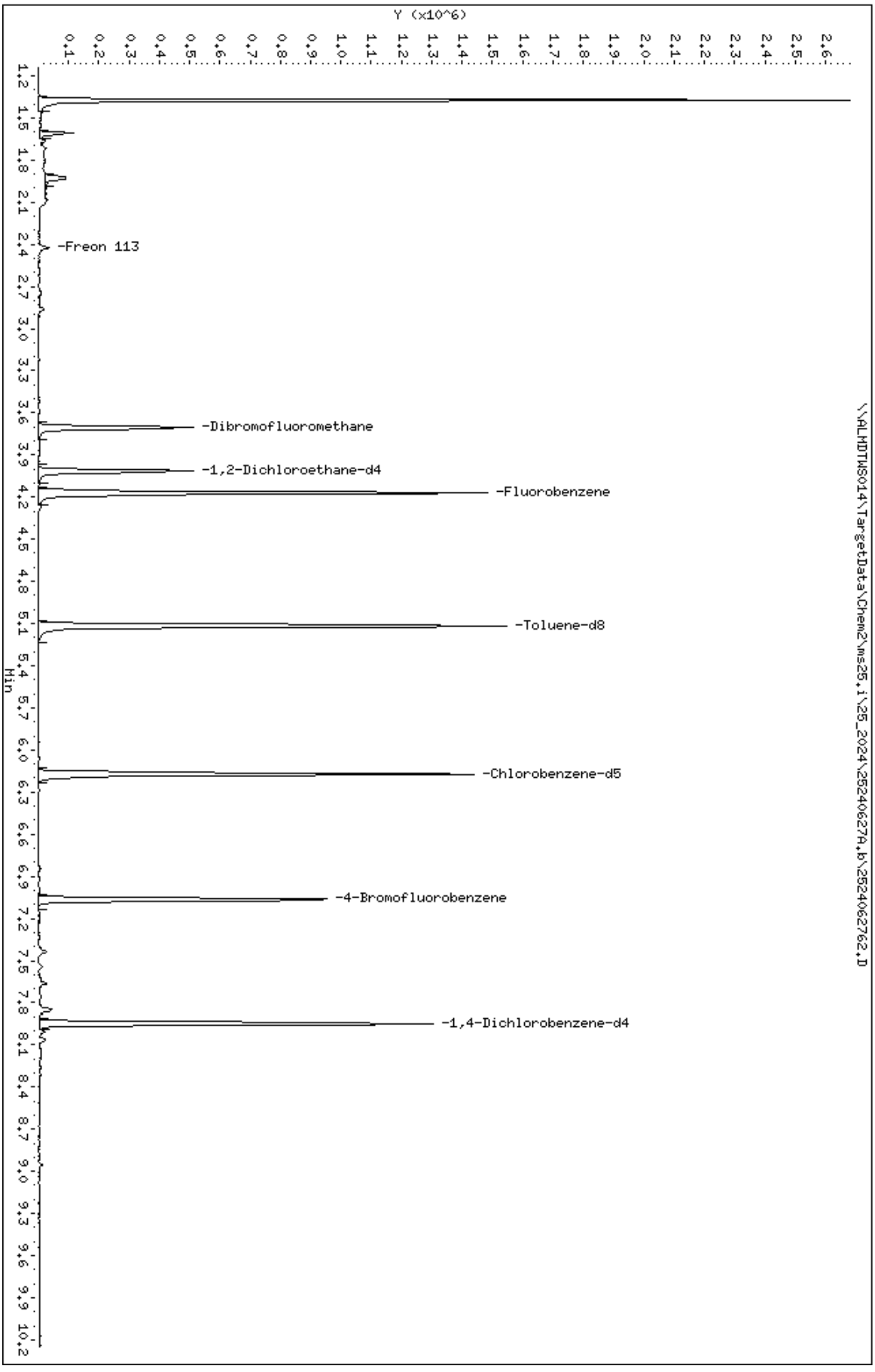
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	235711	27.6384	27.6384	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	276400	30.7445	30.7445	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1080868	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.114	5.120	(0.829)	907231	29.2639	29.2639	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062762.D Page 3
Report Date: 28-Jun-2024 15:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	391570	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	254832	28.2012	28.2012	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	326632	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: \\ALHDTWS014\TargetData\Chem2\ms25.i\25_2024\2524062?A.b\2524062762.D
Date : 27-JUN-2024 23:35
Client ID: HS2406121B-04
Sample Info: 336603600?;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: BST
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062762.D Page 2

Date : 27-JUN-2024 23:35

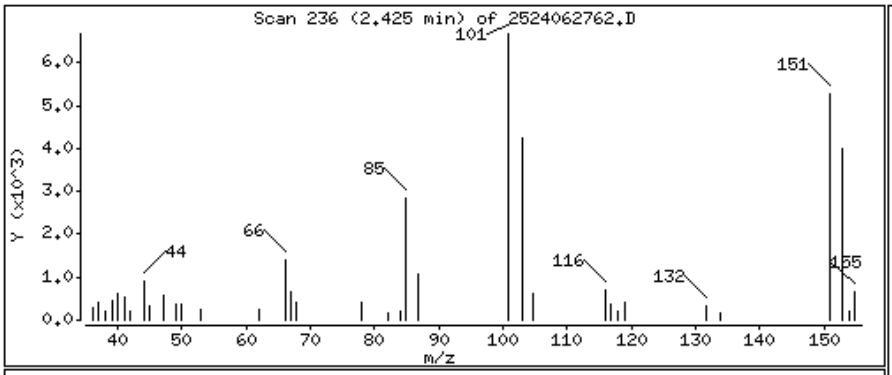
Client ID: HS24061218-04 Instrument: ms25.i

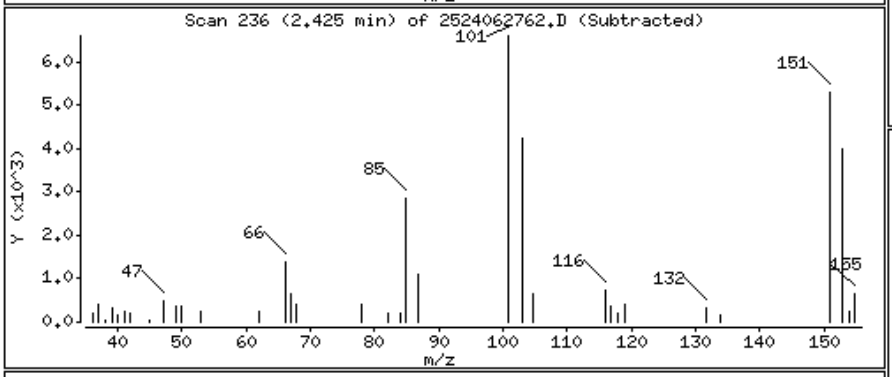
Sample Info: 3366036004;;1;;;;;

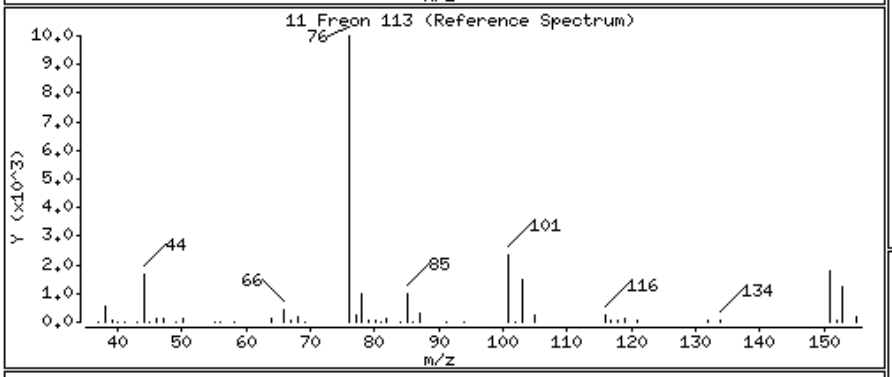
Purge Volume: 5.0 Operator: BST

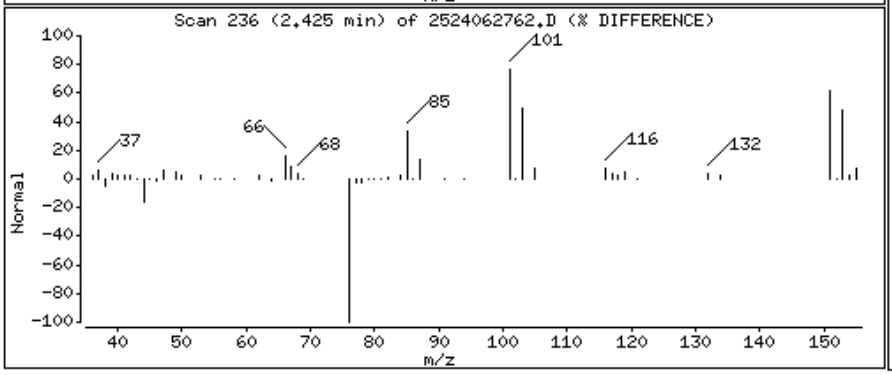
Column phase: DB-VRX Column diameter: 0.25

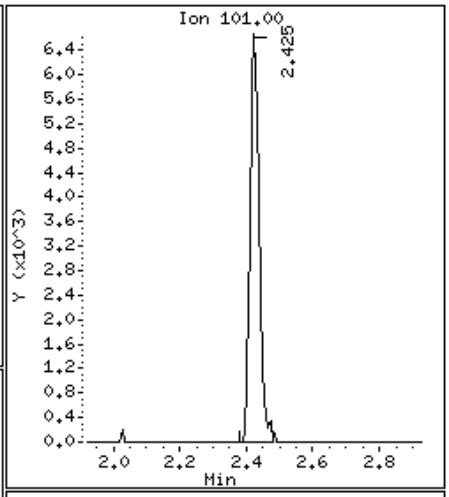
11 Freon 113 Concentration: 1.53715 ug/L

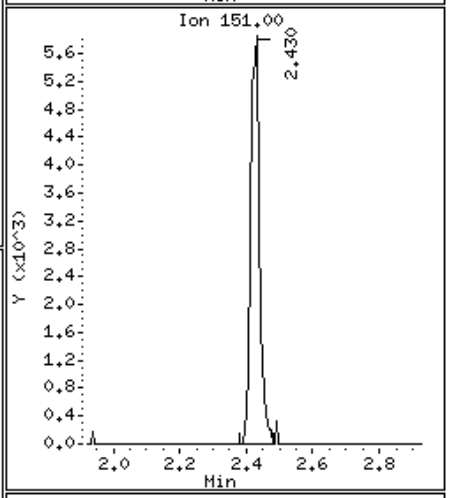


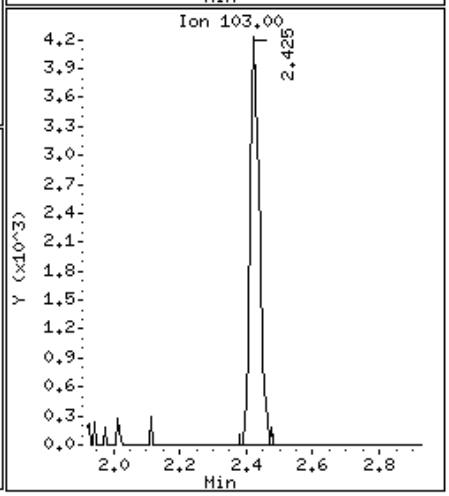












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062762.D
Inj Date : 27-JUN-2024 23:35
InstruID : ms25.i
LabSampID : 3366036004

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:17
Client ID: HS24061218-04
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 27-JUN-2024 23:35
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Heptane
2-Nitropropane
Chloroethane
Ethyl methacrylate
Methacrylonitrile
Trichlorofluoromethane

Data File: 2524062763.D Page 1
Report Date: 28-Jun-2024 15:17

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062763.D
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Inj Date : 27-JUN-2024 23:55
Operator : BST Inst ID: ms25.i
Smp Info : 3366036005;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	8562	1.14556	1.14556	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062763.D Page 2
Report Date: 28-Jun-2024 15:17

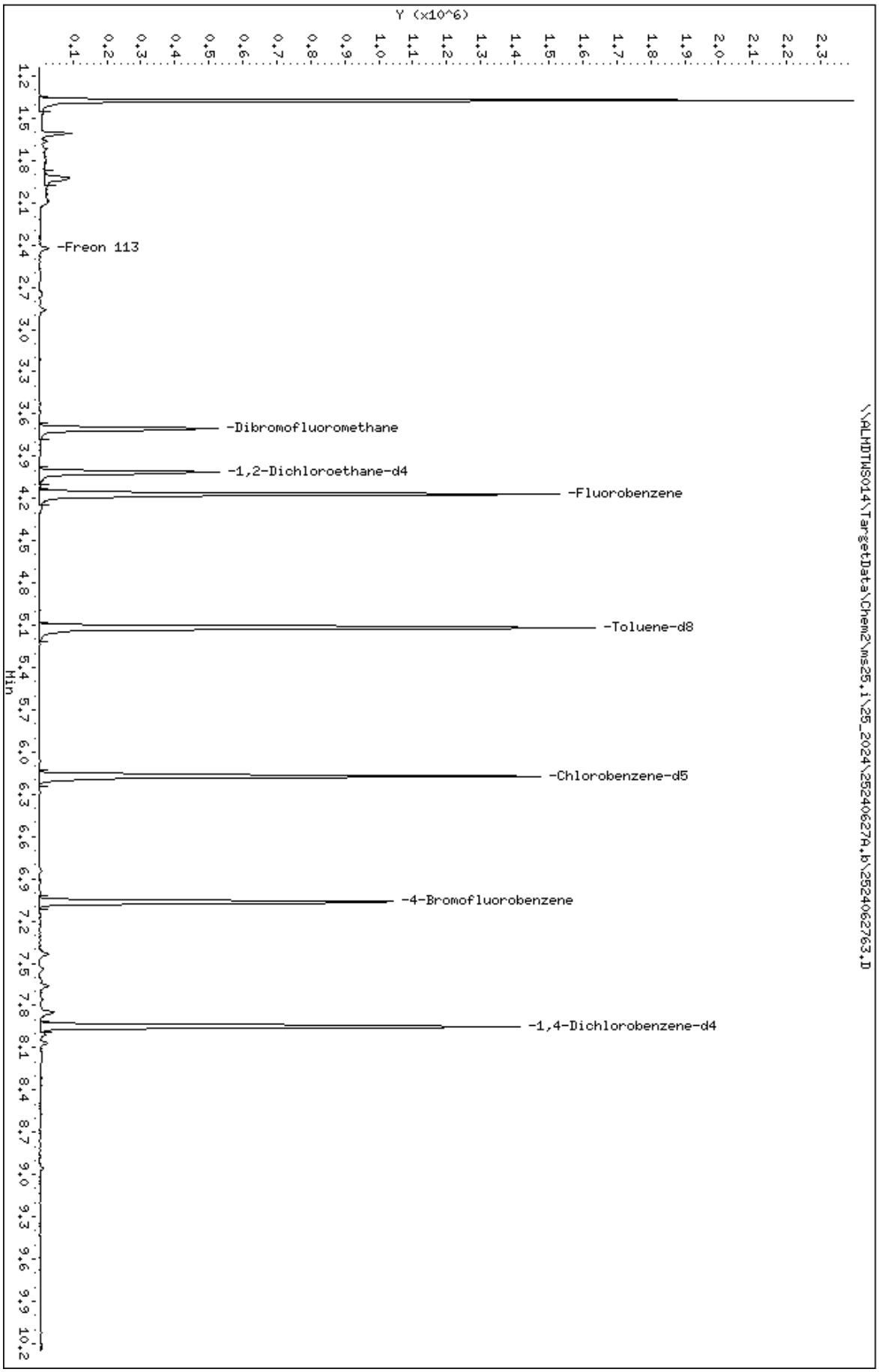
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	248177	28.4749	28.4749	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	285593	31.0846	31.0846	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1104598	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	969657	30.3557	30.3557	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062763.D Page 3
Report Date: 28-Jun-2024 15:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	403461	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	271333	28.0345	28.0345	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	349850	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240627A,b\25240627G3.D
Date : 27-JUN-2024 23:55
Client ID: HS24061218-05
Sample Info: 33660360005;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25,i
Operator: BST
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062763.D Page 2

Date : 27-JUN-2024 23:55

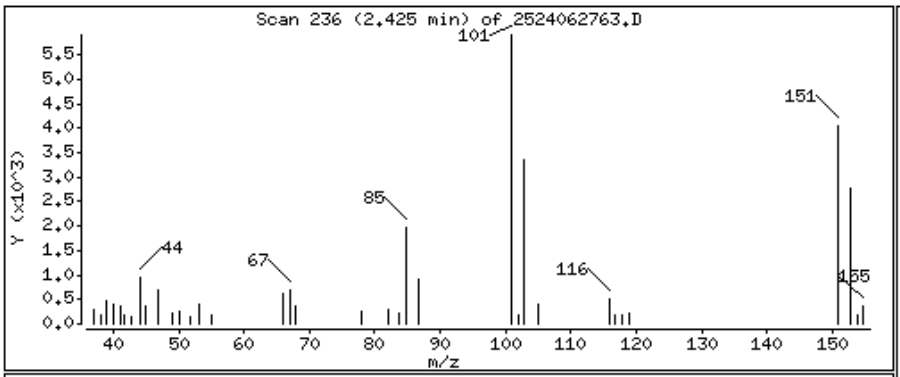
Client ID: HS24061218-05 Instrument: ms25.i

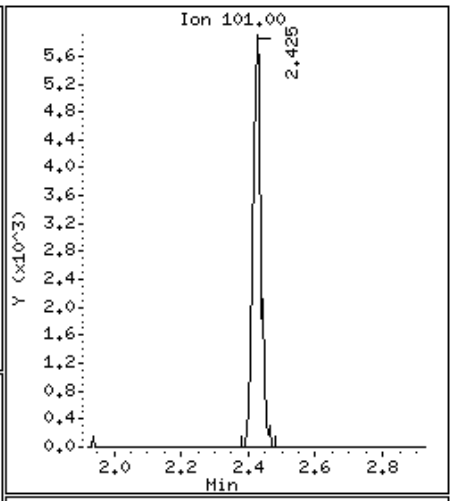
Sample Info: 3366036005;;1;;;;;

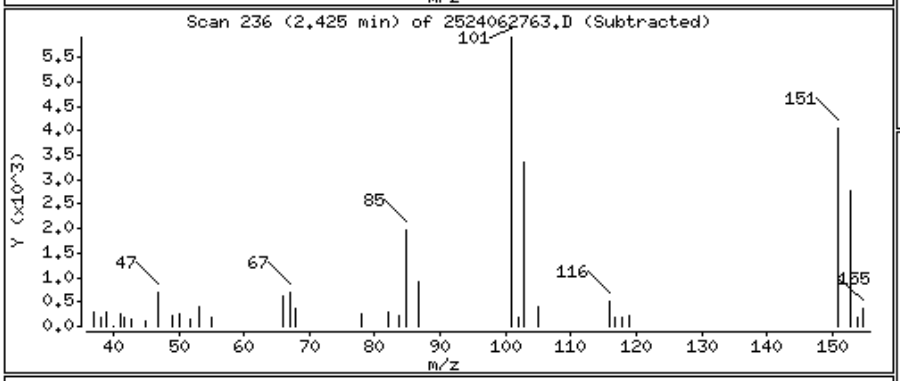
Purge Volume: 5.0 Operator: BST

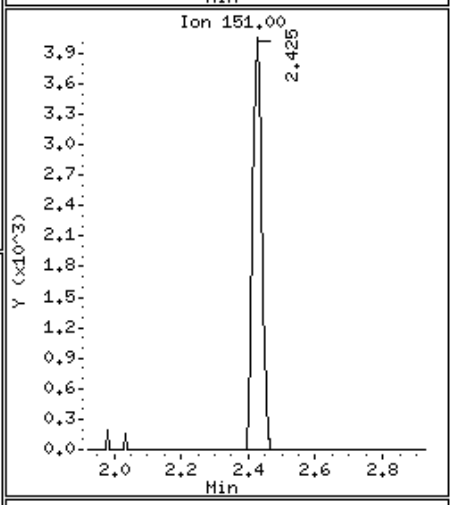
Column phase: DB-VRX Column diameter: 0.25

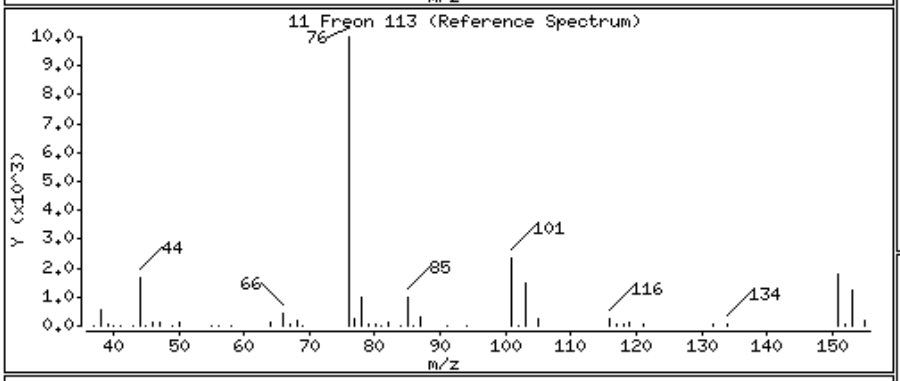
11 Freon 113 Concentration: 1.14556 ug/L

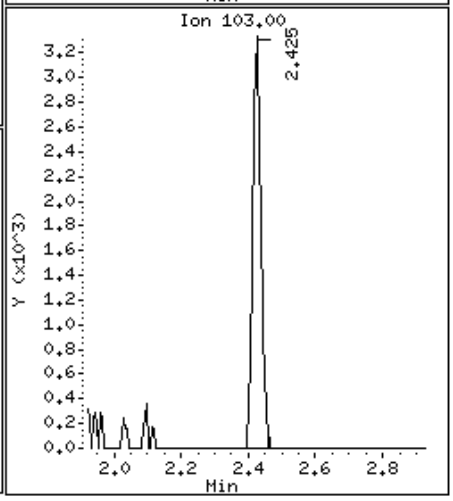


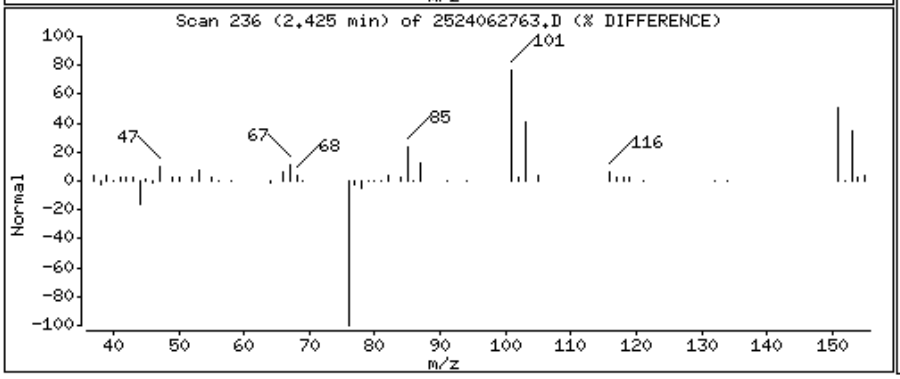












Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062763.D
Inj Date : 27-JUN-2024 23:55
InstruID : ms25.i
LabSampID : 3366036005

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:18
Client ID: HS24061218-05
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 27-JUN-2024 23:55
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Heptane
2-Nitropropane
Chloroethane
Ethyl methacrylate
Methacrylonitrile
Trichlorofluoromethane

Data File: 2524062764.D Page 1
Report Date: 28-Jun-2024 15:18

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062764.D
Lab Smp Id: 3366036006 Client Smp ID: HS24061218-06
Inj Date : 28-JUN-2024 00:16
Operator : BST Inst ID: ms25.i
Smp Info : 3366036006;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.424	2.424	(0.581)	6168	0.83299	0.832989(a)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062764.D Page 2
Report Date: 28-Jun-2024 15:18

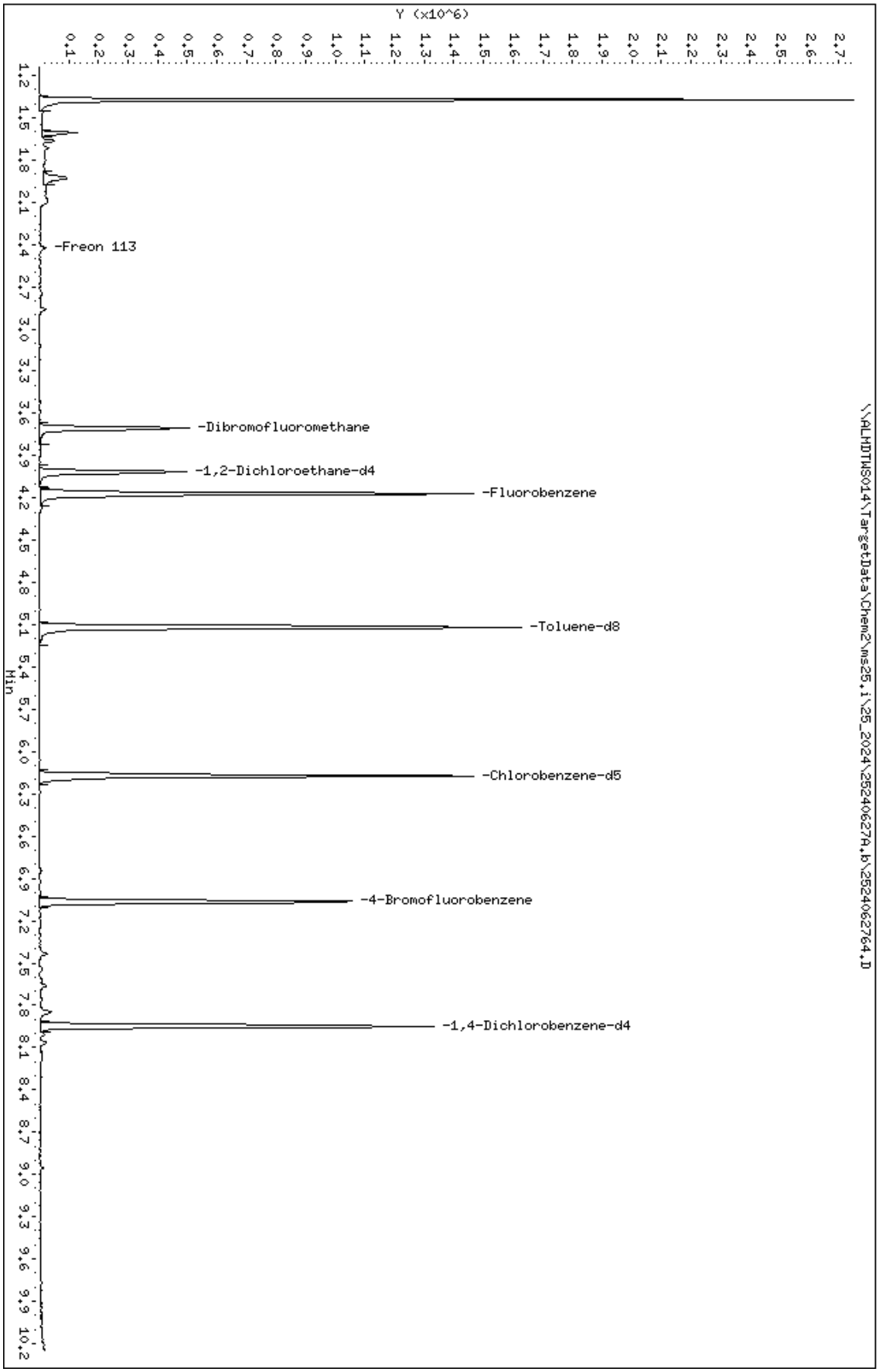
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	231734	26.8376	26.8376	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.012	(0.963)	274776	30.1877	30.1877	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1094338	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	945007	30.3091	30.3091	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062764.D Page 3
Report Date: 28-Jun-2024 15:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	393810	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	276731	30.1244	30.1244	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	332057	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\2524062?A.b\2524062764.D
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Client ID: HS24061218-06
Sample Info: 33660360061;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: BST
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062764.D Page 2

Date : 28-JUN-2024 00:16

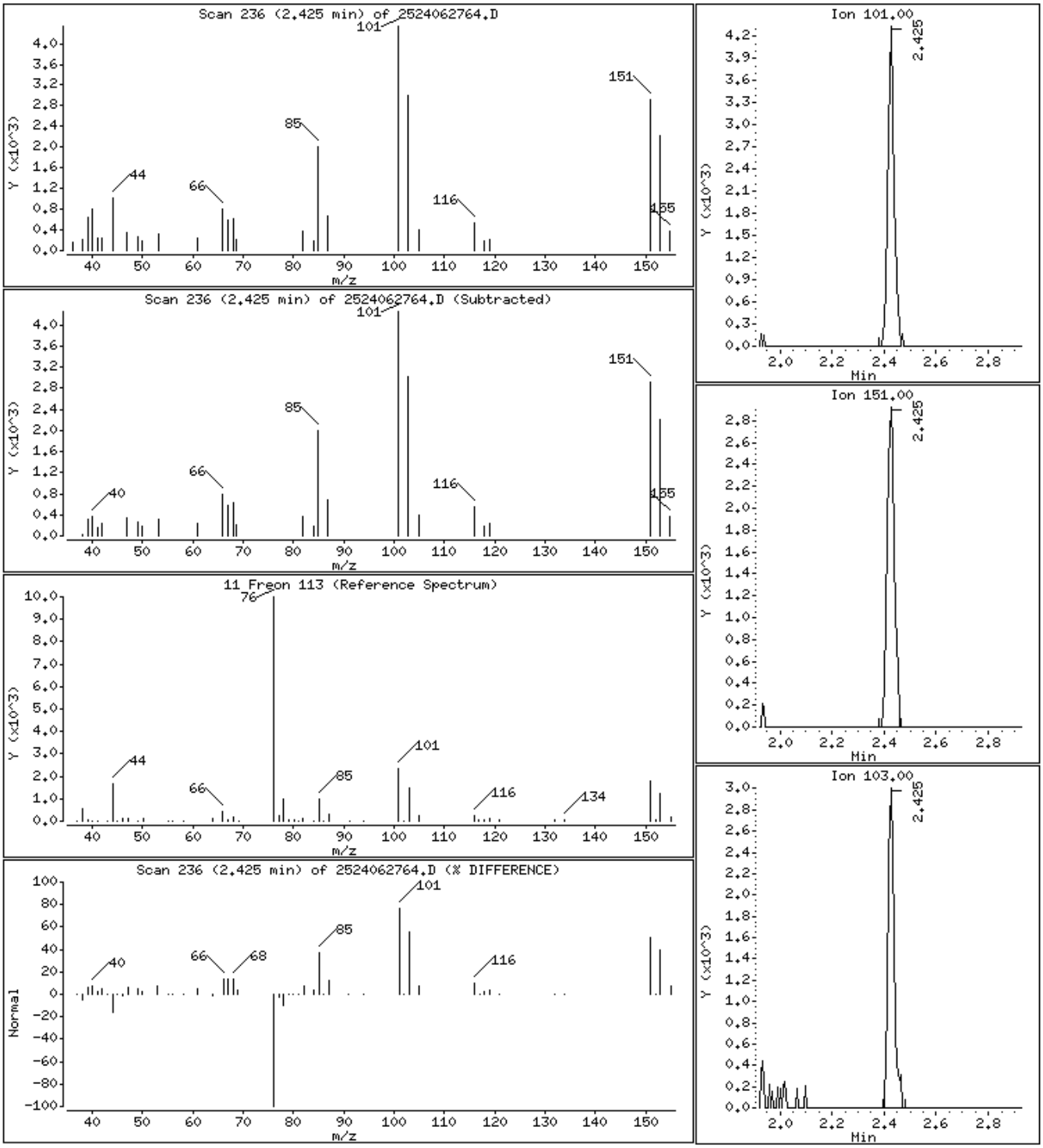
Client ID: HS24061218-06 Instrument: ms25.i

Sample Info: 3366036006;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 0.832989 ug/L



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062764.D
Inj Date : 28-JUN-2024 00:16
InstruID : ms25.i
LabSampID : 3366036006

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:18
Client ID: HS24061218-06
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 00:16
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
1,2-Dichloroethane
Heptane
Methacrylonitrile
Trichlorofluoromethane
Chloroethane
Ethyl methacrylate
Isopropylbenzene
2-Nitropropane

Data File: 2524062765.D Page 1
Report Date: 28-Jun-2024 15:19

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062765.D
Lab Smp Id: 3366036008 Client Smp ID: HS24061218-08
Inj Date : 28-JUN-2024 00:36
Operator : BST Inst ID: ms25.i
Smp Info : 3366036008;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	2.419	2.424	(0.580)	4142	0.57000	0.569995(a)	
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062765.D Page 2
Report Date: 28-Jun-2024 15:19

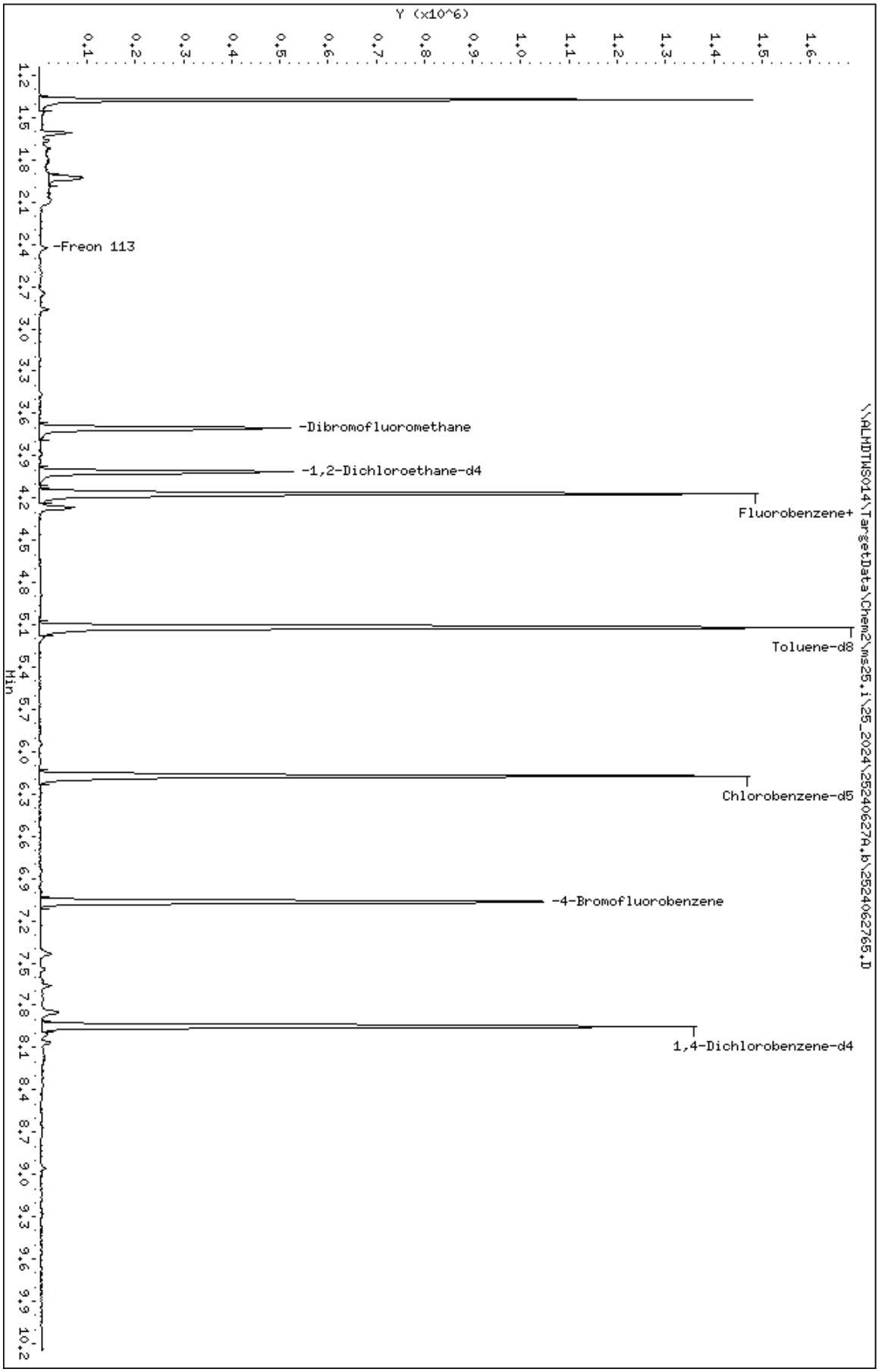
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.706	3.707	(0.889)	249983	29.5006	29.5006	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	286902	32.1181	32.1181	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1073953	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.268	4.269	(1.024)	19685	2.30945	2.30945	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	967448	31.1224	31.1224	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062765.D Page 3
Report Date: 28-Jun-2024 15:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	392626	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	274957	30.6450	30.6450	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	324323	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.


Data File: \\ALHDTWS014\TargetData\Chem2\ms25,i\25_2024\252406270,b\252406276S,D
Date : 28-JUN-2024 00:36
Client ID: HS24061218-08
Sample Info: 33660360080;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25,i
Operator: BST
Column diameter: 0.25
Page 1
Y (x10^6)
-Freon 113
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene+
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\ALHDTWS014\TargetData\Chem2\ms25,i\25_2024\252406270,b\252406276S,D
Min

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062765.D Page 2

Date : 28-JUN-2024 00:36

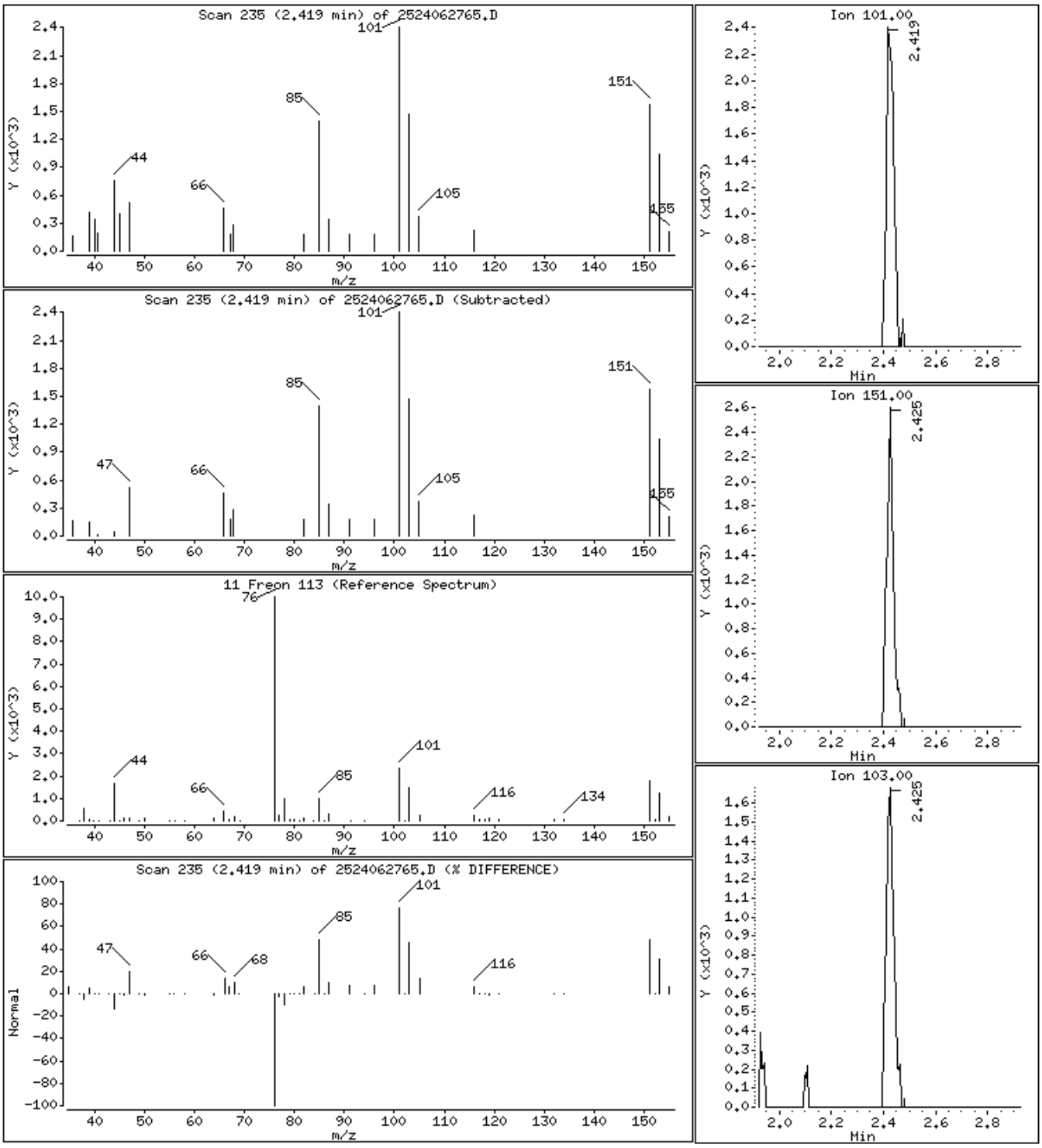
Client ID: HS24061218-08 Instrument: ms25.i

Sample Info: 3366036008;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

11 Freon 113 Concentration: 0.569995 ug/L



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062765.D Page 3

Date : 28-JUN-2024 00:36

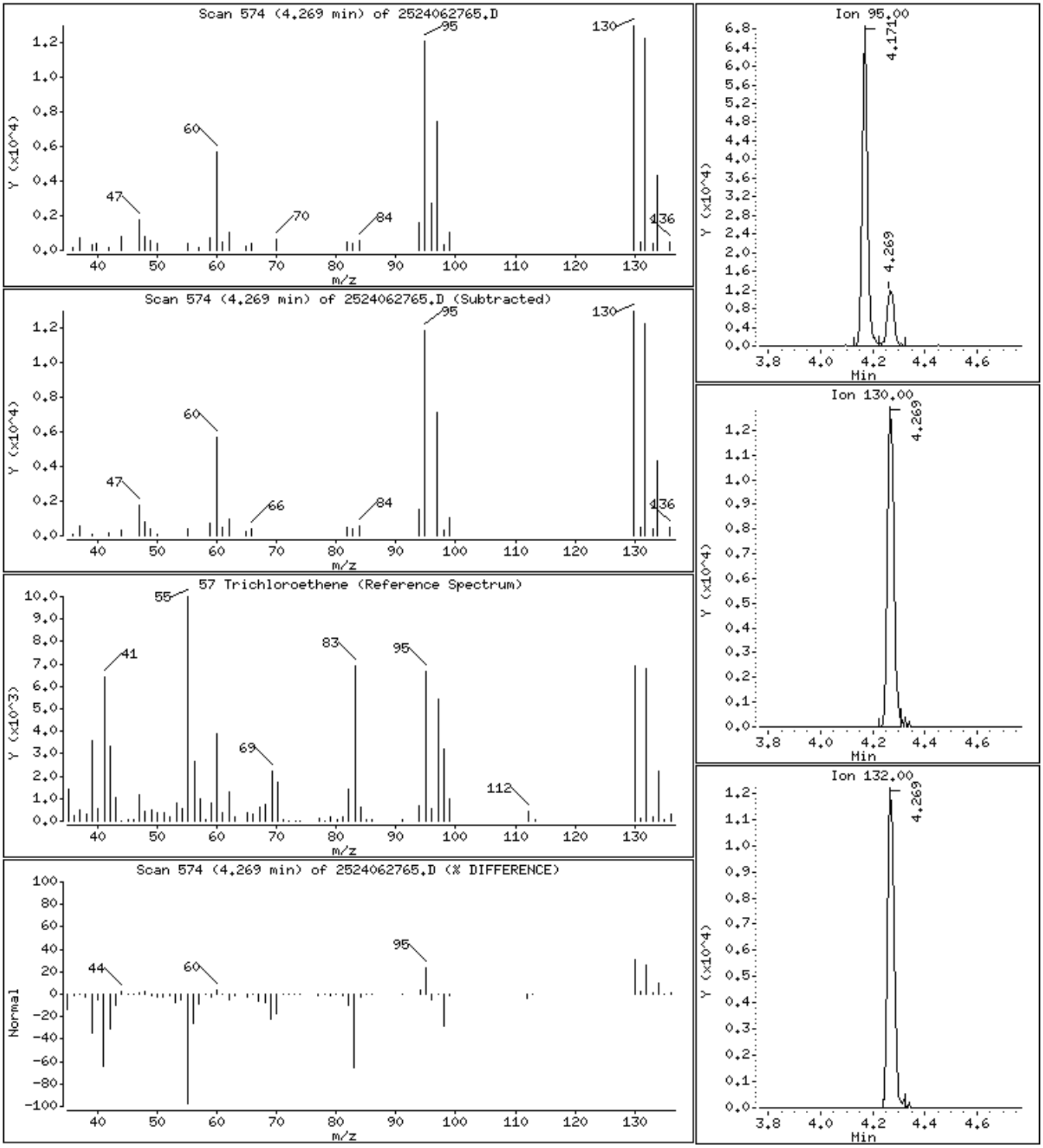
Client ID: HS24061218-08 Instrument: ms25.i

Sample Info: 3366036008;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

57 Trichloroethene Concentration: 2.30945 ug/L



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062765.D
Inj Date : 28-JUN-2024 00:36
InstruID : ms25.i
LabSampID : 3366036008

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:19
Client ID: HS24061218-08
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 00:36
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	Chloroethane
3-Chloro-1-propene	1,2-Dichloroethane
Ethyl methacrylate	Heptane
2-Hexanone	2-Nitropropane

Data File: 2524062775.D Page 1
Report Date: 28-Jun-2024 15:33

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062775.D
Lab Smp Id: 3366036007 Client Smp ID: HS24061218-07
Inj Date : 28-JUN-2024 04:00
Operator : BST Inst ID: ms25.i
Smp Info : 3366036007;;1;;;;;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 2524062775.D Page 2
Report Date: 28-Jun-2024 15:33

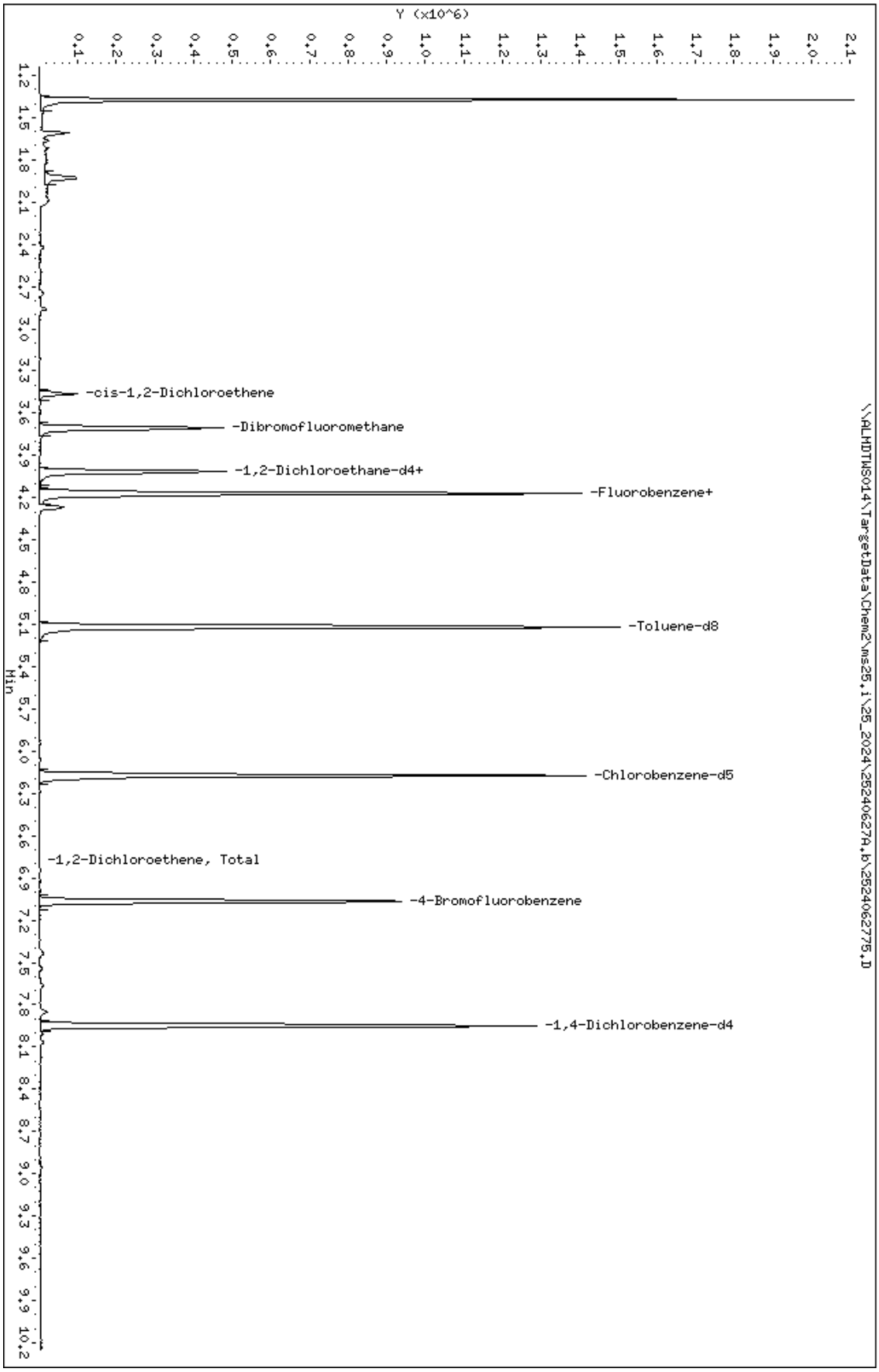
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	41737	4.29918	4.29918	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				41737	4.29918	4.29918	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	228235	28.4656	28.4656	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.018	4.012	(0.963)	264106	31.2474	31.2474	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	4850	0.48415	0.484150(a)	
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1016171	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	16117	1.99837	1.99837	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	870821	29.6375	29.6375	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062775.D Page 3
Report Date: 28-Jun-2024 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	371118	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	243868	27.1224	27.1224	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	325012	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.



Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25240627S.D
Date : 28-JUN-2024 04:00
Client ID: HS24061218-07
Sample Info: 336603600?;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: BST
Column diameter: 0.25

Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062775.D Page 2

Date : 28-JUN-2024 04:00

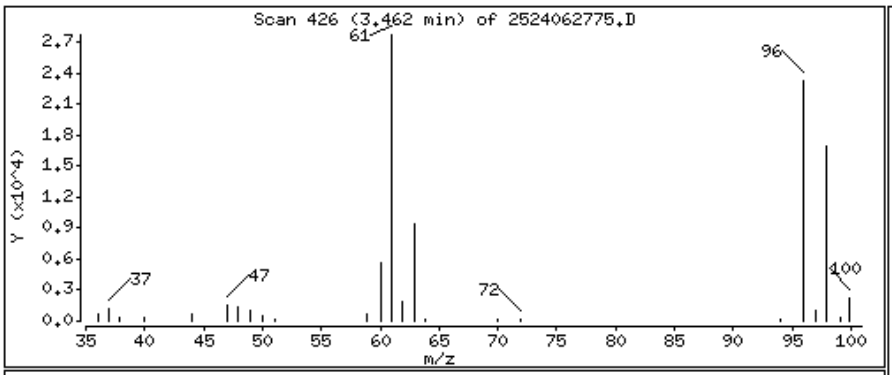
Client ID: HS24061218-07 Instrument: ms25.i

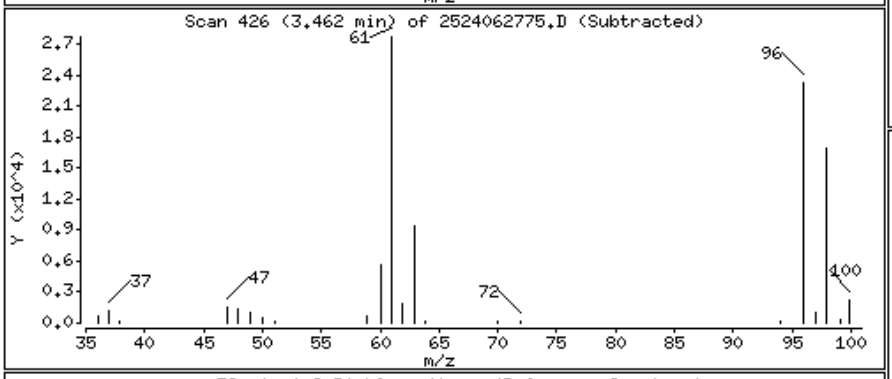
Sample Info: 3366036007;;1;;;;;

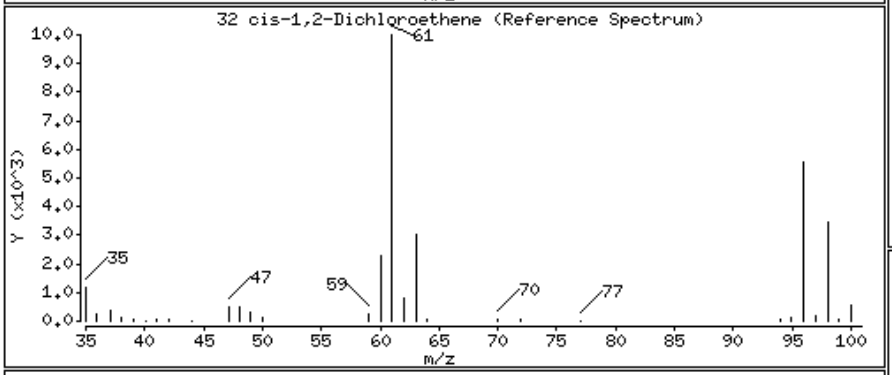
Purge Volume: 5.0 Operator: BST

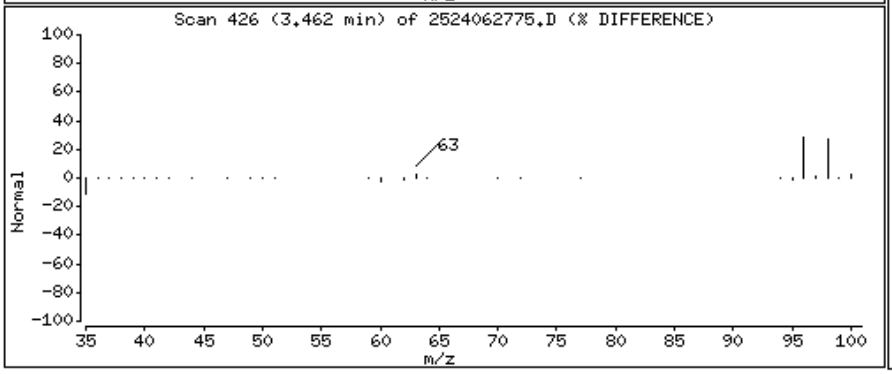
Column phase: DB-VRX Column diameter: 0.25

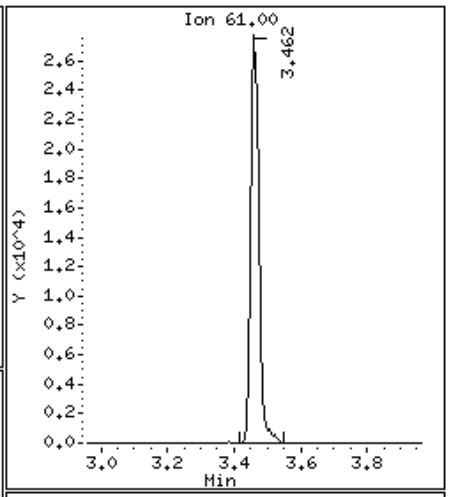
32 cis-1,2-Dichloroethene Concentration: 4.29918 ug/L

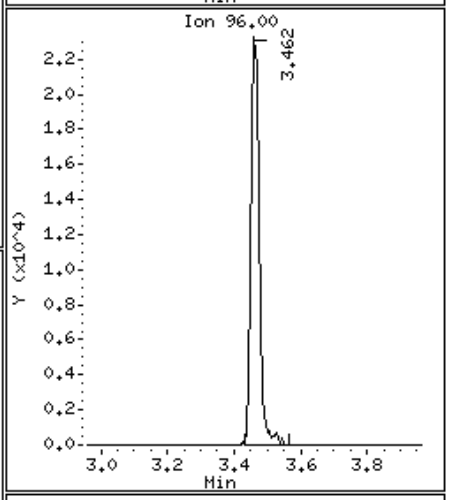


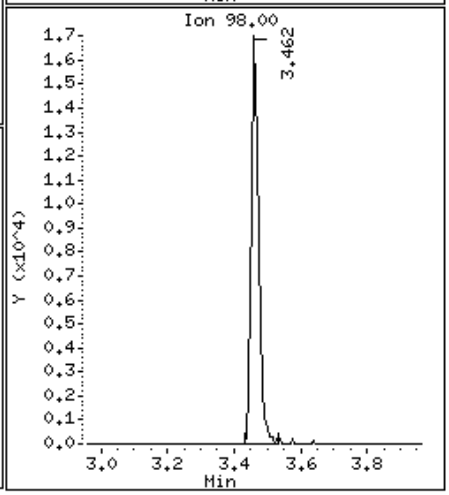












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062775.D Page 3

Date : 28-JUN-2024 04:00

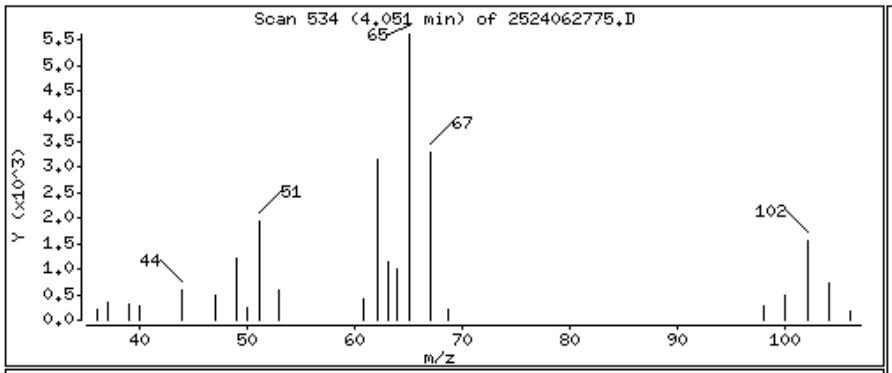
Client ID: HS24061218-07 Instrument: ms25.i

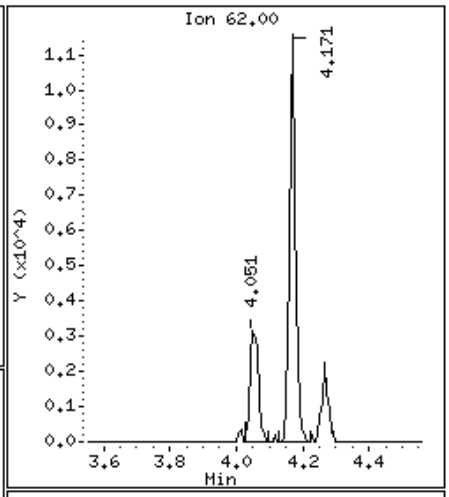
Sample Info: 3366036007;;1;;;;;

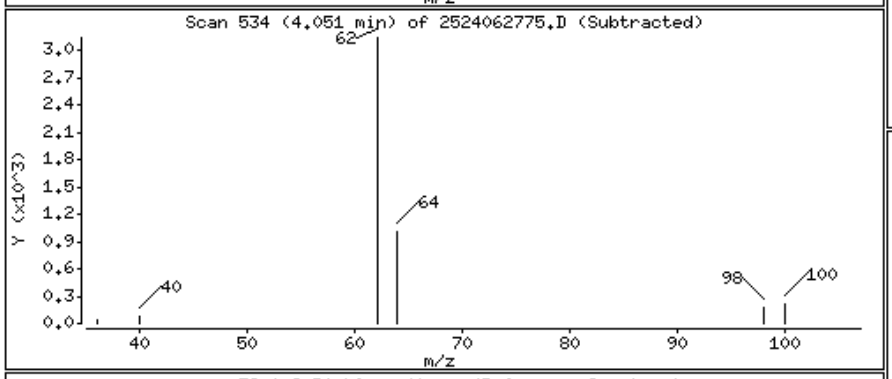
Purge Volume: 5.0 Operator: BST

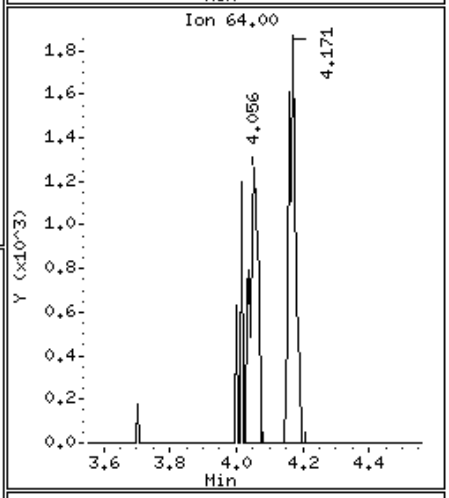
Column phase: DB-VRX Column diameter: 0.25

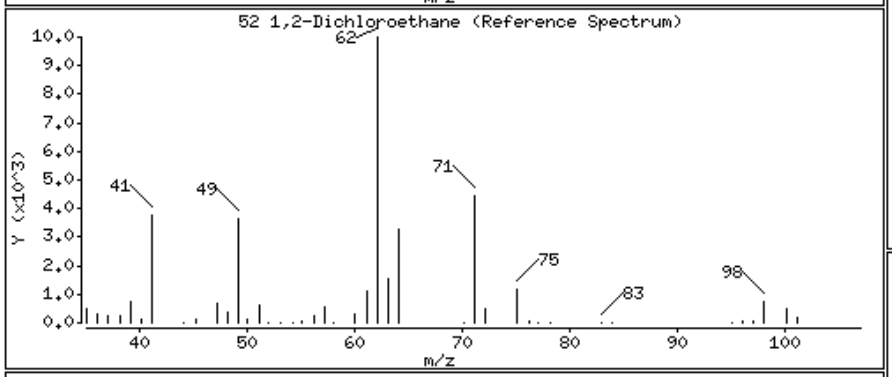
52 1,2-Dichloroethane Concentration: 0.484150 ug/L

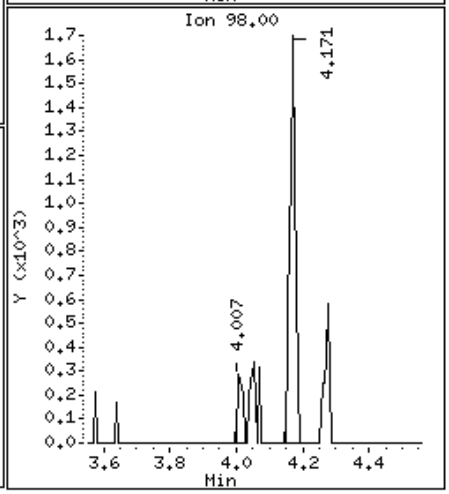


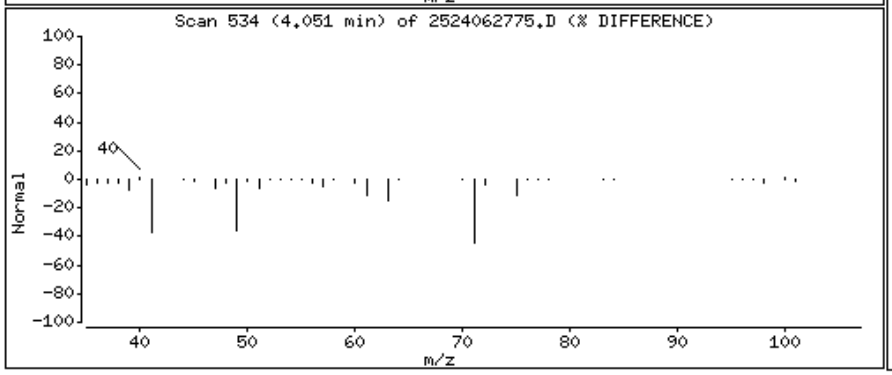












Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062775.D Page 4

Date : 28-JUN-2024 04:00

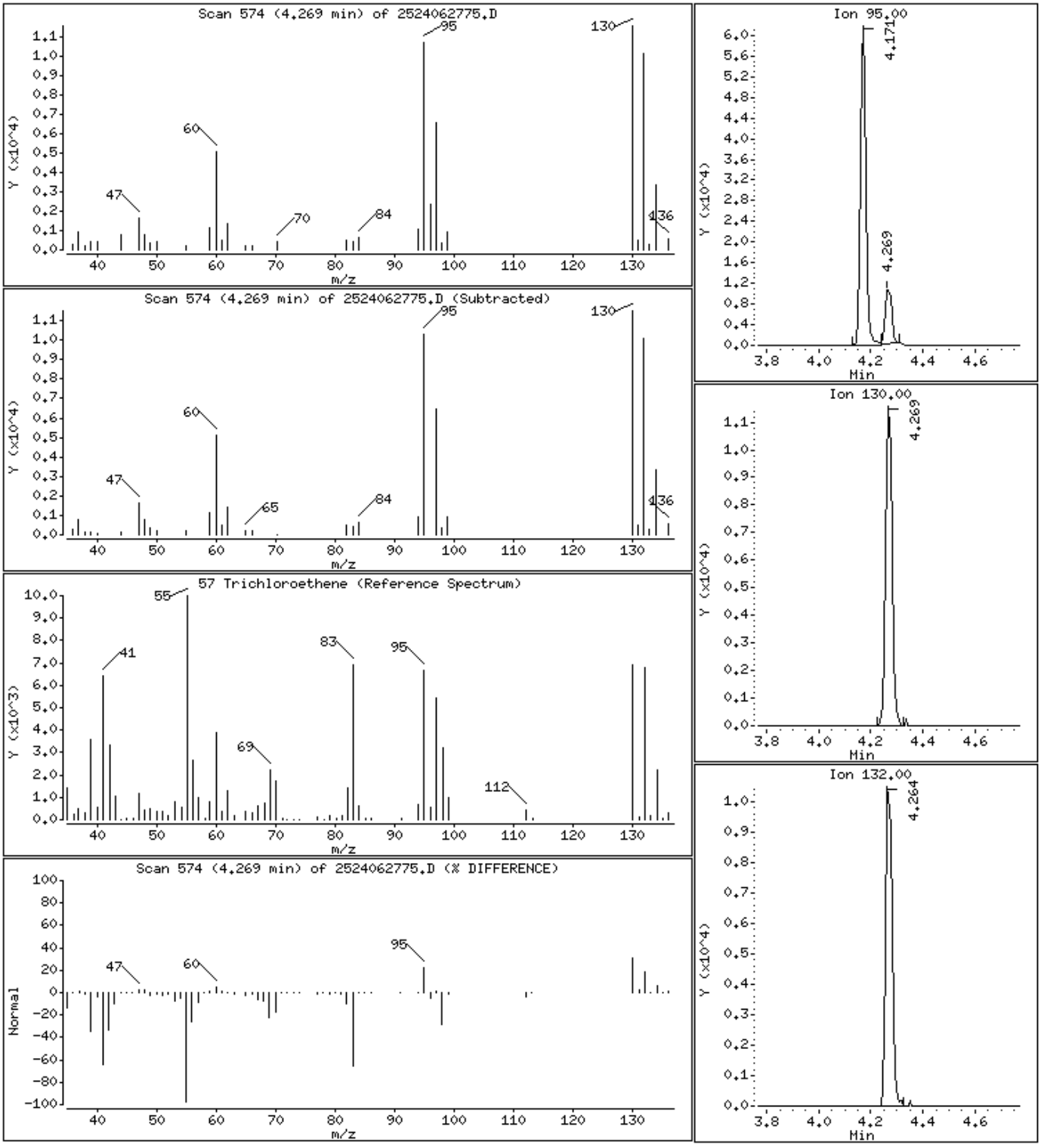
Client ID: HS24061218-07 Instrument: ms25.i

Sample Info: 3366036007;;1;;;;;

Purge Volume: 5.0 Operator: BST

Column phase: DB-VRX Column diameter: 0.25

57 Trichloroethene Concentration: 1.99837 ug/L



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062775.D
Inj Date : 28-JUN-2024 04:00
InstruID : ms25.i
LabSampID : 3366036007

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:33
Client ID: HS24061218-07
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 04:00
Operator: BST

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile	Chloroethane
Ethyl methacrylate	2-Nitropropane

Data File: 2524062776.D Page 1
Report Date: 28-Jun-2024 15:34

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062776.D
Lab Smp Id: 3845610 Client Smp ID: 3366036002MS
Inj Date : 28-JUN-2024 04:20
Operator : BST Inst ID: ms25.i
Smp Info : 3845610;;1;3;;MS;1;
Misc Info : ZZ VOMS 73642 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\25-8260b09D
Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 26 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	220978	20.6556	20.6556	
2 Chloromethane	50	1.644	1.644	(0.394)	203204	21.6839	21.6839	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	260521	21.5413	21.5413	
4 Bromomethane	94	1.922	1.923	(0.461)	126408	21.5889	21.5889	
5 Chloroethane	64	1.999	2.004	(0.479)	180563	21.9311	21.9311	
6 Pentane	41	2.086	2.092	(0.500)	145902	18.7081	18.7081	
7 Trichlorofluoromethane	101	2.091	2.097	(0.502)	359624	21.7090	21.7090	
8 Dichlorofluoromethane	67	2.119	2.124	(0.508)	360965	23.5492	23.5492	
9 Ethyl Ether	74	2.277	2.277	(0.546)	96358	20.6724	20.6724	
10 1,1-Dichloroethene	61	2.408	2.414	(0.577)	216400	23.2656	23.2656	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	417176	20.7916	20.7916	
11 Freon 113	101	2.424	2.424	(0.581)	151780	23.2004	23.2004	
13 Iodomethane	127	2.506	2.506	(0.601)	61328	17.3451	17.3451	
14 Acrolein	56	2.599	2.599	(0.623)	244817	163.180	163.180	
16 3-Chloro-1-propene	41	2.675	2.681	(0.642)	185026	22.9235	22.9235	
15 Isopropyl Alcohol	45	2.653	2.654	(0.636)	46983	93.8444	93.8444	
17 Methylene Chloride	84	2.741	2.741	(0.657)	165682	21.8069	21.8069	
18 Acetone	58	2.752	2.752	(0.660)	81729	97.0922	97.0922	
19 Methyl acetate	74	2.812	2.812	(0.674)	29931	17.0339	17.0339(Q)	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	209876	23.0380	23.0380	
21 Hexane	57	2.861	2.866	(0.686)	313361	20.5067	20.5067	

Data File: 2524062776.D
Report Date: 28-Jun-2024 15:34

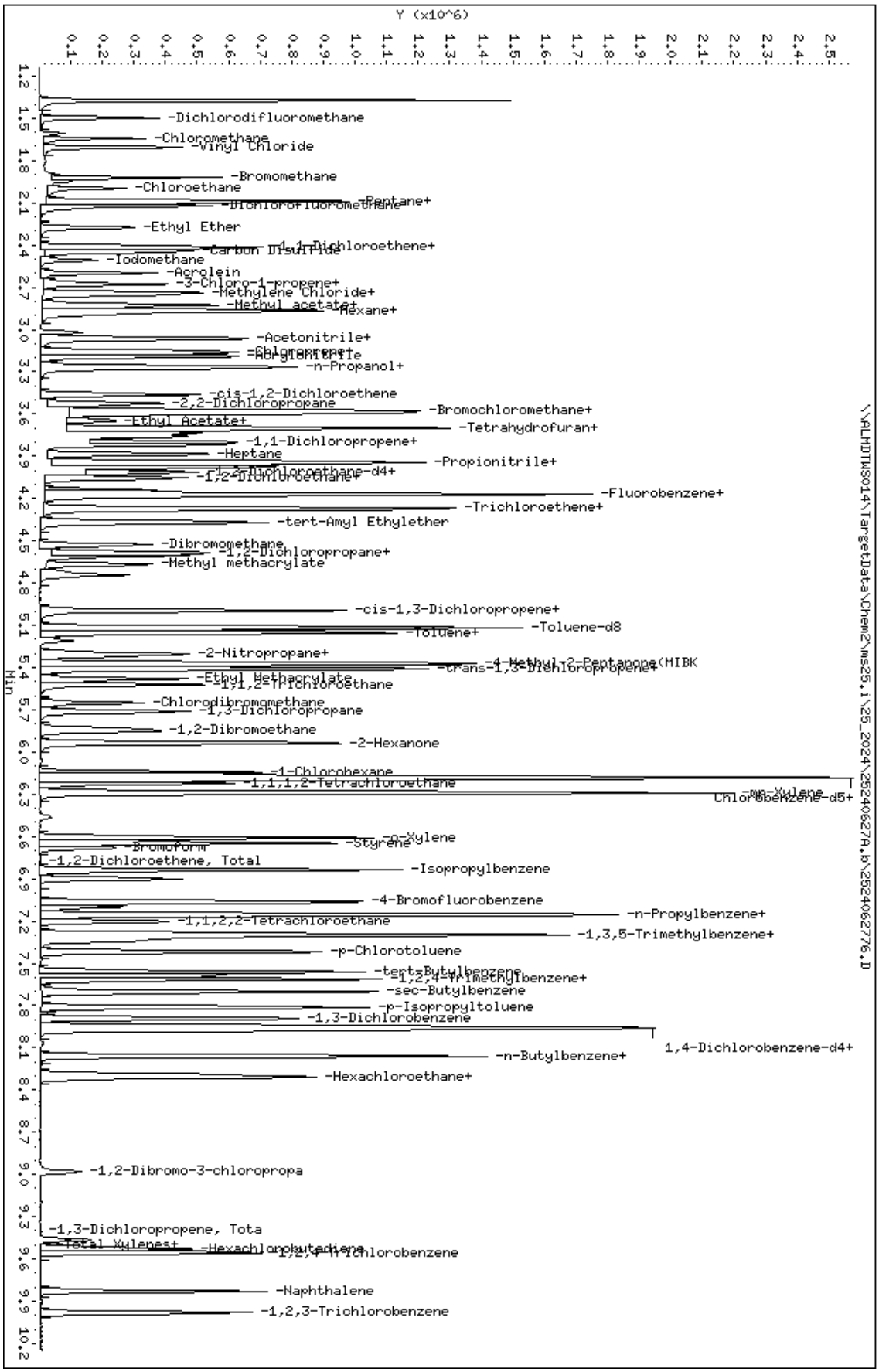
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	465207	20.0439	20.0439	
23 tert.- Butyl Alcohol	59	2.899	2.894	(0.695)	86412	102.832	102.832	
24 Acetonitrile	41	3.019	3.019	(0.724)	103153	109.587	109.587	
25 Diisopropyl ether	45	3.063	3.063	(0.734)	462001	22.8506	22.8506	
26 Chloroprene	53	3.155	3.156	(0.757)	247438	24.1393	24.1393	
27 1,1-Dichloroethane	63	3.166	3.167	(0.759)	286028	23.0457	23.0457	
28 Acrylonitrile	53	3.188	3.188	(0.765)	342935	106.094	106.094	
30 n-Propanol	41	3.265	3.265	(0.783)	86650	217.539	217.539(Q)	
29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	489468	22.7939	22.7939	
31 Vinyl acetate	86	3.276	3.276	(0.785)	33512	16.0802	16.0802	
32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	213190	23.0798	23.0798	
33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	214132	21.6471	21.6471	
M 100 1,2-Dichloroethene, Total	61				423066	46.1178	46.1178	
34 Bromochloromethane	128	3.576	3.576	(0.857)	87959	22.0813	22.0813	
35 Cyclohexane	84	3.587	3.587	(0.860)	254117	22.9277	22.9277	
36 Chloroform	83	3.597	3.603	(0.863)	297355	22.1933	22.1933	
37 Ethyl acetate	43	3.636	3.636	(0.872)	137629	17.0749	17.0749	
38 Methyl acrylate	55	3.652	3.652	(0.876)	159128	21.3935	21.3935	
39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	192443	19.7814	19.7814(M)	MP
40 Tetrahydrofuran	42	3.696	3.696	(0.886)	236044	103.804	103.804	
$ 41 Dibromofluoromethane	113	3.707	3.707	(0.889)	222207	29.1271	29.1271	
42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	247100	23.6942	23.6942	
43 2-Butanone	72	3.761	3.761	(0.902)	112483	102.325	102.325(M)	MP
44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	228133	23.1263	23.1263	
45 1-Chlorobutane	41	3.821	3.821	(0.916)	147247	23.2114	23.2114	
46 Heptane	71	3.887	3.887	(0.932)	123007	21.4628	21.4628	
48 Propionitrile	54	3.941	3.941	(0.945)	136331	111.380	111.380	
47 Benzene	78	3.941	3.941	(0.945)	661493	21.8167	21.8167	
49 Methacrylonitrile	67	3.952	3.952	(0.948)	78551	21.4080	21.4080	
50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	461348	22.2567	22.2567	
$ 51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	260934	32.4465	32.4465	
54 Isobutyl alcohol	42	3.990	3.990	(0.957)	42457	229.629	229.629(Q)	
52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	208529	21.8779	21.8779	
53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	62366	96.7321	96.7321	
* 55 Fluorobenzene	96	4.170	4.171	(1.000)	966864	30.0000		
56 Diisobutylene	57	4.176	4.176	(1.001)	338539	17.1212	17.1212	
57 Trichloroethene	95	4.269	4.269	(1.024)	171546	22.3550	22.3550	
58 Methyl cyclohexane	83	4.274	4.274	(0.692)	275474	22.8342	22.8342	
59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	348855	19.4681	19.4681	
60 Dibromomethane	93	4.525	4.525	(1.085)	107865	22.2351	22.2351	
61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	165210	22.6394	22.6394	
62 Bromodichloromethane	83	4.607	4.607	(1.105)	207724	20.6610	20.6610	
63 Methyl methacrylate	41	4.667	4.667	(1.119)	123659	21.4113	21.4113	
65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	246247	19.7418	19.7418	
67 Octane	85	5.000	5.000	(0.810)	94286	20.6123	20.6123	
$ 68 Toluene-d8	98	5.114	5.120	(0.829)	889880	30.2203	30.2203	
69 Toluene	92	5.153	5.153	(0.835)	399672	21.4144	21.4144	
70 Chloroacetonitrile	75	5.213	5.213	(0.844)	45750	98.3312	98.3312	
71 2-Nitropropane	41	5.300	5.300	(0.859)	178293	88.3326	88.3326	
72 1,1-Dichloro-2-propanone	63	5.311	5.316	(0.860)	18651	95.4690	95.4690(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	778155	106.162	106.162	
75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	230749	19.9832	19.9832	
74 Tetrachloroethene	164	5.409	5.409	(0.876)	143524	21.1186	21.1186	

Data File: 2524062776.D
Report Date: 28-Jun-2024 15:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	216683	19.4559	19.4559	
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	128647	22.4345	22.4345	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	152104	18.9425	18.9425	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	258840	22.8460	22.8460	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	153006	20.1862	20.1862	
	81 2-Hexanone	43	5.938	5.933	(0.962)	519698	103.432	103.432	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	229558	23.3799	23.3799	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	371926	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	238612	21.3803	21.3803	
	84 Chlorobenzene	112	6.184	6.189	(1.002)	428201	22.5137	22.5137	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	146786	20.6281	20.6281	
	87 mp-Xylene	106	6.287	6.293	(1.019)	565421	42.3691	42.3691	
M	120 1,3-Dichloropropene, Total	75				476996	39.7251	39.7251	
	88 o-Xylene	106	6.609	6.610	(1.071)	268863	21.2422	21.2422	
	89 Styrene	104	6.648	6.648	(0.836)	421120	21.8729	21.8729	
	90 Bromoform	173	6.680	6.681	(0.840)	99440	18.3759	18.3759	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	683900	25.3567	25.3567	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	272667	30.0481	30.0481	
M	121 TOTAL XYLENES	106				834284	63.6113	63.6113	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	190268	23.9927	23.9927	
	93 Bromobenzene	156	7.155	7.155	(0.900)	179621	23.1613	23.1613	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	181349	23.5271	23.5271	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	524261	23.7538	23.7538	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	499594	23.9448	23.9448	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	56778	22.8384	22.8384	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	47771	20.3693	20.3693	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	453177	23.9793	23.9793	
	102 tert-Butylbenzene	134	7.559	7.564	(0.951)	131140	24.8438	24.8438(R)	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	114715	21.8074	21.8074(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	513877	21.9030	21.9030	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	686186	25.1556	25.1556	
	106 p-Isopropyltoluene	134	7.810	7.815	(0.982)	151974	24.3291	24.3291	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	304841	23.3320	23.3320	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	328011	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	315250	23.1484	23.1484	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	132931	22.7719	22.7719(Q)	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	53089	16.5808	16.5808(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	89237	19.3051	19.3051	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	288142	23.1522	23.1522	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	27680	19.0358	19.0358	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	71537	161.327	161.327	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	85149	20.8277	20.8277	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	193092	23.4282	23.4282	
	118 Naphthalene	128	9.829	9.829	(1.236)	463728	19.3394	19.3394	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	175299	19.1114	19.1114	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Methylene Chloride
-Hexane
-Acetonitrile
-n-Propanol
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-cis-1,3-Dichloropropene+
-Toluene+
-Toluene-d8
-2-Nitropropane+
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Naphthalene
-1,2,3-Trichlorobenzene
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Purge Volume: 5.0
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Instrument: ms25.i
Operator: BST
Column diameter: 0.25
Page 1

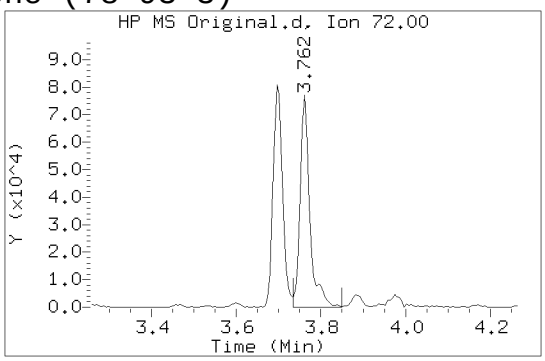
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LabSampID : 3845610

2-Butanone (78-93-3)

Reason Code: MP

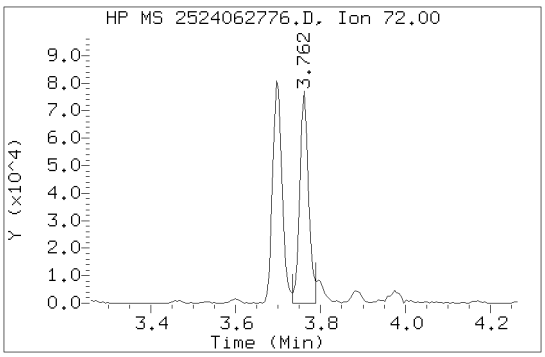
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28-Jun-2024
09:43



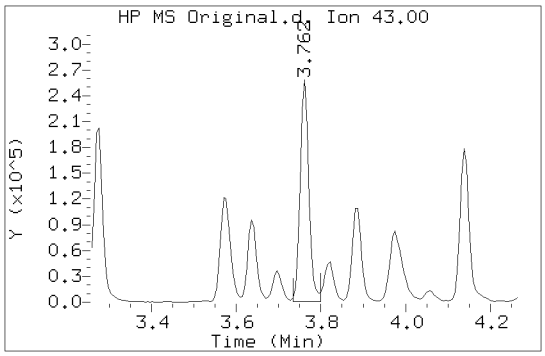
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28-Jun-2024
15:34



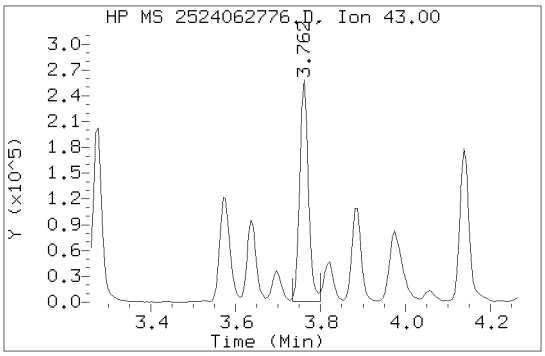
BEFORE

MASS
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AREA
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HEIGHT
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28-Jun-2024
09:43



AFTER

MASS
43
AREA
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HEIGHT
257391
28-Jun-2024
15:34



UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:34
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DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 04:20
Operator: BST

There were no Unassigned peaks in this sample!

Data File: 2524062777.D Page 1
Report Date: 28-Jun-2024 15:34

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062777.D
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Inj Date : 28-JUN-2024 04:41
Operator : BST Inst ID: ms25.i
Smp Info : 3845611;;1;3;;MSD;1;
Misc Info : ZZ VOMS 73642 D8260DW
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Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 26 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	214967	18.8287	18.8287	
2 Chloromethane	50	1.644	1.644	(0.394)	194941	19.4807	19.4807	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	251164	19.4602	19.4602	
4 Bromomethane	94	1.922	1.923	(0.461)	123525	19.7313	19.7313	
5 Chloroethane	64	1.999	2.004	(0.479)	174692	19.8535	19.8535	
6 Pentane	41	2.086	2.092	(0.500)	135861	16.1890	16.1890	
7 Trichlorofluoromethane	101	2.091	2.097	(0.502)	347207	19.6399	19.6399	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	349394	21.3592	21.3592	
9 Ethyl Ether	74	2.277	2.277	(0.546)	99141	19.9304	19.9304	
10 1,1-Dichloroethene	61	2.408	2.414	(0.577)	212980	21.4564	21.4564	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	417206	19.4841	19.4841	
11 Freon 113	101	2.424	2.424	(0.581)	151500	21.6997	21.6997	
13 Iodomethane	127	2.506	2.506	(0.601)	66528	17.6228	17.6228	
14 Acrolein	56	2.599	2.599	(0.623)	243044	151.799	151.799	
16 3-Chloro-1-propene	41	2.675	2.681	(0.642)	181345	21.0672	21.0672	
15 Isopropyl Alcohol	45	2.653	2.654	(0.636)	47777	89.2726	89.2726	
17 Methylene Chloride	84	2.741	2.741	(0.657)	165296	20.3864	20.3864	
18 Acetone	58	2.752	2.752	(0.660)	83566	93.0246	93.0246	
19 Methyl acetate	74	2.817	2.812	(0.676)	30607	16.3044	16.3044	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	205187	21.1053	21.1053	
21 Hexane	57	2.861	2.866	(0.686)	310452	19.0163	19.0163	

Data File: 2524062777.D
Report Date: 28-Jun-2024 15:34

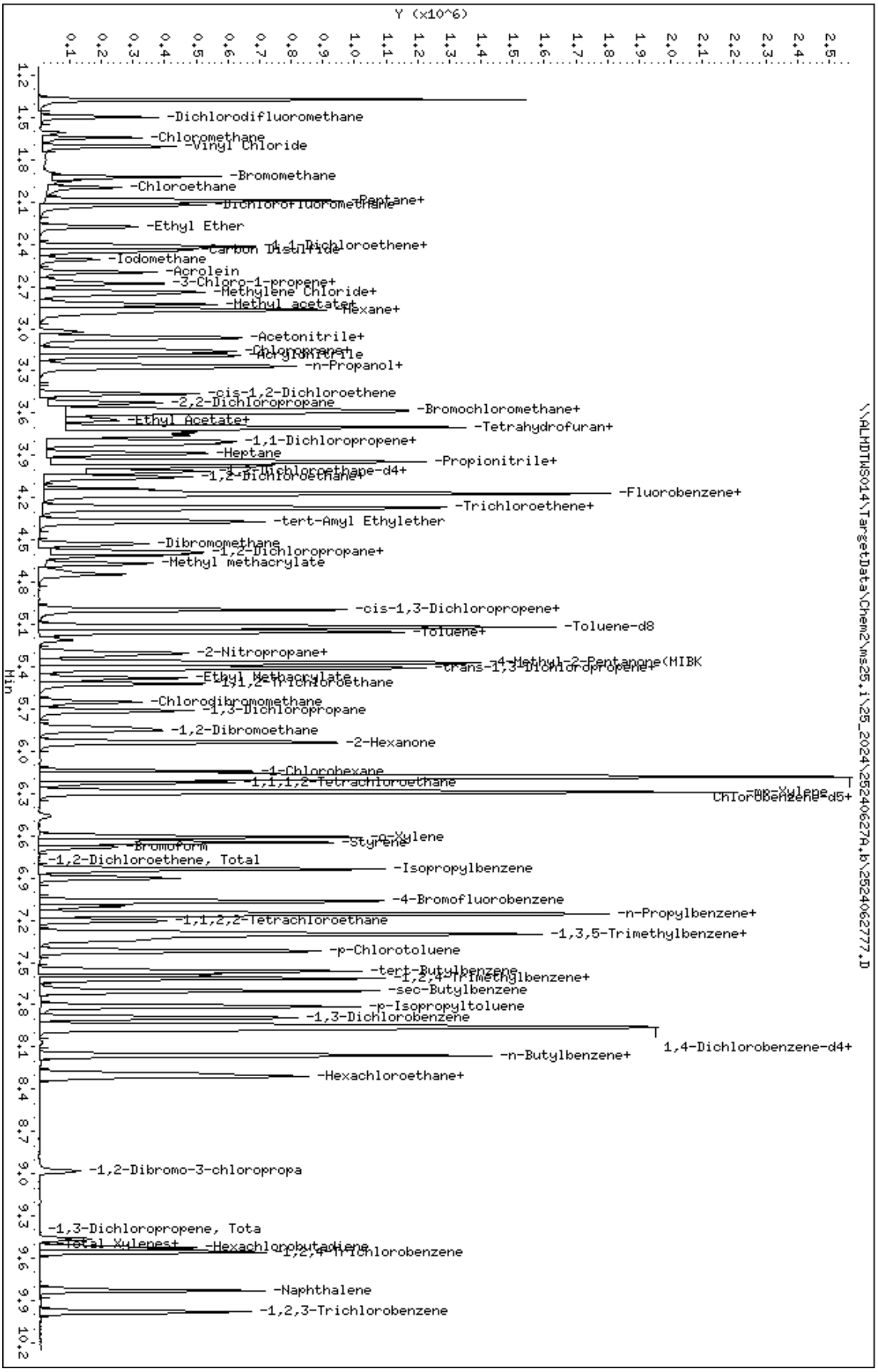
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	474743	19.1771	19.1771	
23 tert.- Butyl Alcohol	59	2.899	2.894	(0.695)	82714	92.2341	92.2341	
24 Acetonitrile	41	3.019	3.019	(0.724)	103732	103.264	103.264	
25 Diisopropyl ether	45	3.063	3.063	(0.734)	459325	21.2880	21.2880	
26 Chloroprene	53	3.150	3.156	(0.755)	241357	22.0636	22.0636	
27 1,1-Dichloroethane	63	3.166	3.167	(0.759)	283281	21.3875	21.3875	
28 Acrylonitrile	53	3.188	3.188	(0.765)	354839	102.866	102.866	
30 n-Propanol	41	3.264	3.265	(0.783)	89514	210.581	210.581(Q)	
29 Ethyl tert-butyl ether	59	3.264	3.265	(0.783)	489219	21.3480	21.3480	
31 Vinyl acetate	86	3.275	3.276	(0.785)	32425	14.6148	14.6148(Q)	
32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	210132	21.3166	21.3166	
33 2,2-Dichloropropane	77	3.526	3.527	(0.846)	208100	19.7129	19.7129	
M 100 1,2-Dichloroethene, Total	61				415319	42.4219	42.4219	
34 Bromochloromethane	128	3.575	3.576	(0.857)	92505	21.7605	21.7605	
35 Cyclohexane	84	3.586	3.587	(0.860)	249397	21.0852	21.0852	
36 Chloroform	83	3.597	3.603	(0.863)	301359	21.0761	21.0761	
37 Ethyl acetate	43	3.636	3.636	(0.872)	143569	16.6886	16.6886	
38 Methyl acrylate	55	3.652	3.652	(0.876)	157894	19.8911	19.8911	
39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	189163	18.2529	18.2529(M)	MP
40 Tetrahydrofuran	42	3.696	3.696	(0.886)	232465	95.7944	95.7944	
$ 41 Dibromofluoromethane	113	3.706	3.707	(0.889)	250530	30.7722	30.7722	
42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	246233	22.1246	22.1246	
43 2-Butanone	72	3.761	3.761	(0.902)	114276	97.4113	97.4113(M)	MP
44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	222637	21.1483	21.1483	
45 1-Chlorobutane	41	3.821	3.821	(0.916)	142004	20.9757	20.9757	
46 Heptane	71	3.887	3.887	(0.932)	121873	19.9262	19.9262	
48 Propionitrile	54	3.941	3.941	(0.945)	131765	100.873	100.873	
47 Benzene	78	3.941	3.941	(0.945)	662772	20.4827	20.4827	
49 Methacrylonitrile	67	3.952	3.952	(0.948)	82656	21.1085	21.1085	
50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	464537	20.9996	20.9996	
$ 51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	279941	32.6184	32.6184	
54 Isobutyl alcohol	42	3.990	3.990	(0.957)	44408	225.140	225.140(Q)	
52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	208716	20.5189	20.5189	
53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	62121	90.2861	90.2861	
* 55 Fluorobenzene	96	4.170	4.171	(1.000)	1031824	30.0000		
56 Diisobutylene	57	4.176	4.176	(1.001)	329422	15.4782	15.4782	
57 Trichloroethene	95	4.268	4.269	(1.024)	171058	20.8880	20.8880	
58 Methyl cyclohexane	83	4.274	4.274	(0.692)	274437	21.6749	21.6749	
59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	350420	18.3397	18.3397	
60 Dibromomethane	93	4.525	4.525	(1.085)	105640	20.4055	20.4055	
61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	165355	21.2327	21.2327	
62 Bromodichloromethane	83	4.607	4.607	(1.105)	202742	18.9241	18.9241	
63 Methyl methacrylate	41	4.667	4.667	(1.119)	123162	19.9827	19.9827	
65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	246509	18.8434	18.8434	
67 Octane	85	5.000	5.000	(0.810)	97358	20.2796	20.2796	
$ 68 Toluene-d8	98	5.114	5.120	(0.829)	957355	30.9777	30.9777	
69 Toluene	92	5.152	5.153	(0.835)	397481	20.2921	20.2921	
70 Chloroacetonitrile	75	5.212	5.213	(0.844)	45642	93.4703	93.4703	
71 2-Nitropropane	41	5.300	5.300	(0.859)	183417	86.6206	86.6206	
72 1,1-Dichloro-2-propanone	63	5.316	5.316	(0.861)	18214	88.9678	88.9678(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	784268	101.987	101.987	
75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	230400	19.0260	19.0260	
74 Tetrachloroethene	164	5.409	5.409	(0.876)	144899	20.3149	20.3149	

Data File: 2524062777.D
Report Date: 28-Jun-2024 15:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
76 Ethyl methacrylate	69	5.480	5.480	(0.888)	222714	19.0603	19.0603	
77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	126469	21.0141	21.0141	
78 Chlorodibromomethane	129	5.649	5.649	(0.915)	152966	18.1664	18.1664	
79 1,3-Dichloropropane	76	5.714	5.715	(0.926)	261213	21.9676	21.9676	
80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	153212	19.2704	19.2704	
81 2-Hexanone	43	5.933	5.933	(0.961)	520555	98.7652	98.7652	
82 1-Chlorohexane	91	6.145	6.146	(0.996)	229443	22.2656	22.2656	
* 83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	390344	30.0000		
85 Ethylbenzene	106	6.189	6.189	(1.003)	235557	20.1027	20.1027	
84 Chlorobenzene	112	6.184	6.189	(1.002)	425770	21.3296	21.3296	
86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	146630	19.6492	19.6492	
87 mp-Xylene	106	6.287	6.293	(1.019)	566603	40.4186	40.4186	
M 120 1,3-Dichloropropene, Total	75				476909	37.8693	37.8693	
88 o-Xylene	106	6.609	6.610	(1.071)	264698	19.9263	19.9263	
89 Styrene	104	6.647	6.648	(0.836)	412619	20.9609	20.9609	
90 Bromoform	173	6.680	6.681	(0.840)	99123	17.9139	17.9139	
91 Isopropylbenzene	105	6.838	6.839	(0.860)	672182	24.3662	24.3662	
$ 92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	287871	31.0089	31.0089	
M 121 TOTAL XYLENES	106				831301	60.3449	60.3449	
94 n-Propylbenzene	120	7.155	7.155	(0.900)	187739	23.1405	23.1405	
93 Bromobenzene	156	7.155	7.155	(0.900)	179815	22.6640	22.6640	
95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	180194	22.8506	22.8506	
97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	517594	22.9234	22.9234	
96 o-Chlorotoluene	91	7.291	7.292	(0.917)	498406	23.3497	23.3497	
98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	57427	22.5790	22.5790	
99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	46942	19.5764	19.5764	
101 p-Chlorotoluene	91	7.417	7.417	(0.933)	451166	23.3351	23.3351	
102 tert-Butylbenzene	134	7.559	7.564	(0.951)	129279	23.9395	23.9395	
103 Pentachloroethane	117	7.586	7.586	(0.954)	112195	20.8607	20.8607(QM)	
104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	513626	21.3956	21.3956	
105 sec-Butylbenzene	105	7.701	7.701	(0.968)	678294	24.3061	24.3061	
106 p-Isopropyltoluene	134	7.815	7.815	(0.983)	147277	23.0460	23.0460	
107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	300578	22.4874	22.4874	
* 108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	335571	30.0000		
109 1,4-Dichlorobenzene	146	7.962	7.963	(1.001)	309993	22.2496	22.2496	
111 n-Butylbenzene	134	8.159	8.159	(1.026)	136655	22.8825	22.8825(Q)	
110 Benzyl Chloride	126	8.159	8.159	(1.026)	53074	16.2134	16.2134(Q)	
112 Hexachloroethane	117	8.290	8.290	(1.043)	90617	19.1649	19.1649	
113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	283625	22.2759	22.2759	
114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	26317	17.7200	17.7200	
115 Nitrobenzene	77	9.463	9.463	(1.190)	70010	154.604	154.604	
116 Hexachlorobutadiene	225	9.523	9.529	(1.198)	86862	20.7688	20.7688	
117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	192902	22.8779	22.8779	
118 Naphthalene	128	9.829	9.829	(1.236)	466721	19.0310	19.0310	
119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	174988	18.6548	18.6548	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-Chlorobenzene
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Operator: BST
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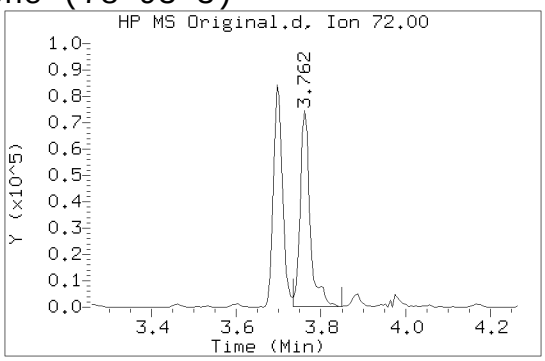
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LabSampID : 3845611

2-Butanone (78-93-3)

Reason Code: MP

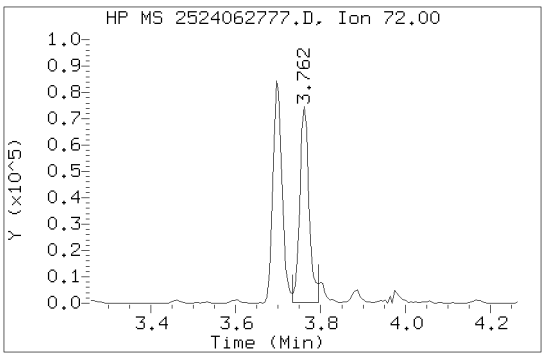
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28-Jun-2024
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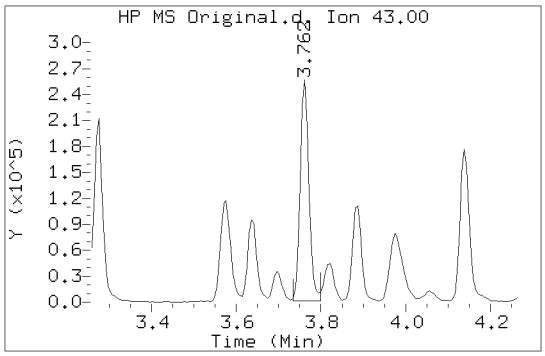
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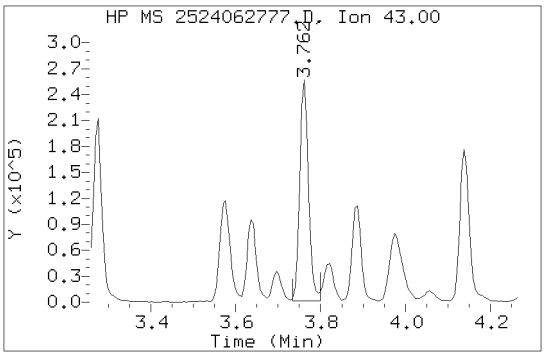
BEFORE

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AREA
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HEIGHT
217024
28-Jun-2024
09:43



AFTER

MASS
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28-Jun-2024
15:34



UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:34
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Inj Date: 28-JUN-2024 04:41
Operator: BST

There were no Unassigned peaks in this sample!

Data File: 2524062779.D Page 1
Report Date: 28-Jun-2024 15:35

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240627A.b\2524062779.D
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Misc Info :
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Meth Date : 28-Jun-2024 09:02 ily Quant Type: ISTD
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Als bottle: 28 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	399271	33.4229	33.4229	
2 Chloromethane	50	1.644	1.644	(0.394)	489400	46.9037	46.9037	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	545002	40.3566	40.3566	
4 Bromomethane	94	1.922	1.923	(0.461)	331395	51.2788	51.2788	
5 Chloroethane	64	2.004	2.004	(0.481)	404867	44.3488	44.3488	
6 Pentane	41	2.091	2.092	(0.502)	266947	31.3293	31.3293	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	659824	35.6702	35.6702	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	816394	47.6978	47.6978	
9 Ethyl Ether	74	2.277	2.277	(0.546)	256522	49.2850	49.2850	
10 1,1-Dichloroethene	61	2.413	2.414	(0.579)	458600	44.1549	44.1549	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	980778	43.7751	43.7751	
11 Freon 113	101	2.424	2.424	(0.581)	279616	38.2764	38.2764	
13 Iodomethane	127	2.506	2.506	(0.601)	180760	44.9450	44.9450	
14 Acrolein	56	2.599	2.599	(0.623)	393470	234.868	234.868	
16 3-Chloro-1-propene	41	2.675	2.681	(0.642)	416718	46.0586	46.0586	
15 Isopropyl Alcohol	45	2.653	2.654	(0.636)	128973	235.337	235.337	
17 Methylene Chloride	84	2.741	2.741	(0.657)	409617	48.2819	48.2819	
18 Acetone	58	2.757	2.752	(0.661)	223068	237.319	237.319	
19 Methyl acetate	74	2.812	2.812	(0.674)	92678	47.9832	47.9832	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	478481	47.0364	47.0364	
21 Hexane	57	2.866	2.866	(0.687)	628457	37.0647	37.0647	

Data File: 2524062779.D
Report Date: 28-Jun-2024 15:35

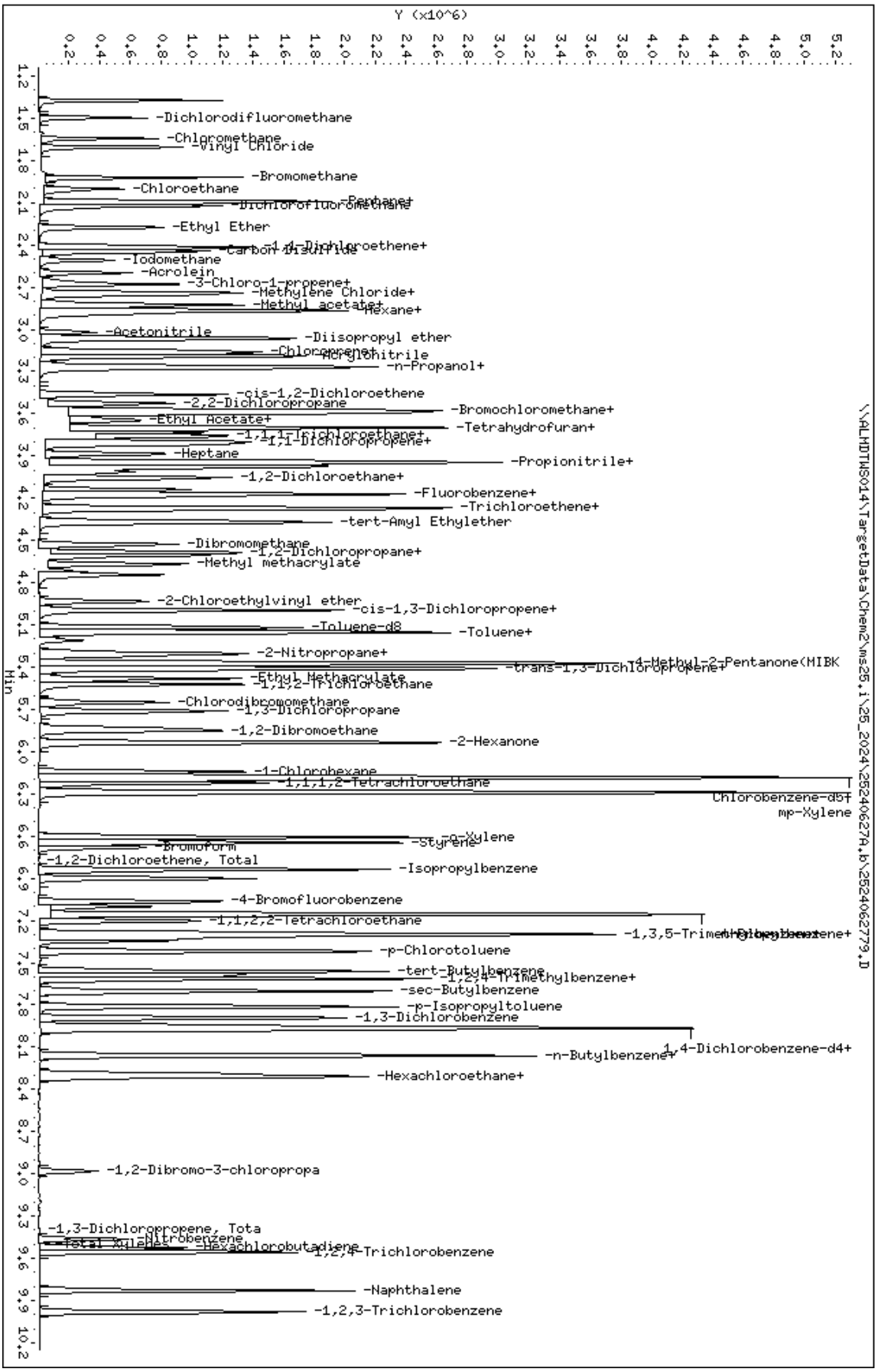
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1208890	46.3389	46.3389	
23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	233217	248.542	248.542	
24 Acetonitrile	41	3.019	3.019	(0.724)	278413	264.884	264.884	
25 Diisopropyl ether	45	3.063	3.063	(0.734)	1159940	51.3780	51.3780	
26 Chloroprene	53	3.155	3.156	(0.757)	556285	48.6007	48.6007	
27 1,1-Dichloroethane	63	3.166	3.167	(0.759)	688968	49.7128	49.7128	
28 Acrylonitrile	53	3.188	3.188	(0.765)	935240	259.114	259.114	
30 n-Propanol	41	3.265	3.265	(0.783)	214518	482.303	482.303(Q)	
29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1237969	51.6287	51.6287	
31 Vinyl acetate	86	3.275	3.276	(0.785)	100433	42.5134	42.5134(Q)	
32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	515059	49.9356	49.9356	
33 2,2-Dichloropropane	77	3.526	3.527	(0.846)	474473	42.9554	42.9554	
M 100 1,2-Dichloroethene, Total	61				993540	96.9720	96.9720	
34 Bromochloromethane	128	3.576	3.576	(0.857)	226131	50.8385	50.8385	
35 Cyclohexane	84	3.586	3.587	(0.860)	482811	39.0114	39.0114	
36 Chloroform	83	3.597	3.603	(0.863)	723283	48.3439	48.3439	
37 Ethyl acetate	43	3.636	3.636	(0.872)	421217	46.9489	46.9489	
38 Methyl acrylate	55	3.652	3.652	(0.876)	425933	51.2818	51.2818	
39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	414123	37.7360	37.7360(M)	MP
40 Tetrahydrofuran	42	3.696	3.696	(0.886)	646404	254.574	254.574	
$ 41 Dibromofluoromethane	113	3.701	3.707	(0.887)	255978	30.0490	30.0490	
42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	545542	46.8473	46.8473	
43 2-Butanone	72	3.761	3.761	(0.902)	306494	249.692	249.692(M)	MP
44 1,1-Dichloropropene	75	3.799	3.800	(0.911)	490323	44.5131	44.5131	
45 1-Chlorobutane	41	3.821	3.821	(0.916)	307921	43.4692	43.4692	
46 Heptane	71	3.887	3.887	(0.932)	186866	29.1995	29.1995	
48 Propionitrile	54	3.941	3.941	(0.945)	353204	258.420	258.420	
47 Benzene	78	3.941	3.941	(0.945)	1588480	46.9174	46.9174	
49 Methacrylonitrile	67	3.952	3.952	(0.948)	210264	51.3188	51.3188	
50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	1165487	50.3532	50.3532	
$ 51 1,2-Dichloroethane-d4	65	4.018	4.012	(0.963)	273654	30.4738	30.4738(M)	MP
54 Isobutyl alcohol	42	3.985	3.990	(0.956)	130364	624.396	624.396(Q)	
52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	520545	48.9086	48.9086	
53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	176634	245.349	245.349	
* 55 Fluorobenzene	96	4.170	4.171	(1.000)	1079637	30.0000		
56 Diisobutylene	57	4.176	4.176	(1.001)	723568	34.1506	34.1506	
57 Trichloroethene	95	4.269	4.269	(1.024)	396984	46.3292	46.3292	
58 Methyl cyclohexane	83	4.274	4.274	(0.692)	500929	36.1400	36.1400	
59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	921891	45.7152	45.7152	
60 Dibromomethane	93	4.525	4.525	(1.085)	276123	50.9741	50.9741	
61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	411580	50.5092	50.5092	
62 Bromodichloromethane	83	4.607	4.607	(1.105)	507890	44.8477	44.8477	
63 Methyl methacrylate	41	4.667	4.667	(1.119)	336983	52.2532	52.2532	
65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	266927	44.7986	44.7986	
66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	649677	44.9688	44.9688	
67 Octane	85	5.000	5.000	(0.810)	145420	27.6700	27.6700	
$ 68 Toluene-d8	98	5.120	5.120	(0.829)	994604	29.3984	29.3984	
69 Toluene	92	5.152	5.153	(0.835)	938051	43.7456	43.7456	
70 Chloroacetonitrile	75	5.212	5.213	(0.844)	133038	248.875	248.875	
71 2-Nitropropane	41	5.300	5.300	(0.859)	521199	221.861	221.861	
72 1,1-Dichloro-2-propanone	63	5.311	5.316	(0.860)	48798	214.930	214.930(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2086958	246.464	246.464	
75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	594333	44.4299	44.4299	
74 Tetrachloroethene	164	5.409	5.409	(0.876)	344538	44.1248	44.1248	

Data File: 2524062779.D Page 3
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	600337	46.4709	46.4709	
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	321610	48.8150	48.8150	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	410000	43.9452	43.9452	
	79 1,3-Dichloropropane	76	5.714	5.715	(0.926)	656409	50.4266	50.4266	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	402259	45.8896	45.8896	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1410332	242.795	242.795	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	467311	41.4251	41.4251	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	427317	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	547608	42.8409	42.8409	
	84 Chlorobenzene	112	6.184	6.189	(1.002)	1051242	48.1069	48.1069	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	368552	44.7026	44.7026	
	87 mp-Xylene	106	6.287	6.293	(1.019)	1307279	86.0636	86.0636	
M	120 1,3-Dichloropropene, Total	75				1244010	89.3987	89.3987	
	88 o-Xylene	106	6.609	6.610	(1.071)	633950	43.5942	43.5942	
	89 Styrene	104	6.648	6.648	(0.836)	1060787	48.6088	48.6088	
	90 Bromoform	173	6.680	6.681	(0.840)	276678	44.9141	44.9141	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1377979	45.3029	45.3029	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	309541	30.3200	30.3200	
M	121 TOTAL XYLENES	106				1941229	129.658	129.658	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	429247	48.1113	48.1113	
	93 Bromobenzene	156	7.155	7.155	(0.900)	446482	51.1725	51.1725	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	473571	54.6091	54.6091	
	97 1,3,5-Trimethylbenzene	105	7.302	7.303	(0.918)	1218828	49.0857	49.0857	
	96 o-Chlorotoluene	91	7.291	7.292	(0.917)	1186011	50.5254	50.5254	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	151040	54.0012	54.0012	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	125903	47.3276	47.3276	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	1085653	51.0606	51.0606	
	102 tert-Butylbenzene	134	7.559	7.564	(0.951)	296071	49.8547	49.8547	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	264377	44.3656	44.3656(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.613	7.614	(0.957)	1227749	46.6849	46.6849	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1452337	47.3246	47.3246	
	106 p-Isopropyltoluene	134	7.815	7.815	(0.983)	332522	47.3155	47.3155	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	752798	51.2135	51.2135	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	369030	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	768976	50.1886	50.1886	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	289703	44.1116	44.1116(Q)	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	144203	39.3673	39.3673(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	221302	42.0854	42.0854	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	724803	51.7646	51.7646	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	76056	45.8935	45.8935	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	243875	453.457	453.457	
	116 Hexachlorobutadiene	225	9.523	9.529	(1.198)	166575	36.0300	36.0300	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	461751	49.7977	49.7977	
	118 Naphthalene	128	9.829	9.829	(1.236)	1273408	46.7422	46.7422	
	119 1,2,3-Trichlorobenzene	180	9.981	9.982	(1.255)	460297	44.2149	44.2149	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

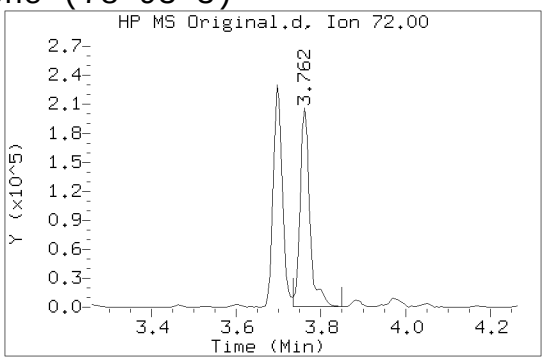

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Methylene Chloride+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-1,1-Dichloropropene+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
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-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
-p-Chlorotoluene
-tert-Butylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
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-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Page 1

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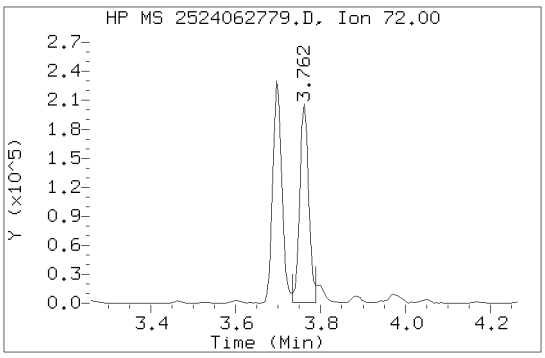
2-Butanone (78-93-3)

Reason Code: MP

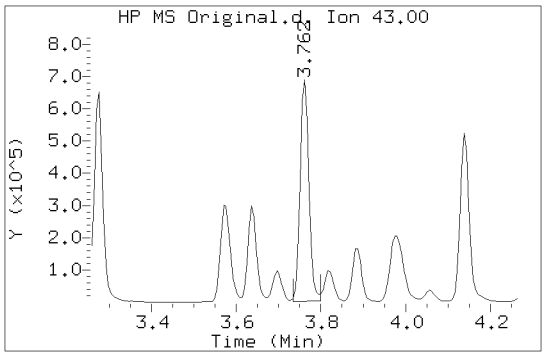
BEFORE
MASS
72
AREA
328399
HEIGHT
205561
28-Jun-2024
09:12



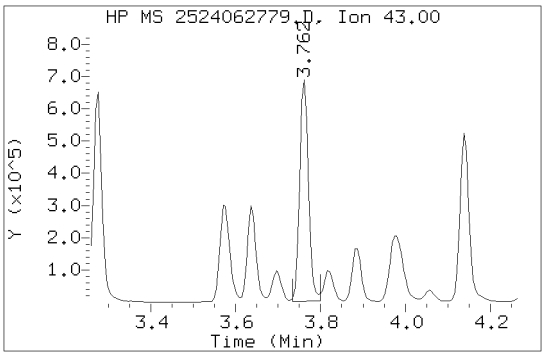
AFTER
MASS
72
AREA
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HEIGHT
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28-Jun-2024
15:35



BEFORE
MASS
43
AREA
995906
HEIGHT
685885
28-Jun-2024
09:12



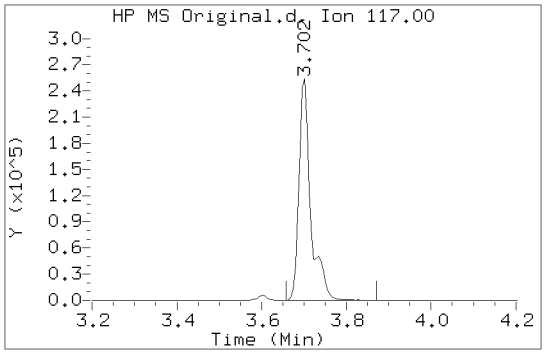
AFTER
MASS
43
AREA
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HEIGHT
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28-Jun-2024
15:35



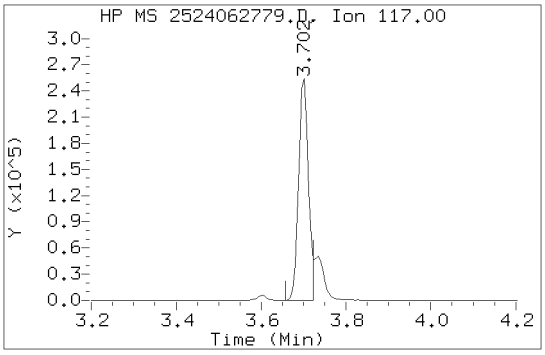
Carbon Tetrachloride (56-23-5)

Reason Code: MP

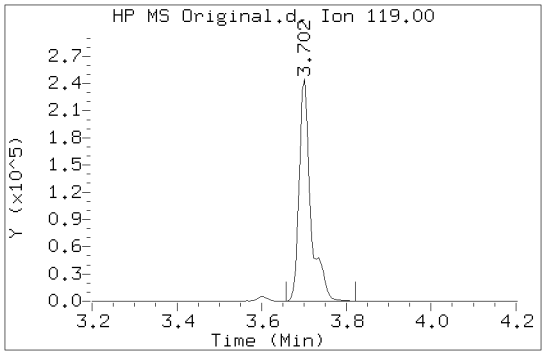
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MASS
117
AREA
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HEIGHT
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28-Jun-2024
09:12



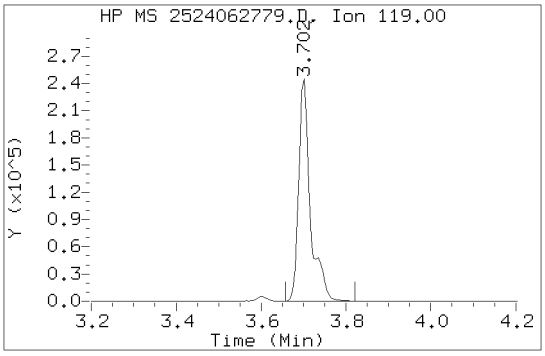
AFTER
MASS
117
AREA
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HEIGHT
254016
28-Jun-2024
15:35



BEFORE
MASS
119
AREA
468875
HEIGHT
244928
28-Jun-2024
09:12



AFTER
MASS
119
AREA
468875
HEIGHT
244928
28-Jun-2024
15:35

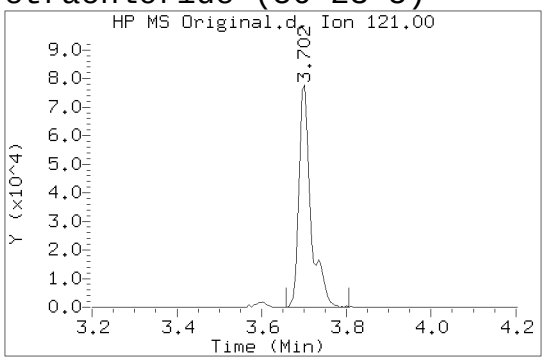


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Inj Date : 28-JUN-2024 05:22
InstruID : ms25.i
LabSampID : 1801

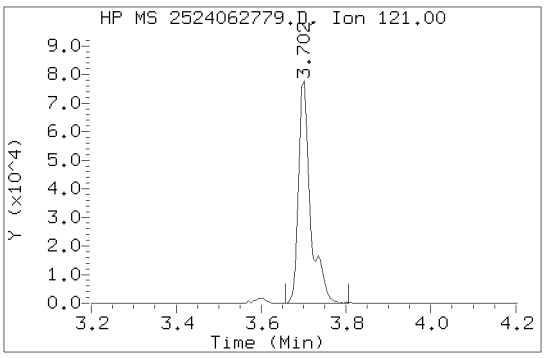
Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
121
AREA
153260
HEIGHT
77768
28-Jun-2024
09:12



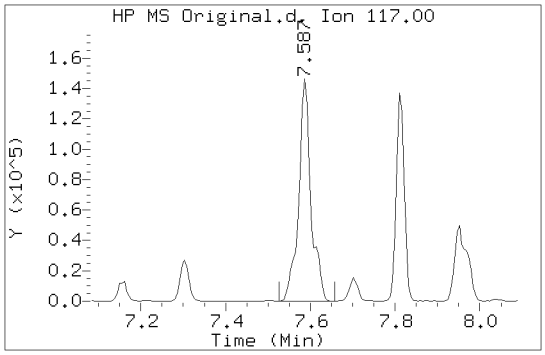
AFTER
MASS
121
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HEIGHT
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28-Jun-2024
15:35



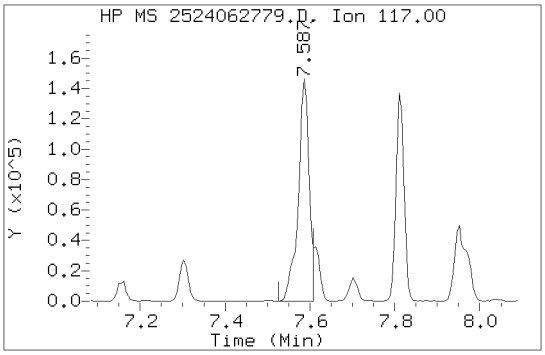
Pentachloroethane (76-01-7)

Reason Code: MP

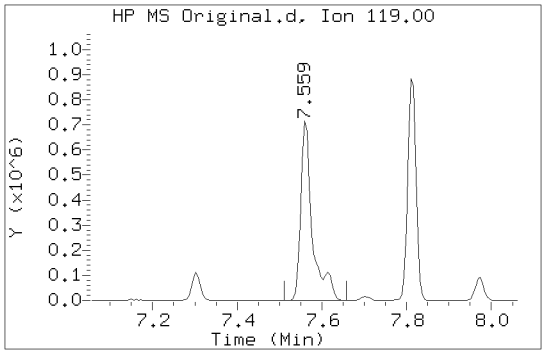
BEFORE
MASS
117
AREA
295251
HEIGHT
146304
28-Jun-2024
09:12



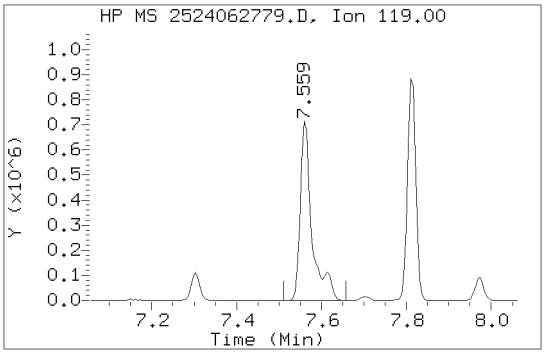
AFTER
MASS
117
AREA
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HEIGHT
146304
28-Jun-2024
15:35



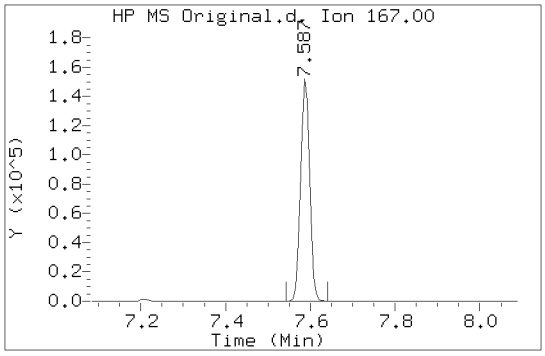
BEFORE
MASS
119
AREA
1370071
HEIGHT
715520
28-Jun-2024
09:12



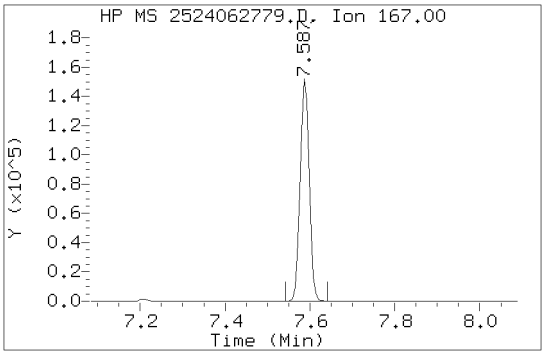
AFTER
MASS
119
AREA
1370071
HEIGHT
715520
28-Jun-2024
15:35



BEFORE
MASS
167
AREA
226105
HEIGHT
152000
28-Jun-2024
09:12



AFTER
MASS
167
AREA
226105
HEIGHT
152000
28-Jun-2024
15:35

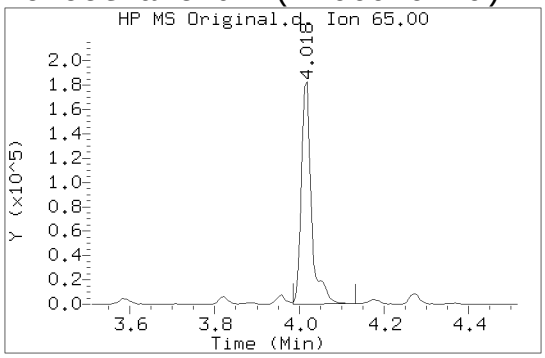


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Inj Date : 28-JUN-2024 05:22
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LabSampID : 1801

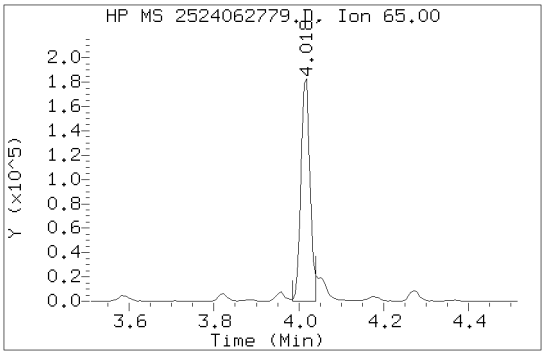
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

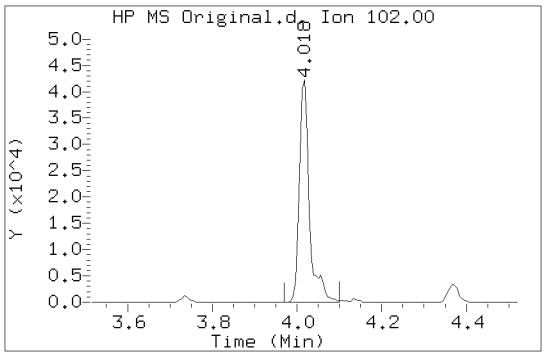
BEFORE
MASS
65
AREA
303707
HEIGHT
182459
28-Jun-2024
09:12



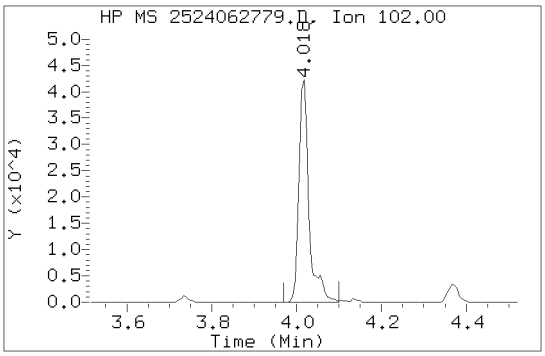
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MASS
65
AREA
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HEIGHT
182459
28-Jun-2024
15:35



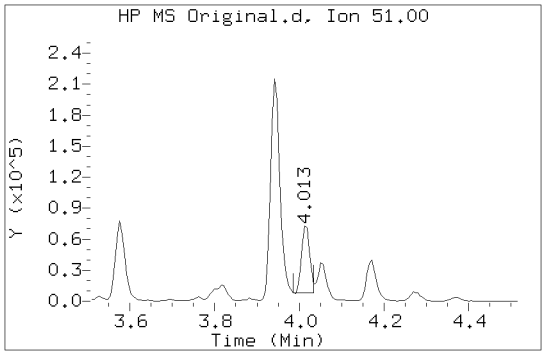
BEFORE
MASS
102
AREA
70459
HEIGHT
42240
28-Jun-2024
09:12



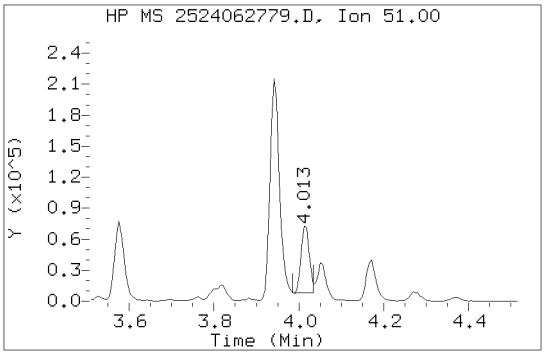
AFTER
MASS
102
AREA
70459
HEIGHT
42240
28-Jun-2024
15:35



BEFORE
MASS
51
AREA
88271
HEIGHT
64987
28-Jun-2024
09:12



AFTER
MASS
51
AREA
88271
HEIGHT
64987
28-Jun-2024
15:35



UNASSIGNED PEAK REPORT

Report Date: 06/28/2024 15:35
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240627A.b/25240627
Inj Date: 28-JUN-2024 05:22
Operator: BST

There were no Unassigned peaks in this sample!

right solutions.
right partner.

Raw Data 25240628

Volatiles by EPA 8260D

Workorder

3366036

Client

ALS Houston

Project

AHH133|HS24061218

07/09/2024

www.alsglobal.com

Data File: 2524062800.D Page 1
Report Date: 28-Jun-2024 09:14

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062800.D
Lab Smp Id: 1000
Inj Date : 28-JUN-2024 09:00
Operator : TMP Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

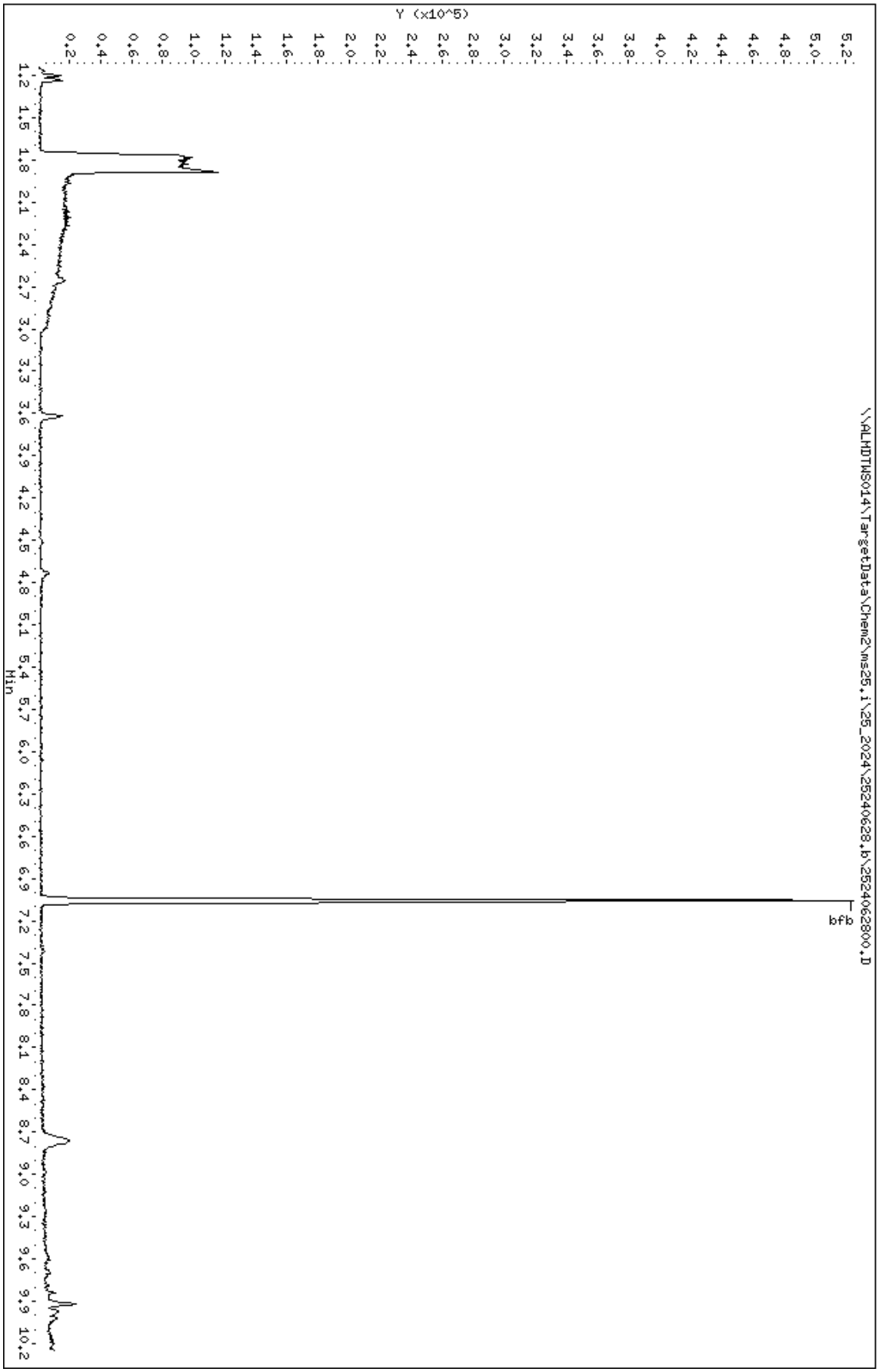
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
7.057	8.129	(0.000)	95	93616			0.00- 100.00	100.00
7.057	8.129	(0.000)	50	17312			15.00- 40.00	18.49
7.057	8.129	(0.000)	75	44616			30.00- 60.00	47.66
7.057	8.129	(0.000)	96	6656			5.00- 9.00	7.11
7.057	8.129	(0.000)	173	365			0.00- 2.00	0.45
7.057	8.129	(0.000)	174	80744			50.00- 0.00	86.25
7.057	8.129	(0.000)	175	6388			5.00- 9.00	7.91
7.057	8.129	(0.000)	176	79000			95.00- 101.00	97.84
7.057	8.129	(0.000)	177	5283			5.00- 9.00	6.69

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.49
75	30.00 - 60.00% of mass 95	47.66
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.39 (0.45)
174	Greater than 50.00% of mass 95	86.25
175	5.00 - 9.00% of mass 174	6.82 (7.91)
176	95.00 - 101.00% of mass 174	84.39 (97.84)
177	5.00 - 9.00% of mass 176	5.64 (6.69)

Data File: 2524062800.D
Spectrum: Avg. Scans 1084-1086 (7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	757	63.00	3165	93.00	4170	141.00	929
37.00	4461	64.00	307	94.00	11214	142.00	64
38.00	3788	67.00	394	95.00	93616	143.00	860
39.00	1350	68.00	9611	96.00	6656	146.00	108
42.00	64	69.00	9495	97.00	376	148.00	287
43.00	135	70.00	902	103.00	209	155.00	209
44.00	493	72.00	433	104.00	339	156.00	89
45.00	600	73.00	3819	105.00	167	157.00	96
46.00	53	74.00	15201	106.00	474	161.00	187
47.00	1205	75.00	44616	107.00	63	171.00	160
48.00	559	76.00	3932	115.00	114	172.00	225
49.00	3803	77.00	634	116.00	339	173.00	365
50.00	17312	78.00	468	117.00	539	174.00	80744
51.00	5693	79.00	3121	118.00	435	175.00	6388
52.00	388	80.00	840	119.00	441	176.00	79000
55.00	368	81.00	2972	128.00	495	177.00	5283
56.00	1499	82.00	658	129.00	95	178.00	62
57.00	2555	83.00	130	130.00	381	211.00	195
58.00	53	87.00	4011	131.00	126		
60.00	1008	88.00	4363	135.00	67		
61.00	4464	91.00	335	137.00	264		
62.00	3919	92.00	2757	140.00	52		


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Date : 28-JUN-2024 09:00
Client ID:
Sample Info: 1000
Volume Injected (uL): 1.0
Column phase: DB624
Instrument: ms25,i
Operator: THP
Column diameter: 0.53
Page 1
Y (x10^5)
\\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\25240628,b\2524062800.D
bfb
Min

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062800.D
Inj Date : 28-JUN-2024 09:00
InstruID : ms25.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2524062801.D Page 1
Report Date: 30-Jun-2024 14:58

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062801.D
Lab Smp Id: 1800
Inj Date : 28-JUN-2024 09:53
Operator : TMP Inst ID: ms25.i
Smp Info : 1800;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	522975	50.0000	45.5603	
2 Chloromethane	50	1.644	1.644	(0.394)	498166	50.0000	49.6944	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	622041	50.0000	47.9365	
4 Bromomethane	94	1.922	1.922	(0.461)	330884	50.0000	53.3014	
5 Chloroethane	64	2.004	2.004	(0.481)	418408	50.0000	47.7213	
6 Pentane	41	2.092	2.092	(0.502)	346589	50.0000	42.7039	
7 Trichlorofluoromethane	101	2.097	2.097	(0.503)	836914	50.0000	47.0857	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	838647	50.0000	50.9927	
9 Ethyl Ether	74	2.277	2.277	(0.546)	259287	50.0000	51.8443	
10 1,1-Dichloroethene	61	2.414	2.414	(0.579)	486093	50.0000	48.7074	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	1060410	50.0000	49.2562	
11 Freon 113	101	2.424	2.424	(0.581)	336781	50.0000	47.9785	
13 Iodomethane	127	2.506	2.506	(0.601)	190868	50.0000	49.3398	
14 Acrolein	56	2.599	2.599	(0.623)	394338	250.000	244.969	
16 3-Chloro-1-propene	41	2.681	2.681	(0.643)	423514	50.0000	48.7054	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	136872	250.000	260.250	
17 Methylene Chloride	84	2.741	2.741	(0.657)	415804	50.0000	51.0065	
18 Acetone	58	2.752	2.752	(0.660)	216587	250.000	239.805	
19 Methyl acetate	74	2.817	2.817	(0.676)	87587	50.0000	47.1866	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	503858	50.0000	51.5475	
21 Hexane	57	2.866	2.866	(0.687)	766982	50.0000	47.1553	

Data File: 2524062801.D
Report Date: 30-Jun-2024 14:58

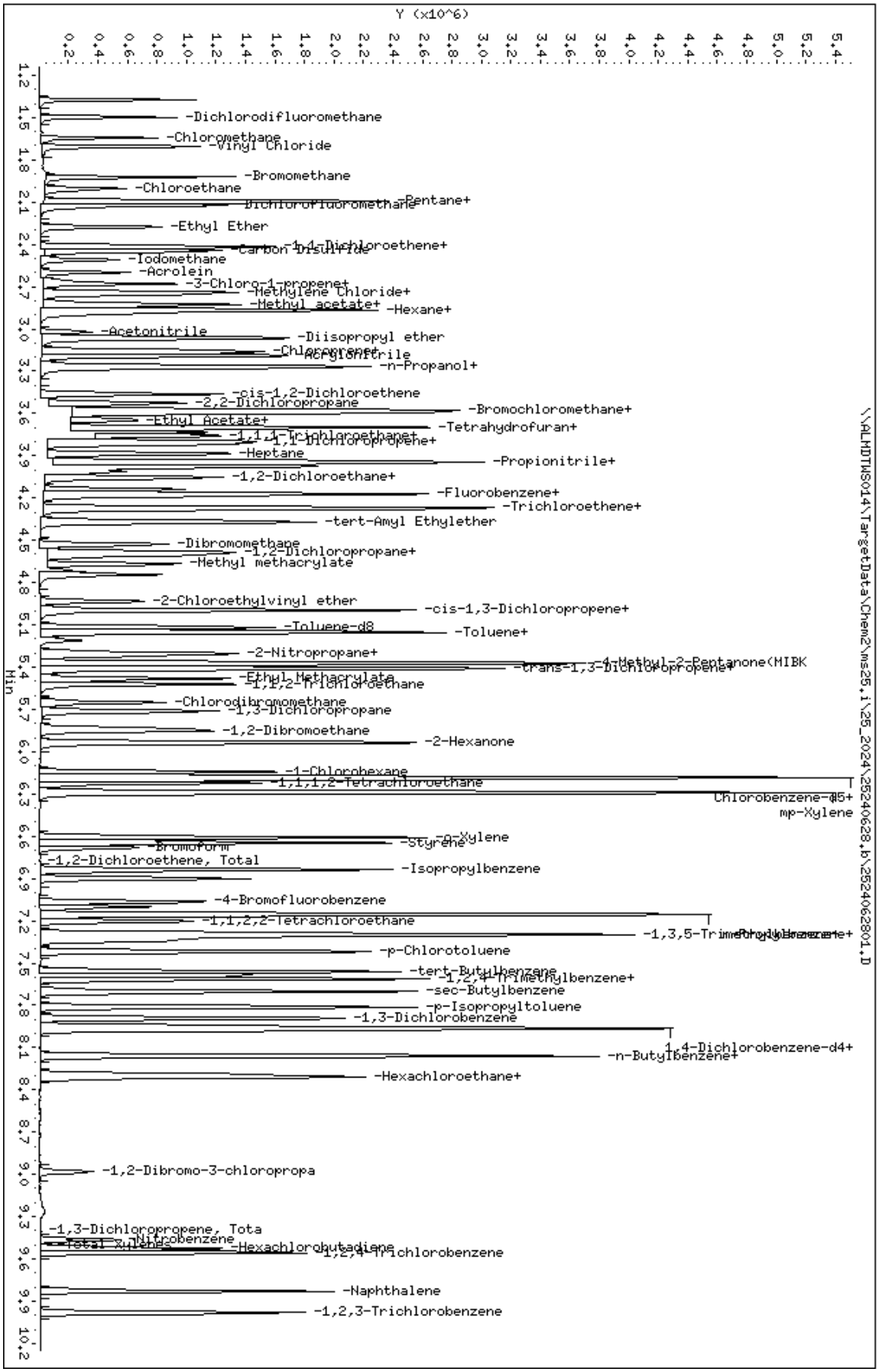
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1224730	50.0000	48.8448	
23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	229444	250.000	254.476	
24 Acetonitrile	41	3.019	3.019	(0.724)	269805	250.000	267.144	
25 Diisopropyl ether	45	3.063	3.063	(0.734)	1162416	50.0000	53.5838	
26 Chloroprene	53	3.156	3.156	(0.757)	586187	50.0000	53.2981	
27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	696701	50.0000	52.3174	
28 Acrylonitrile	53	3.188	3.188	(0.765)	943483	250.000	272.040(M)	MP
30 n-Propanol	41	3.265	3.265	(0.783)	212630	500.000	497.521	
29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1250326	50.0000	54.2669	
31 Vinyl acetate	86	3.276	3.276	(0.785)	105996	50.0000	46.6572	
32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	515189	50.0000	51.9816	
33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	541182	50.0000	50.9894	
M 100 1,2-Dichloroethene, Total	61				1019047	100.000	103.529	
34 Bromochloromethane	128	3.576	3.576	(0.857)	225522	50.0000	52.7657	
35 Cyclohexane	84	3.592	3.592	(0.861)	575162	50.0000	48.3654	
36 Chloroform	83	3.598	3.598	(0.863)	727311	50.0000	50.5922	
37 Ethyl acetate	43	3.636	3.636	(0.872)	414353	50.0000	48.0661	
38 Methyl acrylate	55	3.652	3.652	(0.876)	418844	50.0000	52.4813	
39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	456704	50.0000	43.2489(M)	MP
40 Tetrahydrofuran	42	3.696	3.696	(0.886)	628267	250.000	257.505	
$ 41 Dibromofluoromethane	113	3.707	3.707	(0.889)	239748	30.0000	29.2895	
42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	573212	50.0000	51.2274	
43 2-Butanone	72	3.761	3.761	(0.902)	293285	250.000	248.658(M)	MP
44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	536580	50.0000	50.6957	
45 1-Chlorobutane	41	3.821	3.821	(0.916)	331584	50.0000	48.7154	
46 Heptane	71	3.887	3.887	(0.932)	293493	50.0000	47.7279	
48 Propionitrile	54	3.941	3.941	(0.945)	357280	250.000	272.044	
47 Benzene	78	3.941	3.941	(0.945)	1602139	50.0000	49.2473	
49 Methacrylonitrile	67	3.952	3.952	(0.948)	206876	50.0000	52.5475	
50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	1204105	50.0000	54.1395	
$ 51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	250186	30.0000	28.9946(M)	MP
54 Isobutyl alcohol	42	3.985	3.985	(0.956)	103812	500.000	518.152(M)	MP
52 1,2-Dichloroethane	62	4.056	4.056	(0.973)	524527	50.0000	51.2891	
53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	178309	250.000	257.759	
* 55 Fluorobenzene	96	4.171	4.171	(1.000)	1037403	30.0000		
56 Diisobutylene	57	4.176	4.176	(1.001)	931592	50.0000	46.2717	
57 Trichloroethene	95	4.269	4.269	(1.024)	415600	50.0000	50.4763	
58 Methyl cyclohexane	83	4.274	4.274	(0.692)	635200	50.0000	49.5114	
59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	942938	50.0000	48.6456	
60 Dibromomethane	93	4.525	4.525	(1.085)	273495	50.0000	52.5444	
61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	410545	50.0000	52.4333	
62 Bromodichloromethane	83	4.607	4.607	(1.105)	507307	50.0000	46.6069	
63 Methyl methacrylate	41	4.667	4.667	(1.119)	335986	50.0000	54.2196	
65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	267474	50.0000	46.7021	
66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	664624	50.0000	49.6722	
67 Octane	85	5.000	5.000	(0.810)	247791	50.0000	50.9393	
$ 68 Toluene-d8	98	5.120	5.120	(0.829)	930097	30.0000	29.7020	
69 Toluene	92	5.153	5.153	(0.835)	963088	50.0000	48.5241	
70 Chloroacetonitrile	75	5.213	5.213	(0.844)	129683	250.000	262.103	
71 2-Nitropropane	41	5.300	5.300	(0.859)	513583	250.000	236.074	
72 1,1-Dichloro-2-propanone	63	5.316	5.316	(0.861)	50536	250.000	240.249	
73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	2038160	250.000	259.997	
75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	602124	50.0000	48.6031	
74 Tetrachloroethene	164	5.409	5.409	(0.876)	359744	50.0000	49.7763	

Data File: 2524062801.D Page 3
Report Date: 30-Jun-2024 14:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
76 Ethyl methacrylate	69	5.480	5.480	(0.888)	596730	50.0000	49.8820	
77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	326226	50.0000	53.4964	
78 Chlorodibromomethane	129	5.649	5.649	(0.915)	407883	50.0000	47.2055	
79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	655351	50.0000	54.3929	
80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	393954	50.0000	48.5417	
81 2-Hexanone	43	5.933	5.933	(0.961)	1377785	250.000	256.199	
82 1-Chlorohexane	91	6.146	6.146	(0.996)	543321	50.0000	52.0351	
* 83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	395519	30.0000		
85 Ethylbenzene	106	6.189	6.189	(1.003)	560990	50.0000	47.4305	
84 Chlorobenzene	112	6.184	6.184	(1.002)	1057594	50.0000	52.2886	
86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	364641	50.0000	47.7621	
87 mp-Xylene	106	6.288	6.288	(1.019)	1360923	100.000	96.8971	
M 120 1,3-Dichloropropene, Total	75				1266748	100.000	98.2753	
88 o-Xylene	106	6.610	6.610	(1.071)	649037	50.0000	48.2199	
89 Styrene	104	6.648	6.648	(0.836)	1053521	50.0000	49.2274	
90 Bromoform	173	6.680	6.680	(0.840)	272520	50.0000	45.1129	
91 Isopropylbenzene	105	6.839	6.839	(0.860)	1476432	50.0000	49.4875	
$ 92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	293145	30.0000	29.2822	
M 121 TOTAL XYLENES	106				2009960	150.000	145.117	
94 n-Propylbenzene	120	7.155	7.155	(0.900)	454683	50.0000	51.9708	
93 Bromobenzene	156	7.155	7.155	(0.900)	443340	50.0000	51.8179	
95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	464231	50.0000	54.5914	
97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	1283166	50.0000	52.6994	
96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1235746	50.0000	53.6860	
98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	146032	50.0000	53.2439	
99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	127893	50.0000	49.0166	
101 p-Chlorotoluene	91	7.417	7.417	(0.933)	1121063	50.0000	53.7694	
102 tert-Butylbenzene	134	7.559	7.559	(0.951)	311370	50.0000	53.4684	
103 Pentachloroethane	117	7.586	7.586	(0.954)	280902	50.0000	48.0471(M)	
104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1277802	50.0000	49.5590	
105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1633565	50.0000	54.2833	
106 p-Isopropyltoluene	134	7.815	7.815	(0.983)	372062	50.0000	53.9895	
107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	760008	50.0000	52.7271	
* 108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	361869	30.0000		
109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	778069	50.0000	51.7870	
111 n-Butylbenzene	134	8.159	8.159	(1.026)	338298	50.0000	52.5303	
110 Benzyl Chloride	126	8.159	8.159	(1.026)	165312	50.0000	45.9437	
112 Hexachloroethane	117	8.290	8.290	(1.043)	230172	50.0000	44.6148	
113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	726959	50.0000	52.9460	
114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	76019	50.0000	46.7709	
115 Nitrobenzene	77	9.463	9.463	(1.190)	234976	500.000	446.343	
116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	216275	50.0000	47.6242	
117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	495994	50.0000	54.5492	
118 Naphthalene	128	9.829	9.829	(1.236)	1264368	50.0000	47.3247	
119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	475468	50.0000	46.5604	

QC Flag Legend

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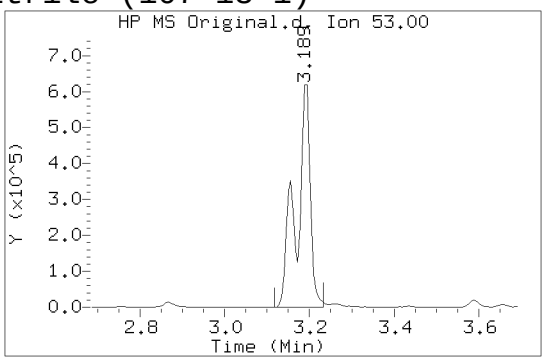

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Ethyl Ether
-Iodomethane
-Acrolein
-Methylene Chloride+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
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-o-Xylene
-Styrene
-Bromoform
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
-p-Chlorotoluene
-tert-Butylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Nitrobenzene
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Page 1

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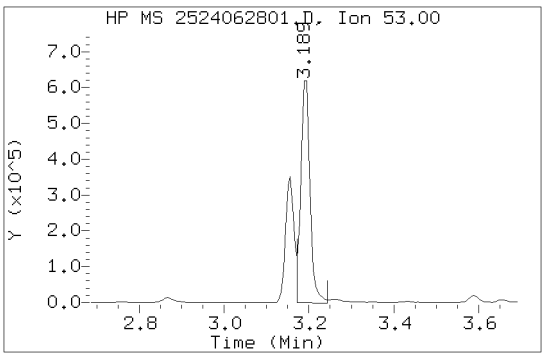
Acrylonitrile (107-13-1)

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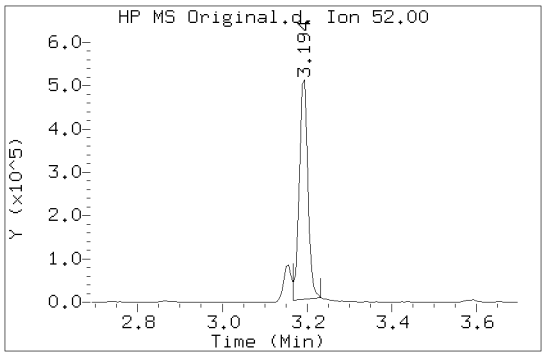
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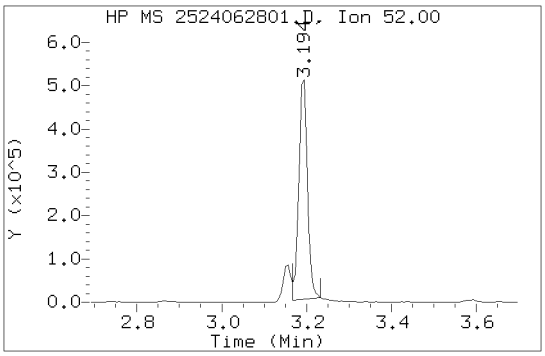
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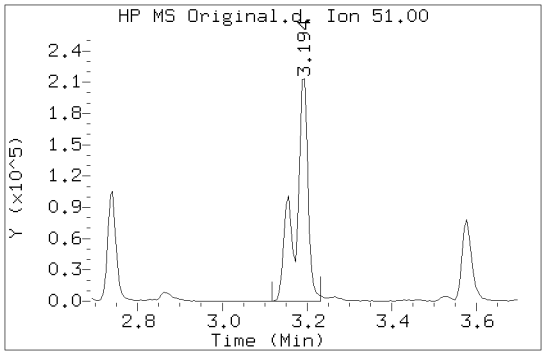
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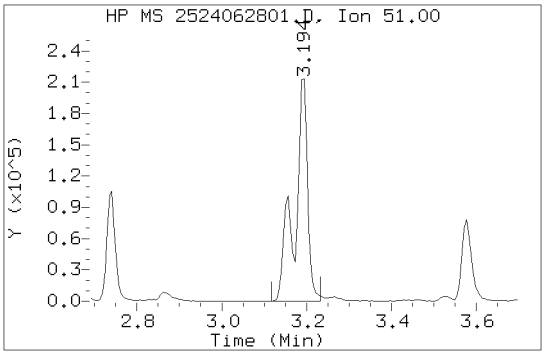
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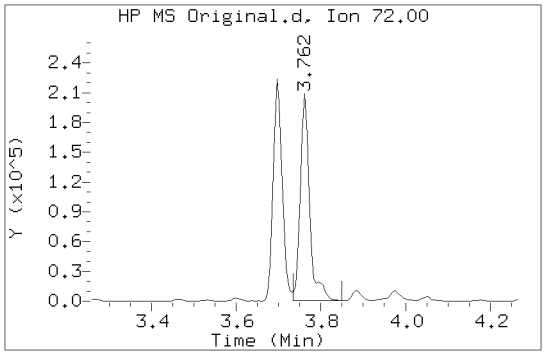
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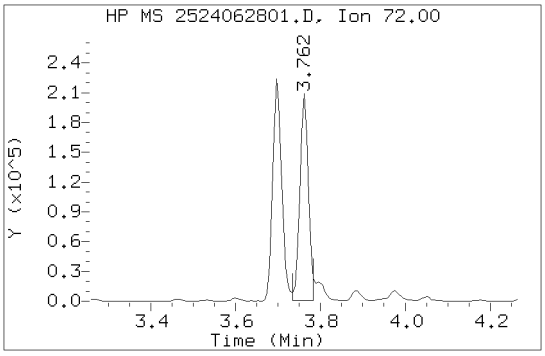
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Reason Code: MP

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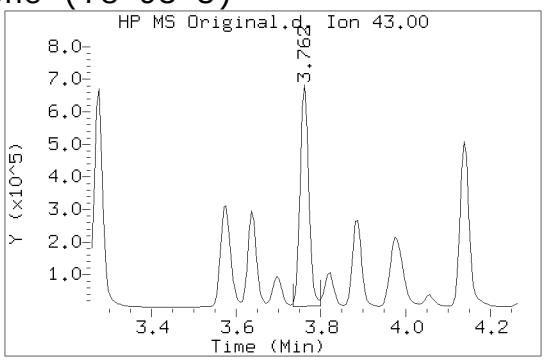


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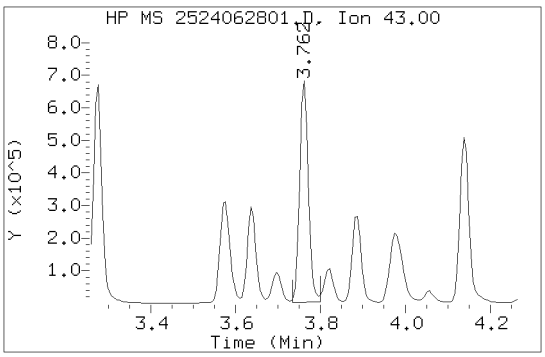
2-Butanone (78-93-3)

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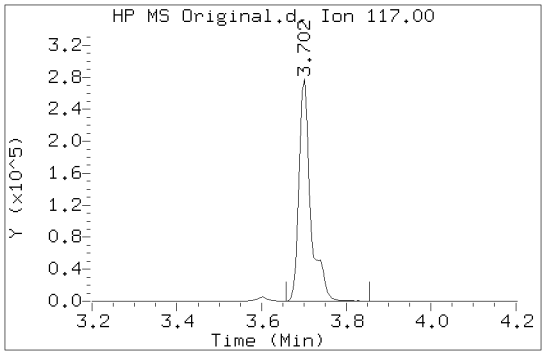
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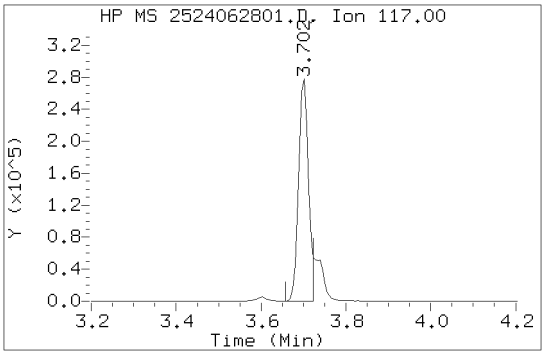
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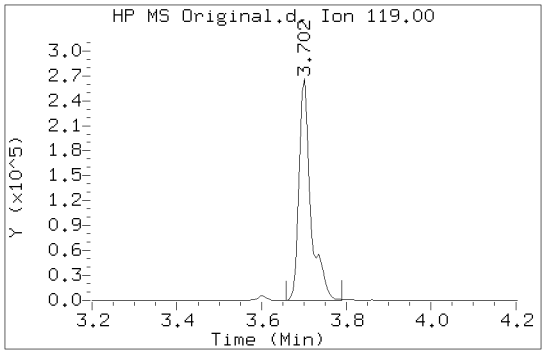
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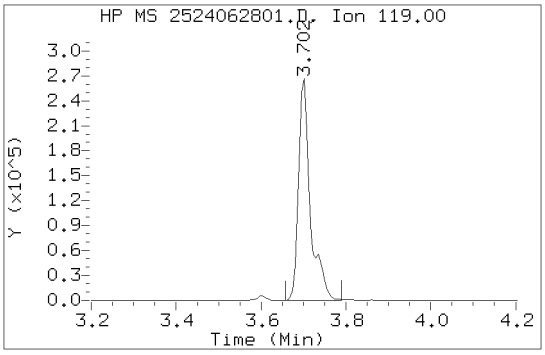
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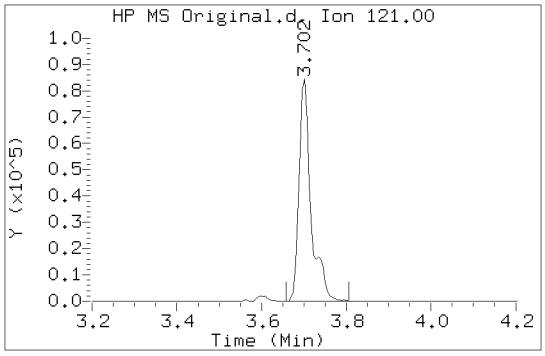
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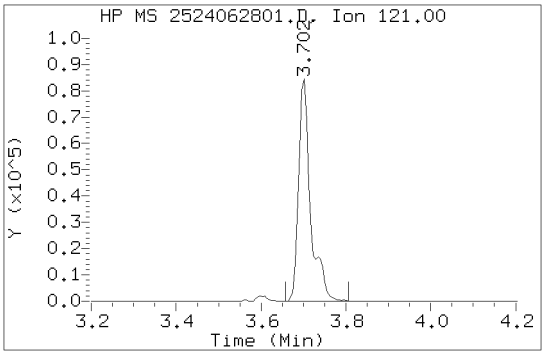
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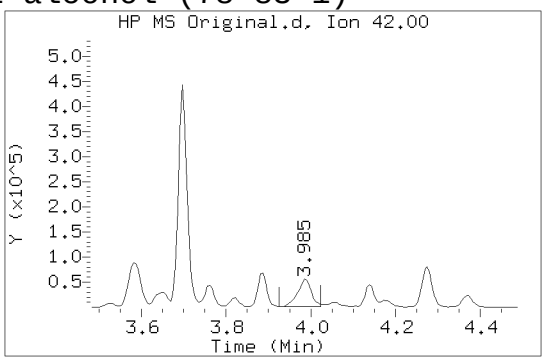


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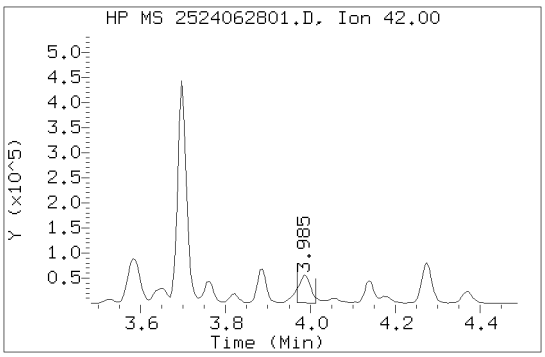
Isobutyl alcohol (78-83-1)

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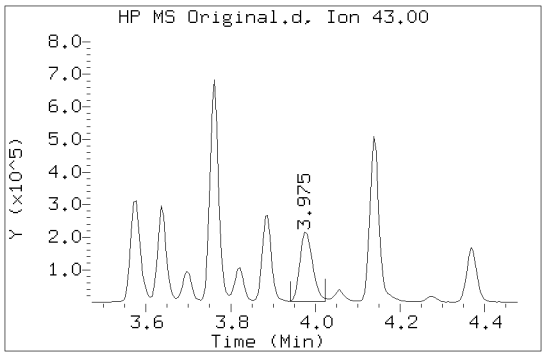
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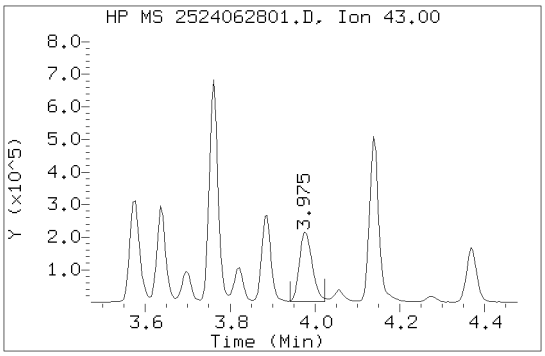
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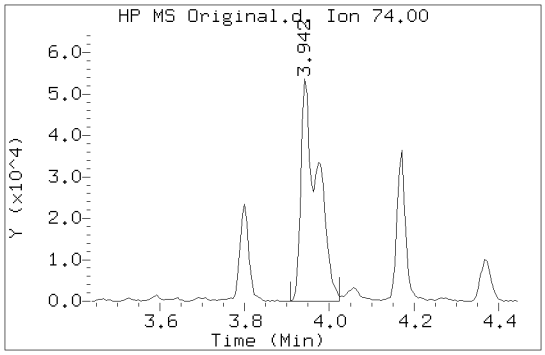
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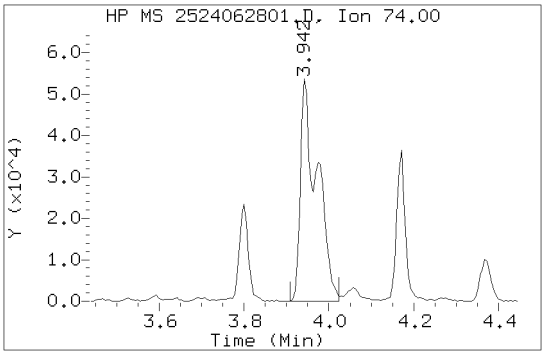
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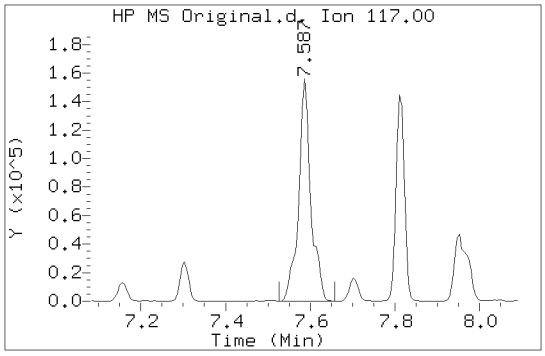
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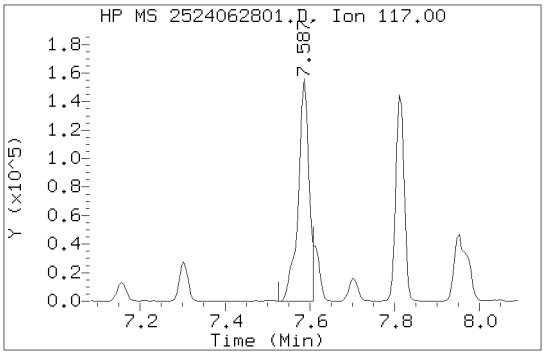
Pentachloroethane (76-01-7)

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AFTER
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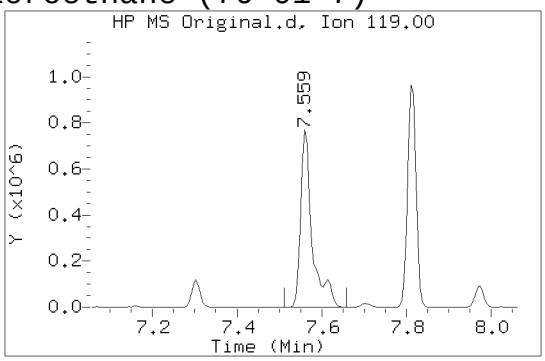


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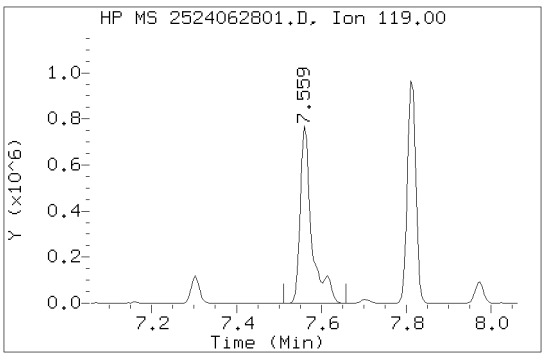
Pentachloroethane (76-01-7)

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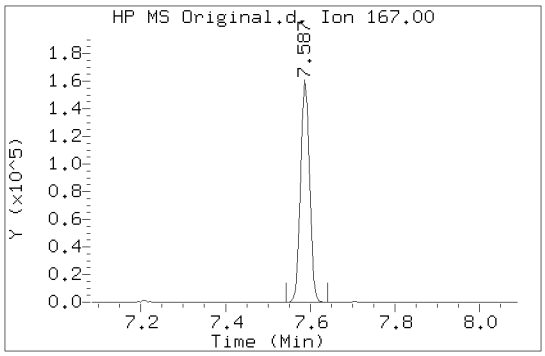
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28-Jun-2024
10:05



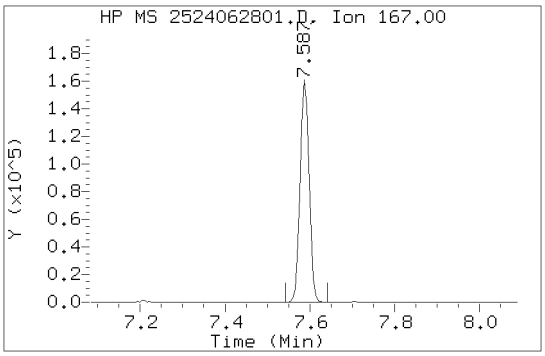
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30-Jun-2024
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BEFORE
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28-Jun-2024
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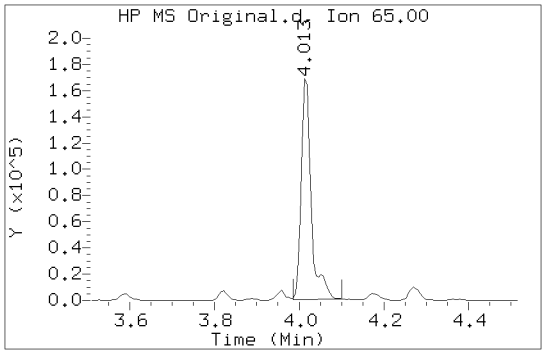
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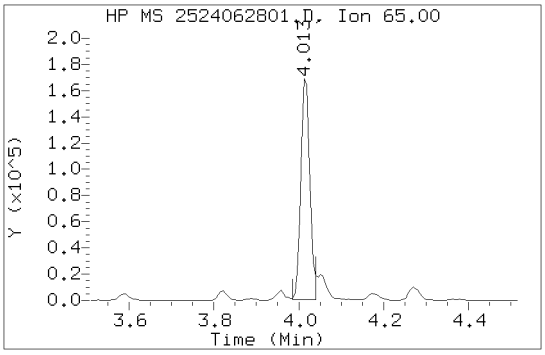
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

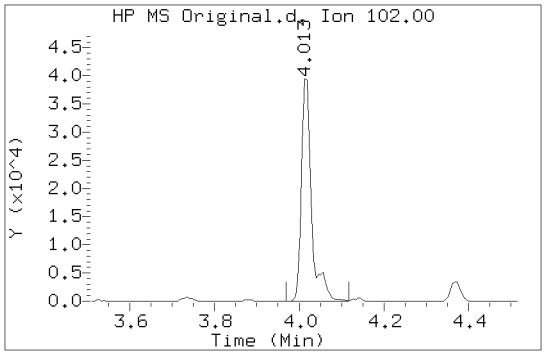
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28-Jun-2024
10:05



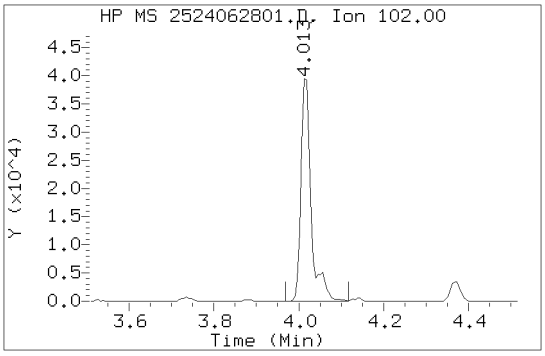
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BEFORE
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10:05



AFTER
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30-Jun-2024
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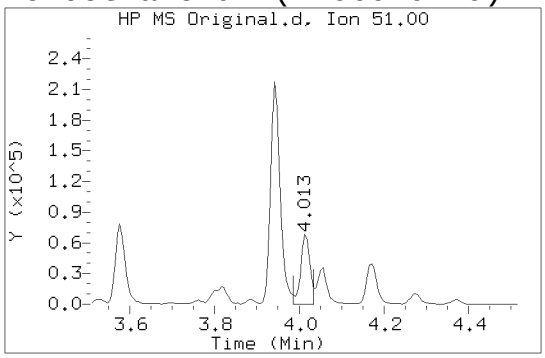
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1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

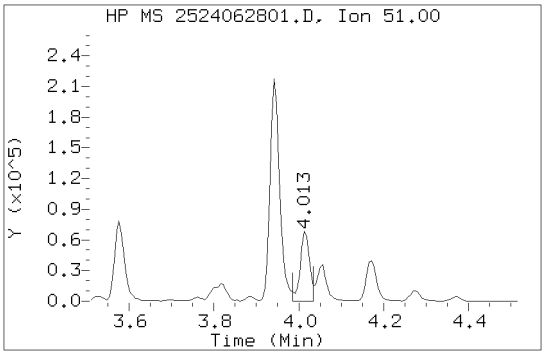
BEFORE

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28-Jun-2024
10:05



AFTER

MASS
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AREA
106137
HEIGHT
68238
30-Jun-2024
14:58



UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 14:58
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 09:53
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524062802.D Page 1
Report Date: 30-Jun-2024 15:00

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062802.D
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Inj Date : 28-JUN-2024 10:23
Operator : TMP Inst ID: ms25.i
Smp Info : 3845976;;1;3;;LCS;1;
Misc Info : ZZ VOMS 73650 D8260DW
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Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.497	1.497	(0.359)	231494	20.1179	20.1179	
2 Chloromethane	50	1.644	1.644	(0.394)	202494	20.0810	20.0810	
3 Vinyl Chloride	62	1.704	1.704	(0.409)	256702	19.7339	19.7339	
4 Bromomethane	94	1.922	1.922	(0.461)	126243	20.0141	20.0141	
5 Chloroethane	64	1.999	2.004	(0.479)	180018	20.3059	20.3059	
6 Pentane	41	2.086	2.092	(0.500)	172226	20.6347	20.6347	
7 Trichlorofluoromethane	101	2.092	2.097	(0.502)	343768	19.2935	19.2935	
8 Dichlorofluoromethane	67	2.124	2.124	(0.509)	355400	21.5567	21.5567	
9 Ethyl Ether	74	2.277	2.277	(0.546)	106843	21.3110	21.3110	
10 1,1-Dichloroethene	61	2.408	2.414	(0.577)	215374	21.5281	21.5281	
12 Carbon Disulfide	76	2.446	2.446	(0.587)	455997	21.1293	21.1293	
11 Freon 113	101	2.424	2.424	(0.581)	149869	21.2984	21.2984	
13 Iodomethane	127	2.506	2.506	(0.601)	73359	19.2324	19.2324	
14 Acrolein	56	2.599	2.599	(0.623)	250559	155.270	155.270	
16 3-Chloro-1-propene	41	2.675	2.681	(0.642)	184153	21.2251	21.2251	
15 Isopropyl Alcohol	45	2.654	2.654	(0.636)	49756	92.3501	92.3501	
17 Methylene Chloride	84	2.735	2.741	(0.656)	175173	21.4358	21.4358	
18 Acetone	58	2.752	2.752	(0.660)	97878	108.106	108.106	
19 Methyl acetate	74	2.817	2.817	(0.676)	35247	18.6897	18.6897	
20 trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	211089	21.5428	21.5428	
21 Hexane	57	2.861	2.866	(0.686)	339205	20.6399	20.6399	
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	487666	19.5409	19.5409	

Data File: 2524062802.D
Report Date: 30-Jun-2024 15:00

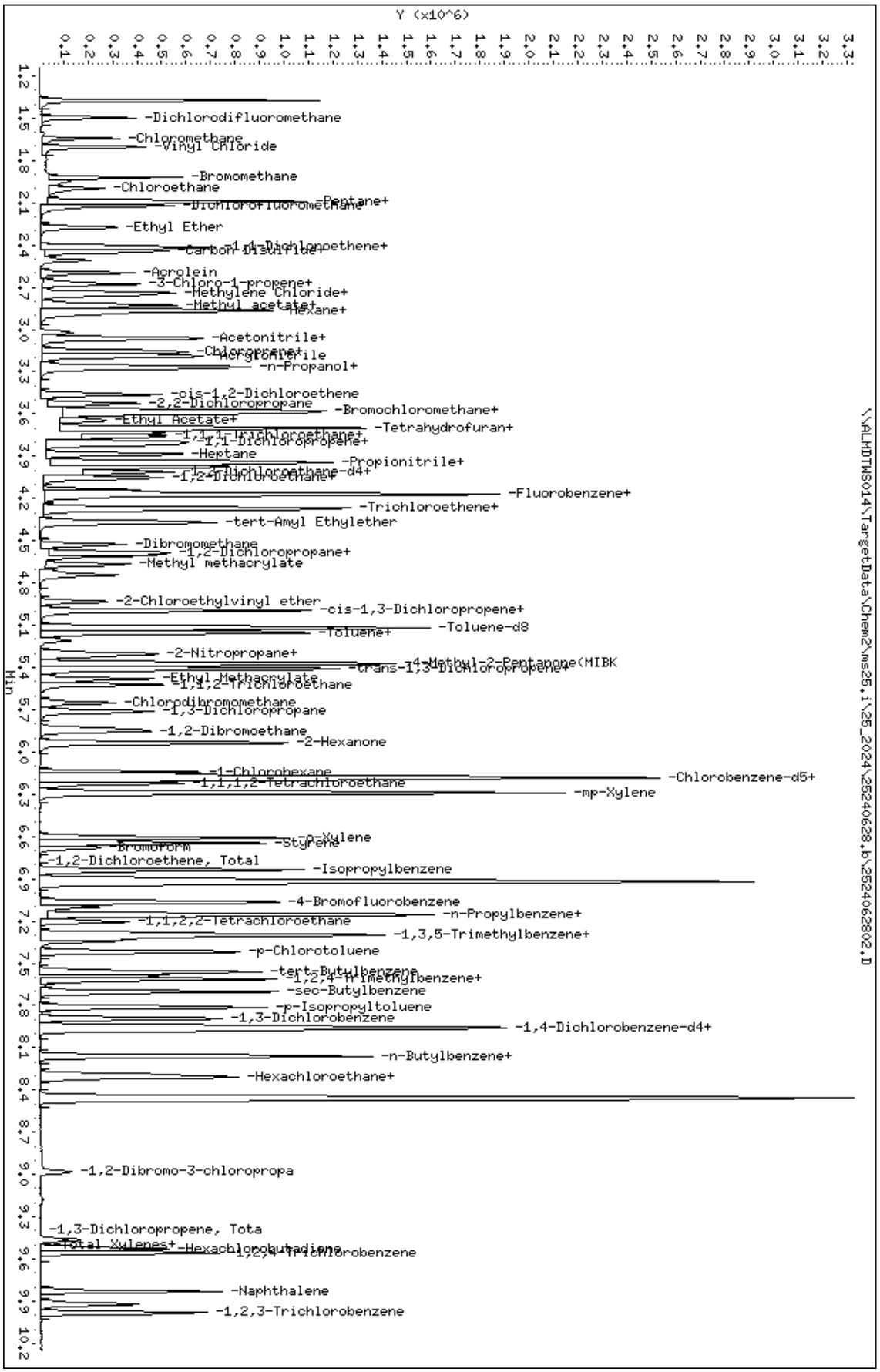
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	2.899	2.894	(0.695)	91568	101.310	101.310	
	24 Acetonitrile	41	3.019	3.019	(0.724)	107091	105.776	105.776	
	25 Diisopropyl ether	45	3.063	3.063	(0.734)	467800	21.5114	21.5114	
	26 Chloroprene	53	3.150	3.156	(0.755)	174316	15.8106	15.8106(Q)	
	27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	278259	20.8442	20.8442	
	28 Acrylonitrile	53	3.188	3.188	(0.765)	425900	122.502	122.502(Q)	
	30 n-Propanol	41	3.265	3.265	(0.783)	87932	205.244	205.244	
	29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	500124	21.6534	21.6534	
	31 Vinyl acetate	86	3.276	3.276	(0.785)	38750	17.2582	17.2582(Q)	
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	209928	21.1296	21.1296	
	33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	226731	21.3100	21.3100	
M	100 1,2-Dichloroethene, Total	61				421017	42.6723	42.6723	
	34 Bromochloromethane	128	3.576	3.576	(0.857)	90818	21.1969	21.1969	
	35 Cyclohexane	84	3.587	3.592	(0.860)	249682	20.9444	20.9444	
	36 Chloroform	83	3.598	3.598	(0.863)	300003	20.8174	20.8174	
	37 Ethyl acetate	43	3.636	3.636	(0.872)	162550	18.7580	18.7580	
	38 Methyl acrylate	55	3.652	3.652	(0.876)	166492	20.8105	20.8105	
	39 Carbon Tetrachloride	117	3.696	3.701	(0.886)	181999	17.4434	17.4434(M)	MP
	40 Tetrahydrofuran	42	3.696	3.696	(0.886)	243277	99.4669	99.4669	
$	41 Dibromofluoromethane	113	3.701	3.707	(0.887)	243373	29.6597	29.6597	
	42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	241257	21.5082	21.5082	
	43 2-Butanone	72	3.761	3.761	(0.902)	122737	103.807	103.807(M)	MP
	44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	218128	20.5582	20.5582	
	45 1-Chlorobutane	41	3.816	3.821	(0.915)	145599	21.3387	21.3387	
	46 Heptane	71	3.887	3.887	(0.932)	135221	21.9359	21.9359	
	48 Propionitrile	54	3.941	3.941	(0.945)	138285	105.037	105.037	
	47 Benzene	78	3.941	3.941	(0.945)	647800	19.8637	19.8637	
	49 Methacrylonitrile	67	3.952	3.952	(0.948)	82372	20.8717	20.8717	
	50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	481050	21.5763	21.5763	
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	263383	30.4494	30.4494(M)	MP
	54 Isobutyl alcohol	42	3.990	3.985	(0.957)	34767	175.782	175.782(QM)	MP
	52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	201940	19.6977	19.6977	
	53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	71704	103.400	103.400	
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	1039946	30.0000		
	56 Diisobutylene	57	4.176	4.176	(1.001)	412226	19.5821	19.5821	
	57 Trichloroethene	95	4.269	4.269	(1.024)	166800	20.2090	20.2090	
	58 Methyl cyclohexane	83	4.274	4.274	(0.692)	268267	20.9059	20.9059	
	59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	356901	18.5302	18.5302	
	60 Dibromomethane	93	4.525	4.525	(1.085)	105436	20.2070	20.2070	
	61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	163300	20.8051	20.8051	
	62 Bromodichloromethane	83	4.607	4.607	(1.105)	203412	18.8398	18.8398	
	63 Methyl methacrylate	41	4.667	4.667	(1.119)	128785	20.7318	20.7318	
	65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	109540	19.2984	19.2984	
	66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	249923	18.8502	18.8502	
	67 Octane	85	5.000	5.000	(0.810)	127294	26.1627	26.1627(R)	
$	68 Toluene-d8	98	5.114	5.120	(0.829)	950149	30.3358	30.3358	
	69 Toluene	92	5.153	5.153	(0.835)	389709	19.6308	19.6308	
	70 Chloroacetonitrile	75	5.213	5.213	(0.844)	51068	103.192	103.192	
	71 2-Nitropropane	41	5.300	5.300	(0.859)	187593	87.3976	87.3976	
	72 1,1-Dichloro-2-propanone	63	5.311	5.316	(0.860)	17821	85.9578	85.9578(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	808385	103.708	103.708	
	75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	240414	19.5802	19.5802	
	74 Tetrachloroethene	164	5.409	5.409	(0.876)	145946	20.1896	20.1896	
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	225465	19.0396	19.0396	

Data File: 2524062802.D
Report Date: 30-Jun-2024 15:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	5.524	5.524	(0.895)	126511	20.7415	20.7415	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	154283	18.0809	18.0809	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	260665	21.6300	21.6300	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	152760	18.9619	18.9619	
	81 2-Hexanone	43	5.933	5.933	(0.961)	551268	103.152	103.152	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	221200	21.1803	21.1803	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	395604	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	227417	19.1436	19.1436	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	415957	20.5609	20.5609	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	144525	19.1183	19.1183	
	87 mp-Xylene	106	6.288	6.288	(1.019)	552630	38.8678	38.8678	
M	120 1,3-Dichloropropene, Total	75				490337	38.4304	38.4304	
	88 o-Xylene	106	6.610	6.610	(1.071)	259660	19.2872	19.2872	
	89 Styrene	104	6.648	6.648	(0.836)	405336	21.2208	21.2208	
	90 Bromoform	173	6.680	6.680	(0.840)	97012	18.0686	18.0686	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	646497	24.1574	24.1574	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	262843	29.1841	29.1841	
M	121 TOTAL XYLENES	106				812290	58.1550	58.1550	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	166113	21.1049	21.1049	
	93 Bromobenzene	156	7.155	7.155	(0.900)	154585	20.0835	20.0835	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	165022	21.5705	21.5705	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	463354	21.1526	21.1526	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	443949	21.4384	21.4384	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	52367	21.2231	21.2231	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	45078	19.3804	19.3804	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	420066	22.3950	22.3950	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	118054	22.5335	22.5335	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	96827	18.5894	18.5894(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	469155	20.1355	20.1355	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	620753	22.9286	22.9286	
	106 p-Isopropyltoluene	134	7.810	7.815	(0.982)	134907	21.7599	21.7599	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	286011	22.0560	22.0560	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	325554	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	294406	21.7810	21.7810	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	123630	21.3384	21.3384	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	57697	18.1113	18.1113(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	84110	18.3529	18.3529	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	270878	21.9293	21.9293	
	114 1,2-Dibromo-3-chloropropane	75	8.983	8.983	(1.130)	27345	18.9493	18.9493	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	72687	164.996	164.996	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	91996	22.6501	22.6501	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	197198	24.1070	24.1070	
	118 Naphthalene	128	9.829	9.829	(1.236)	474430	19.9252	19.9252	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	177185	19.4574	19.4574	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\ALMDTWS014\TargetData\Chem2\ms25,i\25_2024\2524062802.b\2524062802.D
Date : 28-JUN-2024 10:23
Client ID: LCS for HBN 1236144
Sample Info: 3845976;;1;3;;LCS;1;
Purge Volume: 5.0
Column phase: DB-VRX

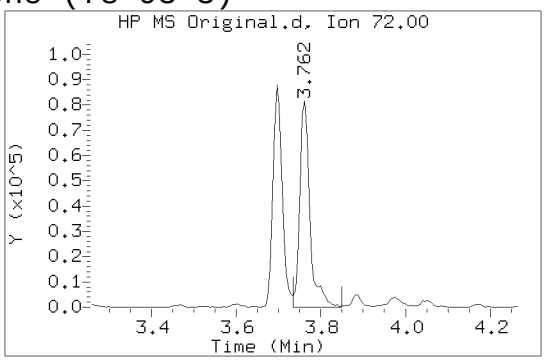
Instrument: ms25,i
Operator: THP
Column diameter: 0.25

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062802.D
Inj Date : 28-JUN-2024 10:23
InstruID : ms25.i
LabSampID : 3845976

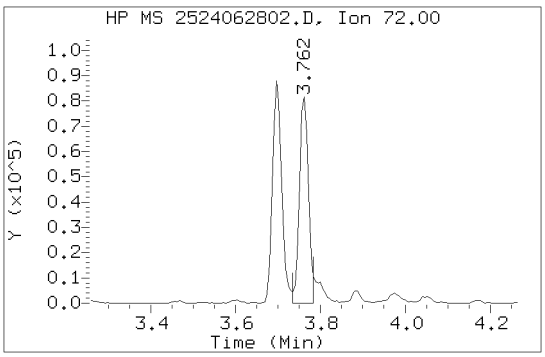
2-Butanone (78-93-3)

Reason Code: MP

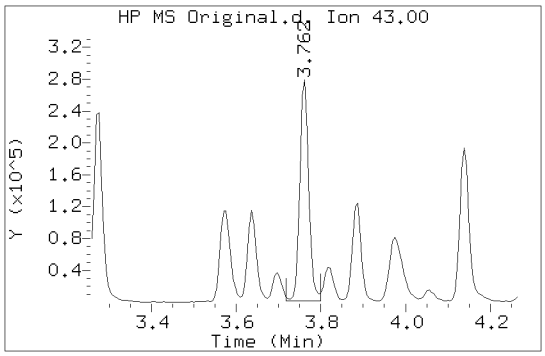
BEFORE
MASS
72
AREA
136684
HEIGHT
81616
28-Jun-2024
10:37



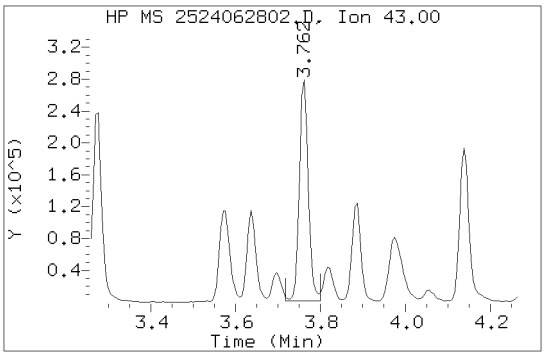
AFTER
MASS
72
AREA
122737
HEIGHT
81616
30-Jun-2024
15:00



BEFORE
MASS
43
AREA
409195
HEIGHT
277245
28-Jun-2024
10:37



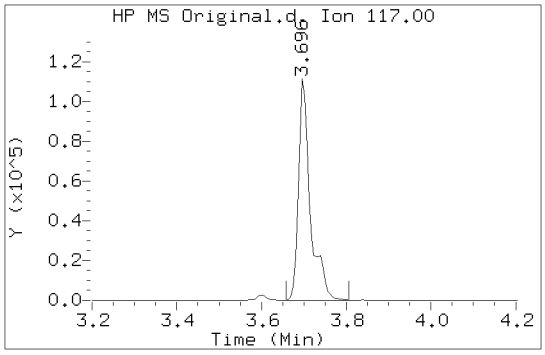
AFTER
MASS
43
AREA
409195
HEIGHT
277245
30-Jun-2024
15:00



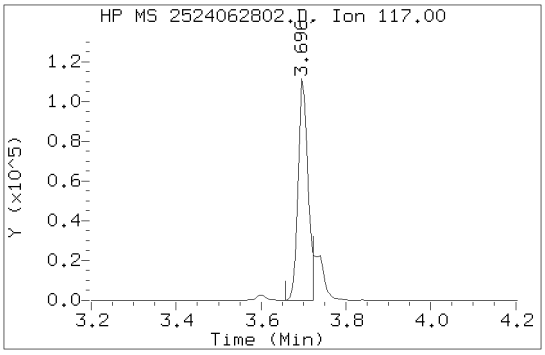
Carbon Tetrachloride (56-23-5)

Reason Code: MP

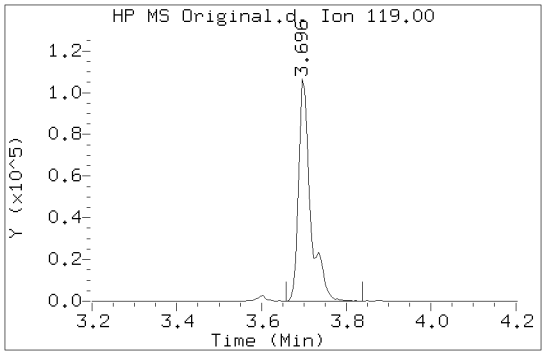
BEFORE
MASS
117
AREA
216795
HEIGHT
111552
28-Jun-2024
10:37



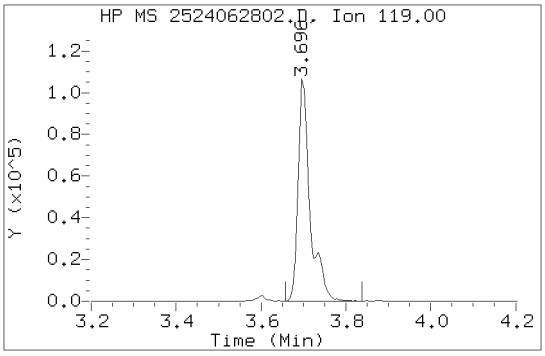
AFTER
MASS
117
AREA
181999
HEIGHT
111552
30-Jun-2024
15:00



BEFORE
MASS
119
AREA
210308
HEIGHT
106592
28-Jun-2024
10:37



AFTER
MASS
119
AREA
210308
HEIGHT
106592
30-Jun-2024
15:00

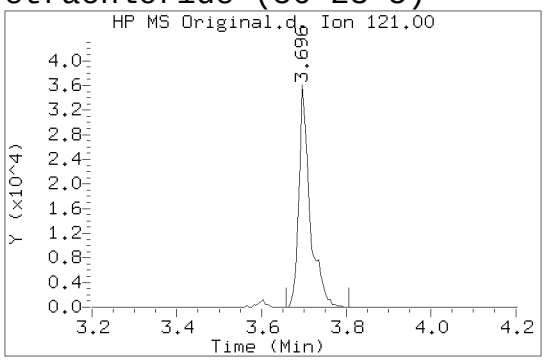


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Inj Date : 28-JUN-2024 10:23
InstruID : ms25.i
LabSampID : 3845976

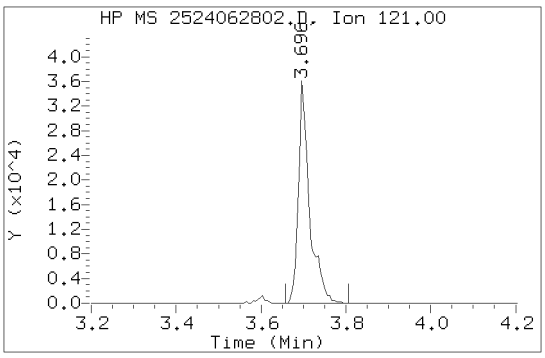
Carbon Tetrachloride (56-23-5)

Reason Code: MP

BEFORE
MASS
121
AREA
65893
HEIGHT
36080
28-Jun-2024
10:37



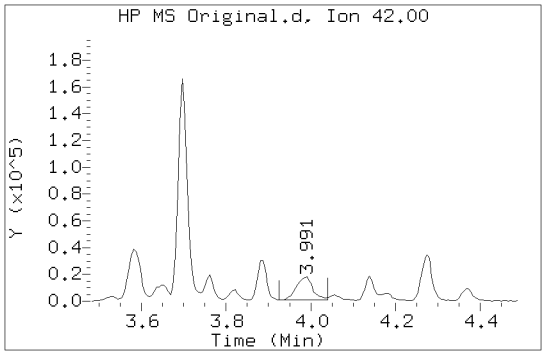
AFTER
MASS
121
AREA
65893
HEIGHT
36080
30-Jun-2024
15:00



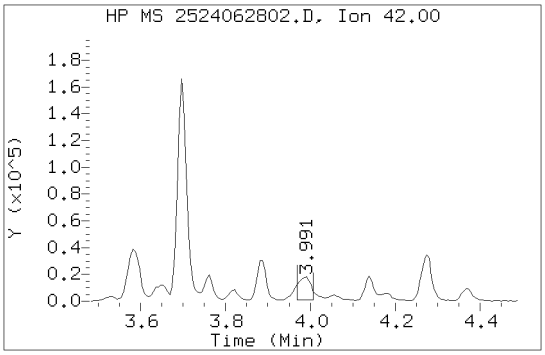
Isobutyl alcohol (78-83-1)

Reason Code: MP

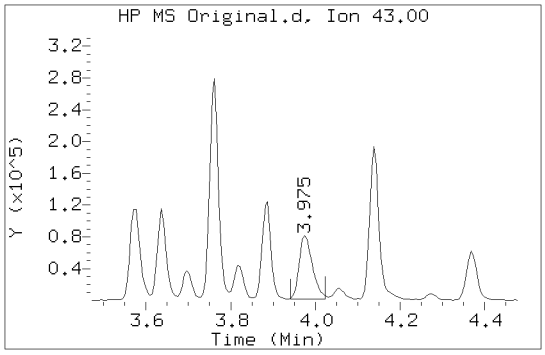
BEFORE
MASS
42
AREA
47003
HEIGHT
17225
28-Jun-2024
10:37



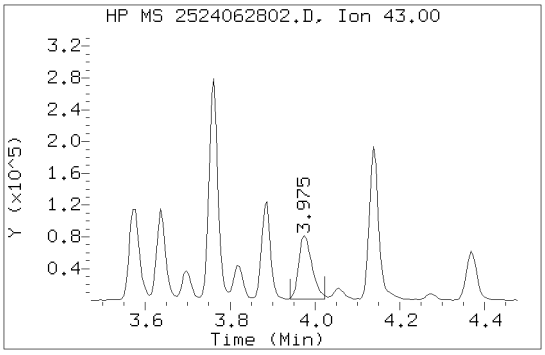
AFTER
MASS
42
AREA
34767
HEIGHT
17064
30-Jun-2024
15:00



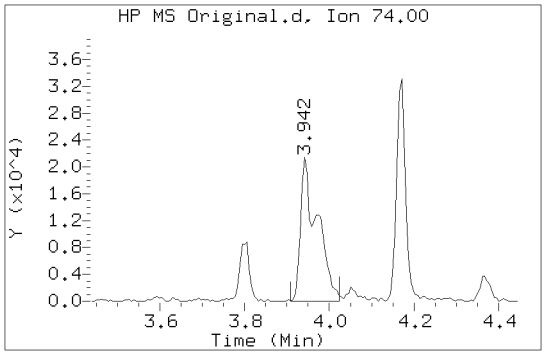
BEFORE
MASS
43
AREA
175860
HEIGHT
80369
28-Jun-2024
10:37



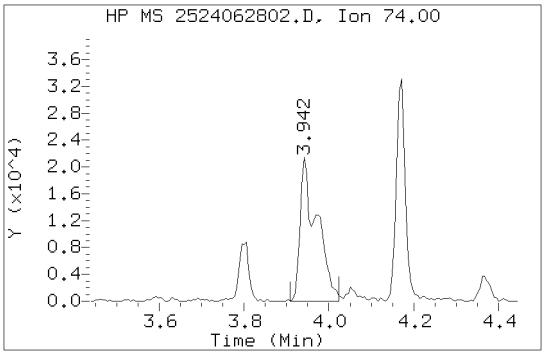
AFTER
MASS
43
AREA
175860
HEIGHT
80369
30-Jun-2024
15:00



BEFORE
MASS
74
AREA
58740
HEIGHT
21480
28-Jun-2024
10:37



AFTER
MASS
74
AREA
58740
HEIGHT
21480
30-Jun-2024
15:00

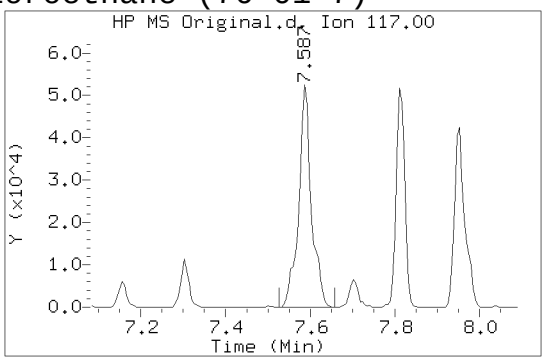


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Inj Date : 28-JUN-2024 10:23
InstruID : ms25.i
LabSampID : 3845976

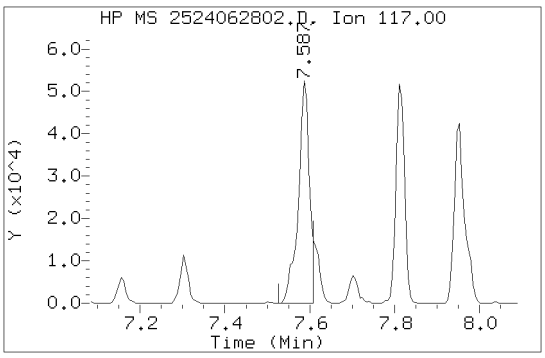
Pentachloroethane (76-01-7)

Reason Code: MP

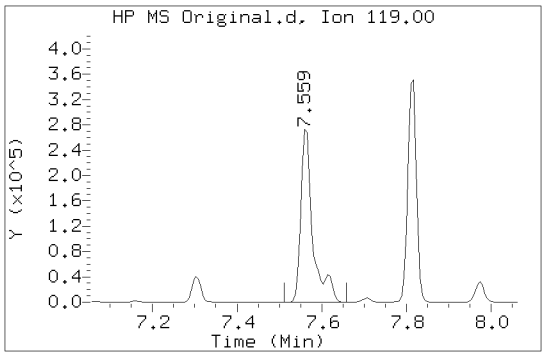
BEFORE
MASS
117
AREA
108579
HEIGHT
52472
28-Jun-2024
10:37



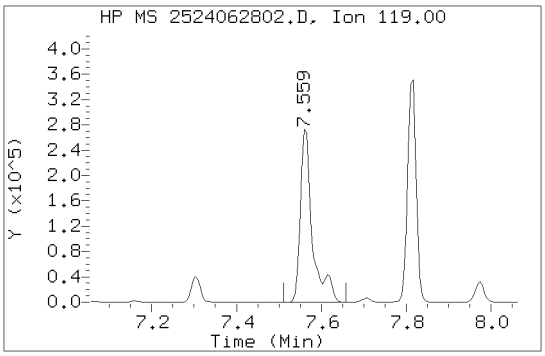
AFTER
MASS
117
AREA
96827
HEIGHT
52472
30-Jun-2024
15:00



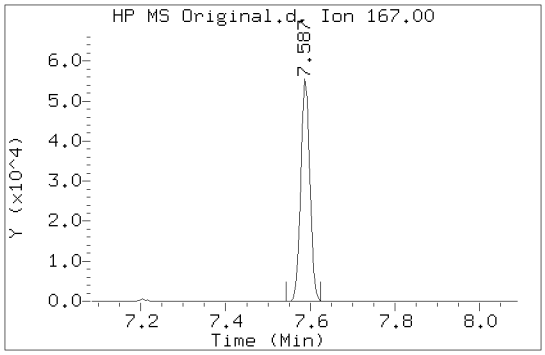
BEFORE
MASS
119
AREA
538948
HEIGHT
273088
28-Jun-2024
10:37



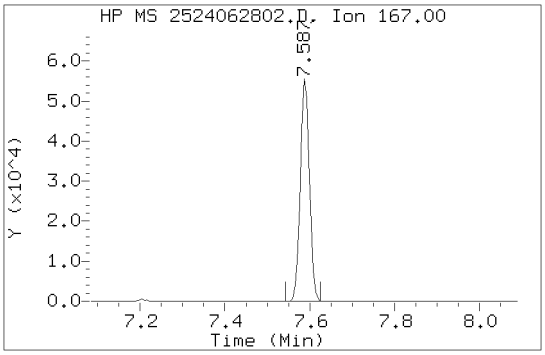
AFTER
MASS
119
AREA
538948
HEIGHT
273088
30-Jun-2024
15:00



BEFORE
MASS
167
AREA
82812
HEIGHT
55536
28-Jun-2024
10:37



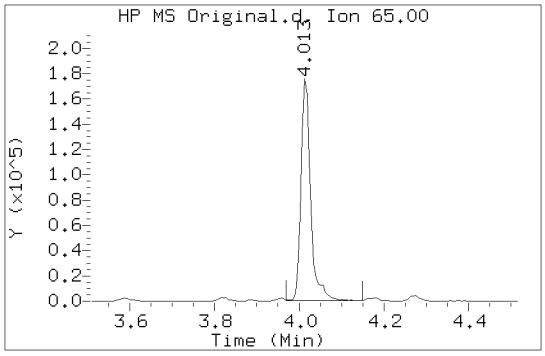
AFTER
MASS
167
AREA
82812
HEIGHT
55536
30-Jun-2024
15:00



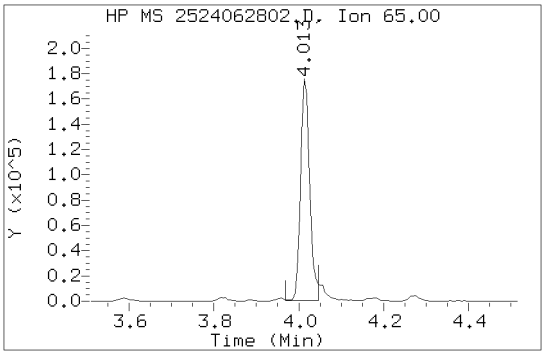
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

BEFORE
MASS
65
AREA
279018
HEIGHT
175513
28-Jun-2024
10:37



AFTER
MASS
65
AREA
263383
HEIGHT
175513
30-Jun-2024
15:00

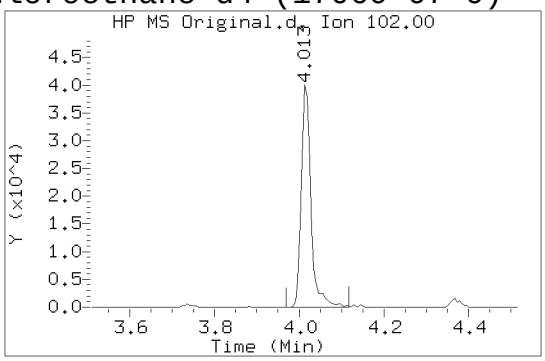


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Inj Date : 28-JUN-2024 10:23
InstruID : ms25.i
LabSampID : 3845976

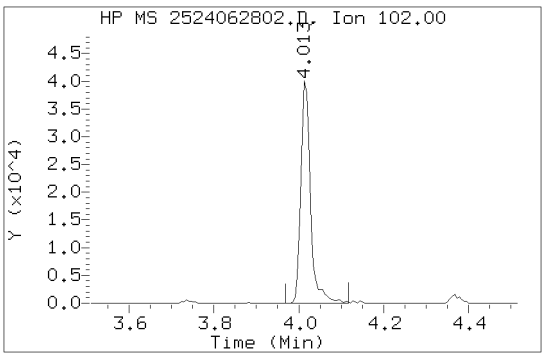
1,2-Dichloroethane-d4 (17060-07-0)

Reason Code: MP

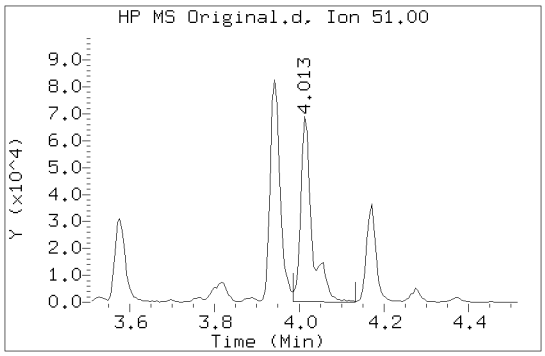
BEFORE
MASS
102
AREA
63884
HEIGHT
40056
28-Jun-2024
10:37



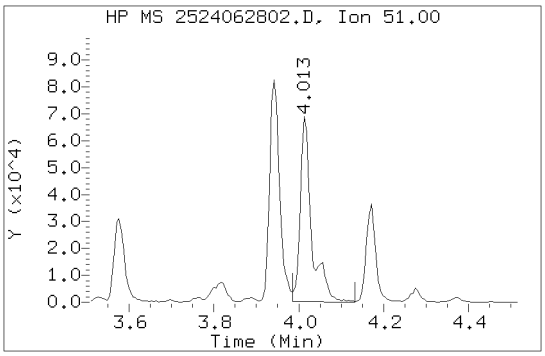
AFTER
MASS
102
AREA
63884
HEIGHT
40056
30-Jun-2024
15:00



BEFORE
MASS
51
AREA
129385
HEIGHT
68722
28-Jun-2024
10:37



AFTER
MASS
51
AREA
129385
HEIGHT
68722
30-Jun-2024
15:00



UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:00
Client ID: LCS for HBN 1236144
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 10:23
Operator: TMP

There were no Unassigned peaks in this sample!

Data File: 2524062804.D Page 1
Report Date: 29-Jun-2024 09:39

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062804.D
Lab Smp Id: 3845975 Client Smp ID: MB for HBN 1236144
Inj Date : 28-JUN-2024 11:24
Operator : TMP Inst ID: ms25.i
Smp Info : 3845975;;1;3;;MB;;
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						
22 Methyl t-Butyl Ether	73	Compound Not Detected.						

Data File: 2524062804.D Page 2
Report Date: 29-Jun-2024 09:39

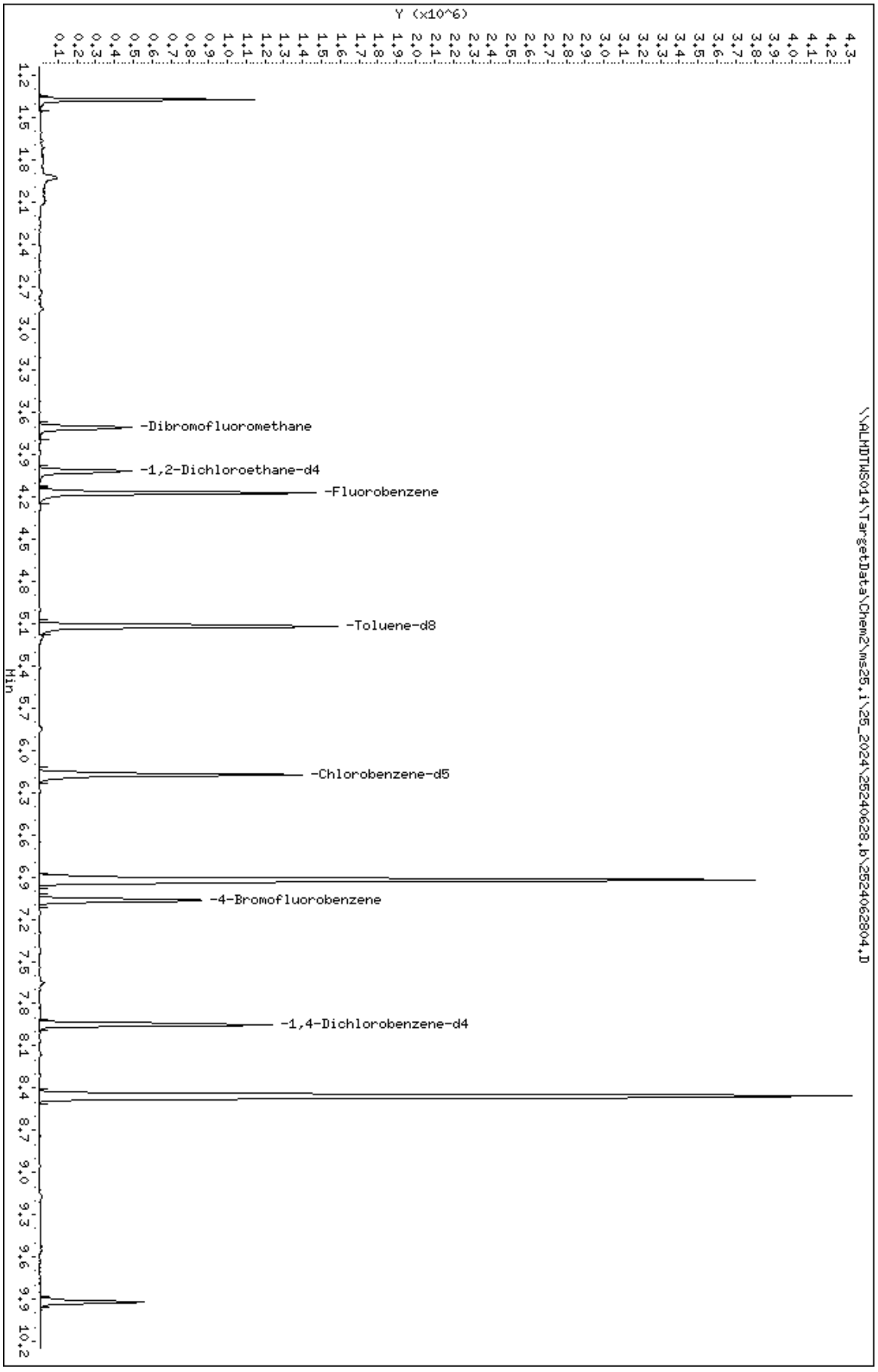
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.706	3.707	(0.889)	234435	27.6114	27.6114	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	274259	30.6424	30.6424	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.170	4.171	(1.000)	1076068	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	926112	30.3157	30.3157	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						

Data File: 2524062804.D Page 3
Report Date: 29-Jun-2024 09:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	385851	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	228407	26.8243	26.8243	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	307789	30.0000		(Q)
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.



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Date : 28-JUN-2024 11:24
Client ID: MB for HBN 1236144
Sample Info: 3845975;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX

Instrument: ms25.i
Operator: THP
Column diameter: 0.25

Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062804.D
Inj Date : 28-JUN-2024 11:24
InstruID : ms25.i
LabSampID : 3845975

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/29/2024 09:39
Client ID: MB for HBN 1236144
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406280
Inj Date: 28-JUN-2024 11:24
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetonitrile
Acrolein
Benzyl Chloride
Bromoform
tert.- Butyl Alcohol
n-Butylbenzene
1-Chlorohexane
3-Chloro-1-propene
1,3-Dichlorobenzene
1,2-Dichloroethane
Ethyl methacrylate
Heptane
Hexachloroethane
Isopropylbenzene
Methacrylonitrile
2-Nitropropane
1,1,1,2-Tetrachloroethane
1,2,3-Trichloropropane
1,3,5-Trimethylbenzene

Data File: 2524062822.D Page 1
Report Date: 30-Jun-2024 15:14

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062822.D
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Inj Date : 28-JUN-2024 17:11
Operator : TMP Inst ID: ms25.i
Smp Info : 3366036001;;1;;;;;5
Misc Info : ZZ VOMS 73650 D8260DW
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25-8260b09D.m
Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 22
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1	Dichlorodifluoromethane	85	Compound Not Detected.						
2	Chloromethane	50	Compound Not Detected.						
3	Vinyl Chloride	62	1.704	1.704	(0.409)	6759	0.57287	2.86437(a)	
4	Bromomethane	94	Compound Not Detected.						
5	Chloroethane	64	Compound Not Detected.						
6	Pentane	41	Compound Not Detected.						
7	Trichlorofluoromethane	101	Compound Not Detected.						
8	Dichlorofluoromethane	67	Compound Not Detected.						
9	Ethyl Ether	74	Compound Not Detected.						
10	1,1-Dichloroethene	61	Compound Not Detected.						
12	Carbon Disulfide	76	Compound Not Detected.						
11	Freon 113	101	2.424	2.424	(0.581)	5929043	928.993	4644.97(A)	
13	Iodomethane	127	Compound Not Detected.						
14	Acrolein	56	Compound Not Detected.						
16	3-Chloro-1-propene	41	Compound Not Detected.						
15	Isopropyl Alcohol	45	Compound Not Detected.						
17	Methylene Chloride	84	Compound Not Detected.						
18	Acetone	58	Compound Not Detected.						
19	Methyl acetate	74	Compound Not Detected.						
20	trans-1,2-Dichloroethene	61	Compound Not Detected.						
21	Hexane	57	Compound Not Detected.						

Data File: 2524062822.D Page 2
Report Date: 30-Jun-2024 15:14

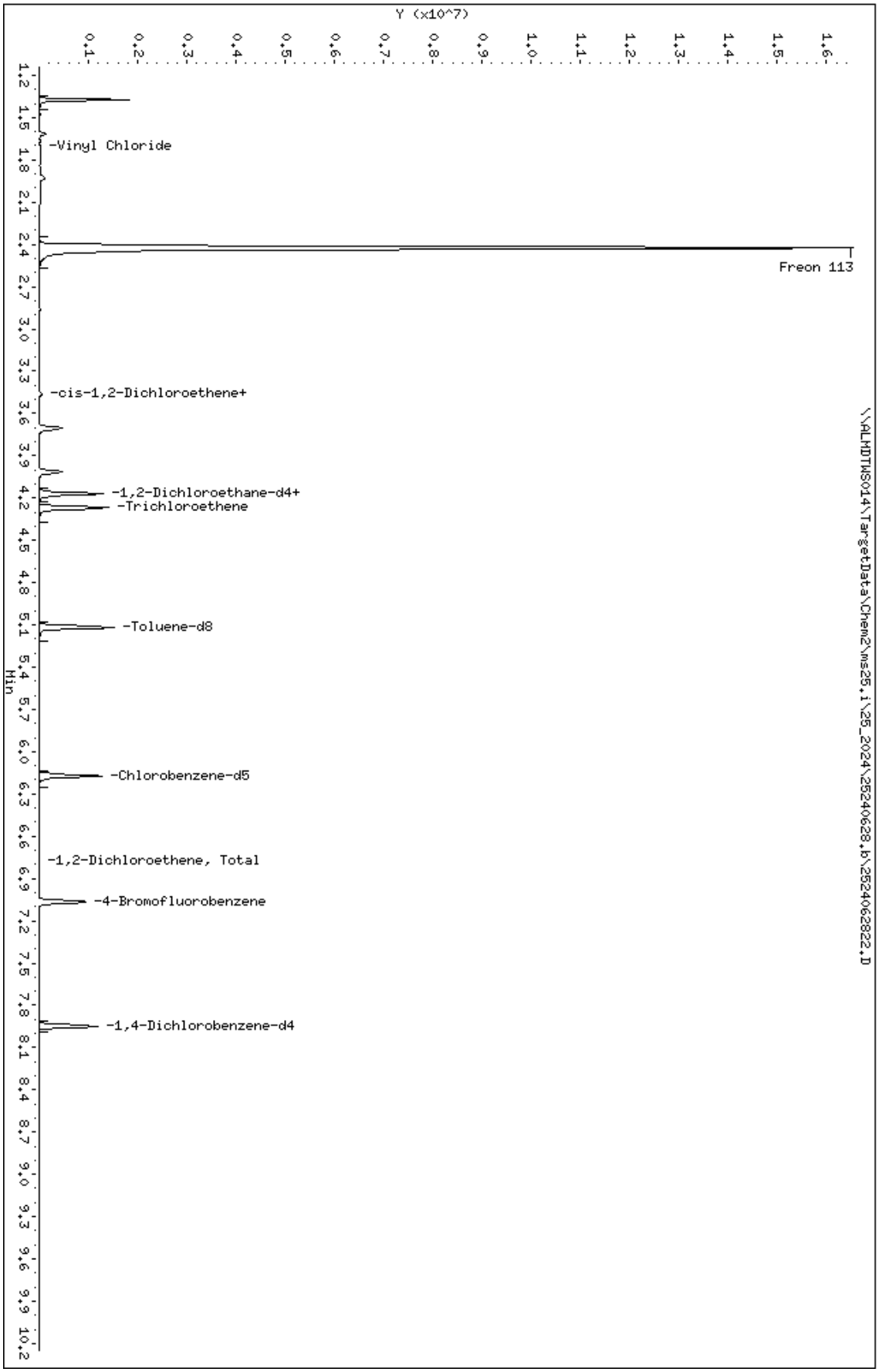
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	24514	2.72036	13.6018	
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61				24514	2.72036	13.6018	
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	3.598	3.598	(0.863)	5076	0.38834	1.94171(a)	
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.707	3.707	(0.889)	221261	29.7298	148.649	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	256840	32.7376	163.688	
	54 Isobutyl alcohol	42	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	4.171	4.171	(1.000)	943232	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	4.269	4.269	(1.024)	380824	50.8704	254.352	
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	5.120	5.120	(0.829)	874974	31.8307	159.153	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	75	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	74 Tetrachloroethene	164	Compound Not Detected.						

Data File: 2524062822.D Page 3
Report Date: 30-Jun-2024 15:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	347195	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	236843	29.2437	146.218	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	292753	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

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.


Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
Min
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4
5.7
6.0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9.0
9.3
9.6
9.9
10.2
-Vinyl Chloride
Freon 113
-cis-1,2-Dichloroethene+
-1,2-Dichloroethane-d4+
-Trichloroethene
-Toluene-d8
-Chlorobenzene-d5
-1,2-Dichloroethene, Total
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
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Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: THP
Column diameter: 0.25
Page 1

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062822.D Page 2

Date : 28-JUN-2024 17:11

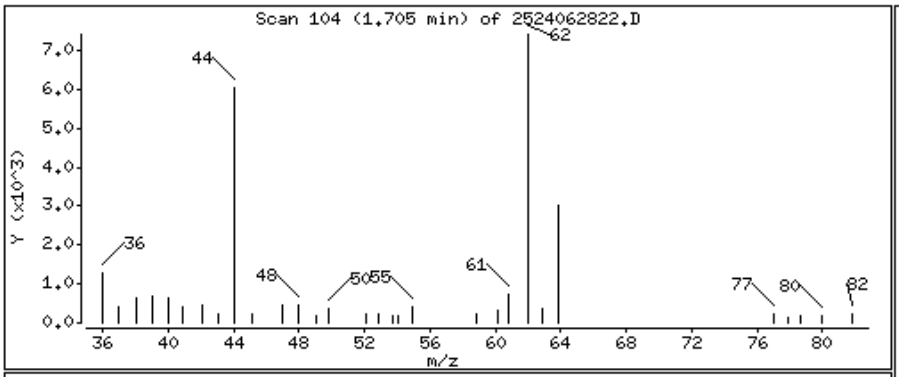
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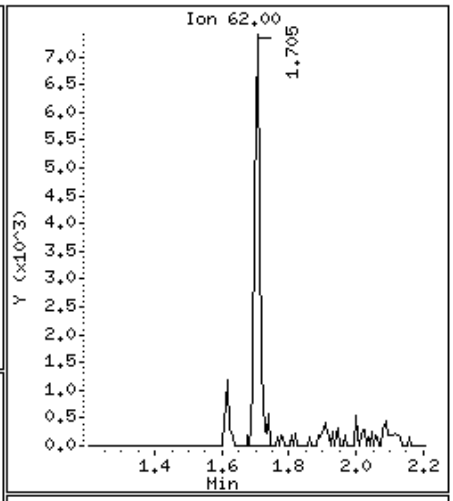
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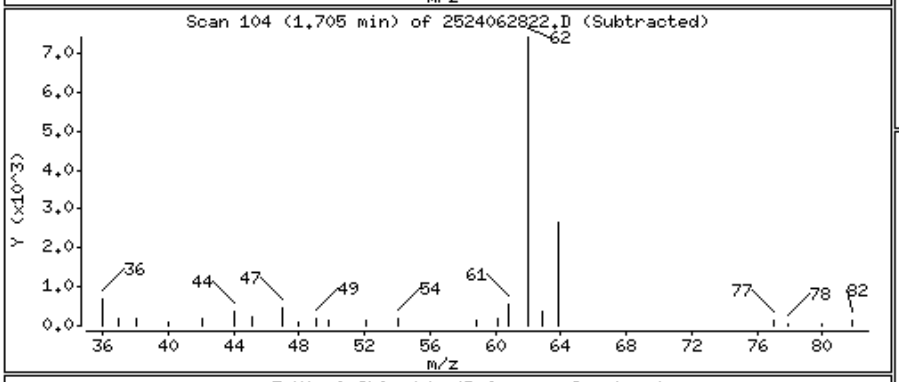
Purge Volume: 5.0 Operator: TMP

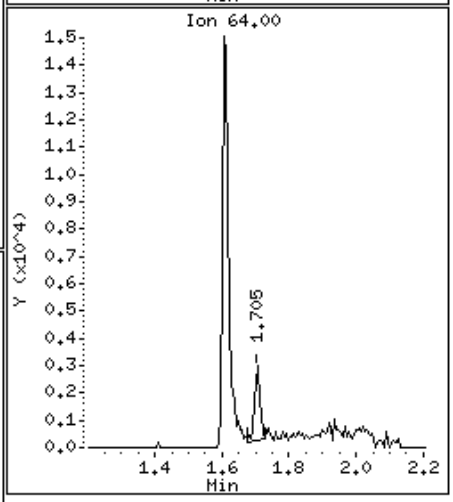
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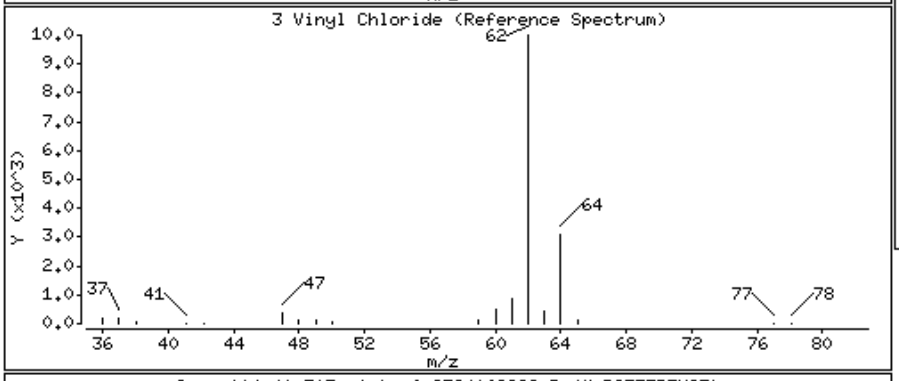
3 Vinyl Chloride Concentration: 2.86437 ug/L

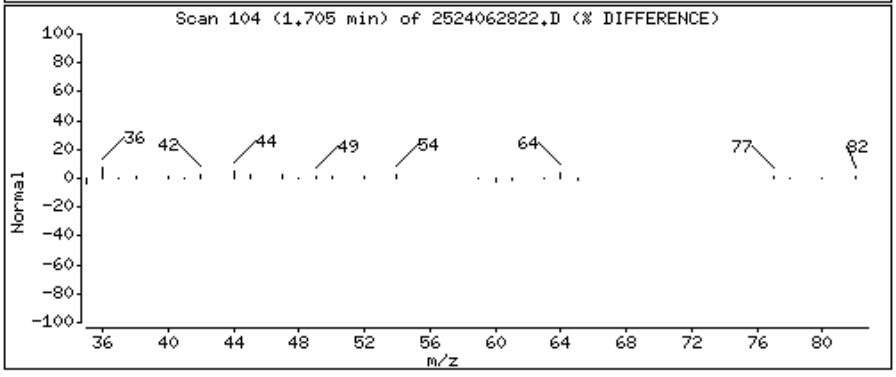












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Date : 28-JUN-2024 17:11

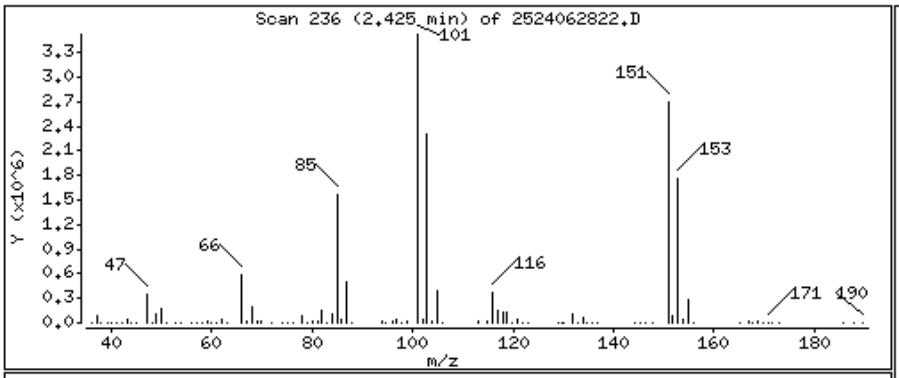
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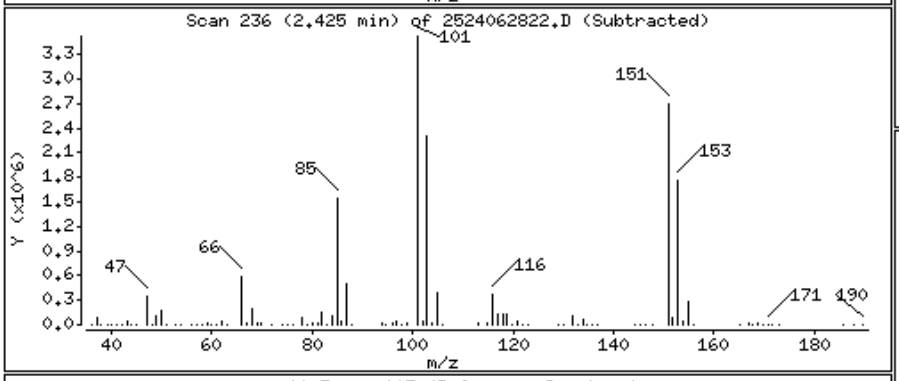
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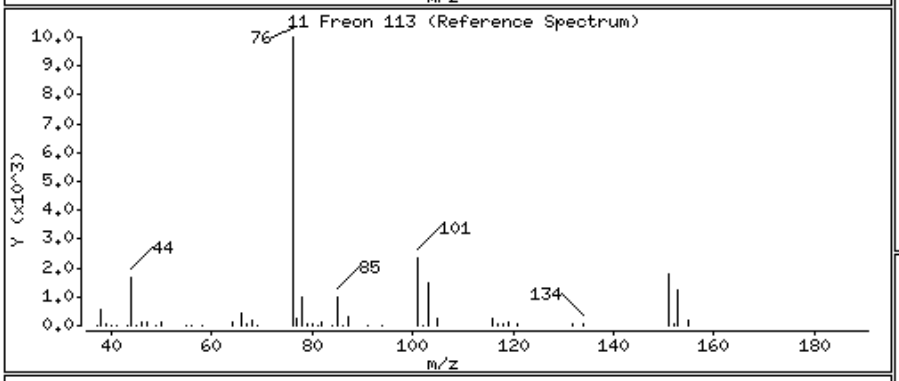
Purge Volume: 5.0 Operator: TMP

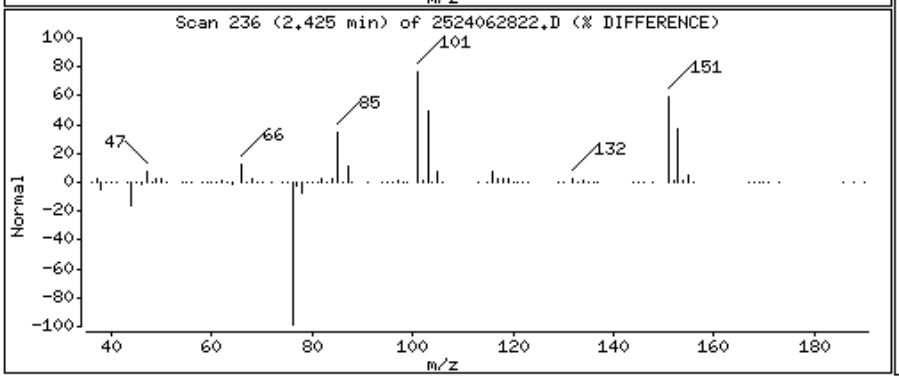
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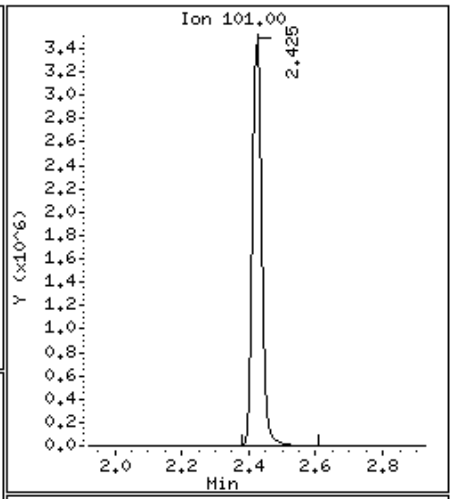
11 Freon 113 Concentration: 4644.97 ug/L

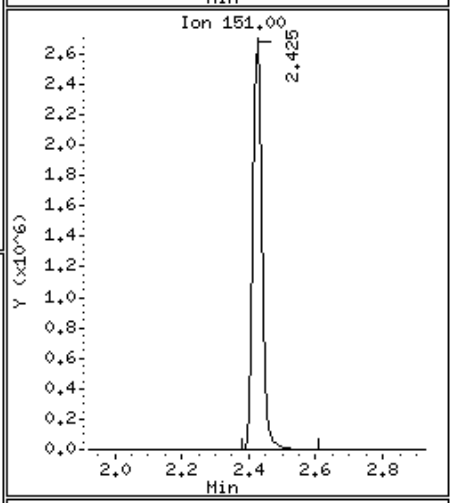


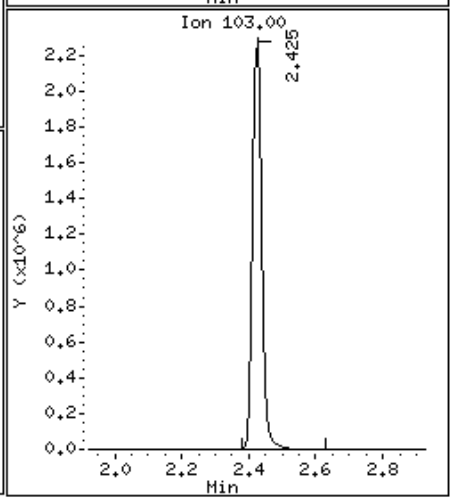












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Date : 28-JUN-2024 17:11

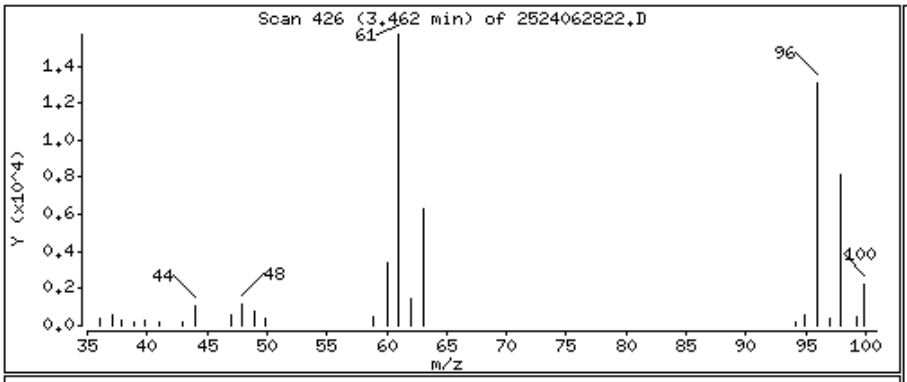
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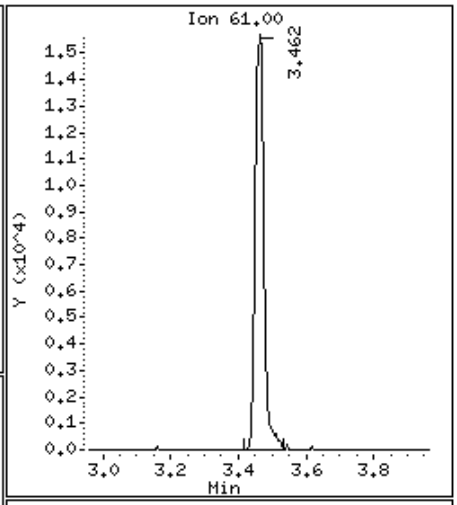
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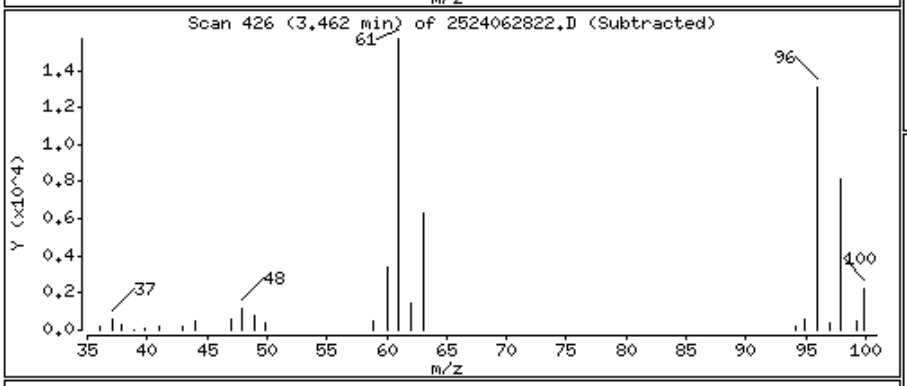
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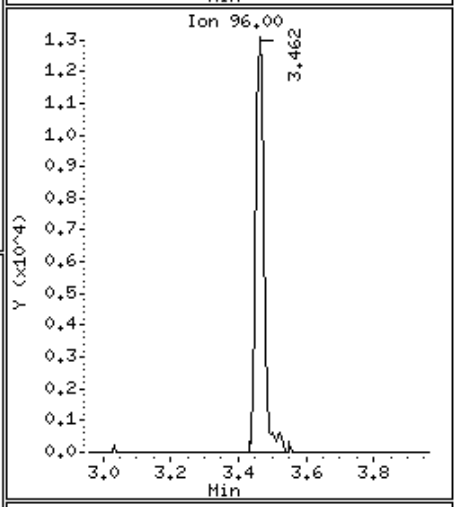
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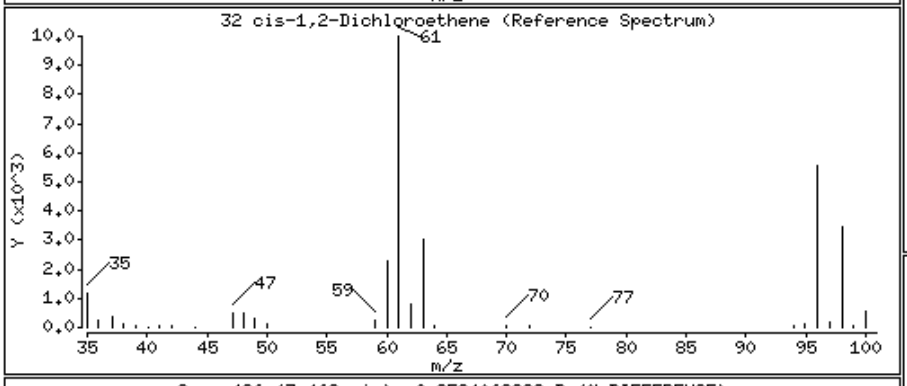
32 cis-1,2-Dichloroethene Concentration: 13.6018 ug/L

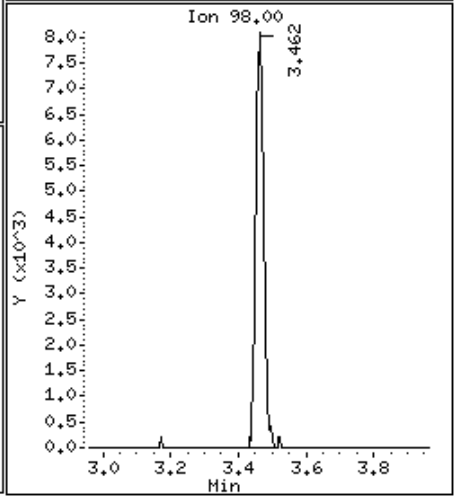


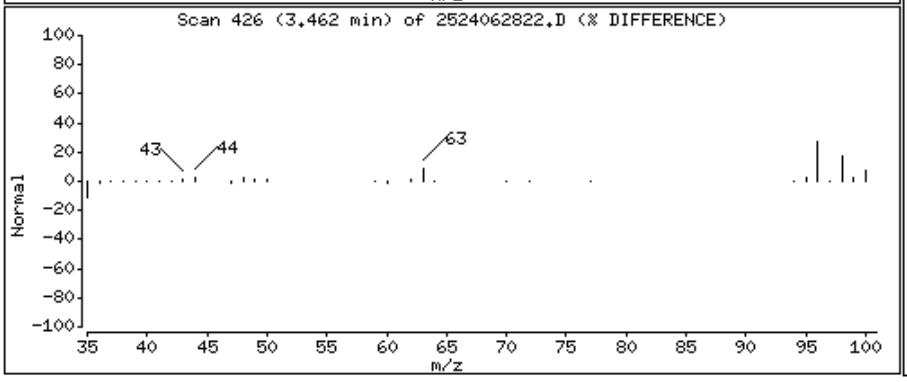












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Date : 28-JUN-2024 17:11

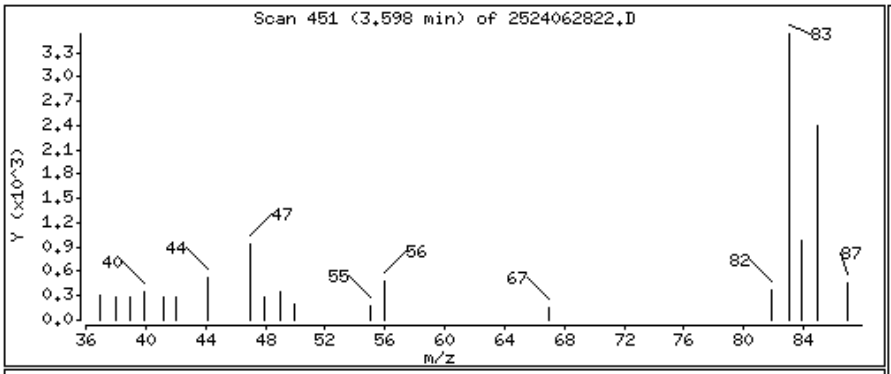
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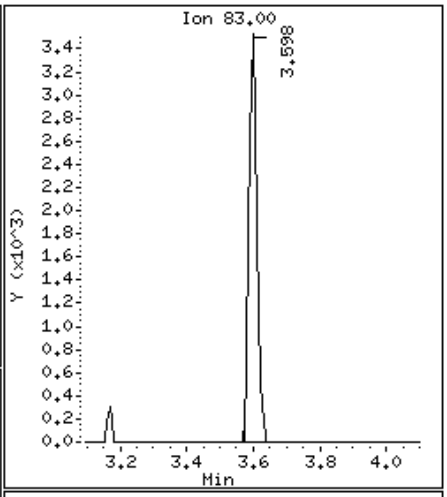
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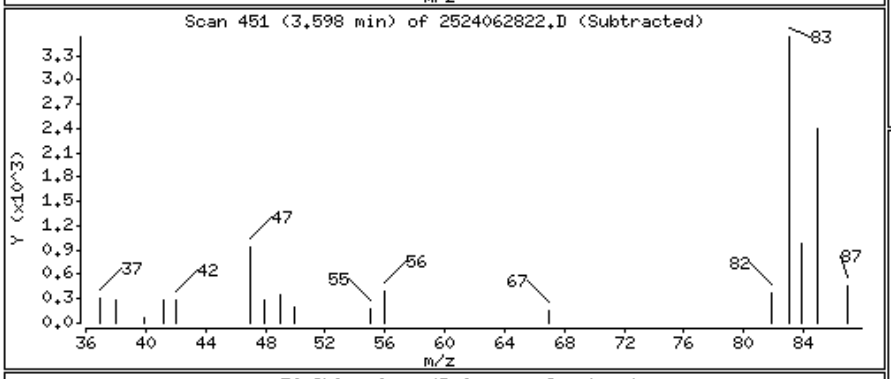
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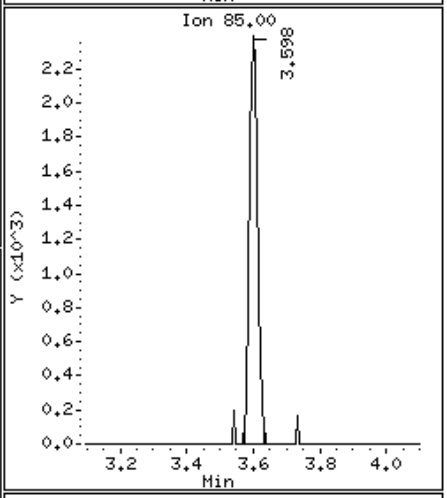
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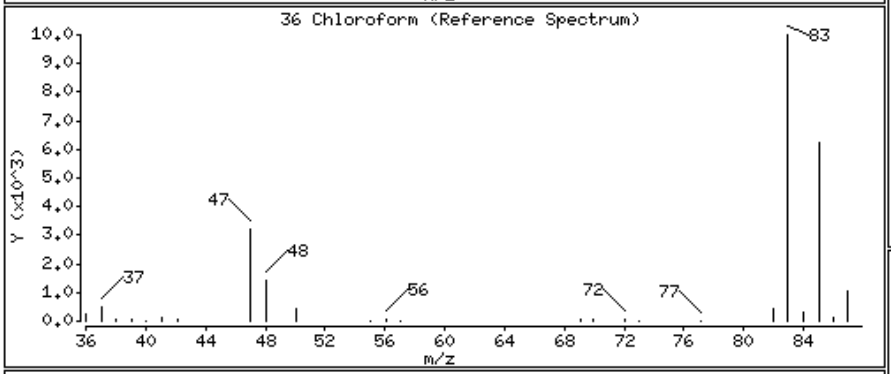
36 Chloroform Concentration: 1.94171 ug/L

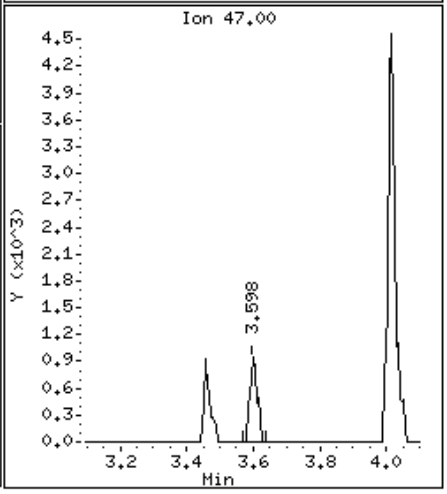


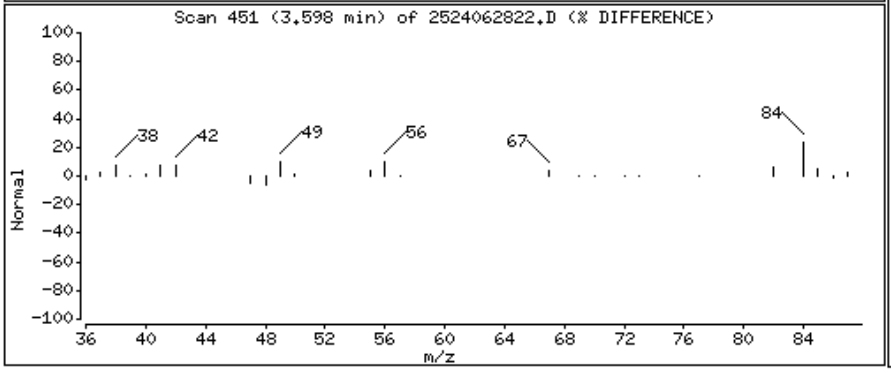












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Date : 28-JUN-2024 17:11

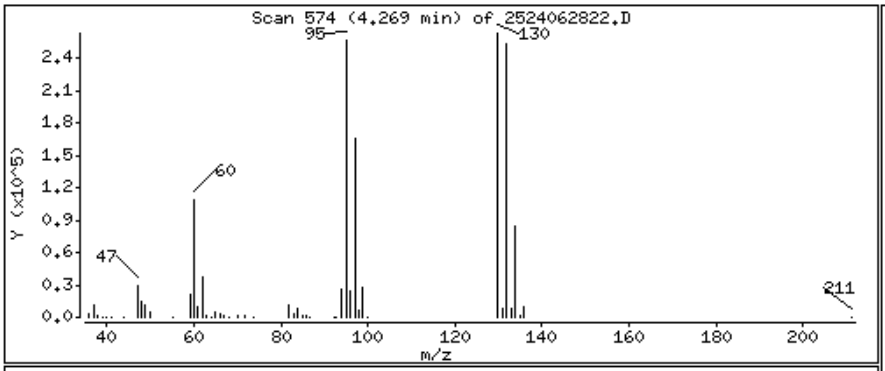
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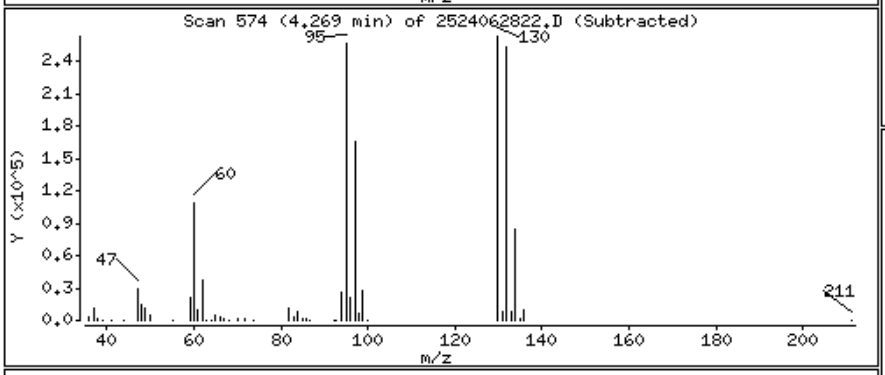
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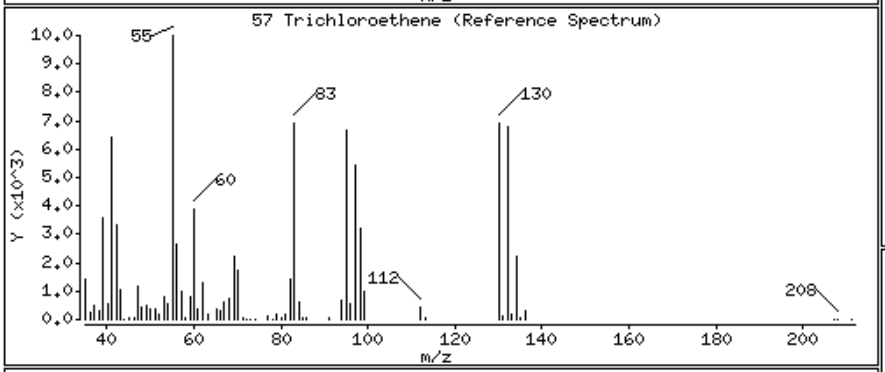
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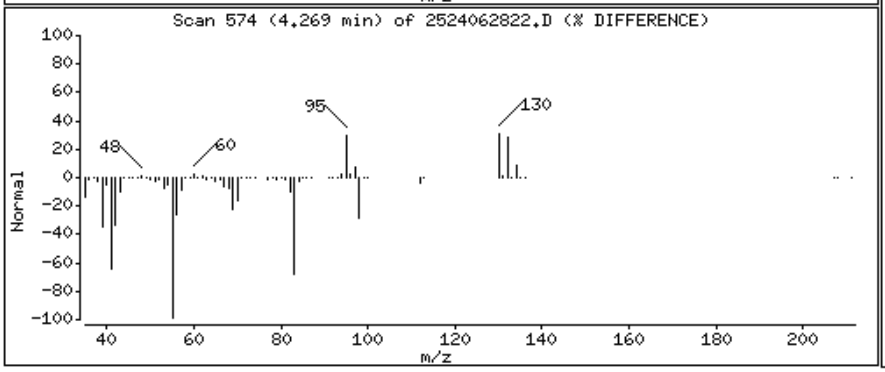
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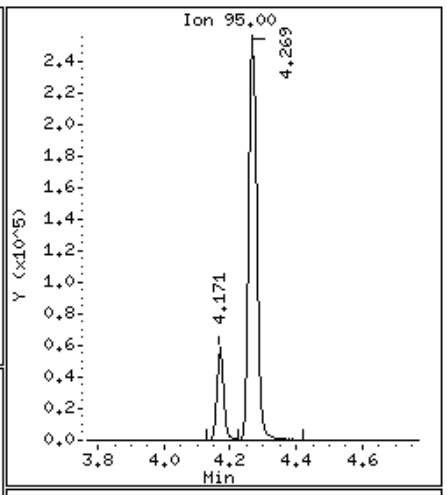
57 Trichloroethene Concentration: 254.352 ug/L

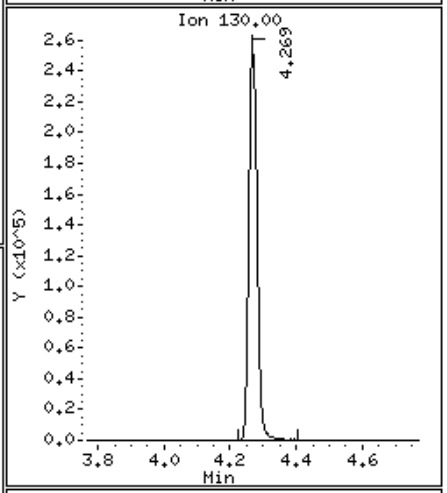


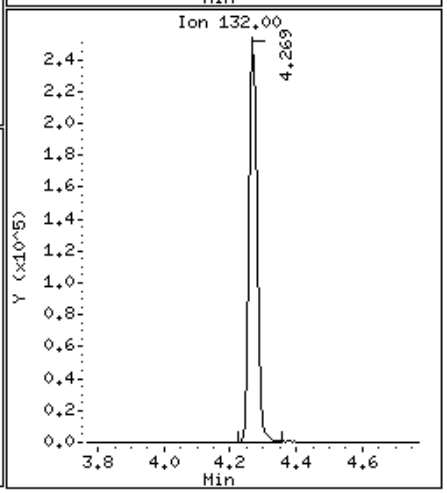












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Inj Date : 28-JUN-2024 17:11
InstruID : ms25.i
LabSampID : 3366036001

NO MANUAL INTEGRATIONS

UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:14
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DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406282
Inj Date: 28-JUN-2024 17:11
Operator: TMP

Analytes listed below were unassigned due to not meeting one or more of the following qualitative criteria (retention time, mass spectral match, extracted ion ratios)
Rationale other than qualitative criteria are noted on the quantitation report.:

Acetone
Acrolein
3-Chloro-1-propene
1,1-Dichloroethene
Dichlorofluoromethane
Ethyl methacrylate
2-Hexanone
Methyl acetate
2-Nitropropane
Acetonitrile
Bromodichloromethane
1,2-Dichloroethane
trans-1,2-Dichloroethene
Ethyl Ether
Heptane
Methacrylonitrile
Methylene Chloride
Trichlorofluoromethane

Data File: 2524062829.D Page 1
Report Date: 30-Jun-2024 15:02

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062829.D
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Inj Date : 28-JUN-2024 19:34
Operator : TMP Inst ID: ms25.i
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Misc Info :
Comment :
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Meth Date : 28-Jun-2024 10:37 ily Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 28 QC Sample: ENDCCV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	476524	45.7071	45.7071	
2	Chloromethane	50	1.644	1.644	(0.394)	456530	50.1424	50.1424	
3	Vinyl Chloride	62	1.704	1.704	(0.409)	557838	47.3313	47.3313	
4	Bromomethane	94	1.922	1.922	(0.461)	324391	57.5689	57.5689	
5	Chloroethane	64	2.004	2.004	(0.481)	378630	47.5455	47.5455	
6	Pentane	41	2.092	2.092	(0.502)	284874	38.5449	38.5449	
7	Trichlorofluoromethane	101	2.097	2.097	(0.503)	739868	45.8306	45.8306	
8	Dichlorofluoromethane	67	2.124	2.124	(0.509)	740524	49.5748	49.5748	
9	Ethyl Ether	74	2.277	2.277	(0.546)	227654	50.1174	50.1174	
10	1,1-Dichloroethene	61	2.414	2.414	(0.579)	433428	47.8173	47.8173	
12	Carbon Disulfide	76	2.446	2.446	(0.587)	921041	47.1041	47.1041	
11	Freon 113	101	2.424	2.424	(0.581)	289522	45.4123	45.4123	
13	Iodomethane	127	2.512	2.506	(0.602)	159468	45.4279	45.4279	
14	Acrolein	56	2.599	2.599	(0.623)	336100	229.881	229.881	
16	3-Chloro-1-propene	41	2.681	2.681	(0.643)	369383	46.7782	46.7782	
15	Isopropyl Alcohol	45	2.654	2.654	(0.636)	118651	248.249	248.249	
17	Methylene Chloride	84	2.741	2.741	(0.657)	362333	48.9370	48.9370	
18	Acetone	58	2.752	2.752	(0.660)	193216	235.539	235.539	
19	Methyl acetate	74	2.812	2.817	(0.674)	78558	46.5922	46.5922	
20	trans-1,2-Dichloroethene	61	2.828	2.828	(0.678)	438926	49.4406	49.4406	
21	Hexane	57	2.866	2.866	(0.687)	628444	42.5120	42.5120	

Data File: 2524062829.D
Report Date: 30-Jun-2024 15:02

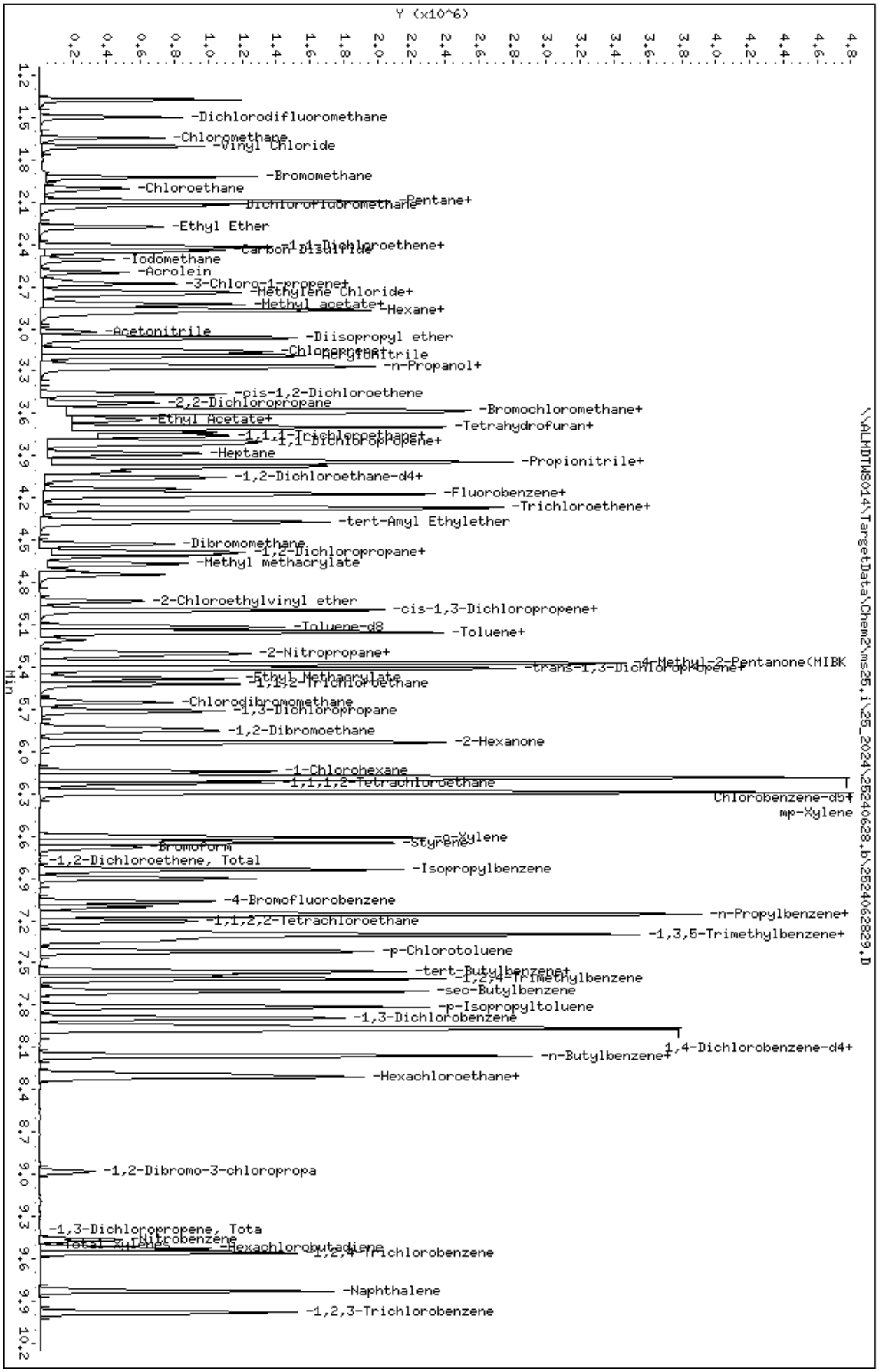
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.872	2.872	(0.689)	1071642	47.0650	47.0650	
23 tert.- Butyl Alcohol	59	2.894	2.894	(0.694)	206316	251.940	251.940	
24 Acetonitrile	41	3.019	3.019	(0.724)	249065	271.520	271.520	
25 Diisopropyl ether	45	3.063	3.063	(0.734)	1049010	53.2408	53.2408	
26 Chloroprene	53	3.156	3.156	(0.757)	526396	52.6964	52.6964	
27 1,1-Dichloroethane	63	3.167	3.167	(0.759)	629854	52.0754	52.0754	
28 Acrylonitrile	53	3.188	3.188	(0.765)	839842	266.618	266.618	
30 n-Propanol	41	3.265	3.265	(0.783)	196020	504.987	504.987	
29 Ethyl tert-butyl ether	59	3.265	3.265	(0.783)	1118143	53.4320	53.4320	
31 Vinyl acetate	86	3.276	3.276	(0.785)	89926	43.6073	43.6073(Q)	
32 cis-1,2-Dichloroethene	61	3.461	3.461	(0.830)	461210	51.2360	51.2360	
33 2,2-Dichloropropane	77	3.527	3.527	(0.846)	381332	39.5579	39.5579	
M 100 1,2-Dichloroethene, Total	61				900136	100.677	100.677	
34 Bromochloromethane	128	3.576	3.576	(0.857)	200996	51.7777	51.7777	
35 Cyclohexane	84	3.587	3.592	(0.860)	508413	47.0711	47.0711	
36 Chloroform	83	3.598	3.598	(0.863)	670981	51.3886	51.3886	
37 Ethyl acetate	43	3.636	3.636	(0.872)	375369	47.9422	47.9422	
38 Methyl acrylate	55	3.652	3.652	(0.876)	377885	52.1320	52.1320	
39 Carbon Tetrachloride	117	3.701	3.701	(0.887)	425710	44.3751	44.3751(M)	MP
40 Tetrahydrofuran	42	3.696	3.696	(0.886)	578215	260.929	260.929	
$ 41 Dibromofluoromethane	113	3.707	3.707	(0.889)	209520	28.1823	28.1823	
42 1,1,1-Trichloroethane	97	3.734	3.734	(0.895)	516738	50.8452	50.8452	
43 2-Butanone	72	3.761	3.761	(0.902)	265334	247.684	247.684(M)	MP
44 1,1-Dichloropropene	75	3.799	3.799	(0.911)	469934	48.8839	48.8839	
45 1-Chlorobutane	41	3.821	3.821	(0.916)	301187	48.7194	48.7194	
46 Heptane	71	3.887	3.887	(0.932)	215873	38.6515	38.6515	
48 Propionitrile	54	3.941	3.941	(0.945)	329429	276.176	276.176	
47 Benzene	78	3.941	3.941	(0.945)	1446292	48.9476	48.9476	
49 Methacrylonitrile	67	3.952	3.952	(0.948)	188826	52.8076	52.8076	
50 tert-amyl methyl Ether	73	3.974	3.974	(0.953)	1074915	53.2128	53.2128	
$ 51 1,2-Dichloroethane-d4	65	4.012	4.012	(0.962)	260324	33.2171	33.2171	
54 Isobutyl alcohol	42	3.990	3.985	(0.957)	121962	669.056	669.056(Q)	
52 1,2-Dichloroethane	62	4.050	4.056	(0.971)	463933	49.9465	49.9465	
53 tert-Amyl Alcohol	59	4.056	4.056	(0.973)	153589	244.452	244.452	
* 55 Fluorobenzene	96	4.171	4.171	(1.000)	942225	30.0000		
56 Diisobutylene	57	4.176	4.176	(1.001)	821093	44.8583	44.8583	
57 Trichloroethene	95	4.269	4.269	(1.024)	355017	47.4738	47.4738	
58 Methyl cyclohexane	83	4.274	4.274	(0.692)	550069	44.3755	44.3755	
59 tert-Amyl Ethylether	59	4.367	4.367	(1.047)	836182	47.5019	47.5019	
60 Dibromomethane	93	4.525	4.525	(1.085)	244768	51.7755	51.7755	
61 1,2-Dichloropropane	63	4.585	4.585	(1.099)	372299	52.3518	52.3518	
62 Bromodichloromethane	83	4.607	4.607	(1.105)	450237	45.5497	45.5497	
63 Methyl methacrylate	41	4.667	4.667	(1.119)	302498	53.7466	53.7466	
65 2-Chloroethylvinyl ether	63	4.934	4.934	(1.183)	238328	45.8236	45.8236	
66 cis-1,3-Dichloropropene	75	4.994	4.994	(0.809)	567120	43.9005	43.9005	
67 Octane	85	5.000	5.000	(0.810)	180194	38.3388	38.3388	
$ 68 Toluene-d8	98	5.114	5.120	(0.829)	835520	27.6150	27.6150	
69 Toluene	92	5.153	5.153	(0.835)	858364	44.7604	44.7604	
70 Chloroacetonitrile	75	5.207	5.213	(0.844)	118069	246.977	246.977	
71 2-Nitropropane	41	5.300	5.300	(0.859)	472406	224.832	224.832	
72 1,1-Dichloro-2-propanone	63	5.316	5.316	(0.861)	44432	218.793	218.793(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	5.371	5.371	(0.870)	1896985	250.489	250.489	
75 trans-1,3-Dichloropropene	75	5.409	5.409	(0.876)	520501	43.5154	43.5154	
74 Tetrachloroethene	164	5.409	5.409	(0.876)	331283	47.4416	47.4416	

Data File: 2524062829.D
Report Date: 30-Jun-2024 15:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	76 Ethyl methacrylate	69	5.480	5.480	(0.888)	537352	46.5111	46.5111	
	77 1,1,2-Trichloroethane	83	5.518	5.524	(0.894)	288637	48.9880	48.9880	
	78 Chlorodibromomethane	129	5.649	5.649	(0.915)	362794	43.4851	43.4851	
	79 1,3-Dichloropropane	76	5.715	5.715	(0.926)	587376	50.4563	50.4563	
	80 1,2-Dibromoethane	107	5.829	5.829	(0.944)	356010	45.4159	45.4159	
	81 2-Hexanone	43	5.933	5.933	(0.961)	1274042	245.242	245.242	
	82 1-Chlorohexane	91	6.146	6.146	(0.996)	469930	46.5805	46.5805	
*	83 Chlorobenzene-d5	82	6.173	6.173	(1.000)	382152	30.0000		
	85 Ethylbenzene	106	6.189	6.189	(1.003)	497347	43.5094	43.5094	
	84 Chlorobenzene	112	6.184	6.184	(1.002)	928765	47.5253	47.5253	
	86 1,1,1,2-Tetrachloroethane	131	6.222	6.222	(1.008)	325454	44.1445	44.1445	
	87 mp-Xylene	106	6.288	6.288	(1.019)	1182450	87.0549	87.0549	
M	120 1,3-Dichloropropene, Total	75				1087621	87.4159	87.4159	
	88 o-Xylene	106	6.610	6.610	(1.071)	577425	44.4001	44.4001	
	89 Styrene	104	6.648	6.648	(0.836)	932750	48.8613	48.8613	
	90 Bromoform	173	6.680	6.680	(0.840)	239570	44.4634	44.4634	
	91 Isopropylbenzene	105	6.839	6.839	(0.860)	1301392	48.9014	48.9014	
$	92 4-Bromofluorobenzene	174	7.068	7.068	(0.889)	262926	29.4423	29.4423	
M	121 TOTAL XYLENES	106				1759875	131.455	131.455	
	94 n-Propylbenzene	120	7.155	7.155	(0.900)	396133	50.7584	50.7584	
	93 Bromobenzene	156	7.155	7.155	(0.900)	389157	50.9900	50.9900	
	95 1,1,2,2-Tetrachloroethane	83	7.204	7.204	(0.906)	417109	54.9865	54.9865	
	97 1,3,5-Trimethylbenzene	105	7.303	7.303	(0.918)	1118950	51.5170	51.5170	
	96 o-Chlorotoluene	91	7.292	7.292	(0.917)	1080859	52.6401	52.6401	
	98 1,2,3-Trichloropropane	110	7.324	7.324	(0.921)	129851	53.0742	53.0742	
	99 trans-1,4-Dichloro-2-butene	53	7.346	7.346	(0.924)	110229	47.3695	47.3695	
	101 p-Chlorotoluene	91	7.417	7.417	(0.933)	978055	52.5878	52.5878	
	102 tert-Butylbenzene	134	7.559	7.559	(0.951)	274430	52.8285	52.8285	
	103 Pentachloroethane	117	7.586	7.586	(0.954)	225745	43.3149	43.3149(QM)	MP
	104 1,2,4-Trimethylbenzene	105	7.614	7.614	(0.957)	1122954	48.8222	48.8222	
	105 sec-Butylbenzene	105	7.701	7.701	(0.968)	1424919	53.0807	53.0807	
	106 p-Isopropyltoluene	134	7.810	7.815	(0.982)	318897	51.8753	51.8753	
	107 1,3-Dichlorobenzene	146	7.892	7.892	(0.992)	659391	51.2832	51.2832	
*	108 1,4-Dichlorobenzene-d4	152	7.952	7.952	(1.000)	322801	30.0000		
	109 1,4-Dichlorobenzene	146	7.963	7.963	(1.001)	682826	50.9482	50.9482	
	111 n-Butylbenzene	134	8.159	8.159	(1.026)	281265	48.9601	48.9601(Q)	
	110 Benzyl Chloride	126	8.159	8.159	(1.026)	97200	30.4434	30.4434(Q)	
	112 Hexachloroethane	117	8.290	8.290	(1.043)	209993	45.6209	45.6209	
	113 1,2-Dichlorobenzene	146	8.312	8.312	(1.045)	641643	52.3882	52.3882	
	114 1,2-Dibromo-3-chloropropane	75	8.978	8.983	(1.129)	67946	46.8626	46.8626	
	115 Nitrobenzene	77	9.463	9.463	(1.190)	212100	451.116	451.116	
	116 Hexachlorobutadiene	225	9.529	9.529	(1.198)	173297	42.8044	42.8044	
	117 1,2,4-Trichlorobenzene	180	9.556	9.556	(1.202)	406711	50.1434	50.1434	
	118 Naphthalene	128	9.829	9.829	(1.236)	1109774	46.5708	46.5708	
	119 1,2,3-Trichlorobenzene	180	9.982	9.982	(1.255)	406481	44.6345	44.6345	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

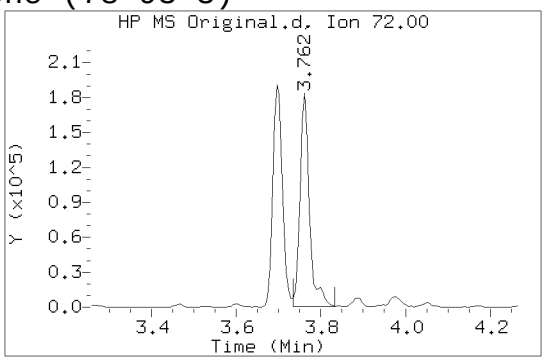

Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-Carbon Disulfide
-Iodomethane
-Acrolein
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile
-Diisopropyl ether
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Tetrahydrofuran+
-Heptane
-Propionitrile+
-1,2-Dichloroethane-d4+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Bromoform
-Styrene
-1,2-Dichloroethene, Total
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,1,2,2-Tetrachloroethane
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-1,3-Dichloropropene, Tota
-Total Xylenes
-Nitrobenzene
-Hexachlorobutadiene
-1,2,4-Trichlorobenzene
-Naphthalene
-1,2,3-Trichlorobenzene
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Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\25240628.D
Date : 28-JUN-2024 19:34
Client ID:
Sample Info: 1801;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms25.i
Operator: THP
Column diameter: 0.25
Page 1

Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062829.D
Inj Date : 28-JUN-2024 19:34
InstruID : ms25.i
LabSampID : 1801

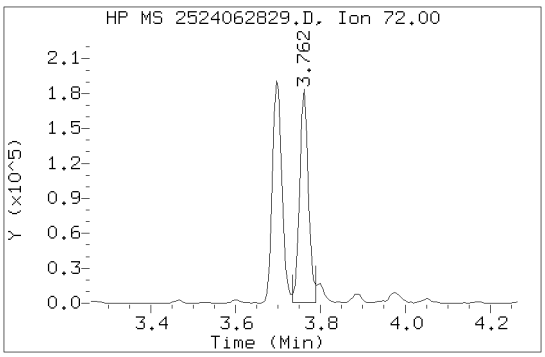
2-Butanone (78-93-3)

Reason Code: MP

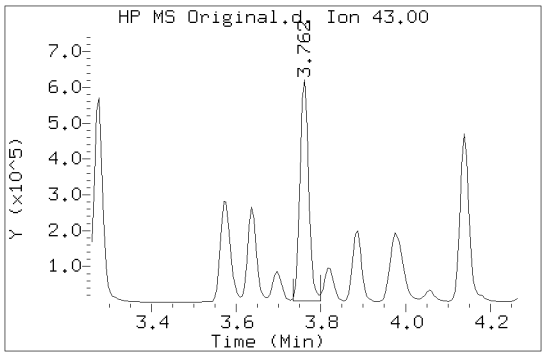
BEFORE
MASS
72
AREA
284046
HEIGHT
183234
29-Jun-2024
10:34



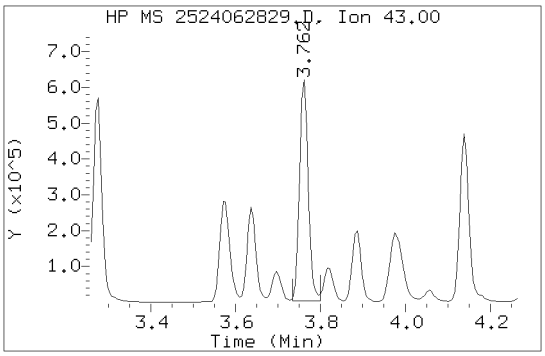
AFTER
MASS
72
AREA
265334
HEIGHT
183235
30-Jun-2024
15:02



BEFORE
MASS
43
AREA
892235
HEIGHT
617590
29-Jun-2024
10:34



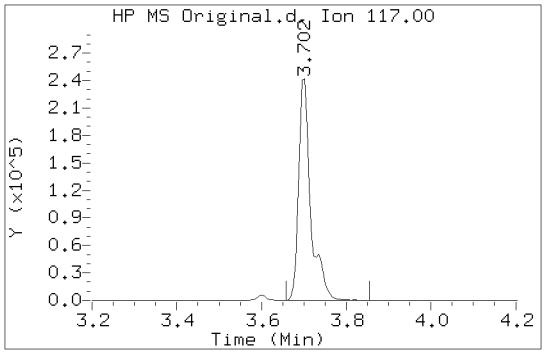
AFTER
MASS
43
AREA
892235
HEIGHT
617590
30-Jun-2024
15:02



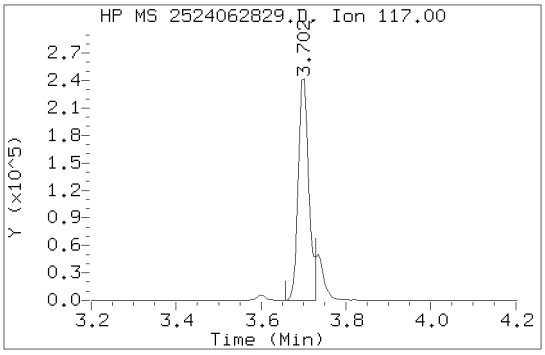
Carbon Tetrachloride (56-23-5)

Reason Code: MP

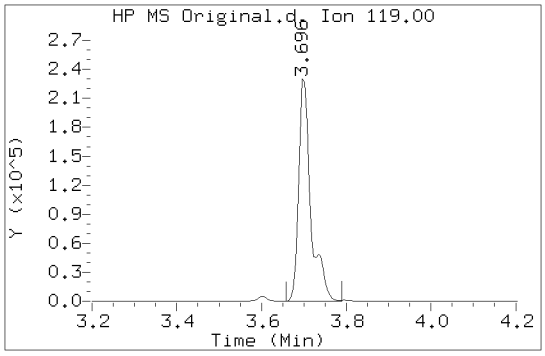
BEFORE
MASS
117
AREA
482579
HEIGHT
241984
29-Jun-2024
10:34



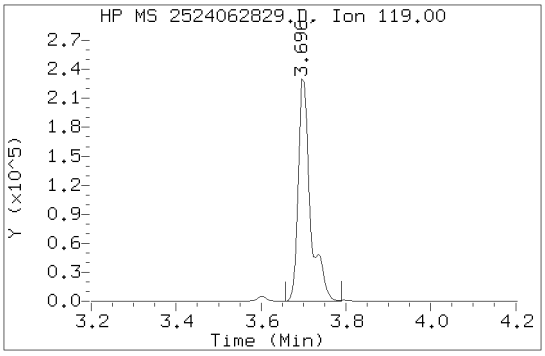
AFTER
MASS
117
AREA
425710
HEIGHT
241984
30-Jun-2024
15:02



BEFORE
MASS
119
AREA
460857
HEIGHT
230080
29-Jun-2024
10:34



AFTER
MASS
119
AREA
460857
HEIGHT
230080
30-Jun-2024
15:02



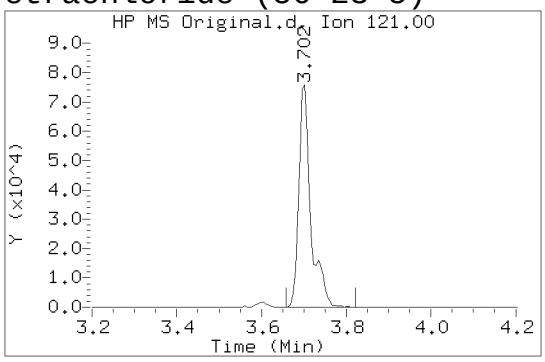
Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240628.b\2524062829.D
Inj Date : 28-JUN-2024 19:34
InstruID : ms25.i
LabSampID : 1801

Carbon Tetrachloride (56-23-5)

Reason Code: MP

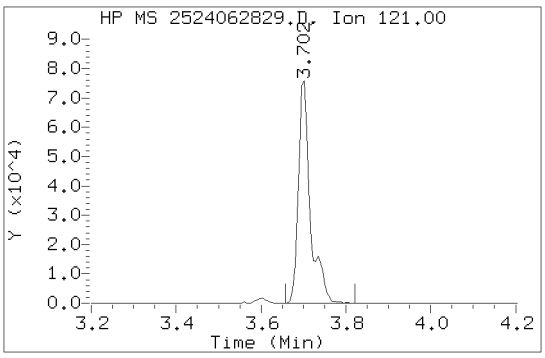
BEFORE

MASS
121
AREA
148990
HEIGHT
75800
29-Jun-2024
10:34



AFTER

MASS
121
AREA
148990
HEIGHT
75800
30-Jun-2024
15:02

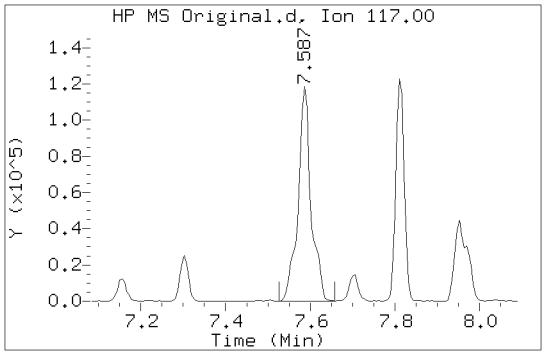


Pentachloroethane (76-01-7)

Reason Code: MP

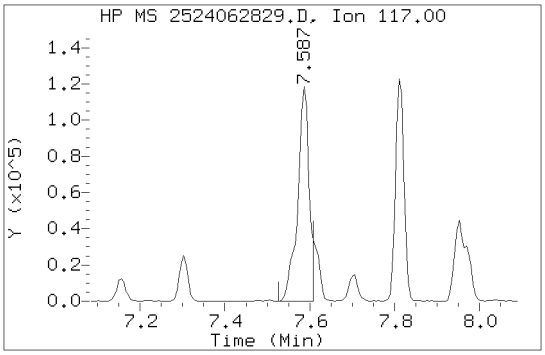
BEFORE

MASS
117
AREA
251467
HEIGHT
118432
29-Jun-2024
10:34



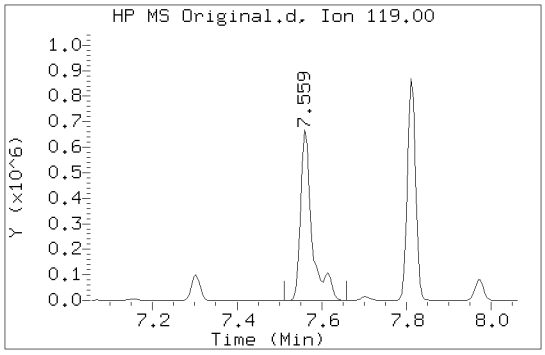
AFTER

MASS
117
AREA
225745
HEIGHT
118432
30-Jun-2024
15:02



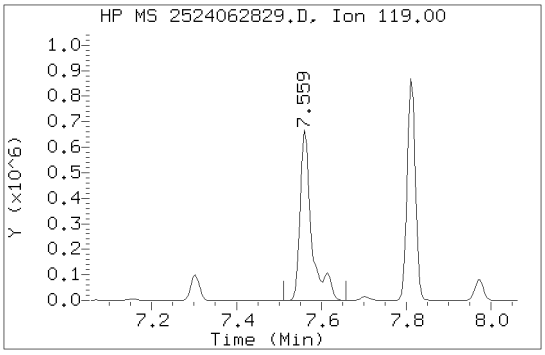
BEFORE

MASS
119
AREA
1269326
HEIGHT
668288
29-Jun-2024
10:34



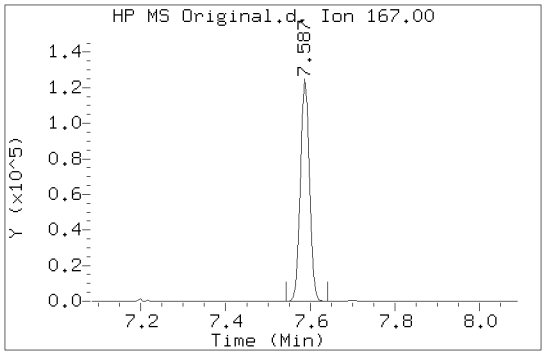
AFTER

MASS
119
AREA
1269326
HEIGHT
668288
30-Jun-2024
15:02



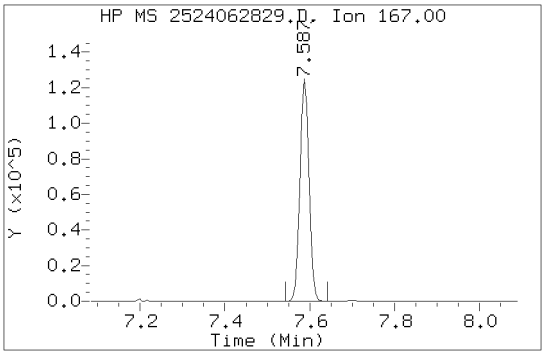
BEFORE

MASS
167
AREA
185815
HEIGHT
124920
29-Jun-2024
10:34



AFTER

MASS
167
AREA
185815
HEIGHT
124920
30-Jun-2024
15:02



UNASSIGNED PEAK REPORT

Report Date: 06/30/2024 15:02
Client ID:
DataFile: //ALMDTWS014/TargetData/Chem2/ms25.i/25_2024/25240628.b/252406282
Inj Date: 28-JUN-2024 19:34
Operator: TMP

There were no Unassigned peaks in this sample!

HS24061218 E2400715 Perch Level IV Report REV01

ALS WO# HS24061218

June 26, 2024 Service Request No:E2400715

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS24061218

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2024
For your reference, these analyses have been assigned our service request number **E2400715.**

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400715
Project:	HS24061218	**Date Received:**	06/19/24
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 06/19/24.

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

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400343: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

Samples E2400715-002, 005, and 007 ran at DF-10 due to matrix interference suppressing the internal standard in the undiluted run.

This report has been revised on 06/27/2024 as the case narrative from the lab had been missed.

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:**E2400715
Project: HS24061218

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400715-001	1824DOTTMW02_061724	6/17/2024	0720
E2400715-002	18WW18_061724	6/17/2024	0805
E2400715-003	CO3_061724	6/17/2024	0805
E2400715-004	1824DOTTMW01_061724	6/17/2024	0950
E2400715-005	18CPTMW18_061724	6/17/2024	1035
E2400715-006	1824DOTTMW03_061724	6/17/2024	1120
E2400715-007	MW19_061724	6/17/2024	1205
E2400715-008	MW18_061724	6/17/2024	1245

Service Request Summary

Folder #: **E2400715**
Client Name: ALS Environmental - US
Project Name: HS24061218
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400715-001	1824DOTTMW02_061724	Water	06/17/24 0720	**IV**
E2400715-002	18WW18_061724	Water	06/17/24 0805	**IV**
E2400715-003	CO3_061724	Water	06/17/24 0805	**IV**
E2400715-004	1824DOTTMW01_061724	Water	06/17/24 0950	**IV**
E2400715-005	18CPTMW18_061724	Water	06/17/24 1035	**IV**
E2400715-006	1824DOTTMW03_061724	Water	06/17/24 1120	**IV**
E2400715-007	MW19_061724	Water	06/17/24 1205	**IV**
E2400715-008	MW18_061724	Water	06/17/24 1245	**IV**

Service Request Summary

Folder #: **E2400715**
Client Name: ALS Environmental - US
Project Name: HS24061218
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Data Qualifiers

Lab Standard

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

Data Qualifiers

Lab Standard

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

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Acronyms

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

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State Certifications, Accreditations, and Licenses

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

Chain of Custody

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ALS Laboratory Group
HS24061218

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26091**

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:	
Email:	

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24061218
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24061218-01**	**1824DOTTMW02_061724**	**Water**	**17 Jun 2024 07:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
2.	**HS24061218-02**	**18WW18_061724**	**Water**	**17 Jun 2024 08:05**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
3.	**HS24061218-03**	**CO3_061724**	**Water**	**17 Jun 2024 08:05**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
4.	**HS24061218-04**	**1824DOTTMW01_061724**	**Water**	**17 Jun 2024 09:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
5.	**HS24061218-05**	**18CPTMW18_061724**	**Water**	**17 Jun 2024 10:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
6.	**HS24061218-06**	**1824DOTTMW03_061724**	**Water**	**17 Jun 2024 11:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
7.	**HS24061218-07**	**MW19_061724**	**Water**	**17 Jun 2024 12:05**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			03 Jul 2024
8.	**HS24061218-08**	**MW18_061724**	**Water**	**17 Jun 2024 12:45**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26091**

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			03 Jul 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6/20/24 1146

Received By: _____ Date/Time: _____

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

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ALS Laboratory Group
HS24061218

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Sample Receipt Checklist

Work Order ID: HS24061218 **Date/Time received:** 19 Jun 2024 10:05

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 19 Jun 2024 22:38 (Date/Time) Michael Lucio (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: w **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present
Chain of custody present?	☑ Yes	☐ No	1 Page(s)
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):
Samplers name present on COC?	☑ Yes	☐ No	
Chain of custody agrees with sample labels?	☐ Yes	☑ No	
Samples in proper container/bottle?	☑ Yes	☐ No	
Sample containers intact?	☑ Yes	☐ No	
Sufficient sample volume for indicated test?	☑ Yes	☐ No	
All samples received within holding time?	☑ Yes	☐ No	
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No	

Temperature(s)/Thermometer(s): 1.4uc/1.5c IR31

Cooler Information: 1 Cooler(s), Blue

Date/Time sample(s) sent to storage: 06/19/2024 22:39

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

pH adjusted by:

Login notes: No collection time on COC. Collection time on sample labels was used instead.

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

Contacted by: **Regarding:**

Comments:

Corrective action:

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 440489 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 10:15

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400696-001	18CPTMW10DW-061424	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2400696-002	18CPTMW10DW-061424-a	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2400696-003	18CPTMW10SW-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
4	E2400696-004	MW9-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
5	E2400696-005	MW10-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
6	E2400696-006	18WW10-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
7	E2400696-007	MW17-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
8	E2400696-008	MW16-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
9	E2400696-009	17WW08-061424	.02	6850/ClO4 DOD			Ground Water	10mL	
10	E2400696-010	17WW08-061424-a	.02	6850/ClO4 DOD			Ground Water	10mL	
11	E2400710-001	2406130941A BLM-27-270	.01	6850/ClO4			Water	10mL	
12	E2400715-001	1824DOTTMW02_061724	.01	6850/ClO4 DOD			Water	10mL	
13	E2400715-002	18WW18_061724	.01	6850/ClO4 DOD			Water	10mL	
14	E2400715-003	CO3_061724	.01	6850/ClO4 DOD			Water	10mL	
15	E2400715-004	1824DOTTMW01_061724	.01	6850/ClO4 DOD			Water	10mL	
16	E2400715-005	18CPTMW18_061724	.01	6850/ClO4 DOD			Water	10mL	
17	E2400715-006	1824DOTTMW03_061724	.01	6850/ClO4 DOD			Water	10mL	
18	E2400715-007	MW19_061724	.01	6850/ClO4 DOD			Water	10mL	
19	E2400715-008	MW18_061724	.01	6850/ClO4 DOD			Water	10mL	
20	EQ2400343-02	LCS		6850/ClO4			Liquid	10mL	
21	EQ2400343-03	DLCS		6850/ClO4			Liquid	10mL	
22	EQ2400343-04	MB		6850/ClO4			Liquid	10mL	
23	EQ2400343-05	ICS		6850/ClO4			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400343-02 10.00µL EQ2400343-02 10.00µL EQ2400343-03 10.00µL EQ2400343-03 10.00µL EQ2400343-05 10.00µL EQ2400343-05 10.00µL

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

EQ2400343-05 20.00µL EQ2400343-05 20.00µL

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

E2400696-001 100.00µL E2400696-002 100.00µL E2400696-003 100.00µL E2400696-004 100.00µL E2400696-005 100.00µL E2400696-006 100.00µL

Preparation Information Benchsheet

Prep Run#: 440489 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/24/24 10:15

E2400696-007	100.00µL	E2400696-008	100.00µL	E2400696-009	100.00µL	E2400696-010	100.00µL	E2400710-001	100.00µL	E2400715-001	100.00µL
E2400715-002	100.00µL	E2400715-003	100.00µL	E2400715-004	100.00µL	E2400715-005	100.00µL	E2400715-006	100.00µL	E2400715-007	100.00µL
E2400715-008	100.00µL	EQ2400343-02	100.00µL	EQ2400343-02	100.00µL	EQ2400343-03	100.00µL	EQ2400343-03	100.00µL	EQ2400343-04	100.00µL
EQ2400343-04	100.00µL	EQ2400343-05	100.00µL	EQ2400343-05	100.00µL						

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/24/24 10:15
Finished: 6/24/24 11:30
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	6/17/24 0720
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	1824DOTTMW02_061724	**Units:**	µg/L
Lab Code:	E2400715-001	**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	**80600**		1000	500	250	10000	6/24/24	6/25/24 14:28	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	6/17/24 0805
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	18WW18_061724	**Units:**	µg/L
Lab Code:	E2400715-002	**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	1.00	0.500	0.250	10	6/24/24	6/25/24 14:33	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	6/17/24 0805
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	CO3_061724	**Units:**	µg/L
Lab Code:	E2400715-003	**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	**43.6**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 16:04	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	6/17/24 0950
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	1824DOTTMW01_061724	**Units:**	µg/L
Lab Code:	E2400715-004	**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	**4.99**		1.00	0.500	0.250	10	6/24/24	6/25/24 14:39	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	6/17/24 1035
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	18CPTMW18_061724	**Units:**	µg/L
Lab Code:	E2400715-005	**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	1.00	0.500	0.250	10	6/24/24	6/25/24 14:45	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	6/17/24 1120
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	1824DOTTMW03_061724	**Units:**	µg/L
Lab Code:	E2400715-006	**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	6/24/24	6/24/24 16:21	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	6/17/24 1205
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	MW19_061724	**Units:**	µg/L
Lab Code:	E2400715-007	**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	1.00	0.500	0.250	10	6/24/24	6/25/24 15:01	440489	845503	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	6/17/24 1245
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	MW18_061724	**Units:**	µg/L
Lab Code:	E2400715-008	**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	6/24/24	6/24/24 16:32	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400343-04	**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	6/24/24	6/24/24 13:40	440489	845501	

Accuracy & Precision

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Analyzed:**	06/24/24
Sample Matrix:	Water	**Date Extracted:**	06/24/24

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

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	845501

	Lab Control Sample EQ2400343-02			Duplicate Lab Control Sample EQ2400343-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.110	0.100	110	0.114	0.100	114	84-119	4	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400343-02	**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	**0.110**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 13:46	440489	845501	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400715
Project:	HS24061218	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400343-03	**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	**0.114**		0.100	0.0500	0.0250	1	6/24/24	6/24/24 13:57	440489	845501	

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

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

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

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

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Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

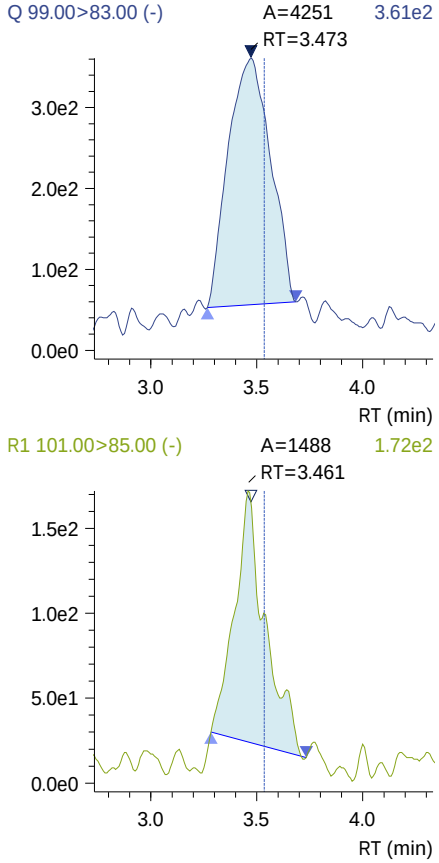
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

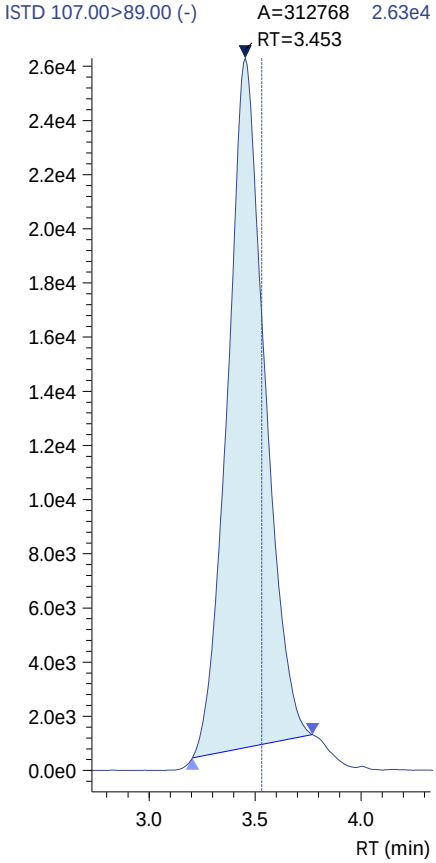
Perchlorate

Conc 0.0931
R#1 35.01 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

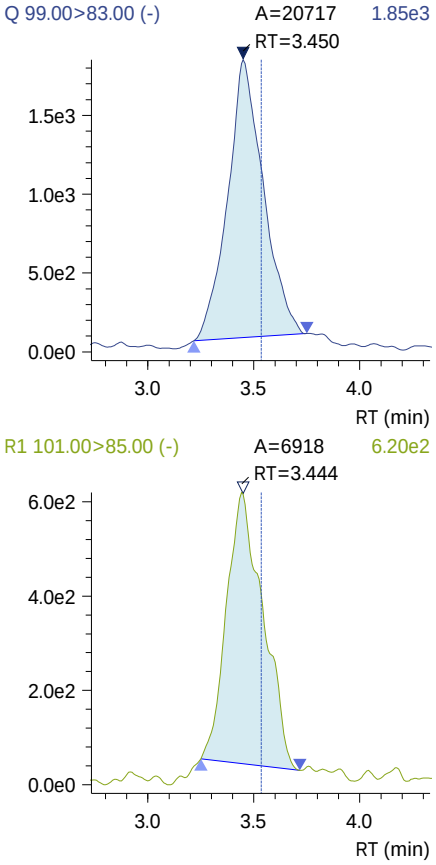
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

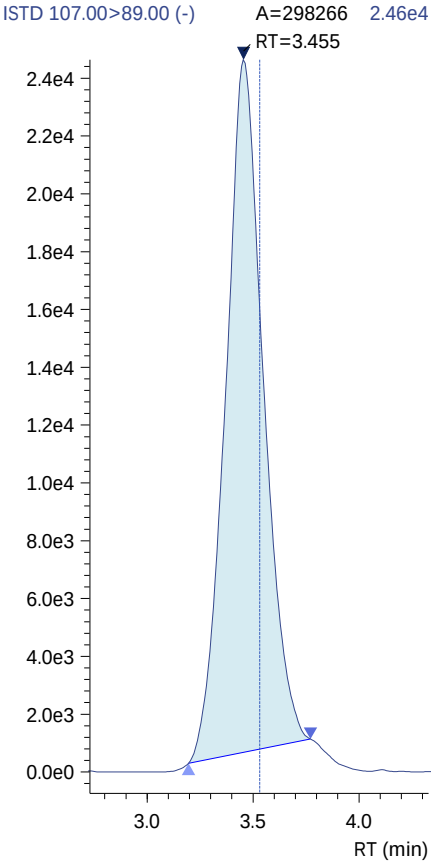
Perchlorate

Conc 0.4757
R#1 33.39 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

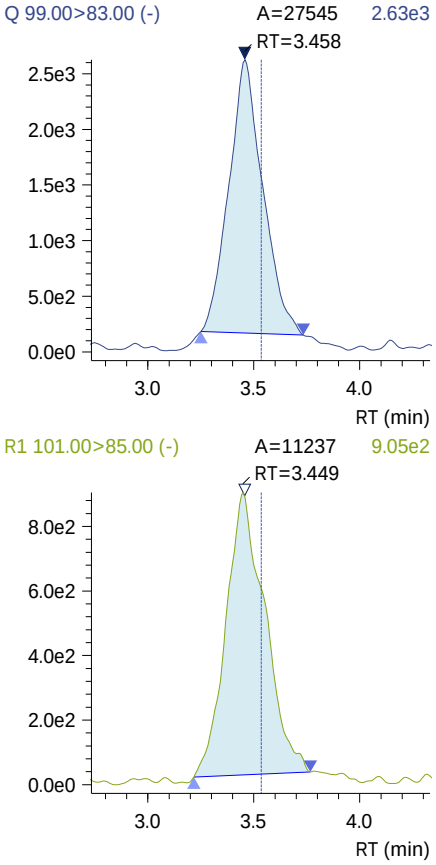
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

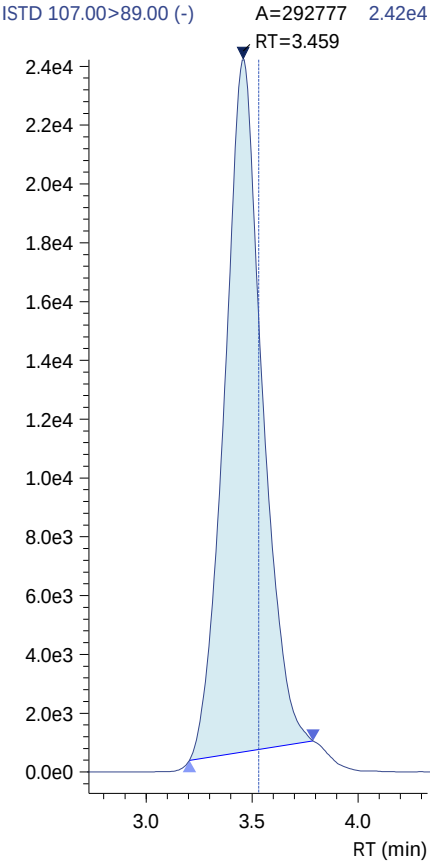
Perchlorate

Conc 0.6444
R#1 40.79 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

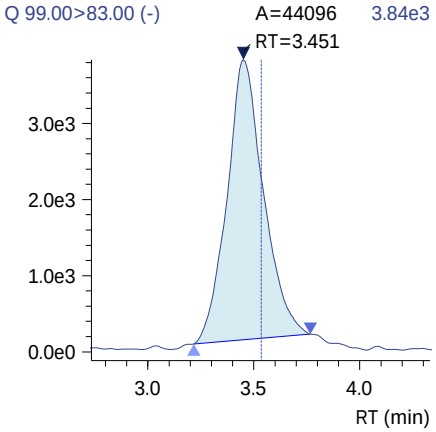
Perchlorate ICAL 4

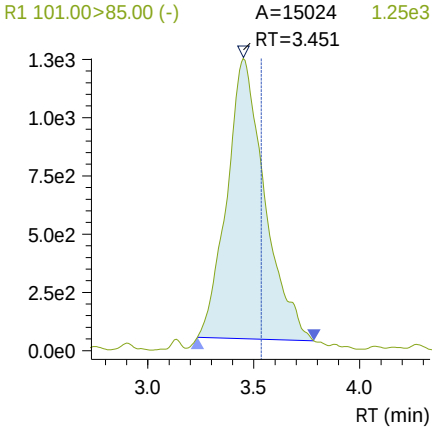
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

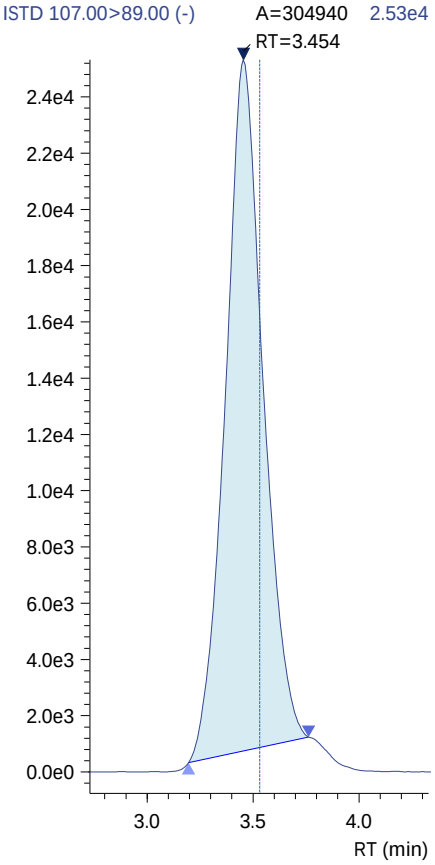
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

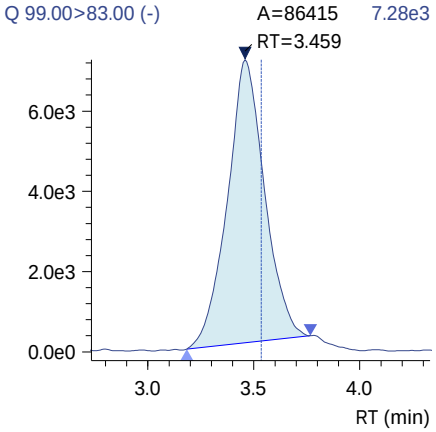
Perchlorate ICAL 5

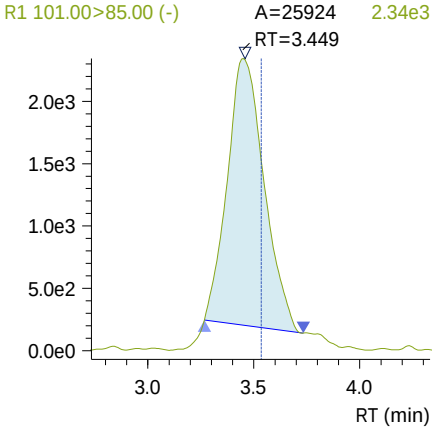
Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

Perchlorate

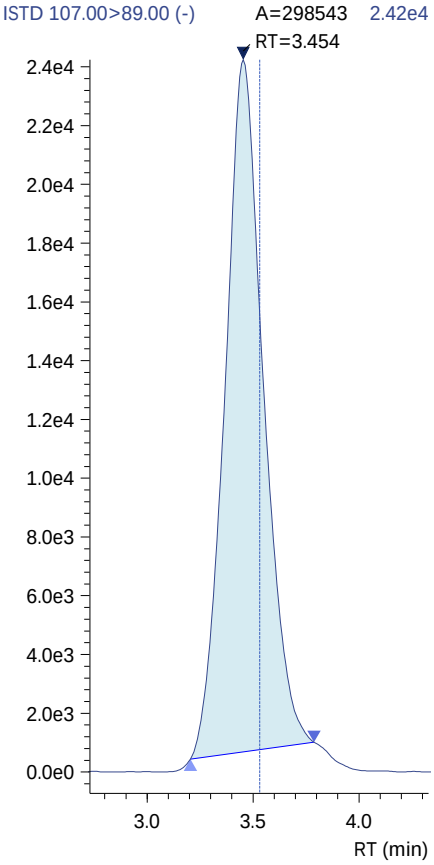
Conc 1.9825
R#1 30.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

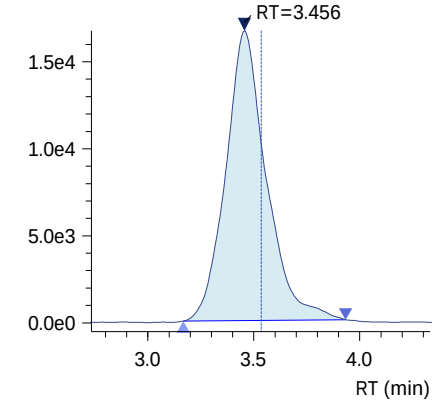
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

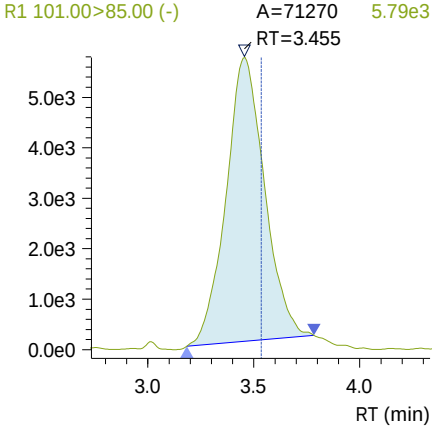
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4
RT=3.456



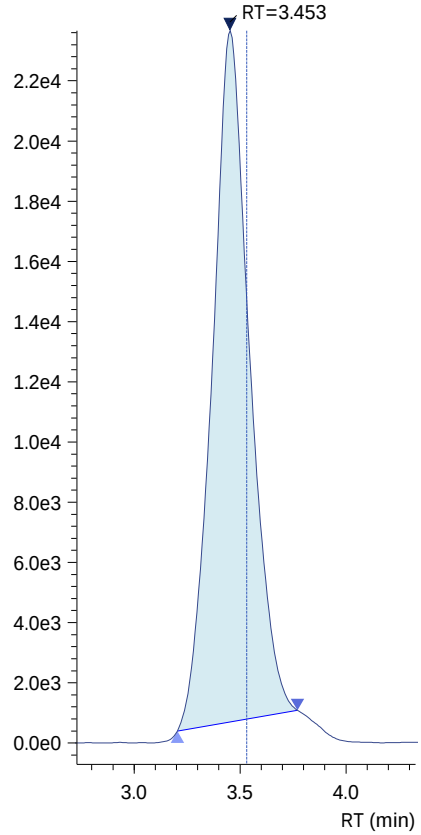
R1 101.00>85.00 (-) A=71270 5.79e3
RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4
RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

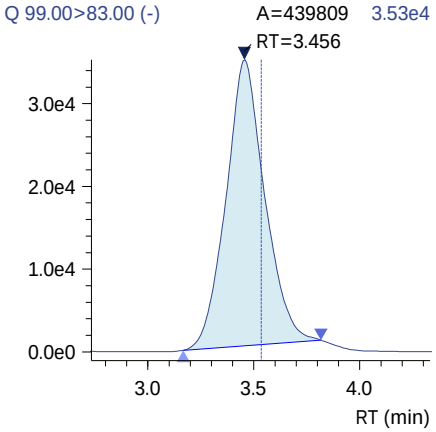
Perchlorate ICAL 7

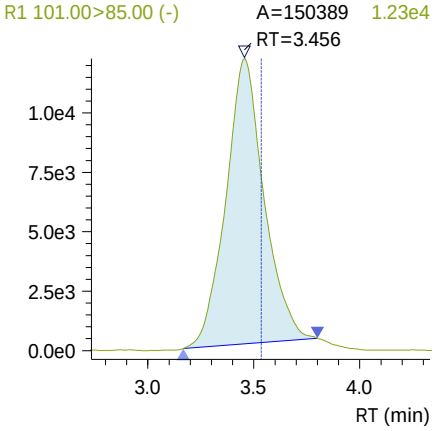
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

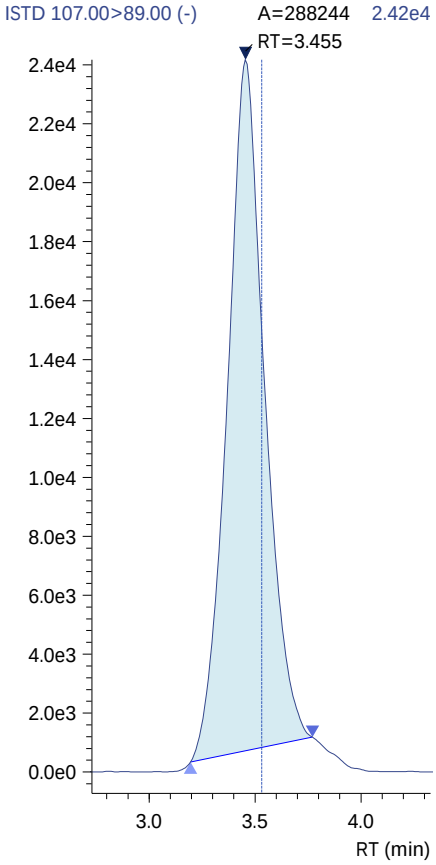
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

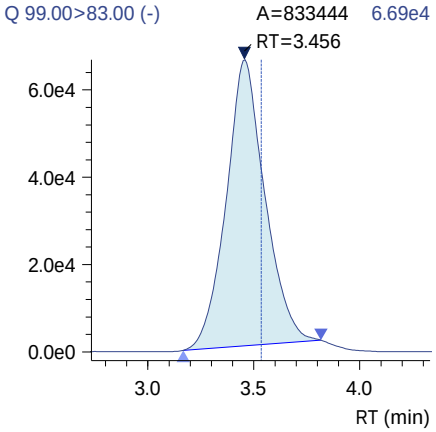
Perchlorate ICAL 8

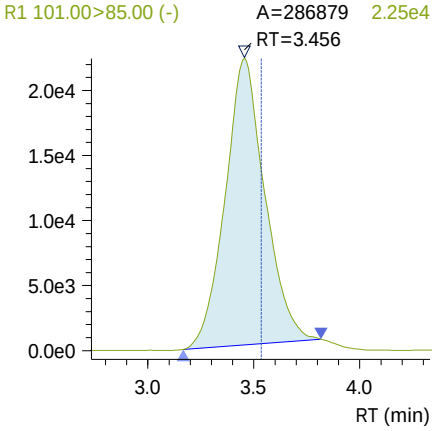
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9 364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

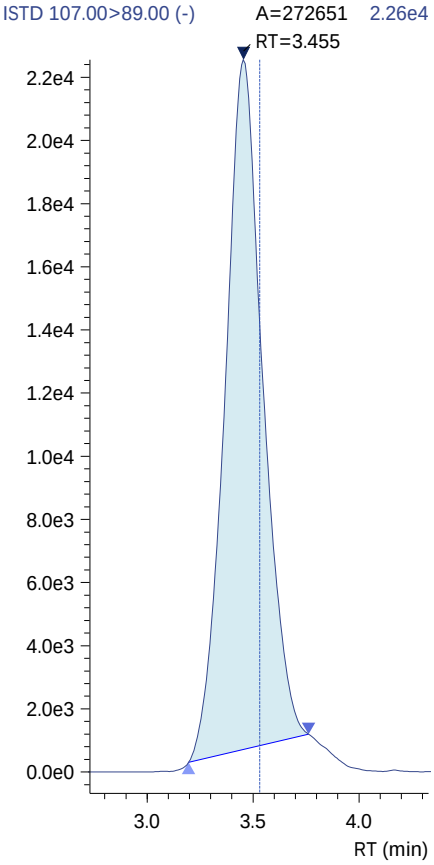
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

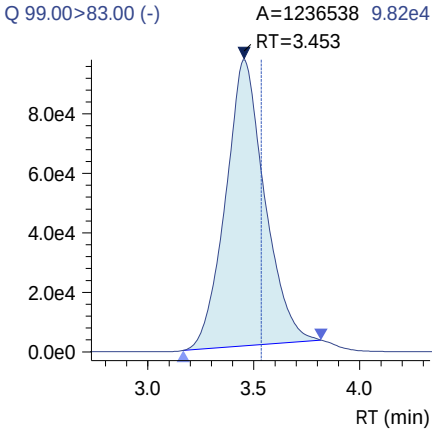
Perchlorate ICAL 9

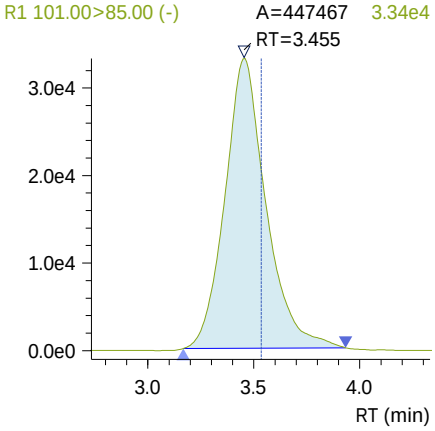
Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365 38	276997	30.5 749	ng/mL	101.00 >85.00	36.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

Perchlorate

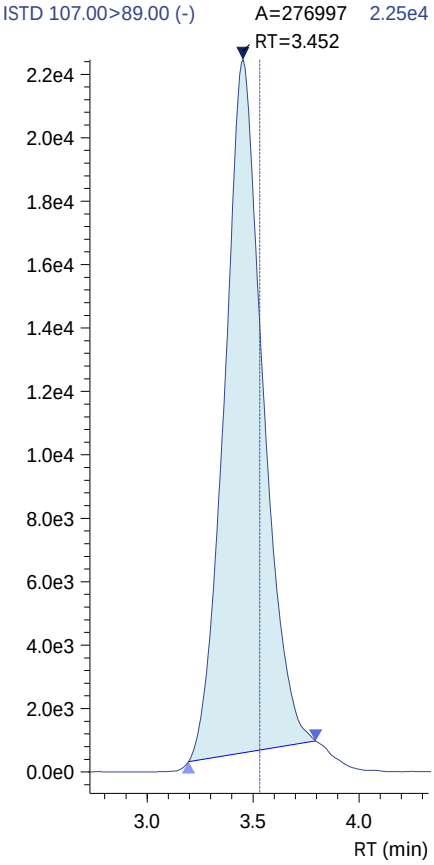
Conc 30.5749
R#1 36.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

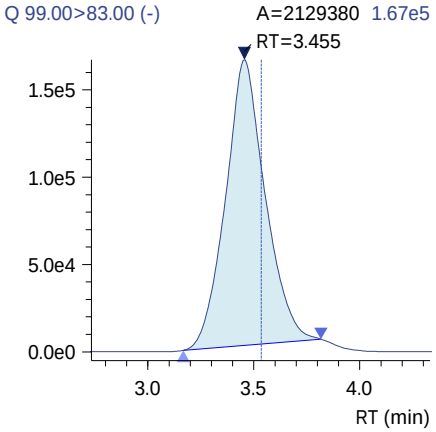
Perchlorate ICAL 10

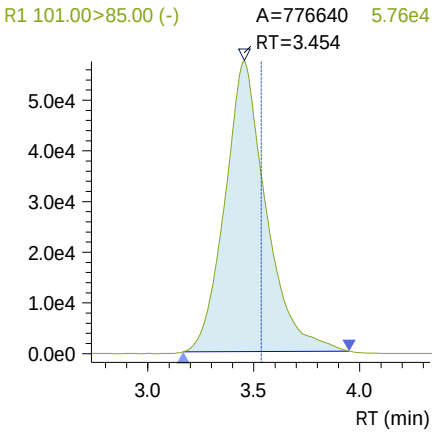
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

Perchlorate

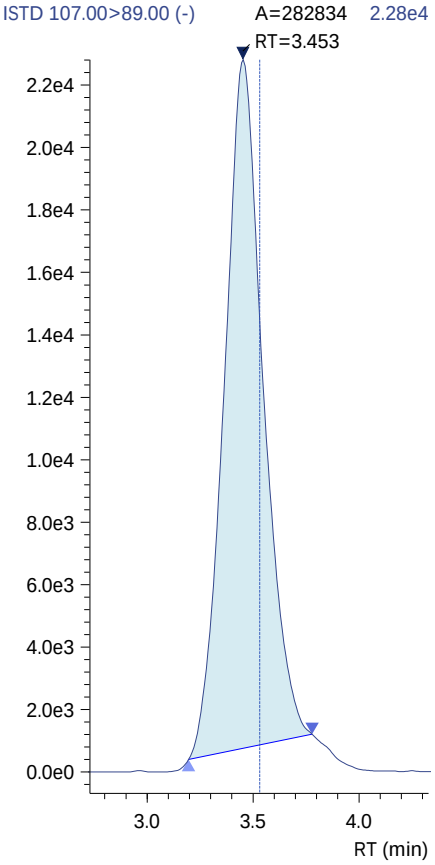
Conc 51.5649
R#1 36.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

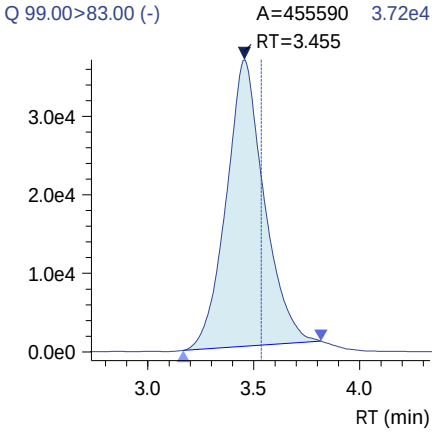
PerchlorateICV

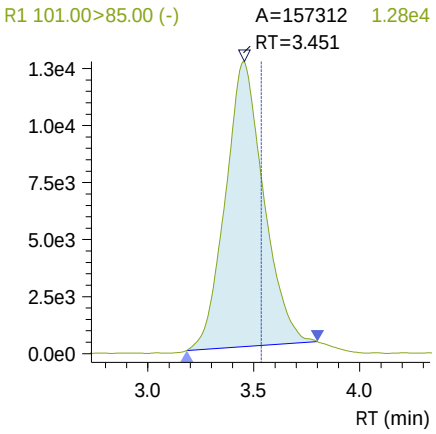
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2 823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

Perchlorate

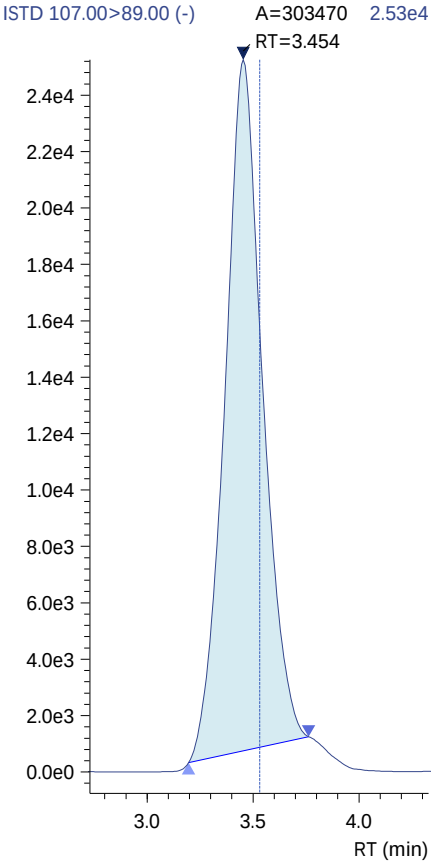
Conc 10.2823
R#1 34.53 (34.10)





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

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240624-001	IB	Perchlorate6850c.lcm	1x		6/24/2024 8:53
2	20240624-002	IB	Perchlorate6850c.lcm	1x		6/24/2024 8:58
3	20240624-003	IB	Perchlorate6850c.lcm	1x		6/24/2024 9:04
4	20240624-004	LODV	Perchlorate6850c.lcm	1x		6/24/2024 9:09
5	20240624-005	ICS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 9:15
6	20240624-006	CCV	Perchlorate6850c.lcm	1x		6/24/2024 9:20
7	20240624-007	IB	Perchlorate6850c.lcm	1x		6/24/2024 10:20
8	20240624-008	EQ2400343-001MB	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:25
9	20240624-009	EQ2400343-02LCS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:31
10	20240624-010	EQ2400343-03DLCS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:36
11	20240624-011	EQ2400343-04ICS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:42
12	20240624-012	E2400685-001X10	Perchlorate6850c.lcm	10x		6/24/2024 10:47
13	20240624-013	E2400685-006X100	Perchlorate6850c.lcm	100x		6/24/2024 10:53
14	20240624-014	E2400685-007X500	Perchlorate6850c.lcm	500x		6/24/2024 10:59
15	20240624-015	E2400691-003X100	Perchlorate6850c.lcm	100x		6/24/2024 11:04
16	20240624-016	E2400691-004X10	Perchlorate6850c.lcm	10x		6/24/2024 11:10
17	20240624-017	CCV	Perchlorate6850c.lcm	1x		6/24/2024 11:15
18	20240624-018	IB	Perchlorate6850c.lcm	1x		6/24/2024 11:21
19	20240624-019	EQ2400343-004MB	Perchlorate6850c.lcm	1x		6/24/2024 13:40
20	20240624-020	EQ2400343-02LCS	Perchlorate6850c.lcm	1x		6/24/2024 13:46
21	20240624-021	EQ2400343-03DLCS	Perchlorate6850c.lcm	1x		6/24/2024 13:57
22	20240624-022	EQ2400343-05ICS	Perchlorate6850c.lcm	1x		6/24/2024 14:03
23	20240624-023	EQ2400345-001MB	Perchlorate6850c.lcm	1x		6/24/2024 14:08
24	20240624-024	EQ2400345-02LCS	Perchlorate6850c.lcm	1x		6/24/2024 14:14
25	20240624-025	EQ2400345-03DLCS	Perchlorate6850c.lcm	1x		6/24/2024 14:19
26	20240624-026	EQ2400345-04ICS	Perchlorate6850c.lcm	1x		6/24/2024 14:25
27	20240624-027	E2400710-001	Perchlorate6850c.lcm	1x		6/24/2024 14:30
28	20240624-028	E2400696-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 14:36
29	20240624-029	CCV	Perchlorate6850c.lcm	1x		6/24/2024 14:41
30	20240624-030	IB	Perchlorate6850c.lcm	1x		6/24/2024 14:47
31	20240624-031	E2400696-002	Perchlorate6850c.lcm	1x	DNU	6/24/2024 14:52
32	20240624-032	E2400696-003	Perchlorate6850c.lcm	1x		6/24/2024 14:58
33	20240624-033	E2400696-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:03
34	20240624-034	E2400696-005	Perchlorate6850c.lcm	1x		6/24/2024 15:09
35	20240624-035	E2400696-006	Perchlorate6850c.lcm	1x		6/24/2024 15:14
36	20240624-036	E2400696-007	Perchlorate6850c.lcm	1x		6/24/2024 15:20
37	20240624-037	E2400696-008	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:25
38	20240624-038	E2400696-009	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:31
39	20240624-039	E2400696-010	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:36
40	20240624-040	E2400715-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:42
41	20240624-041	CCV	Perchlorate6850c.lcm	1x		6/24/2024 15:47

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
42	20240624-042	IB	Perchlorate6850c.lcm	1x		6/24/2024 15:53
43	20240624-043	E2400715-002	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:59
44	20240624-044	E2400715-003	Perchlorate6850c.lcm	1x		6/24/2024 16:04
45	20240624-045	E2400715-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:10
46	20240624-046	E2400715-005	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:15
47	20240624-047	E2400715-006	Perchlorate6850c.lcm	1x		6/24/2024 16:21
48	20240624-048	E2400715-007	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:26
49	20240624-049	E2400715-008	Perchlorate6850c.lcm	1x		6/24/2024 16:32
50	20240624-050	E2400716-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:37
51	20240624-051	E2400716-002	Perchlorate6850c.lcm	1x		6/24/2024 16:43
52	20240624-052	E2400716-003	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:48
53	20240624-053	CCV	Perchlorate6850c.lcm	1x		6/24/2024 16:54
54	20240624-054	IB	Perchlorate6850c.lcm	1x		6/24/2024 16:59
55	20240624-055	E2400716-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 17:05
56	20240624-056	E2400716-005	Perchlorate6850c.lcm	1x		6/24/2024 17:11
57	20240624-057	E2400716-006	Perchlorate6850c.lcm	1x		6/24/2024 17:16
58	20240624-058	E2400716-007	Perchlorate6850c.lcm	1x		6/24/2024 17:22
59	20240624-059	E2400716-008	Perchlorate6850c.lcm	1x		6/24/2024 17:27
60	20240624-060	E2400716-009	Perchlorate6850c.lcm	1x		6/24/2024 17:33
61	20240624-061	E2400716-010	Perchlorate6850c.lcm	1x		6/24/2024 17:38
62	20240624-062	EQ2400345-05MS	Perchlorate6850c.lcm	1x		6/24/2024 17:44
63	20240624-063	EQ2400345-06DMS	Perchlorate6850c.lcm	1x		6/24/2024 17:49
64	20240624-064	E2400721-001	Perchlorate6850c.lcm	1x		6/24/2024 17:55
65	20240624-065	CCV	Perchlorate6850c.lcm	1x		6/24/2024 18:00
66	20240624-066	IB	Perchlorate6850c.lcm	1x		6/24/2024 18:06
67	20240624-067	E2400721-002	Perchlorate6850c.lcm	1x		6/24/2024 18:11
68	20240624-068	E2400721-003	Perchlorate6850c.lcm	1x		6/24/2024 18:17
69	20240624-069	CCV	Perchlorate6850c.lcm	1x		6/24/2024 18:22
70	20240624-070	IB	Perchlorate6850c.lcm	1x		6/24/2024 18:28

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240625-001	IB	Perchlorate6850c.lcm	1x		6/25/2024 13:21
2	20240625-002	LODV	Perchlorate6850c.lcm	1x		6/25/2024 13:27
3	20240625-003	ICS	Perchlorate6850c.lcm	1x	DNU	6/25/2024 13:33
4	20240625-004	IB	Perchlorate6850c.lcm	1x		6/25/2024 13:38
5	20240625-005	CCV	Perchlorate6850c.lcm	1x		6/25/2024 13:44
6	20240625-006	IB	Perchlorate6850c.lcm	1x		6/25/2024 13:49
7	20240625-007	E2400696-001X100	Perchlorate6850c.lcm	100x		6/25/2024 13:55
8	20240625-008	E2400696-002X100	Perchlorate6850c.lcm	100x		6/25/2024 14:00
9	20240625-009	E2400696-004X100	Perchlorate6850c.lcm	100x		6/25/2024 14:06
10	20240625-010	E2400696-008X100	Perchlorate6850c.lcm	100x		6/25/2024 14:11
11	20240625-011	E2400696-009X10	Perchlorate6850c.lcm	10x		6/25/2024 14:17
12	20240625-012	E2400696-010X10	Perchlorate6850c.lcm	10x		6/25/2024 14:22
13	20240625-013	E2400715-001X10000	Perchlorate6850c.lcm	10000x		6/25/2024 14:28
14	20240625-014	E2400715-002X10	Perchlorate6850c.lcm	10x		6/25/2024 14:33
15	20240625-015	E2400715-004X10	Perchlorate6850c.lcm	10x		6/25/2024 14:39
16	20240625-016	E2400715-005X10	Perchlorate6850c.lcm	10x		6/25/2024 14:45
17	20240625-017	CCV	Perchlorate6850c.lcm	1x		6/25/2024 14:50
18	20240625-018	IB	Perchlorate6850c.lcm	1x		6/25/2024 14:56
19	20240625-019	E2400715-007X10	Perchlorate6850c.lcm	10x		6/25/2024 15:01
20	20240625-020	E2400716-001x1000	Perchlorate6850c.lcm	1000x		6/25/2024 15:07
21	20240625-021	E2400716-003x10	Perchlorate6850c.lcm	10x		6/25/2024 15:12
22	20240625-022	E2400716-004x10	Perchlorate6850c.lcm	10x		6/25/2024 15:18
23	20240625-023	EQ2400350-01MB	Perchlorate6850c.lcm	1x		6/25/2024 15:23
24	20240625-024	EQ2400350-02LCS	Perchlorate6850c.lcm	1x		6/25/2024 15:29
25	20240625-025	EQ2400350-03DLCS	Perchlorate6850c.lcm	1x		6/25/2024 15:34
26	20240625-026	EQ2400350-04ICS	Perchlorate6850c.lcm	1x		6/25/2024 15:40
27	20240625-027	CCV	Perchlorate6850c.lcm	1x		6/25/2024 15:46
28	20240625-028	IB	Perchlorate6850c.lcm	1x		6/25/2024 15:51
29	20240625-029	E2400703-002	Perchlorate6850c.lcm	1x		6/25/2024 15:57
30	20240625-030	E2400703-003	Perchlorate6850c.lcm	1x		6/25/2024 16:02
31	20240625-031	E2400703-001	Perchlorate6850c.lcm	1x		6/25/2024 16:08
32	20240625-032	E2400350-05MS	Perchlorate6850c.lcm	1x	DNU	6/25/2024 16:13
33	20240625-033	E2400350-06DMS	Perchlorate6850c.lcm	1x		6/25/2024 16:19
34	20240625-034	IB	Perchlorate6850c.lcm	1x		6/25/2024 16:24
35	20240625-035	IB	Perchlorate6850c.lcm	1x		6/25/2024 16:30
36	20240625-036	CCV	Perchlorate6850c.lcm	1x		6/25/2024 16:35
37	20240625-037	IB	Perchlorate6850c.lcm	1x		6/25/2024 16:41

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/24/24 11:15

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

File ID: I:\LCMS01\DATA\20240624\20240624-017
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400353-01
Analysis Lot: 845501
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400353-01	223,642	3.45
Method Blank	EQ2400343-04	178,733	3.45
Lab Control Sample	EQ2400343-02	176,626	3.44
Duplicate Lab Control Sample	EQ2400343-03	184,981	3.44

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/24/24 14:41

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

File ID: I:\LCMS01\DATA\20240624\20240624-029
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400353-02
Analysis Lot: 845501
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400353-02	169,981	3.44

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/24/24 15:47

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

File ID: I:\LCMS01\DATA\20240624\20240624-041
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400353-03
Analysis Lot: 845501
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400353-03	160,199	3.44
CO3_061724	E2400715-003	192,074	3.43
1824DOTTMW03_061724	E2400715-006	158,540	3.43
MW18_061724	E2400715-008	161,267	3.44

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/24/24 16:54

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

File ID: I:\LCMS01\DATA\20240624\20240624-053
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400353-04
Analysis Lot: 845501
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400353-04	158,767	3.44

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/25/24 13:44

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

File ID: I:\LCMS01\DATA\20240625\20240625-005
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400354-01
Analysis Lot: 845503
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400354-01	212,258	3.44
1824DOTTMW02_061724	E2400715-001	198,742	3.44
18WW18_061724	E2400715-002	229,743	3.44
1824DOTTMW01_061724	E2400715-004	353,946	3.45
18CPTMW18_061724	E2400715-005	296,450	3.45

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/25/24 14:50

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

File ID: I:\LCMS01\DATA\20240625\20240625-017
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400354-02
Analysis Lot: 845503
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400354-02	203,781	3.44
MW19_061724	E2400715-007	232,477	3.44

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/25/24 15:46

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

File ID: I:\LCMS01\DATA\20240625\20240625-027
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400354-03
Analysis Lot: 845503
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400354-03	218,182	3.44

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/24/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240624\20240624-017

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845501
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.91	0.1460	0.1447	-0.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/25/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240625\20240625-005

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845503
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.78	0.1460	0.1427	-2.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/25/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240625\20240625-017

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845503
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1460	0.1480	1.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061218

Service Request: E2400715
Date Analyzed: 6/25/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240625\20240625-027

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845503
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.79	0.1460	0.1430	-2.1	NA	± 15 %	Average RF

Insight Report

Printed at 6/26/2024 11:57:40 AM

Method File: I:\LCMS01\DATA\20240624\20240624.lcm
Project File: I:\LCMS01\DATA\20240624\20240624.damlp

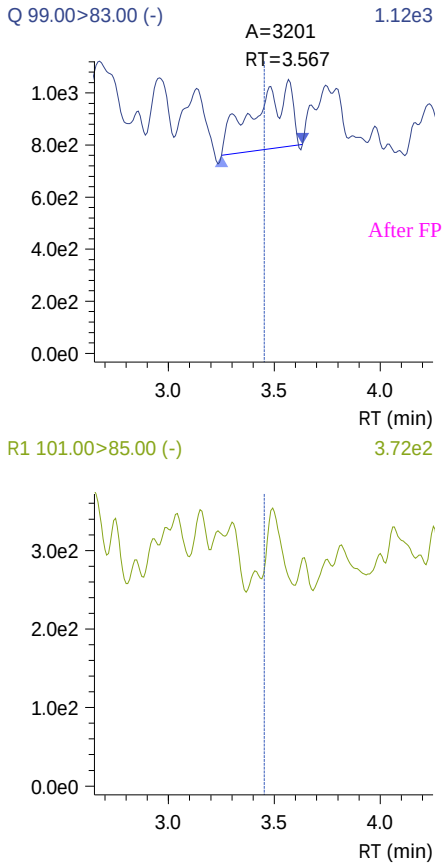
IB

Sample ID: IB
Date Acquired: 6/24/2024 9:04:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	182988	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	Auto	3.457	182988	182988	1.0000	ng/mL	----	----	

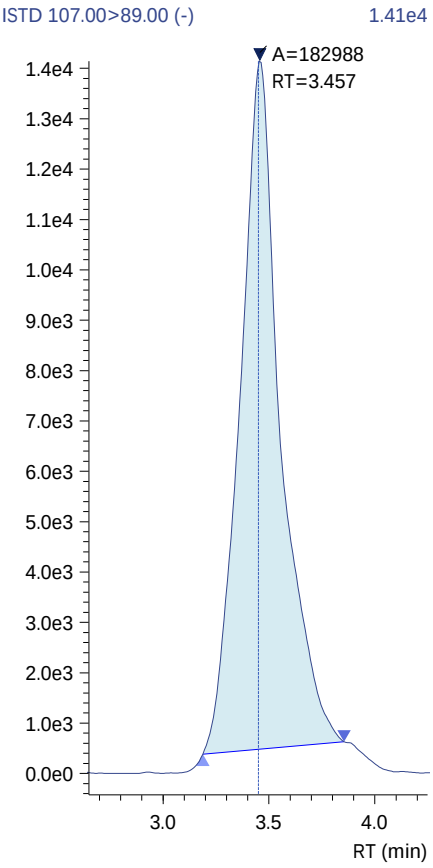
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

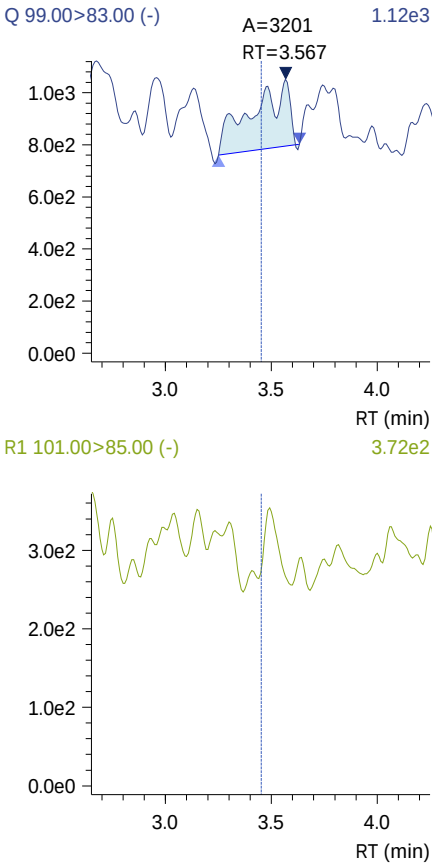
Method File: I:\LCMS01\DATA\20240624\20240624.lcm
Project File: I:\LCMS01\DATA\20240624\20240624.damlp

IB

Sample ID: IB
Date Acquired: 6/24/2024 9:04:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

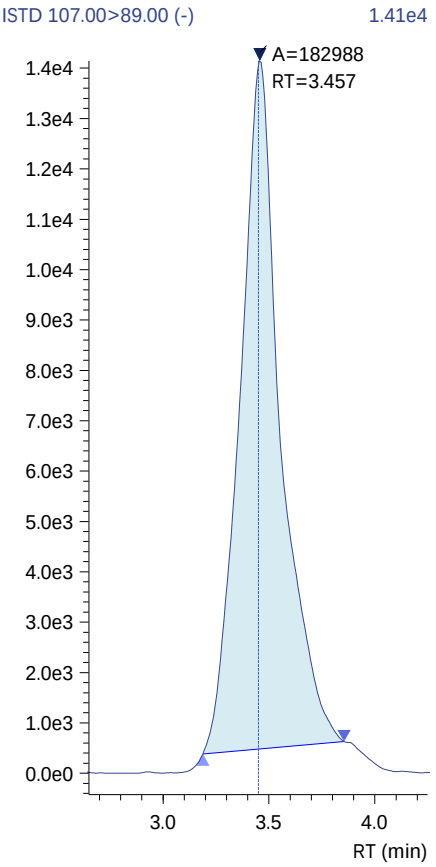
Perchlorate

Conc 0.1198
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

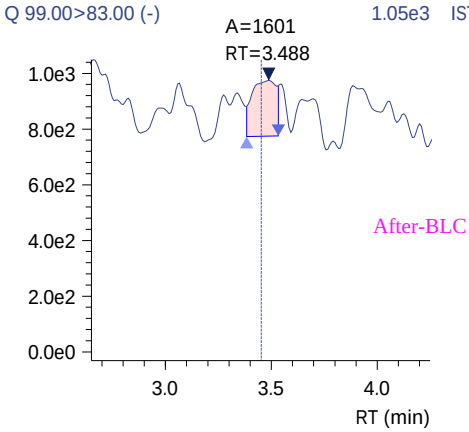
LODV

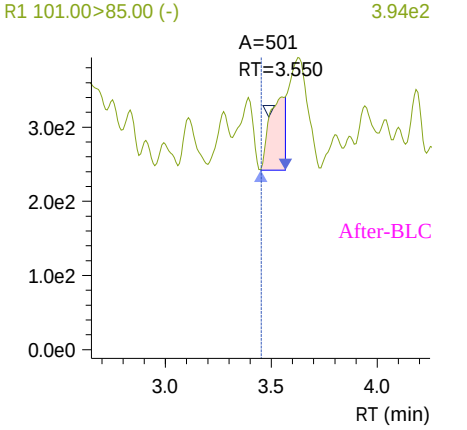
Sample ID: LODV
Date Acquired: 6/24/2024 9:09:52 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.488	1601	198442	0.0552	ng/mL	101.00 >85.00	31.30	23.32 -42.73
Sodium Perchlorate -18O4_IS	Auto	3.453	198442	198442	1.0000	ng/mL	----	----	

Perchlorate

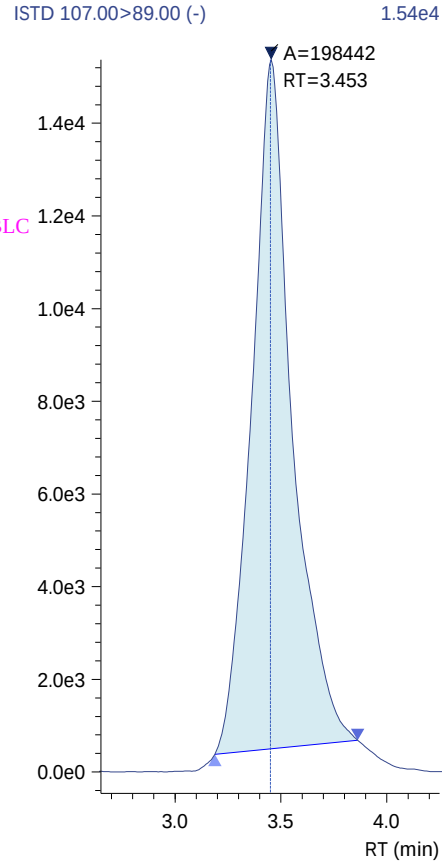
Conc 0.0552
R#1 31.30 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

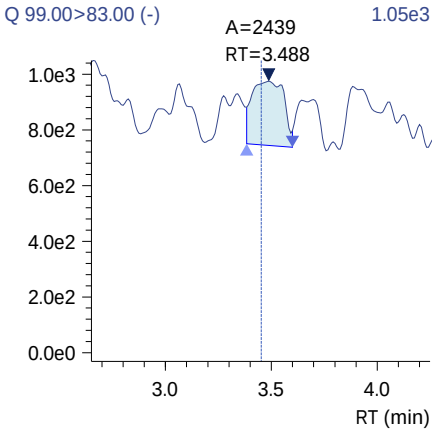
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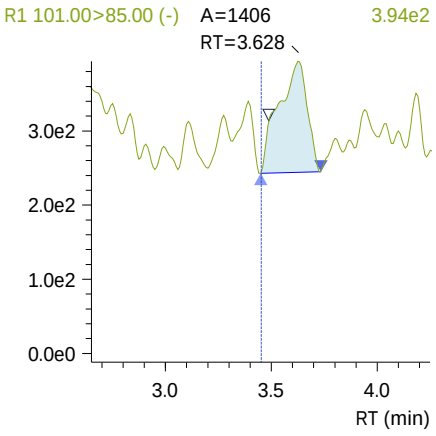
LODV

Sample ID: LODV
Date Acquired: 6/24/2024 9:09:52 AM
Acquired by: System Administrator
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Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

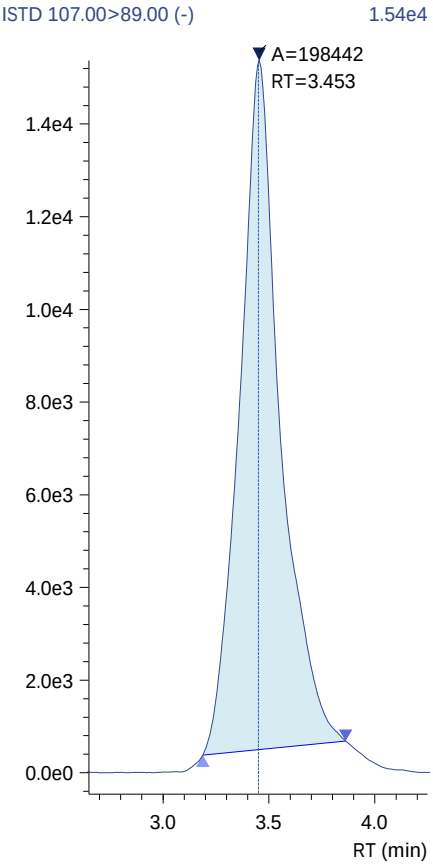
Conc 0.0842
R#1 57.62 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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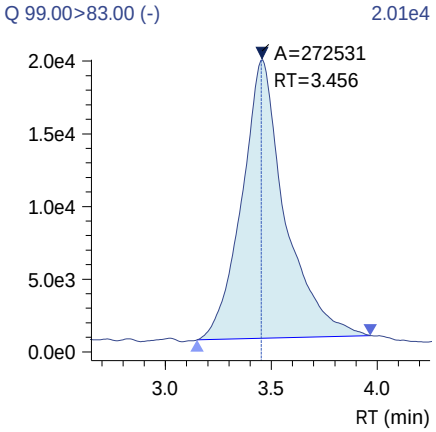
CCV

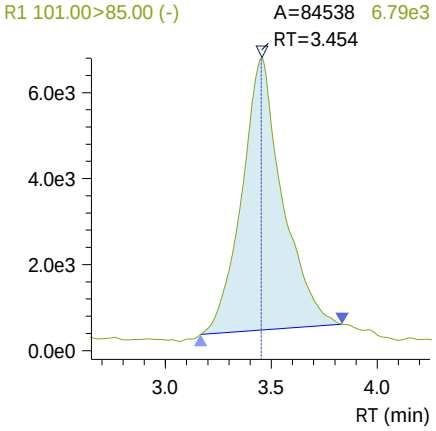
Sample ID: CCV
Date Acquired: 6/24/2024 9:20:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	272531	198308	9.4126	ng/mL	101.00 >85.00	31.02	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.453	198308	198308	1.0000	ng/mL	----	----	

Perchlorate

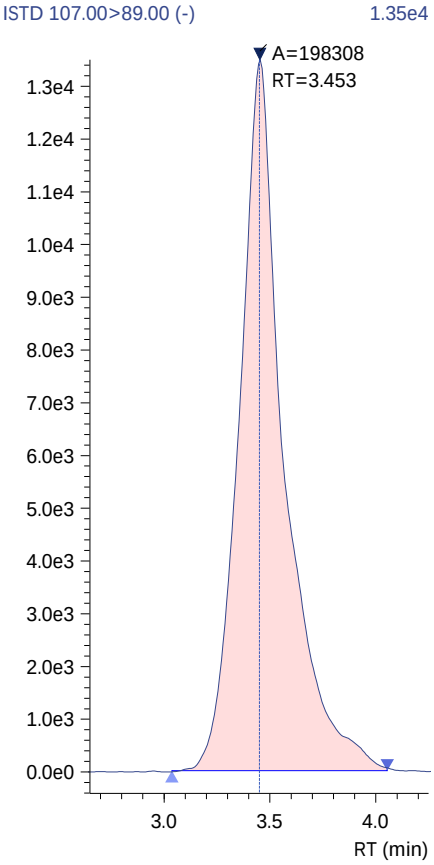
Conc 9.4126
R#1 31.02 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

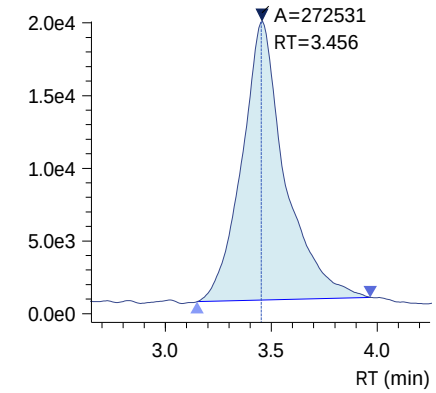
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 9:20:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

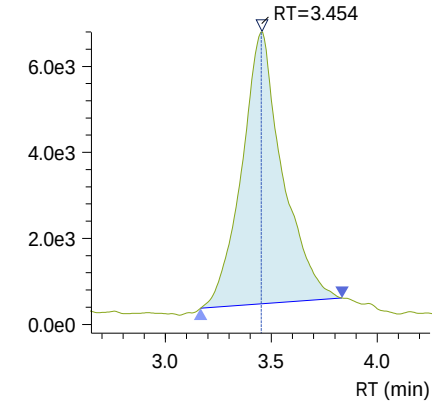
Perchlorate

Conc 10.6506
R#1 31.02 (35.24)

Q 99.00>83.00 (-) 2.01e4



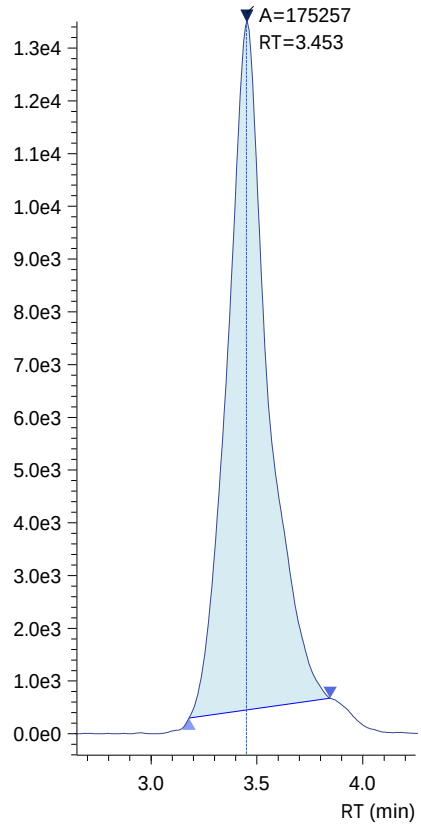
R1 101.00>85.00 (-) A=84538 6.79e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.35e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

IB

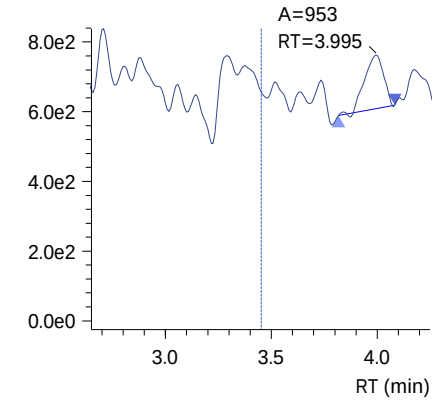
Sample ID: IB
Date Acquired: 6/24/2024 10:20:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	227162	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	M	3.453	227162	227162	1.0000	ng/mL	----	----	

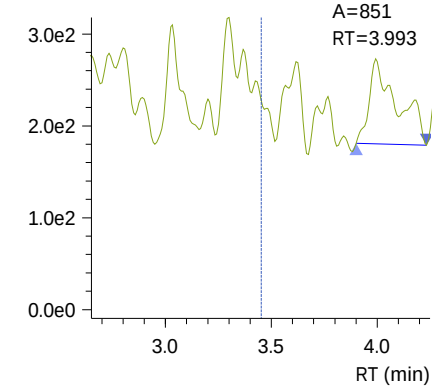
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.38e2



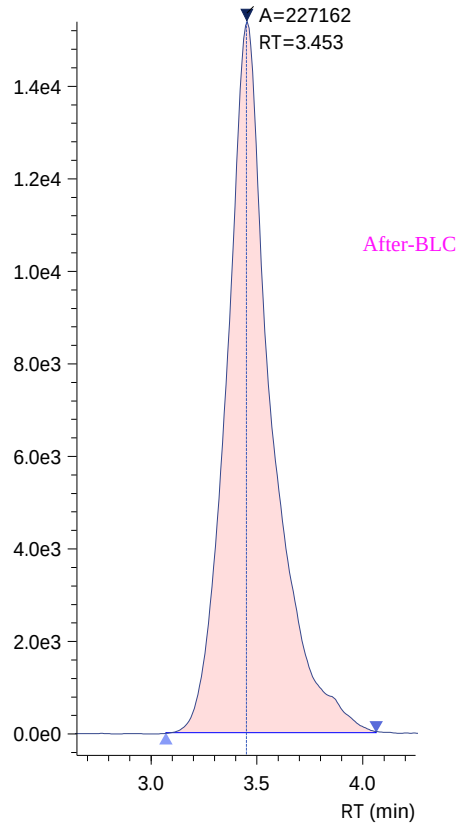
R1 101.00>85.00 (-) 3.18e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.54e4



Insight Report

Printed at 6/26/2024 11:58:29 AM

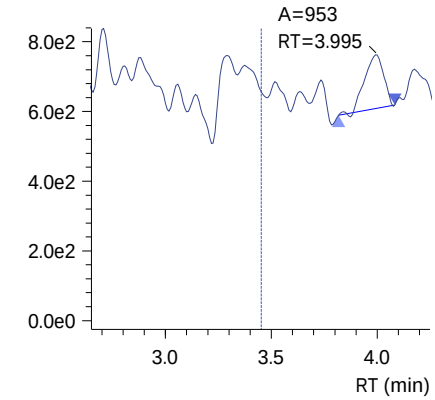
IB

Sample ID: IB
Date Acquired: 6/24/2024 10:20:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

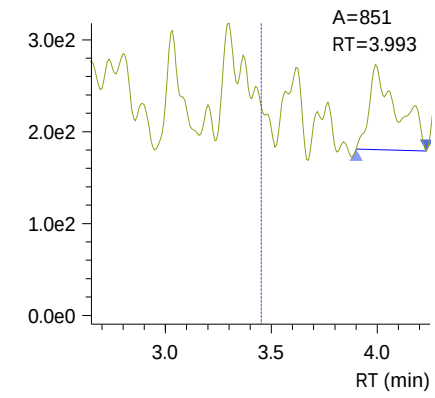
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.38e2



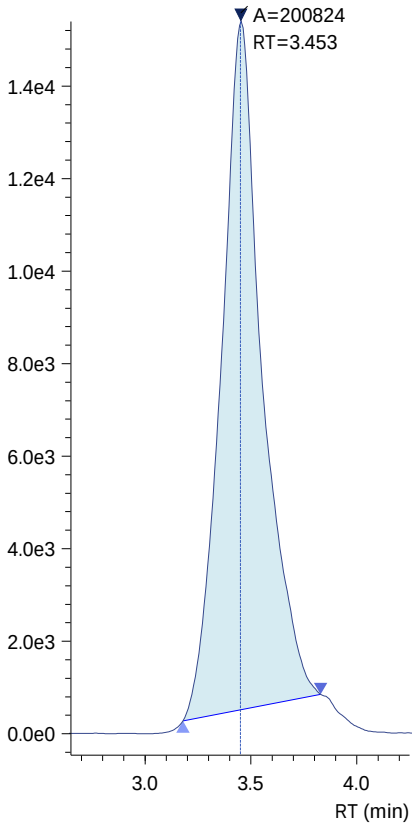
R1 101.00>85.00 (-) 3.18e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.54e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

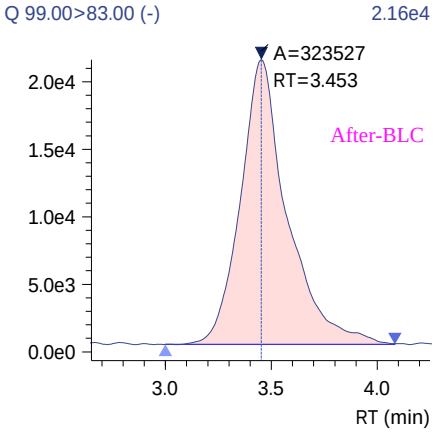
CCV

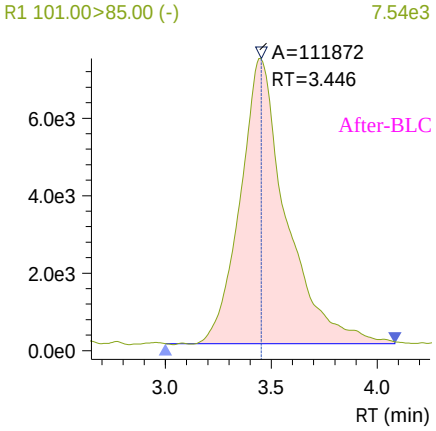
Sample ID: CCV
Date Acquired: 6/24/2024 11:15:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.453	323527	223642	9.9081	ng/mL	101.00 >85.00	34.58	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.449	223642	223642	1.0000	ng/mL	----	----	

Perchlorate

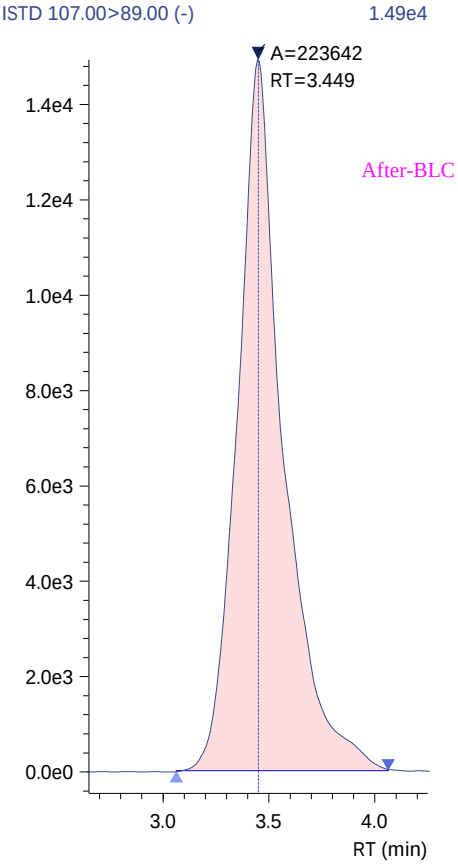
Conc 9.9081
R#1 34.58 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

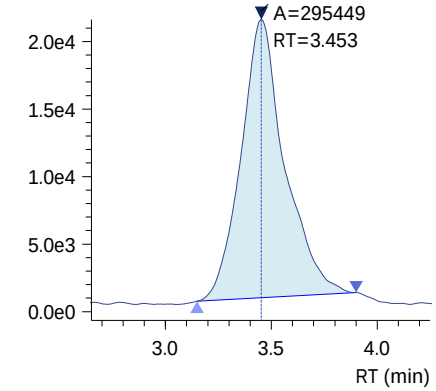
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 11:15:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

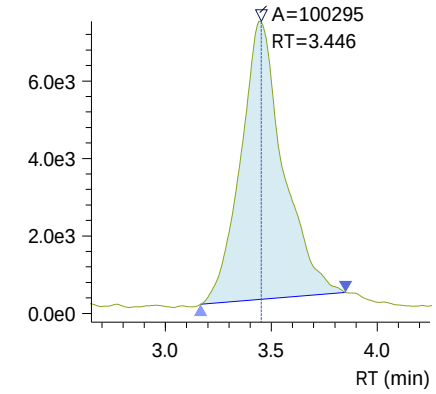
Perchlorate

Conc 10.2540
R#1 33.95 (35.24)

Q 99.00>83.00 (-) 2.16e4



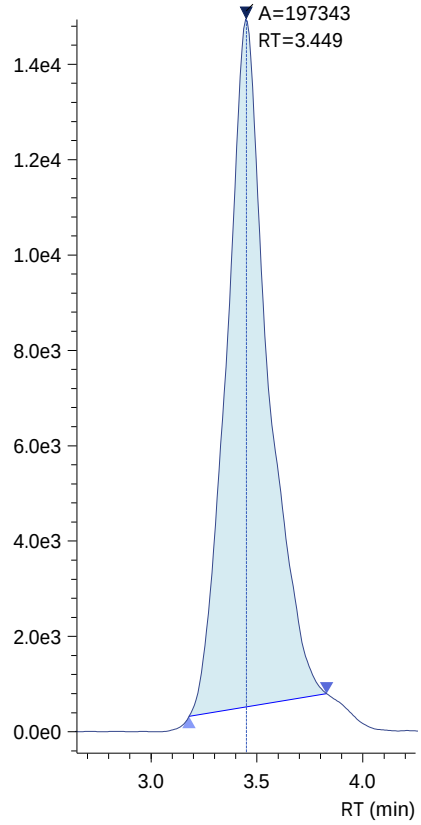
R1 101.00>85.00 (-) 7.54e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

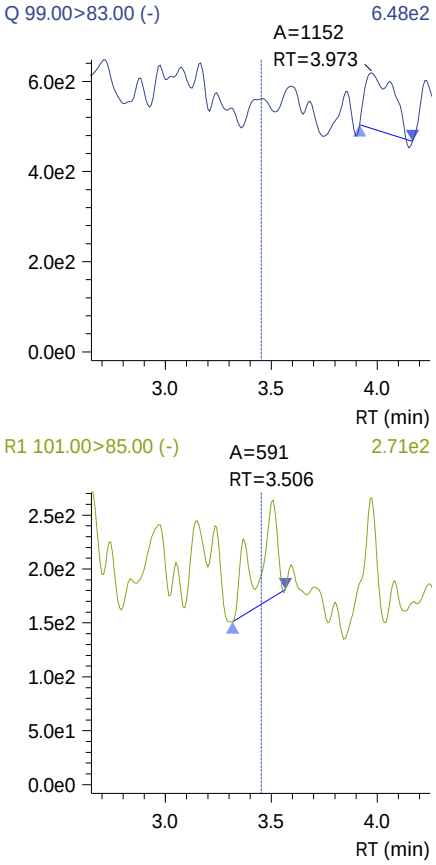
IB

Sample ID: IB
Date Acquired: 6/24/2024 11:21:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	201405	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	Auto	3.447	201405	201405	1.0000	ng/mL	----	----	

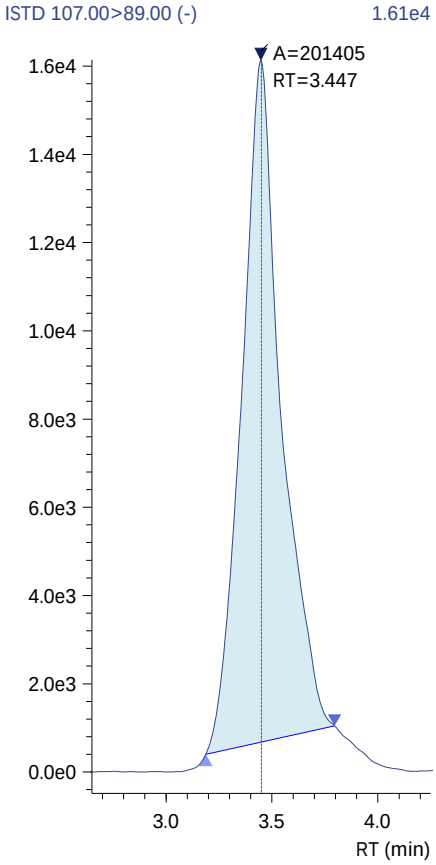
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

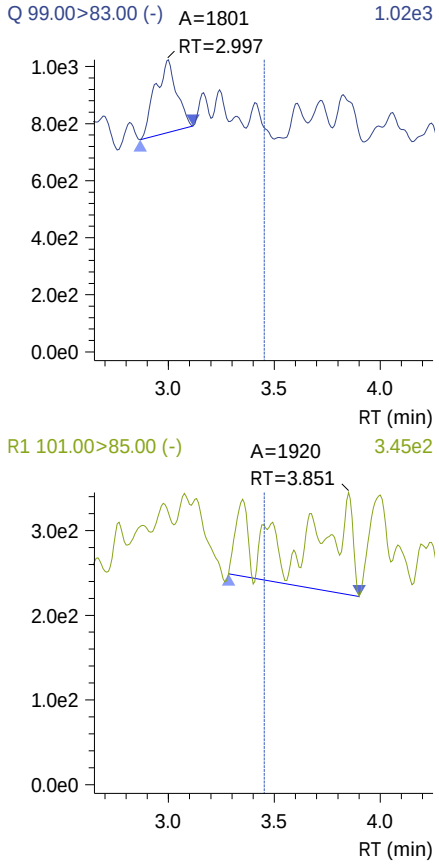
EQ2400343-004MB

Sample ID: EQ2400343-004MB
Date Acquired: 6/24/2024 1:40:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-019.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	178733	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	M	3.445	178733	178733	1.0000	ng/mL	----	----	

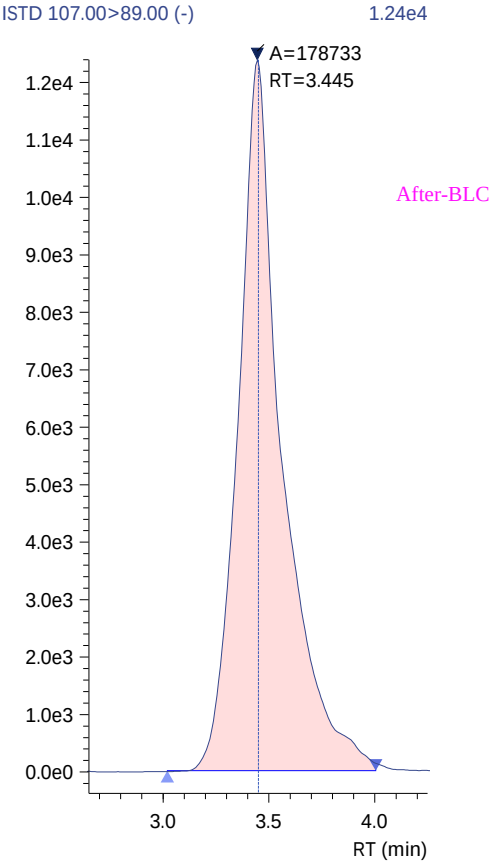
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

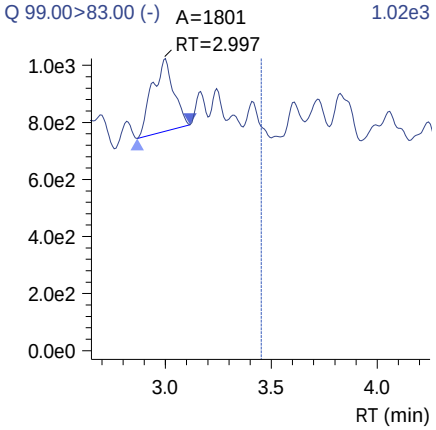
Printed at 6/26/2024 11:58:29 AM

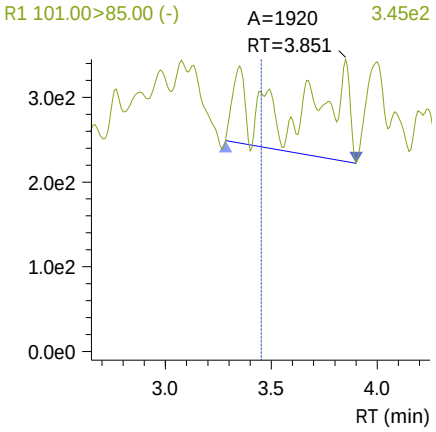
EQ2400343-004MB

Sample ID: EQ2400343-004MB
Date Acquired: 6/24/2024 1:40:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-019.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 5

Perchlorate

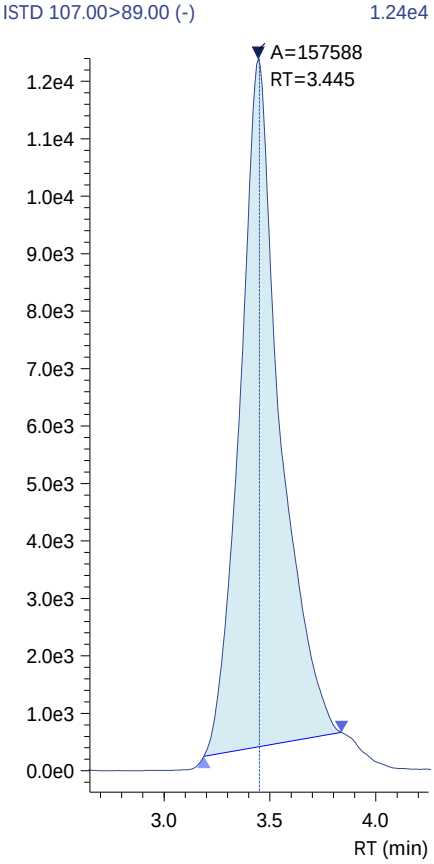
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

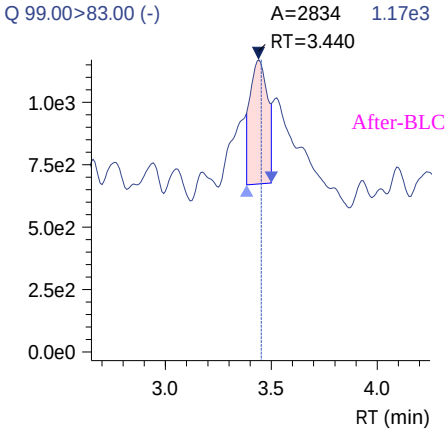
EQ2400343-02LCS

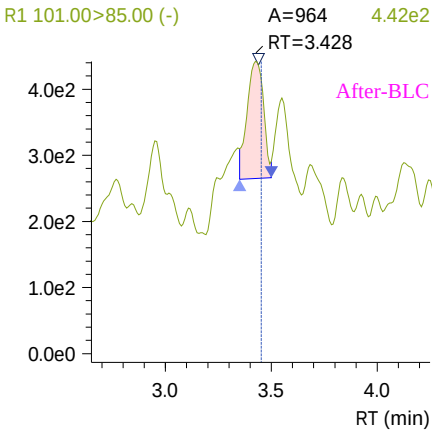
Sample ID: EQ2400343-02LCS
Date Acquired: 6/24/2024 1:46:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-020.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.440	2834	176626	0.1099	ng/mL	101.00 >85.00	34.02	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.443	176626	176626	1.0000	ng/mL	----	----	

Perchlorate

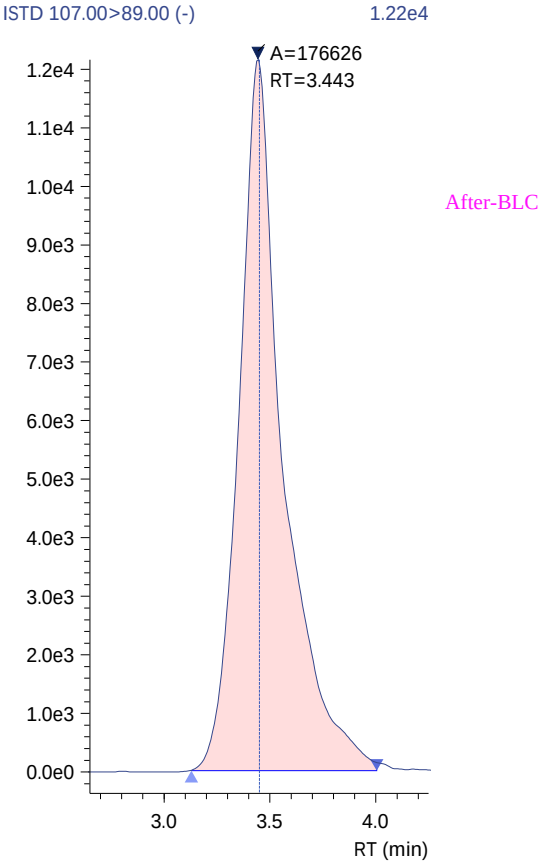
Conc 0.1099
R#1 34.02 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

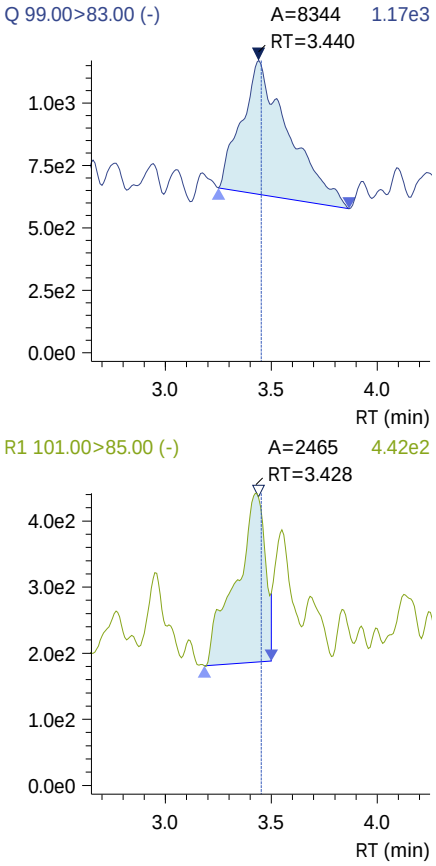
Printed at 6/26/2024 11:58:29 AM

EQ2400343-02LCS

Sample ID: EQ2400343-02LCS
Date Acquired: 6/24/2024 1:46:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-020.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 5

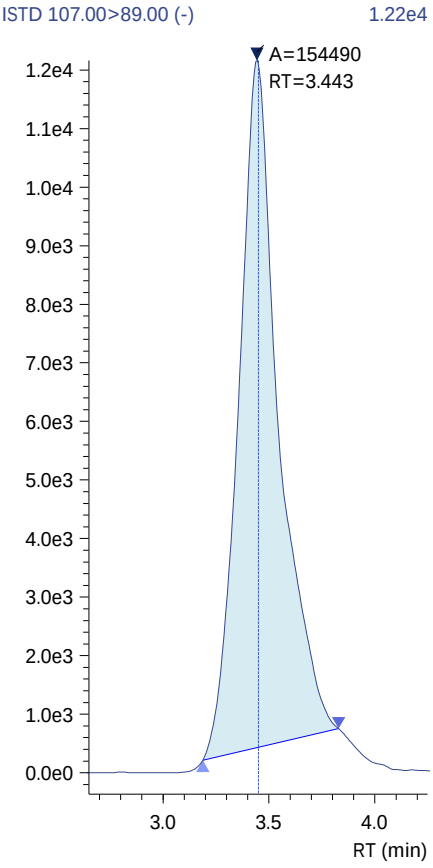
Perchlorate

Conc 0.3699
R#1 29.54 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

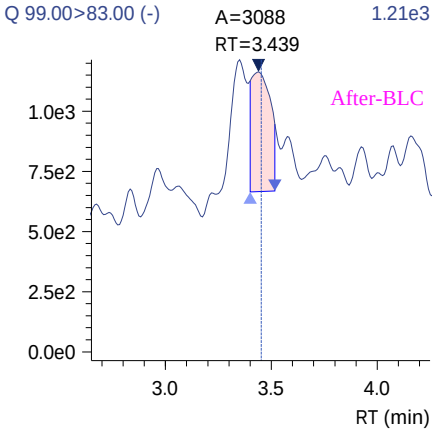
EQ2400343-03DLCS

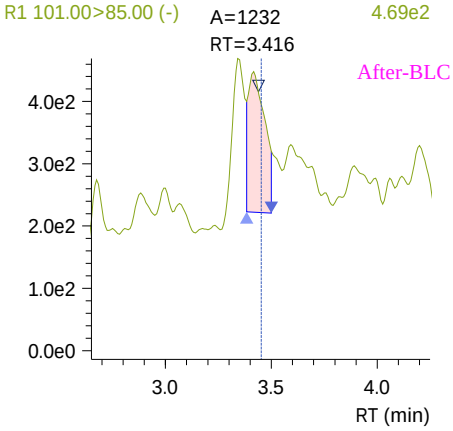
Sample ID: EQ2400343-03DLCS
Date Acquired: 6/24/2024 1:57:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-021.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.439	3088	184981	0.1143	ng/mL	101.00 >85.00	39.89	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.444	184981	184981	1.0000	ng/mL	----	----	

Perchlorate

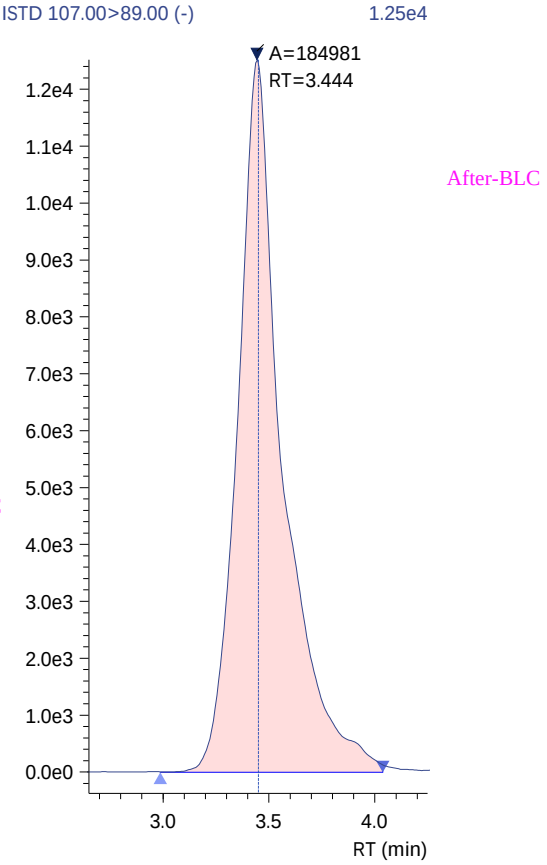
Conc 0.1143
R#1 39.89 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

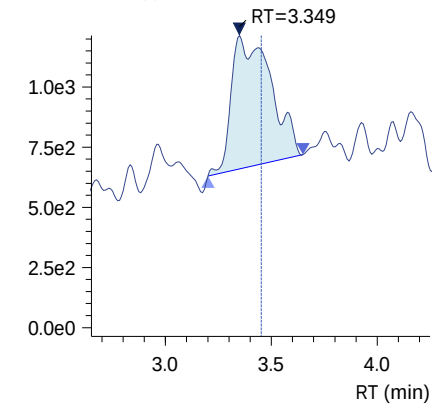
EQ2400343-03DLCS

Sample ID: EQ2400343-03DLCS
Date Acquired: 6/24/2024 1:57:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-021.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 5

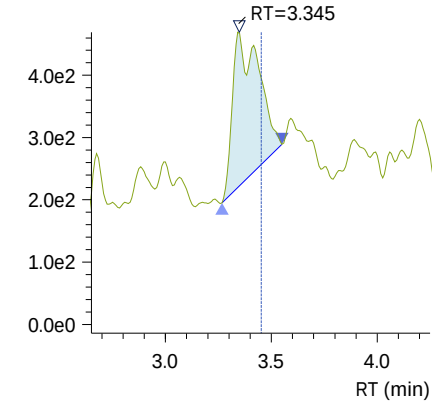
Perchlorate

Conc 0.2955
R#1 29.56 (35.24)

Q 99.00>83.00 (-) A=7053 1.21e3



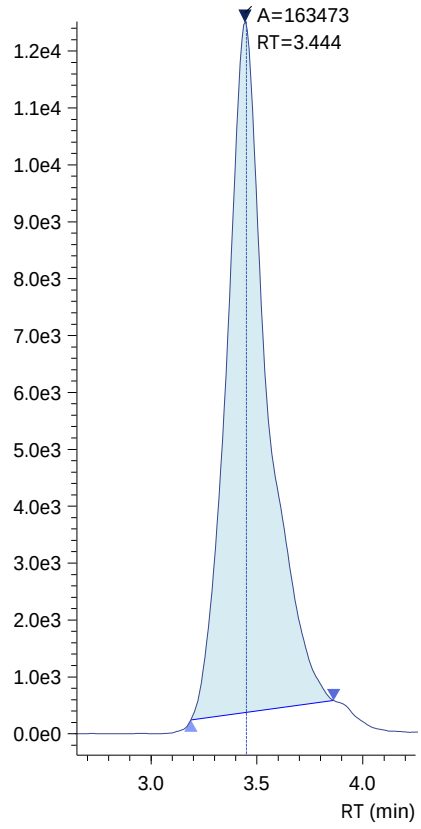
R1 101.00>85.00 (-) A=2085 4.69e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.25e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

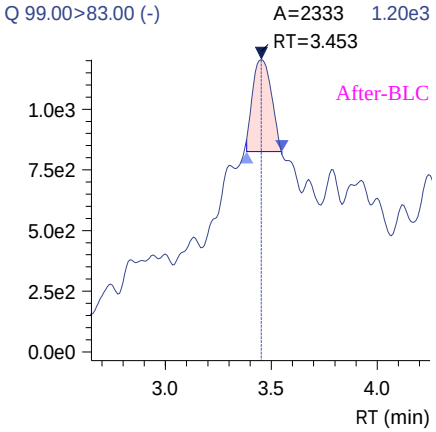
EQ2400343-05ICS

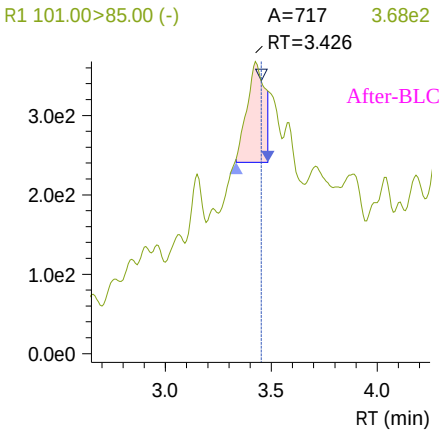
Sample ID: EQ2400343-05ICS
Date Acquired: 6/24/2024 2:03:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-022.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.453	2333	145829	0.1095	ng/mL	101.00 >85.00	30.74	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.443	145829	145829	1.0000	ng/mL	----	----	

Perchlorate

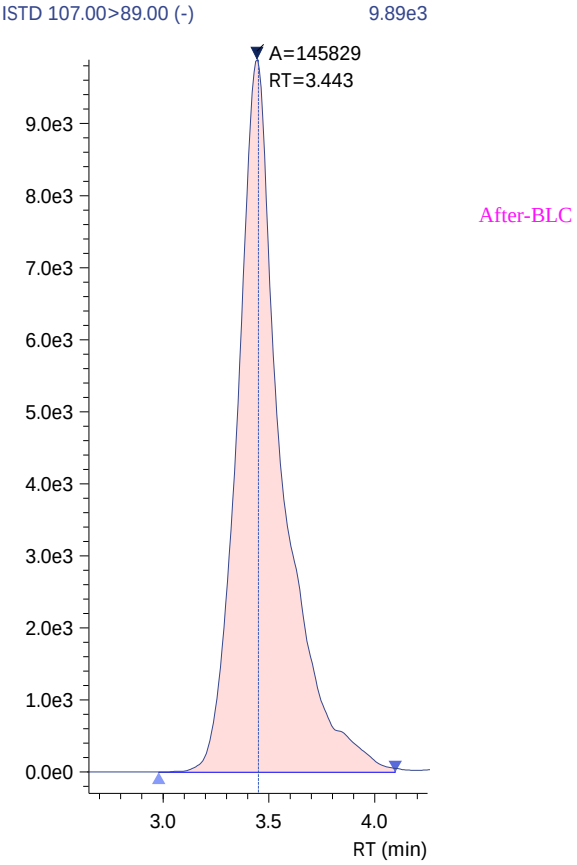
Conc 0.1095
R#1 30.74 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

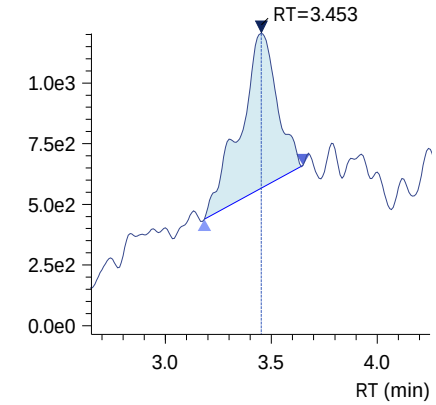
EQ2400343-05ICS

Sample ID: EQ2400343-05ICS
Date Acquired: 6/24/2024 2:03:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-022.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 5

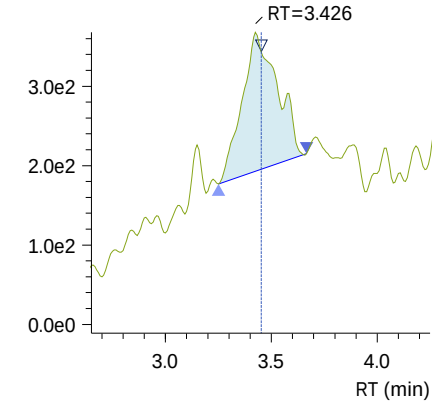
Perchlorate

Conc 0.4178
R#1 25.93 (35.24)

Q 99.00>83.00 (-) A=7735 1.20e3



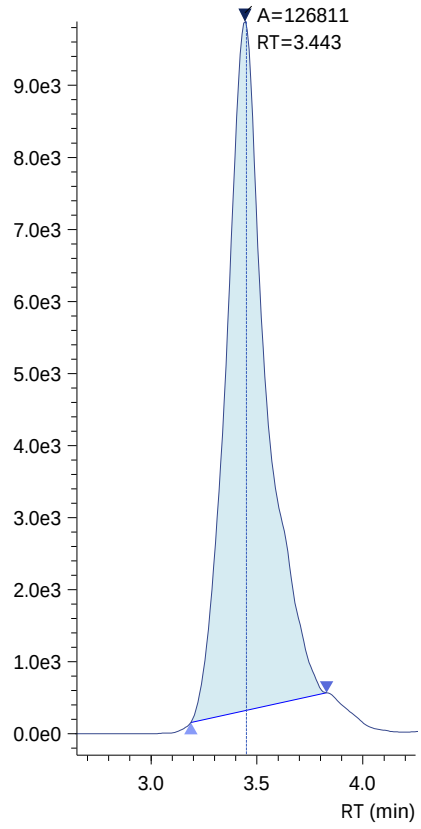
R1 101.00>85.00 (-) A=2006 3.68e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.89e3



Insight Report

Printed at 6/26/2024 11:57:40 AM

CCV

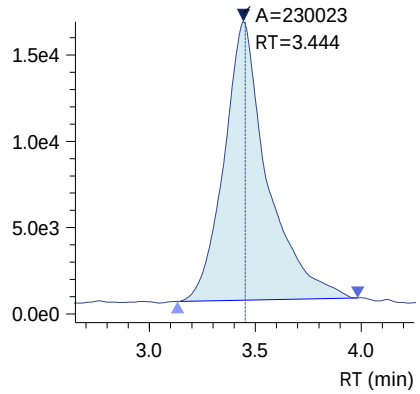
Sample ID: CCV
Date Acquired: 6/24/2024 2:41:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.444	230023	169981	9.2683	ng/mL	101.00 >85.00	32.22	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.438	169981	169981	1.0000	ng/mL	----	----	

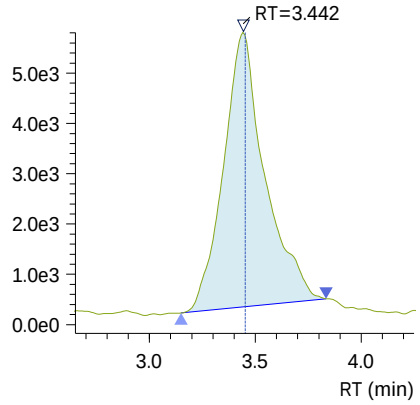
Perchlorate

Conc 9.2683
R#1 32.22 (35.24)

Q 99.00>83.00 (-) 1.69e4



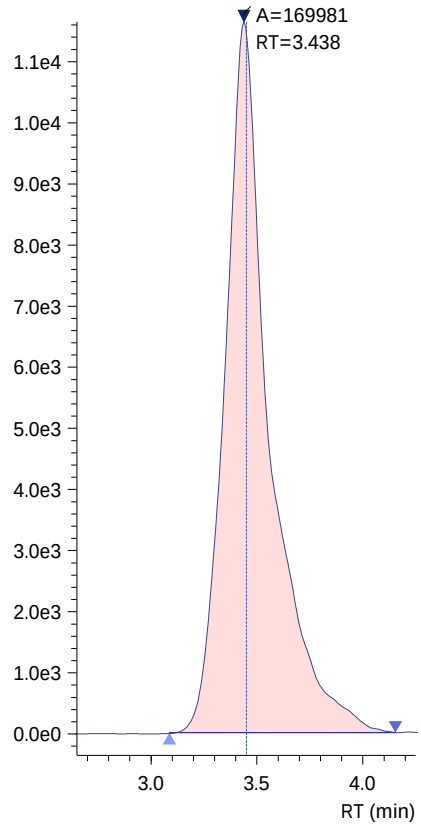
R1 101.00>85.00 (-) A=74112 5.81e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.17e4



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

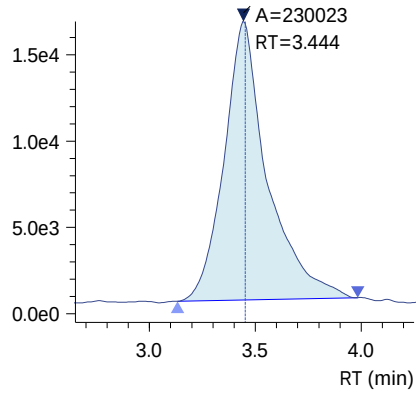
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 2:41:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-029.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

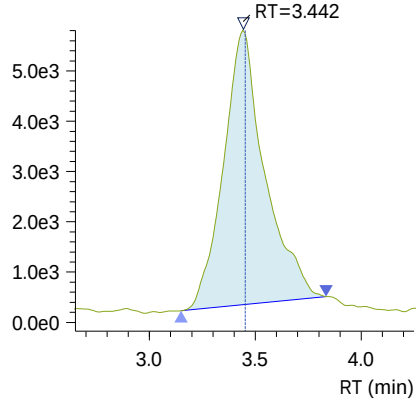
Perchlorate

Conc 10.4108
R#1 32.22 (35.24)

Q 99.00>83.00 (-) 1.69e4



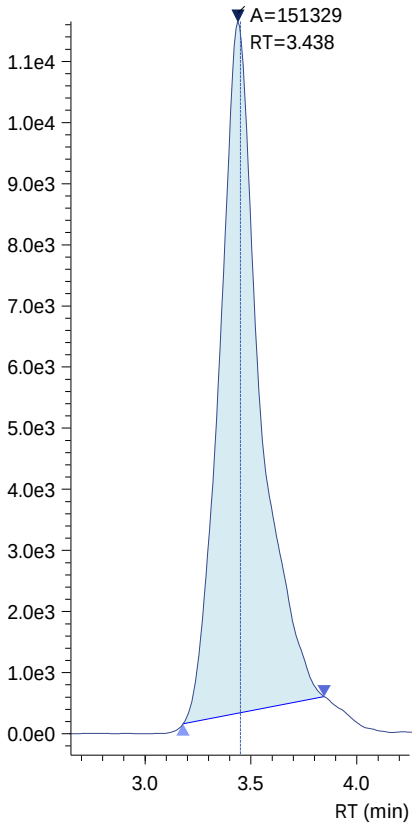
R1 101.00>85.00 (-) A=74112 5.81e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.17e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

IB

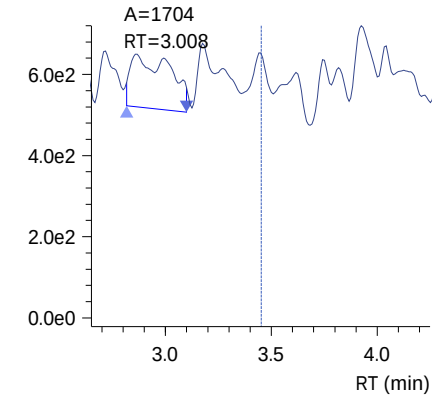
Sample ID: IB
Date Acquired: 6/24/2024 2:47:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-030.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	183389	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	M	3.439	183389	183389	1.0000	ng/mL	----	----	

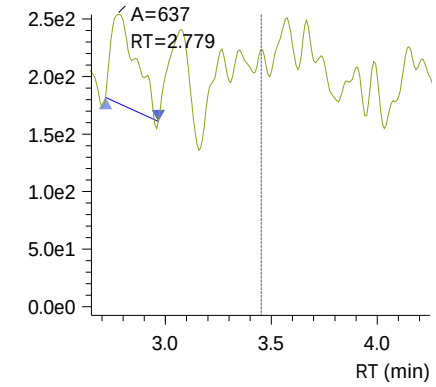
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.20e2



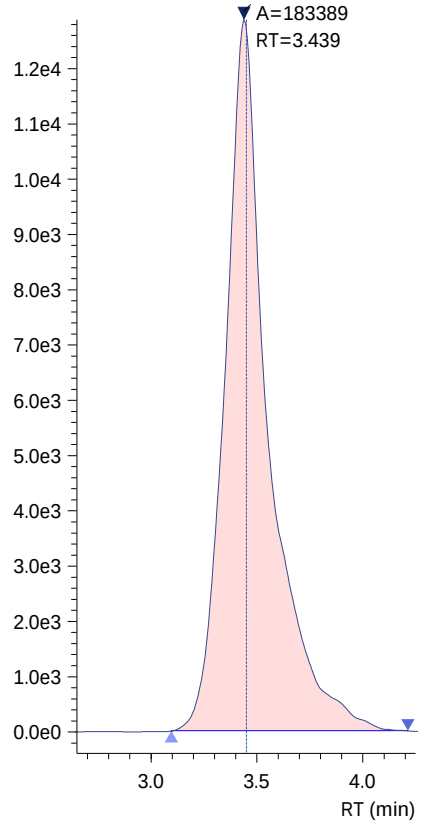
R1 101.00>85.00 (-) 2.54e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.29e4



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

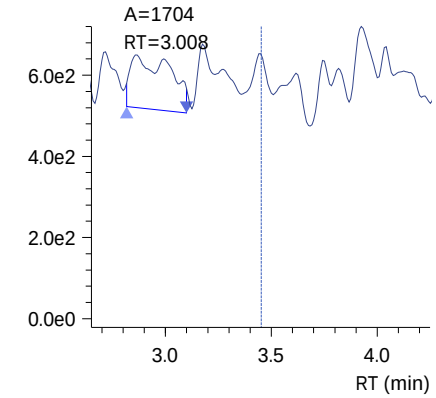
IB

Sample ID: IB
Date Acquired: 6/24/2024 2:47:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-030.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

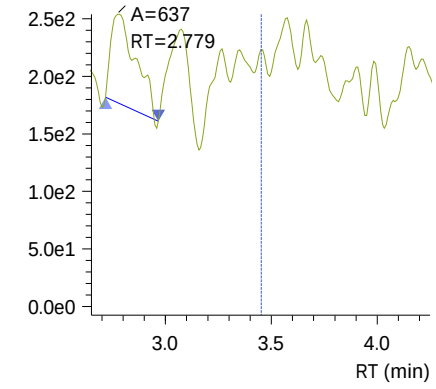
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.20e2



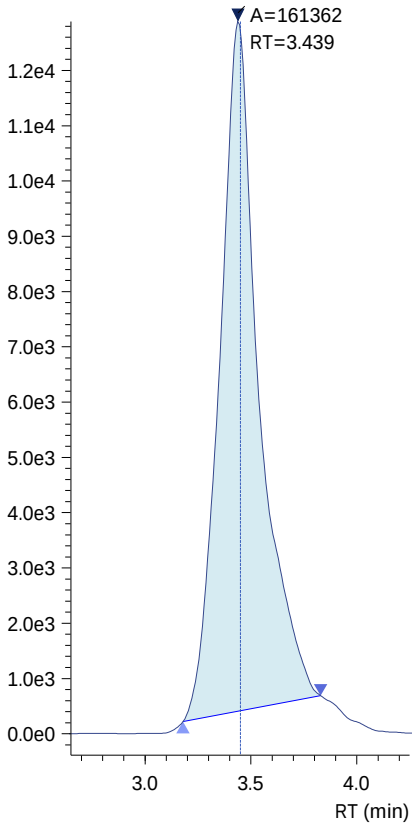
R1 101.00>85.00 (-) 2.54e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.29e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

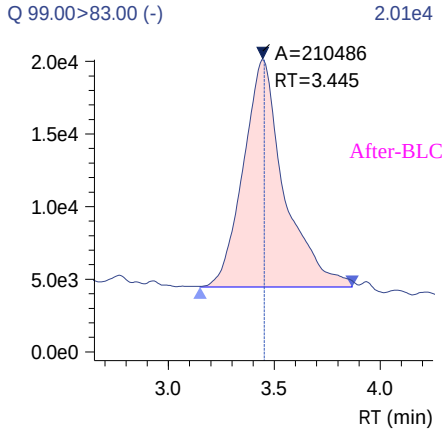
CCV

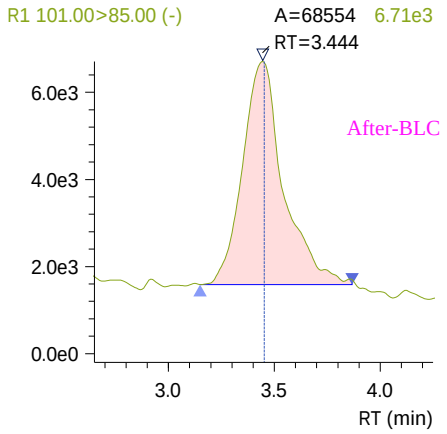
Sample ID: CCV
Date Acquired: 6/24/2024 3:47:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.445	210486	160199	8.9990	ng/mL	101.00 >85.00	32.57	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.436	160199	160199	1.0000	ng/mL	----	----	

Perchlorate

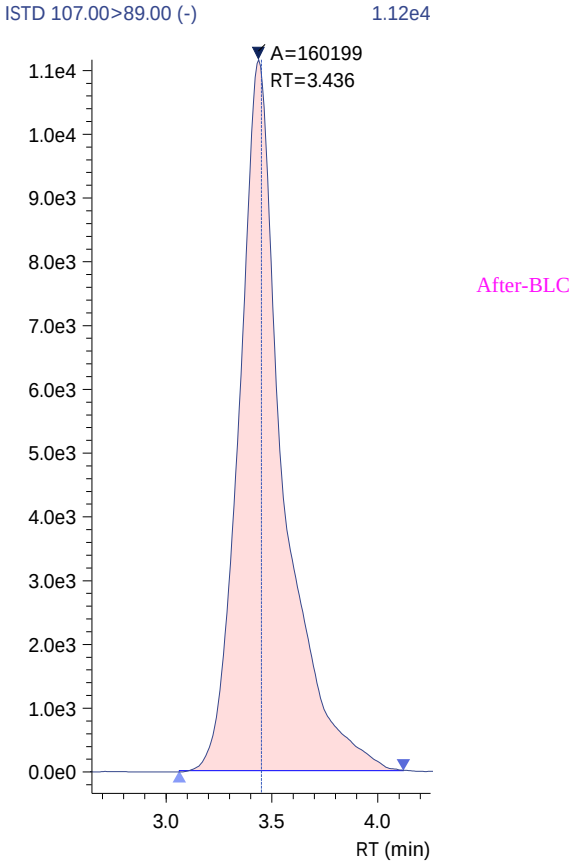
Conc 8.9990
R#1 32.57 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

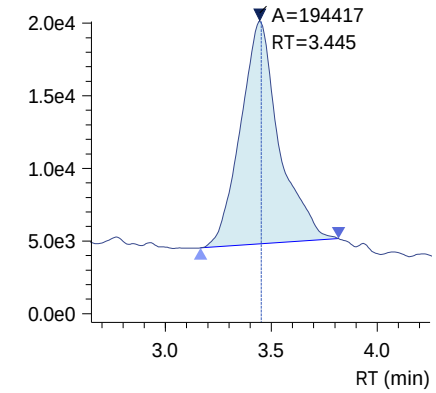
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 3:47:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-041.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

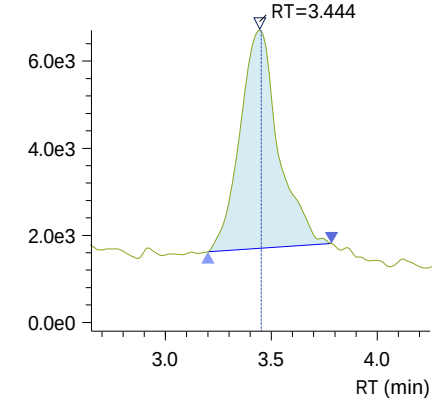
Perchlorate

Conc 9.4579
R#1 32.58 (35.24)

Q 99.00>83.00 (-) 2.01e4



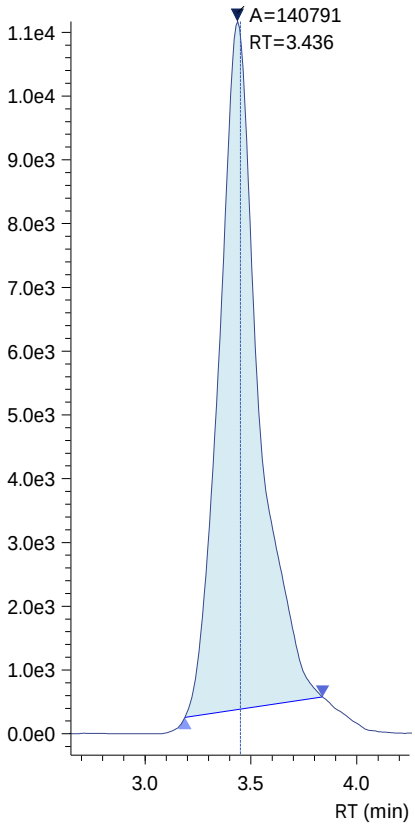
R1 101.00>85.00 (-) A=63331 6.71e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.12e4



Insight Report

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IB

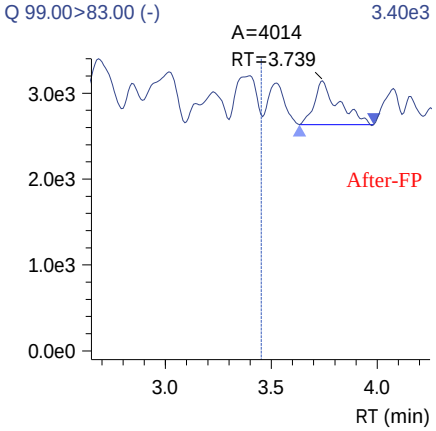
Sample ID: IB
Date Acquired: 6/24/2024 3:53:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-042.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	170279	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.438	170279	170279	1.0000	ng/mL	----	----	

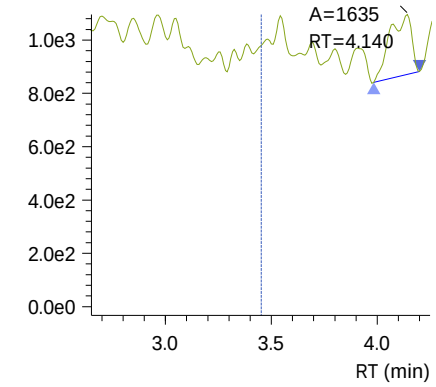
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 3.40e3



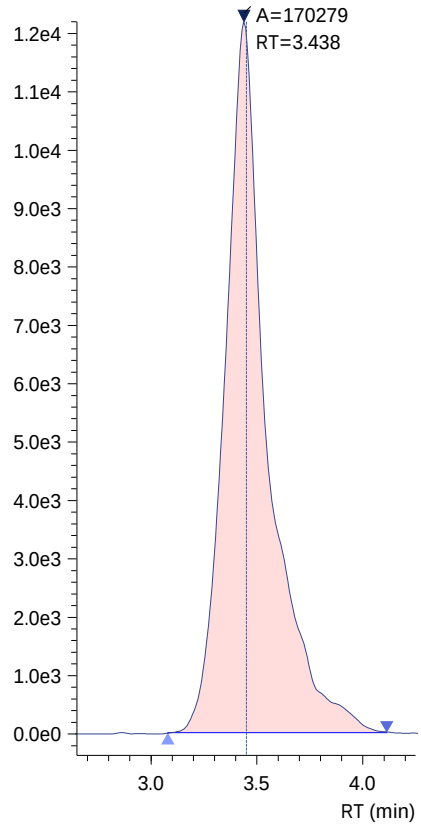
R1 101.00>85.00 (-) 1.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.22e4



Insight Report

Printed at 6/26/2024 11:58:29 AM

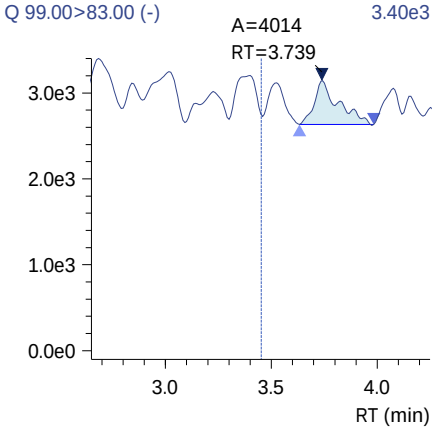
IB

Sample ID: IB
Date Acquired: 6/24/2024 3:53:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-042.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

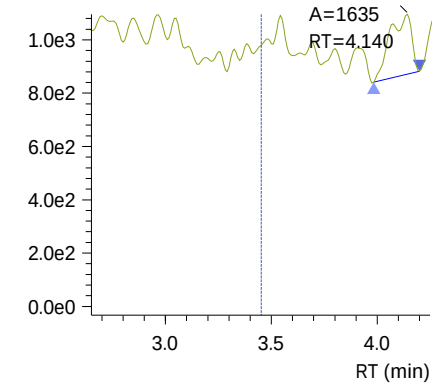
Perchlorate

Conc 0.1852
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 3.40e3



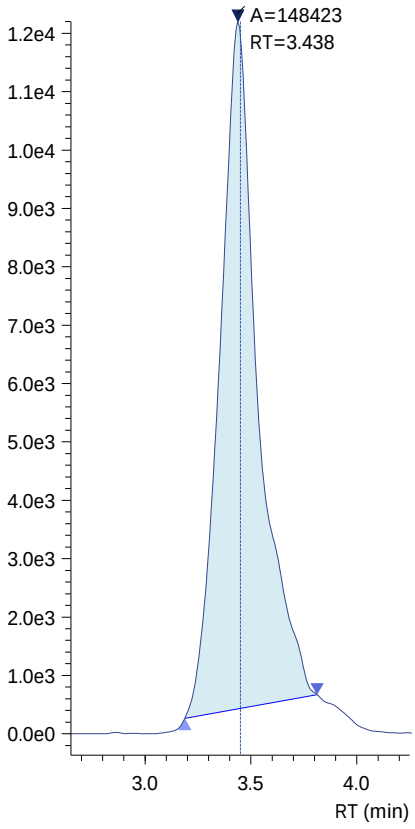
R1 101.00>85.00 (-) 1.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.22e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

E2400715-003

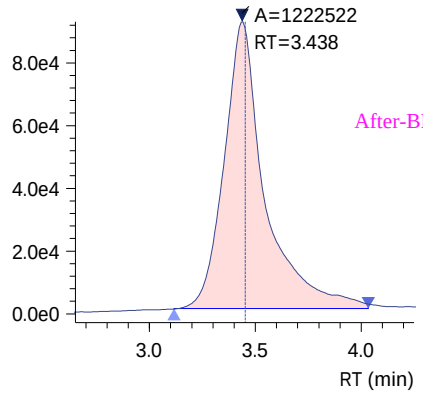
Sample ID: E2400715-003
Date Acquired: 6/24/2024 4:04:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-044.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.438	12225	192074	43.5	ng/mL	101.00	34.26	23.32
			22		933		>85.00		-42.73
Sodium Perchlorate -18O4_IS	M	3.434	192074	192074	1.0000	ng/mL	----	----	

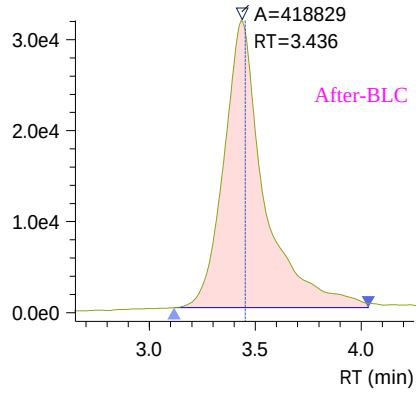
Perchlorate

Conc 43.5933
R#1 34.26 (35.24)

Q 99.00>83.00 (-) 9.31e4



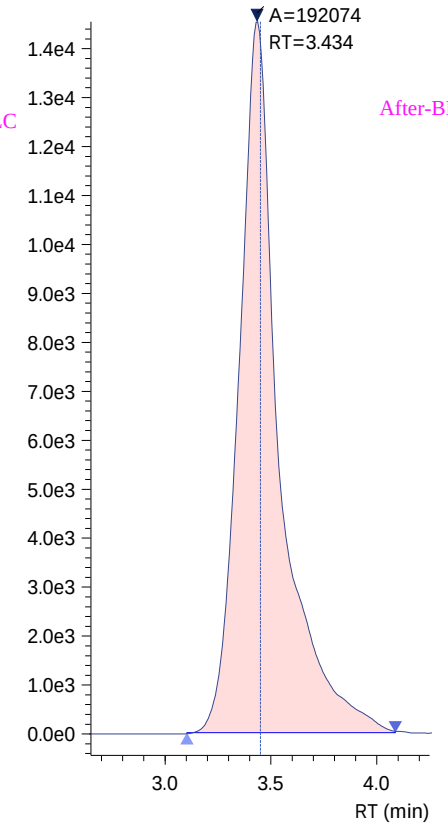
R1 101.00>85.00 (-) 3.21e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



Insight Report

Printed at 6/26/2024 11:58:29 AM

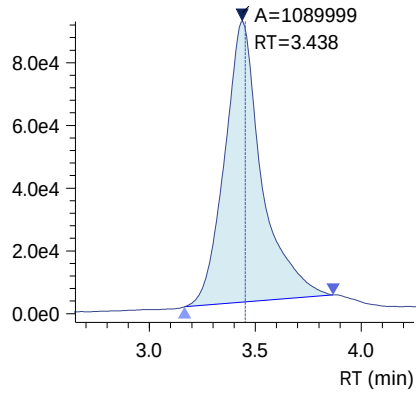
E2400715-003

Sample ID: E2400715-003
Date Acquired: 6/24/2024 4:04:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-044.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 5

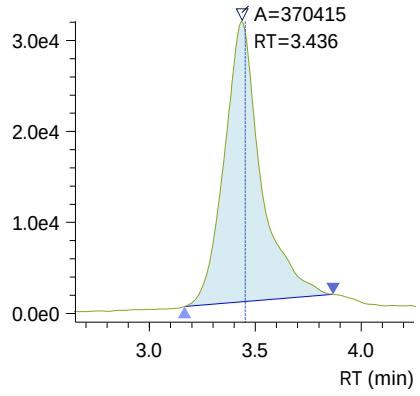
Perchlorate

Conc 44.2863
R#1 33.98 (35.24)

Q 99.00>83.00 (-) 9.31e4



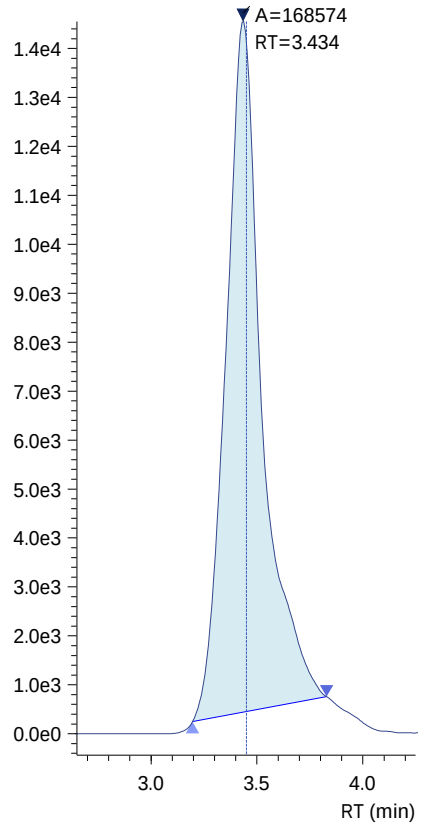
R1 101.00>85.00 (-) 3.21e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

E2400715-006

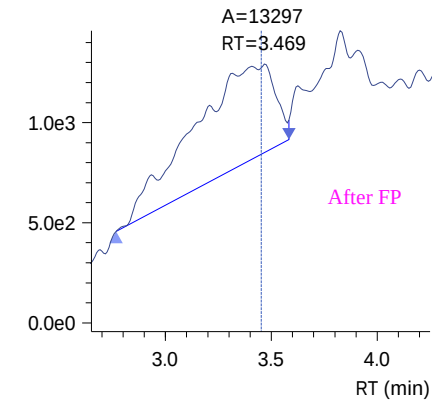
Sample ID: E2400715-006
Date Acquired: 6/24/2024 4:21:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-047.lcd
Vial: 34 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	158540	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	Auto	3.432	158540	158540	1.0000	ng/mL	----	----	

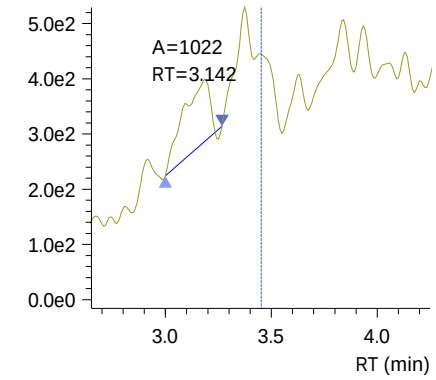
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.46e3



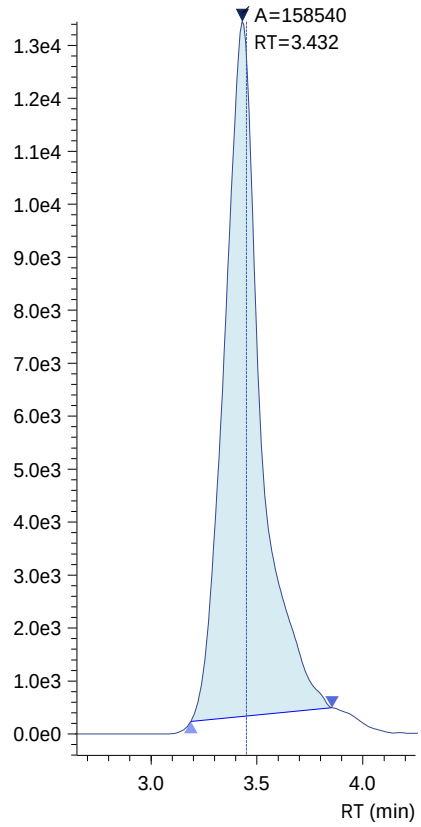
R1 101.00>85.00 (-) 5.29e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.34e4



Insight Report

Printed at 6/26/2024 11:58:29 AM

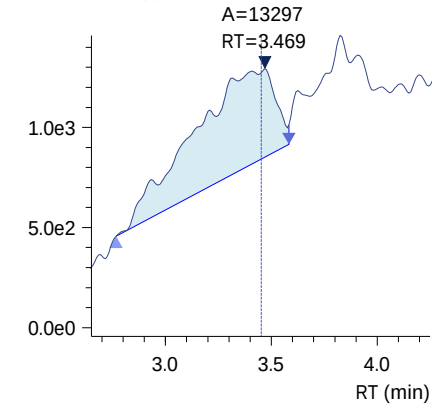
E2400715-006

Sample ID: E2400715-006
Date Acquired: 6/24/2024 4:21:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-047.lcd
Vial: 34 | Inj. Volume: 10.0000uL | Tray: 5

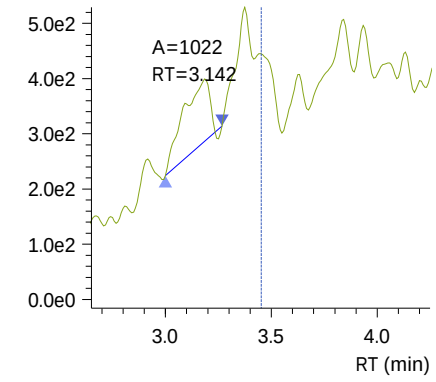
Perchlorate

Conc 0.5745
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.46e3



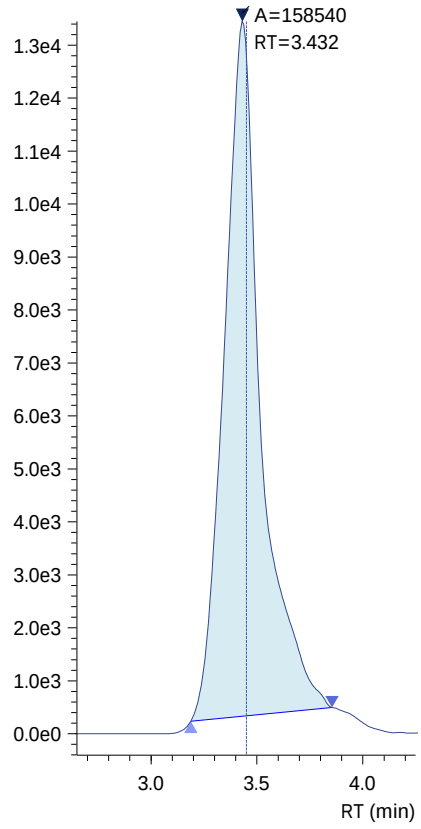
R1 101.00>85.00 (-) 5.29e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.34e4



Insight Report

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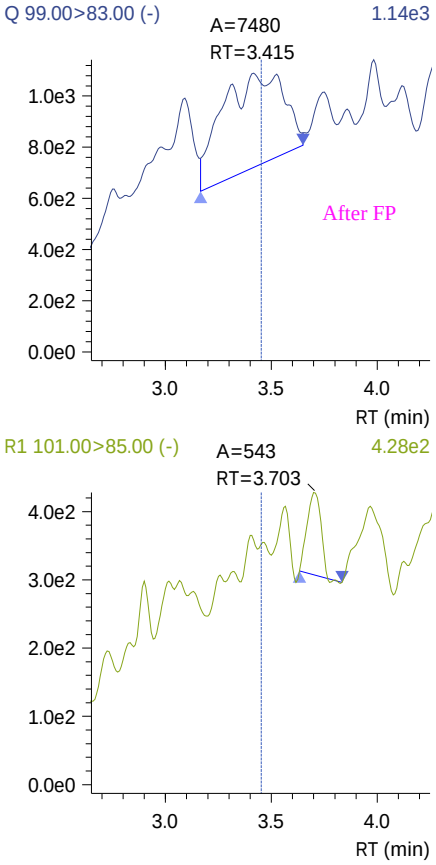
E2400715-008

Sample ID: E2400715-008
Date Acquired: 6/24/2024 4:32:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-049.lcd
Vial: 36 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	161267	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.439	161267	161267	1.0000	ng/mL	----	----	

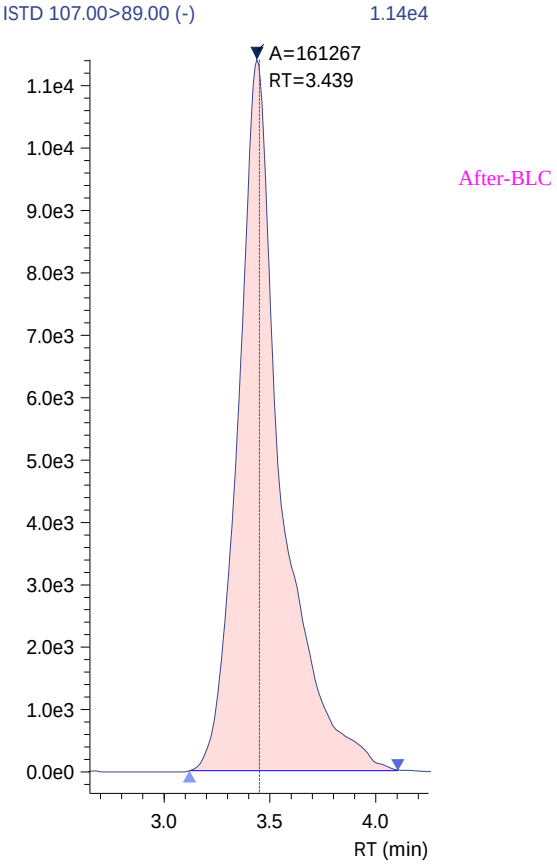
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

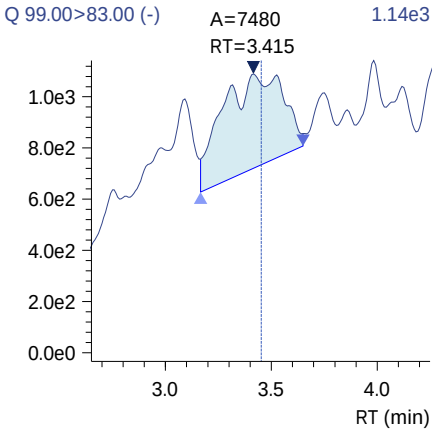
Printed at 6/26/2024 11:58:29 AM

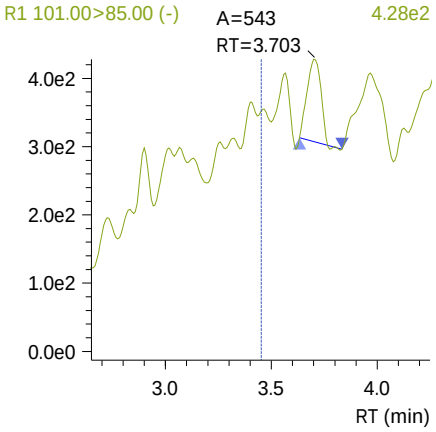
E2400715-008

Sample ID: E2400715-008
Date Acquired: 6/24/2024 4:32:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-049.lcd
Vial: 36 | Inj. Volume: 10.0000uL | Tray: 5

Perchlorate

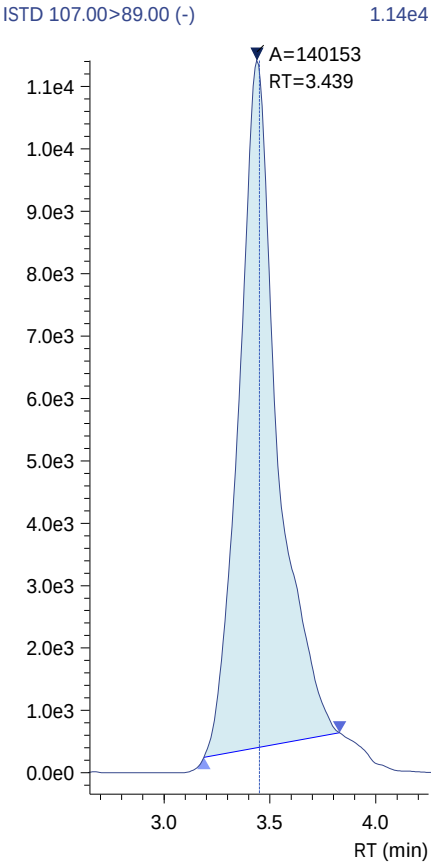
Conc 0.3655
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

CCV

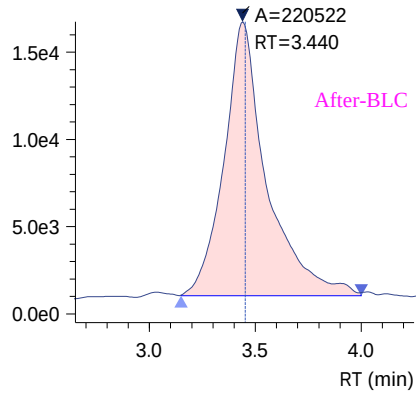
Sample ID: CCV
Date Acquired: 6/24/2024 4:54:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-053.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.440	220522	158767	9.5131	ng/mL	101.00 >85.00	32.90	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.437	158767	158767	1.0000	ng/mL	----	----	

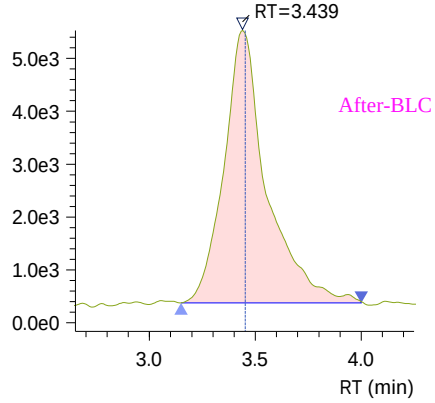
Perchlorate

Conc 9.5131
R#1 32.90 (35.24)

Q 99.00>83.00 (-) 1.67e4



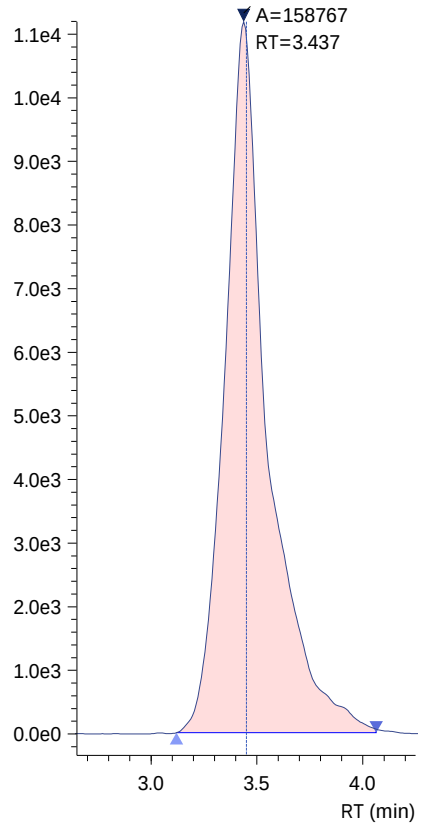
R1 101.00>85.00 (-) A=72554 5.53e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.12e4



After-BLC

Insight Report

Printed at 6/26/2024 11:58:29 AM

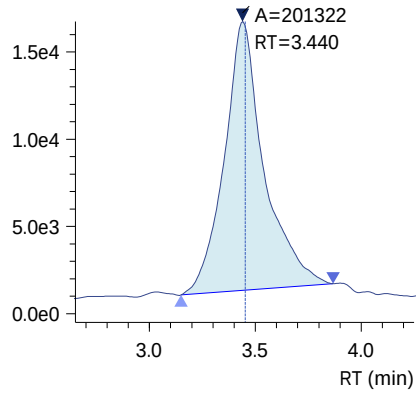
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 4:54:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-053.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

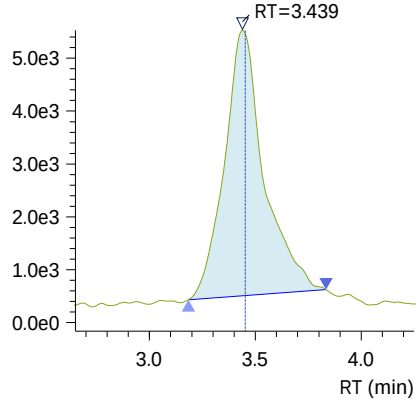
Perchlorate

Conc 9.9593
R#1 32.35 (35.24)

Q 99.00>83.00 (-) 1.67e4



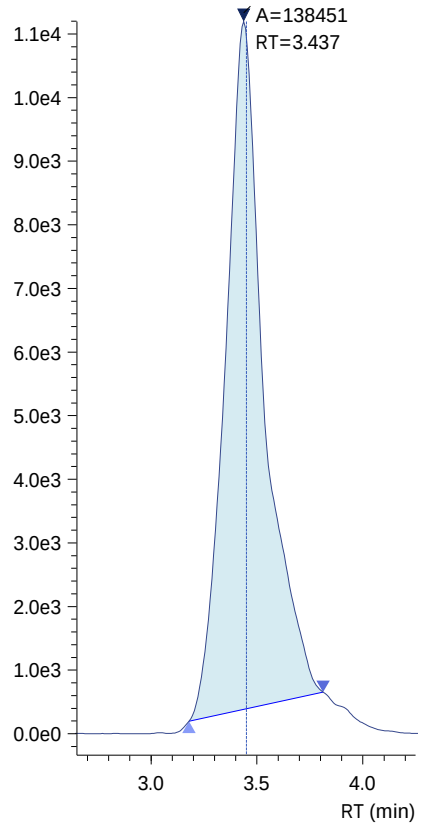
R1 101.00>85.00 (-) A=65135 5.53e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.12e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

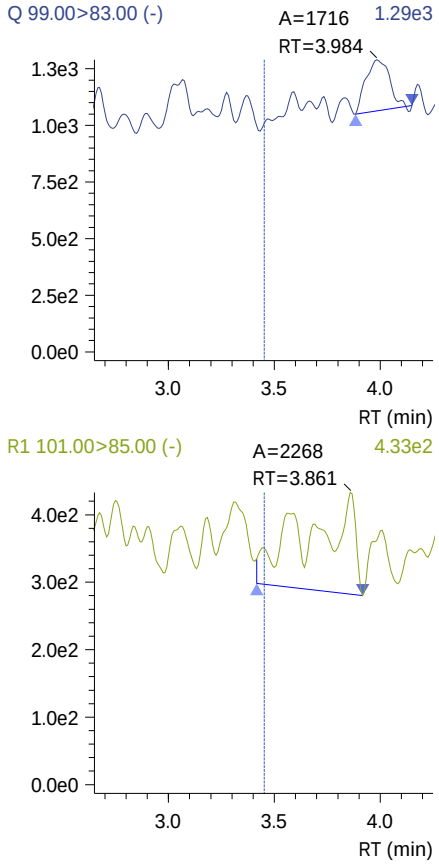
IB

Sample ID: IB
Date Acquired: 6/24/2024 4:59:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-054.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	166008	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	M	3.438	166008	166008	1.0000	ng/mL	----	----	

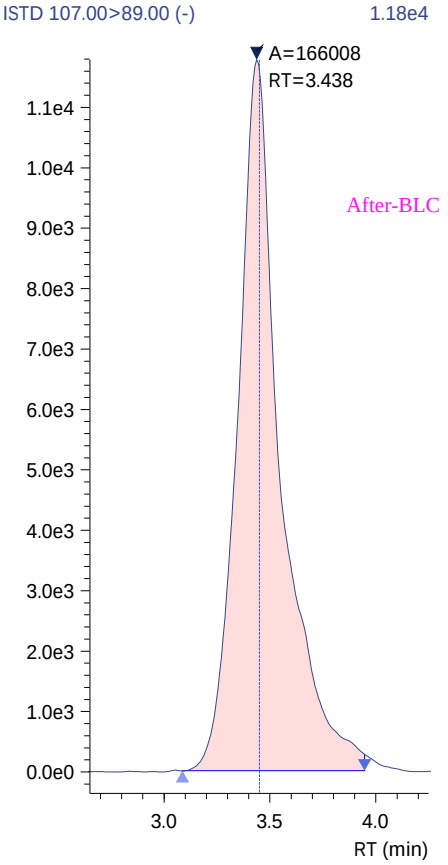
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

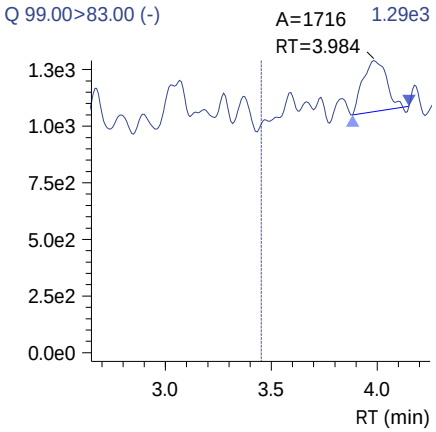
Printed at 6/26/2024 11:58:29 AM

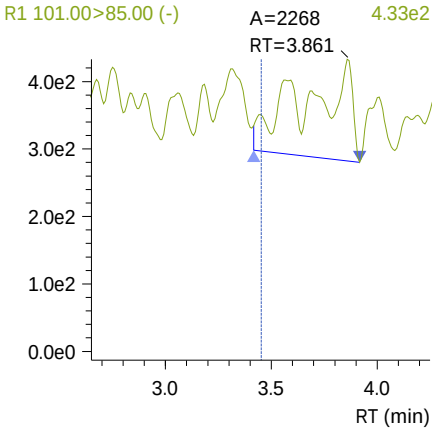
IB

Sample ID: IB
Date Acquired: 6/24/2024 4:59:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-054.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

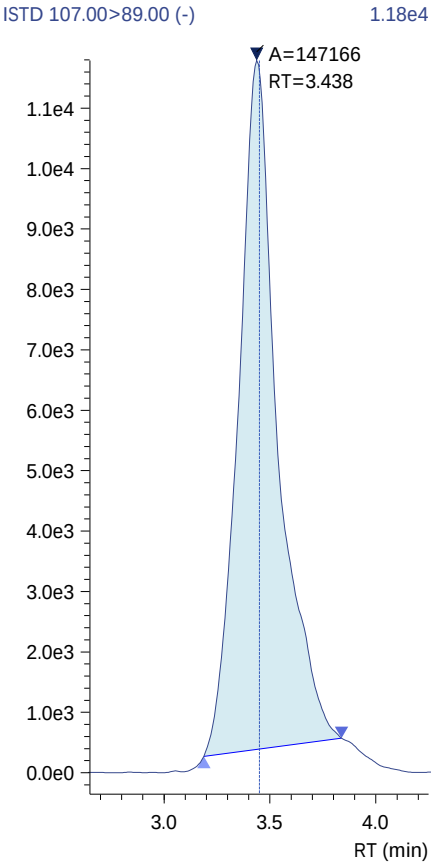
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 12:07:22 PM

Method File: I:\LCMS01\DATA\20240625\20240625.lcm
Project File: I:\LCMS01\DATA\20240625\20240625.damlp

IB

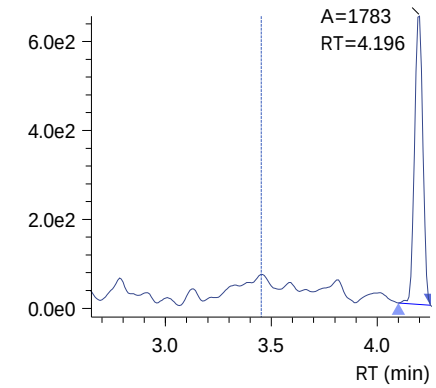
Sample ID: IB
Date Acquired: 6/25/2024 1:21:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	212789	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.445	212789	212789	1.0000	ng/mL	----	----	

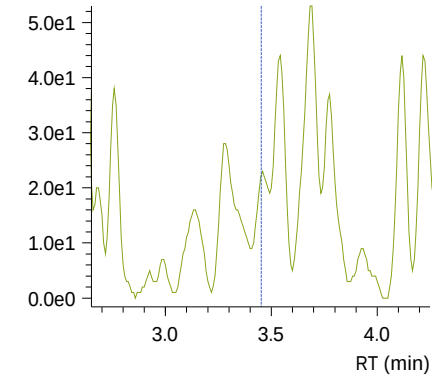
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.57e2



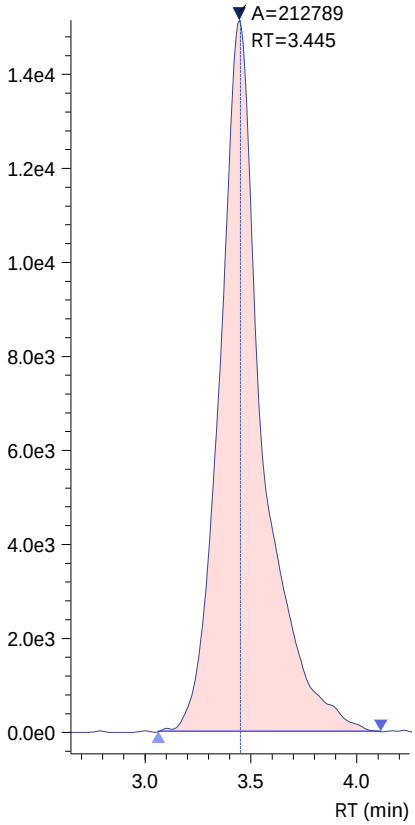
R1 101.00>85.00 (-) 5.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.52e4



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

Method File: I:\LCMS01\DATA\20240625\20240625.lcm
Project File: I:\LCMS01\DATA\20240625\20240625.damlp

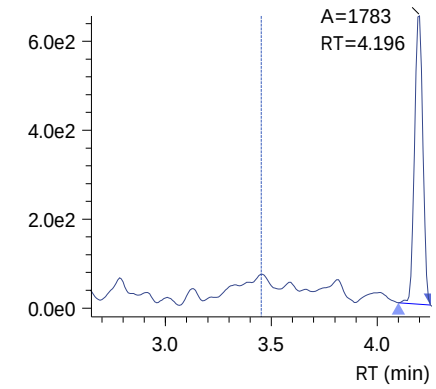
IB

Sample ID: IB
Date Acquired: 6/25/2024 1:21:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

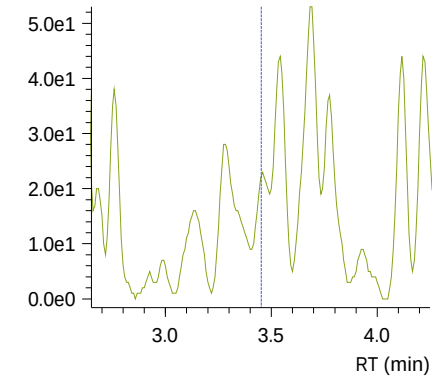
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.57e2



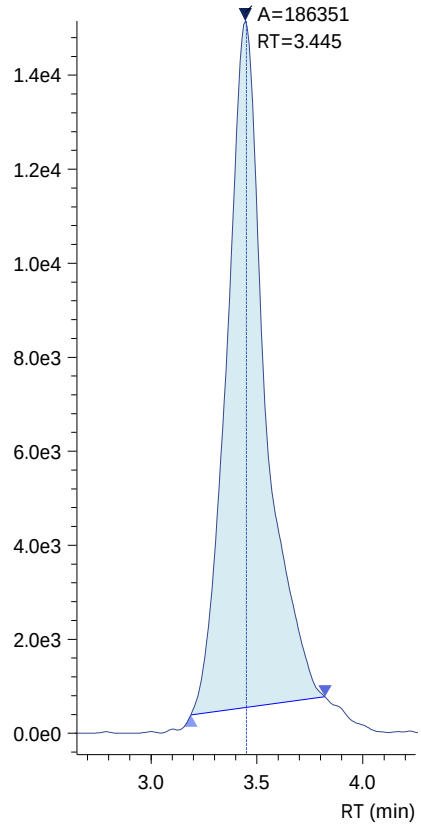
R1 101.00>85.00 (-) 5.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.52e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

LODV

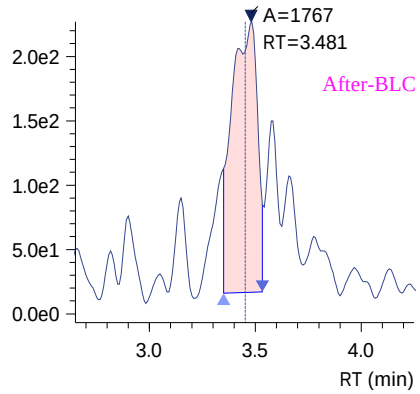
Sample ID: LODV
Date Acquired: 6/25/2024 1:27:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.481	1767	226390	0.0534	ng/mL	101.00 >85.00	40.24	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.443	226390	226390	1.0000	ng/mL	----	----	

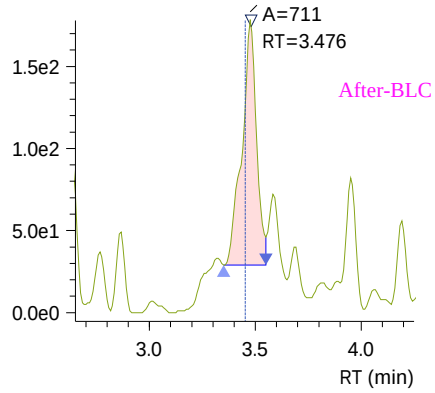
Perchlorate

Conc 0.0534
R#1 40.24 (35.24)

Q 99.00>83.00 (-) 2.27e2



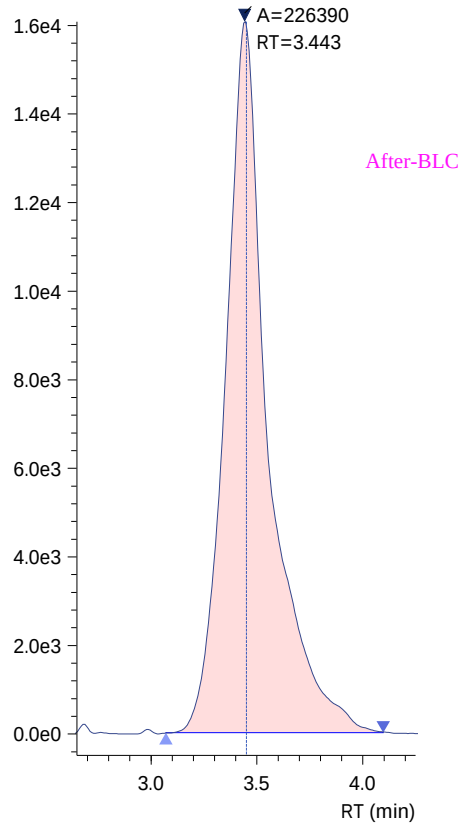
R1 101.00>85.00 (-) 1.78e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 6/26/2024 12:08:01 PM

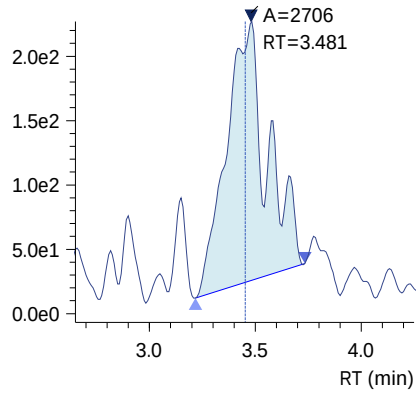
LODV

Sample ID: LODV
Date Acquired: 6/25/2024 1:27:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

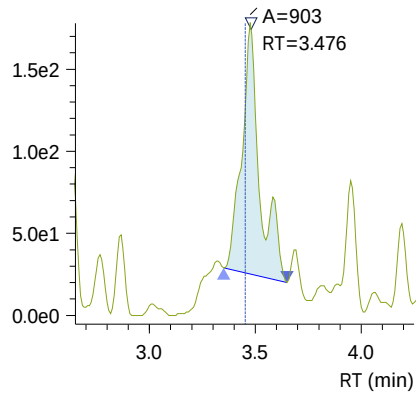
Perchlorate

Conc 0.0918
R#1 33.36 (35.24)

Q 99.00>83.00 (-) 2.27e2



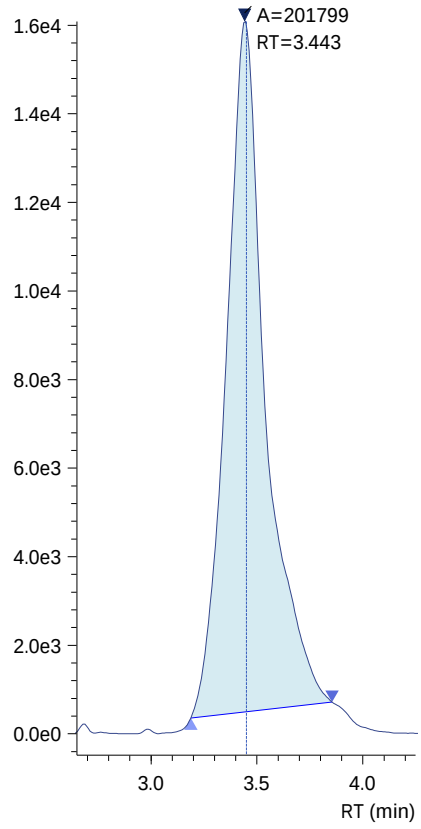
R1 101.00>85.00 (-) 1.78e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

IB

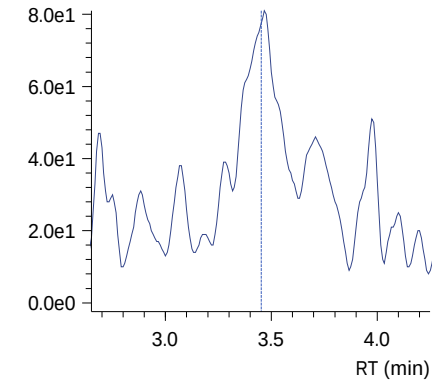
Sample ID: IB
Date Acquired: 6/25/2024 1:38:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-004.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	214864	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.439	214864	214864	1.0000	ng/mL	----	----	

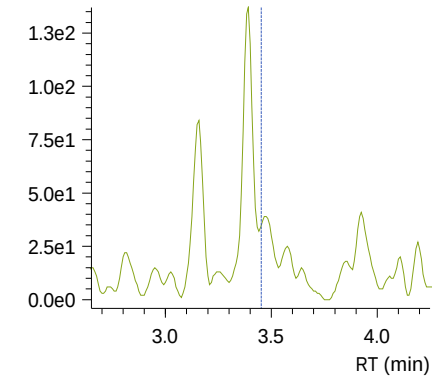
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.10e1



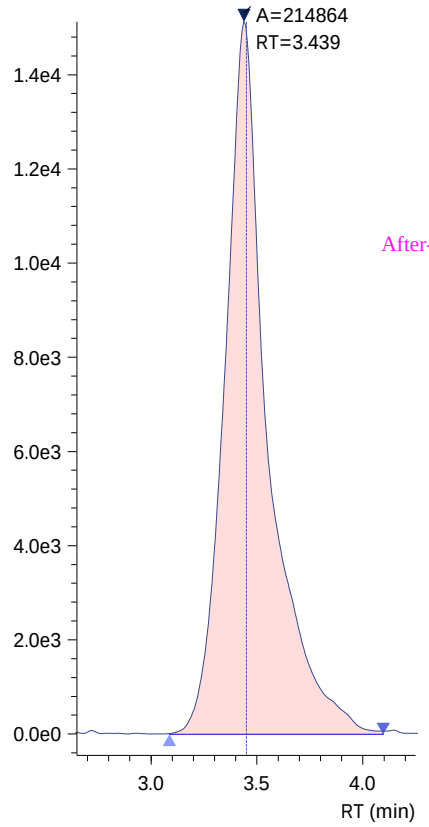
R1 101.00>85.00 (-) 1.37e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

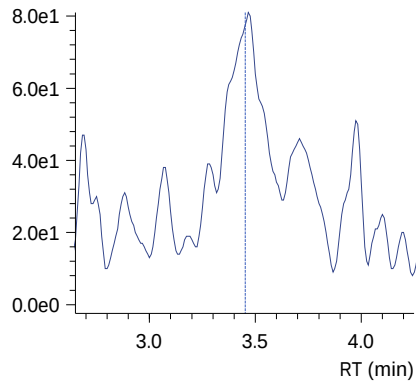
IB

Sample ID: IB
Date Acquired: 6/25/2024 1:38:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-004.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

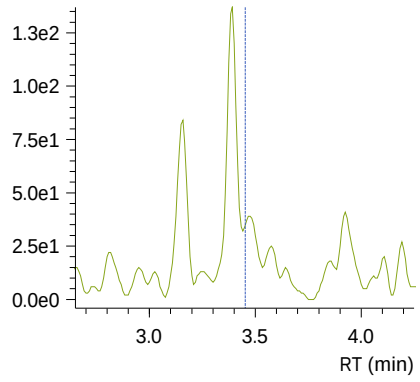
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.10e1



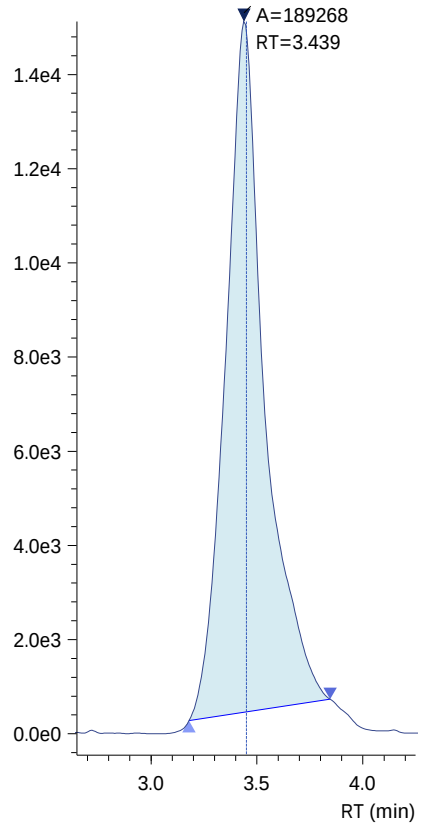
R1 101.00>85.00 (-) 1.37e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

CCV

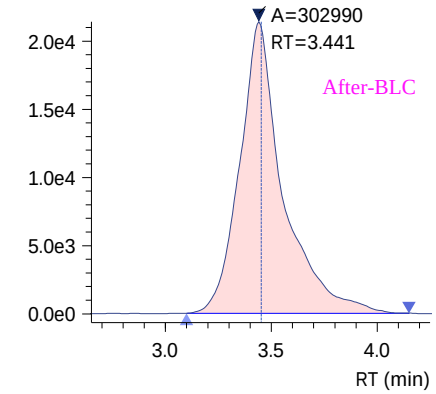
Sample ID: CCV
Date Acquired: 6/25/2024 1:44:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.441	302990	212258	9.7768	ng/mL	101.00 >85.00	34.11	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.438	212258	212258	1.0000	ng/mL	----	----	

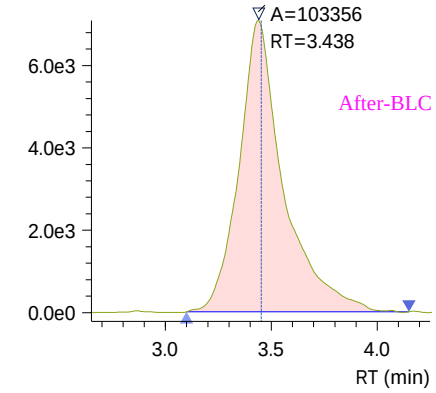
Perchlorate

Conc 9.7768
R#1 34.11 (35.24)

Q 99.00>83.00 (-) 2.14e4



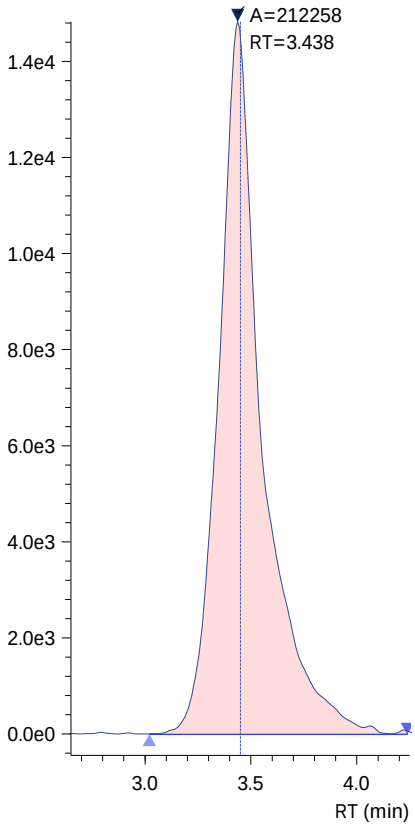
R1 101.00>85.00 (-) 7.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.48e4



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

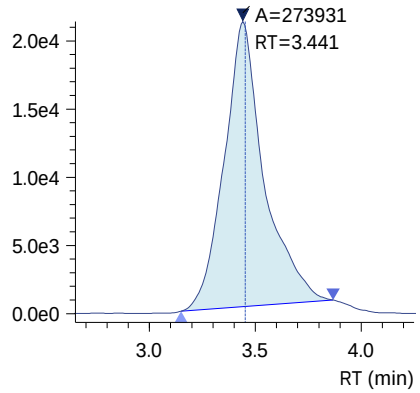
CCV

Sample ID: CCV
Date Acquired: 6/25/2024 1:44:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

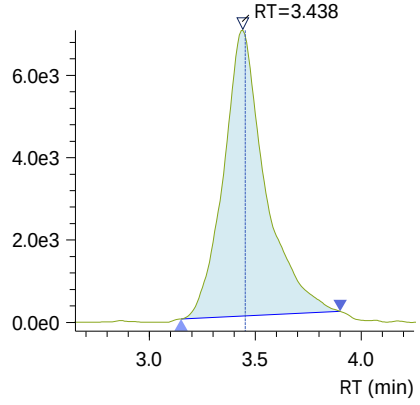
Perchlorate

Conc 10.1561
R#1 34.72 (35.24)

Q 99.00>83.00 (-) 2.14e4



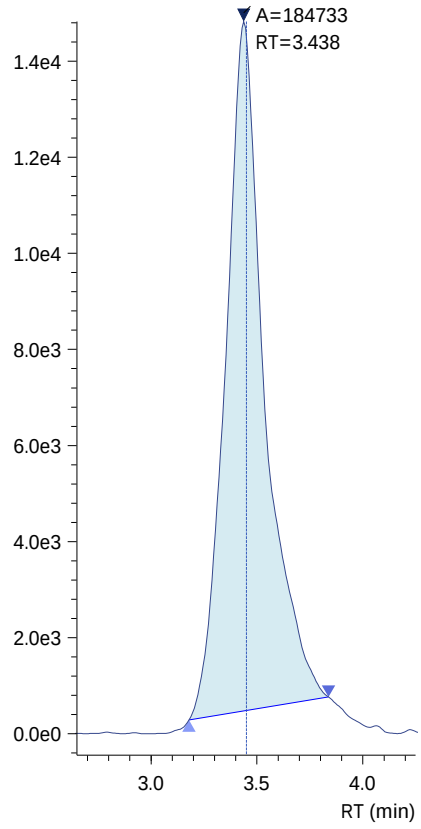
R1 101.00>85.00 (-) A=95103 7.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.48e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

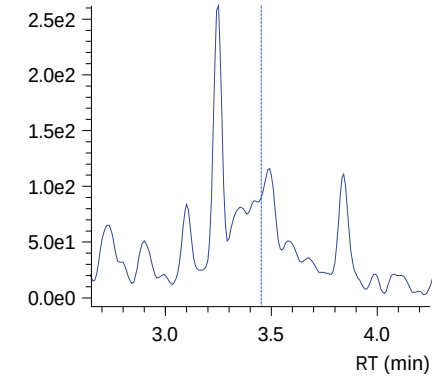
IB

Sample ID: IB
Date Acquired: 6/25/2024 1:49:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

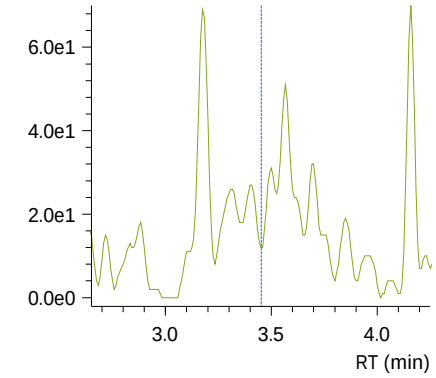
Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	214322	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.438	214322	214322	1.0000	ng/mL	----	----	

Perchlorate

Conc ----
R#1 0.00 (35.24)
Q 99.00>83.00 (-) 2.62e2

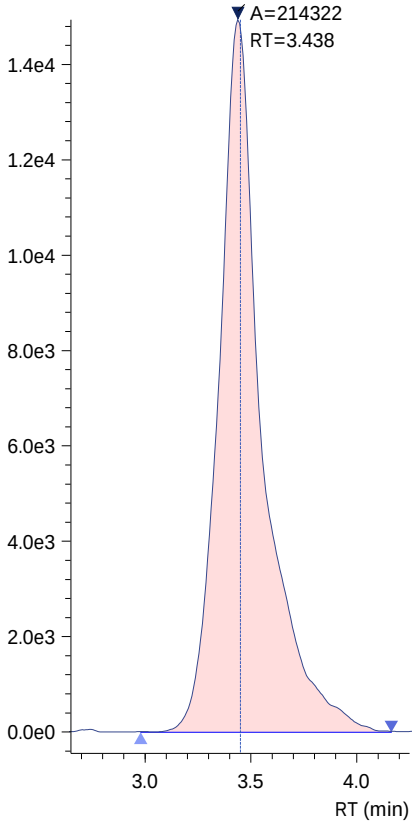


R1 101.00>85.00 (-) 7.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000
ISTD 107.00>89.00 (-) 1.49e4



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

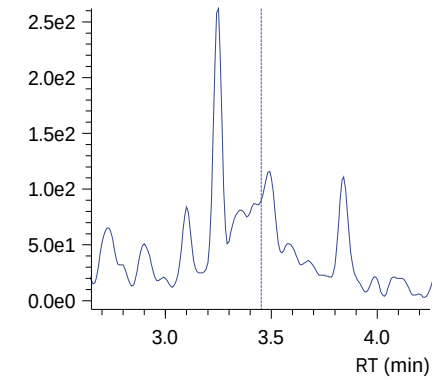
IB

Sample ID: IB
Date Acquired: 6/25/2024 1:49:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

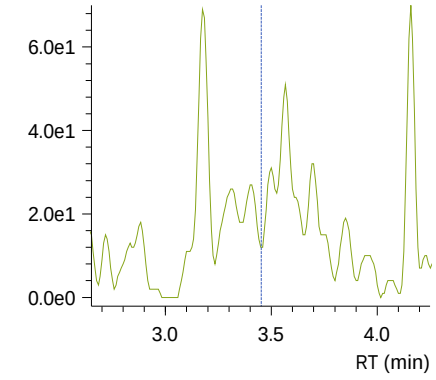
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 2.62e2



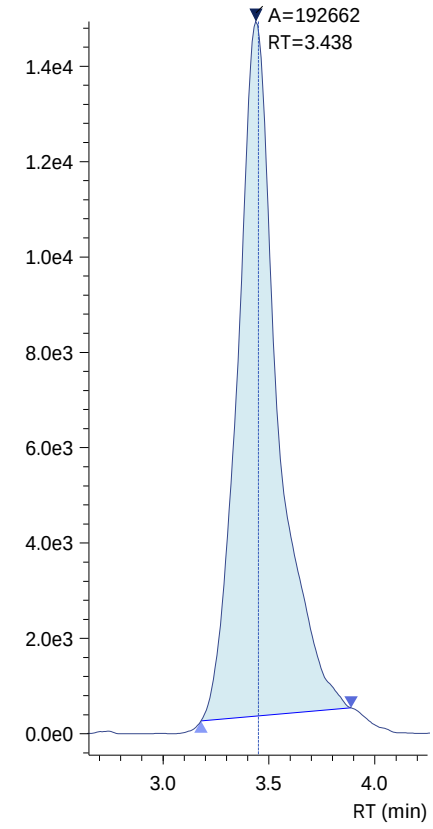
R1 101.00>85.00 (-) 7.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

CCV

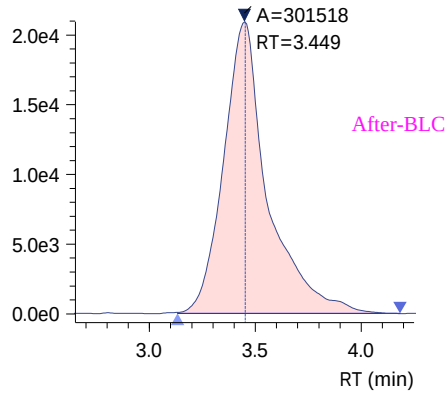
Sample ID: CCV
Date Acquired: 6/25/2024 2:50:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.449	3015 18	203781	10.1 340	ng/mL	101.00 >85.00	33.73	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.439	2037 81	203781	1.0000	ng/mL	----	----	

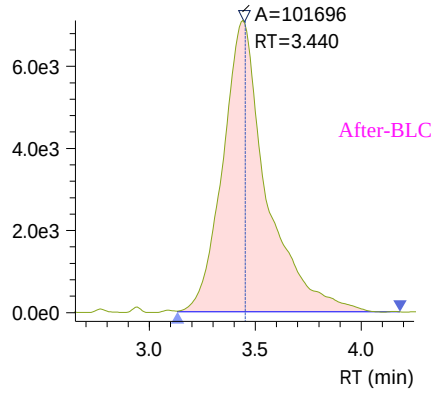
Perchlorate

Conc 10.1340
R#1 33.73 (35.24)

Q 99.00>83.00 (-) 2.10e4



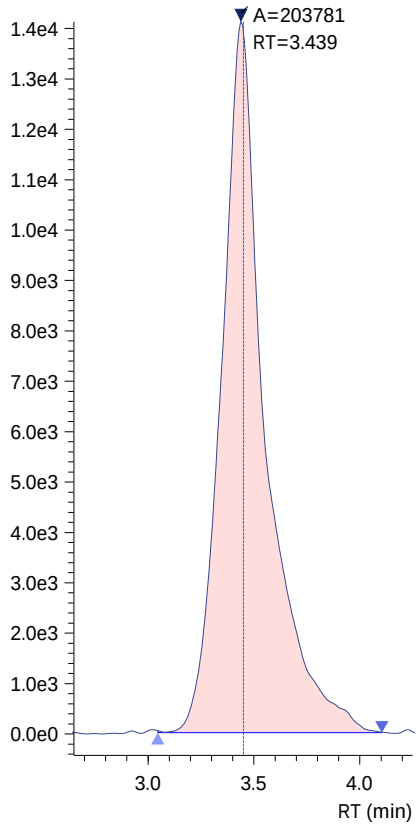
R1 101.00>85.00 (-) 7.12e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

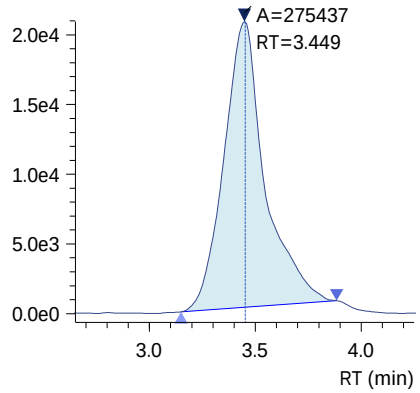
CCV

Sample ID: CCV
Date Acquired: 6/25/2024 2:50:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

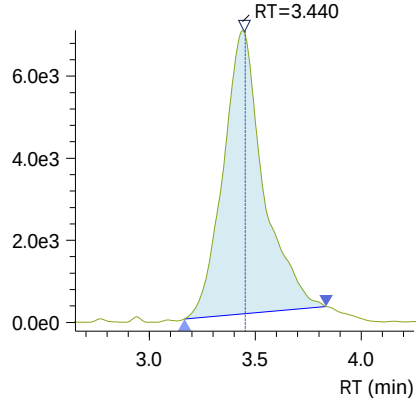
Perchlorate

Conc 10.3518
R#1 33.00 (35.24)

Q 99.00>83.00 (-) 2.10e4



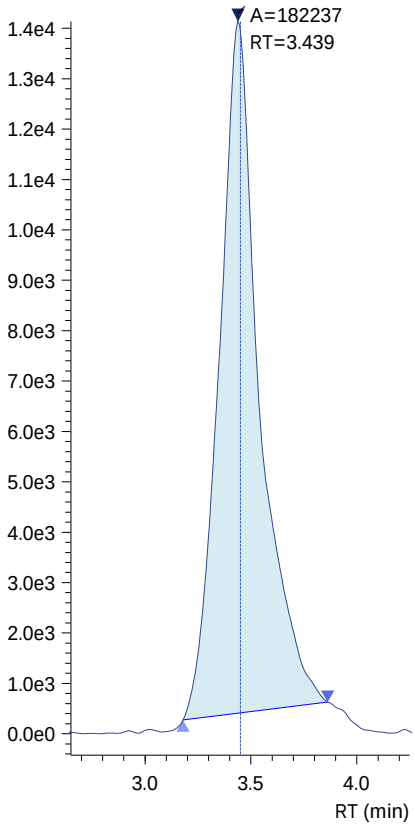
R1 101.00>85.00 (-) A=90906 7.12e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4



Insight Report

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IB

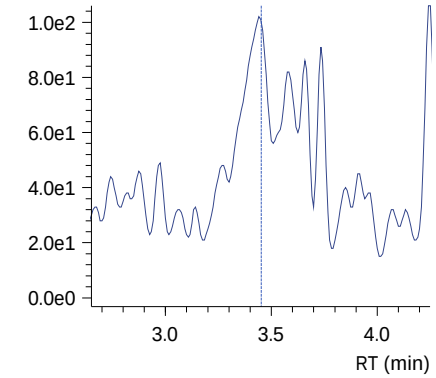
Sample ID: IB
Date Acquired: 6/25/2024 2:56:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	204349	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.435	204349	204349	1.0000	ng/mL	----	----	

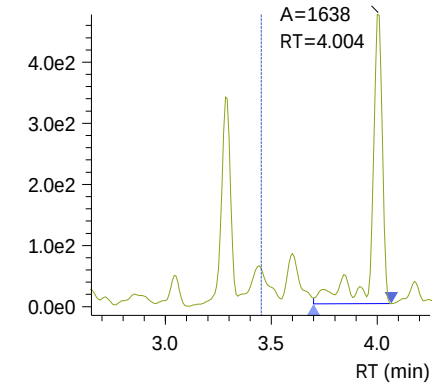
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.06e2



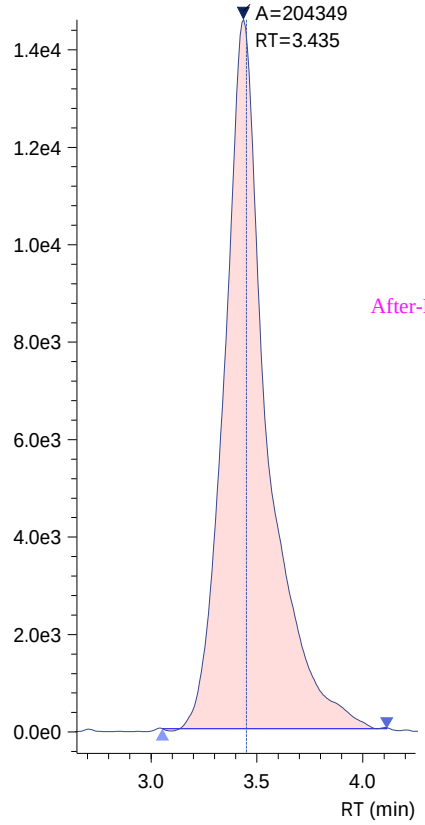
R1 101.00>85.00 (-) 4.78e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

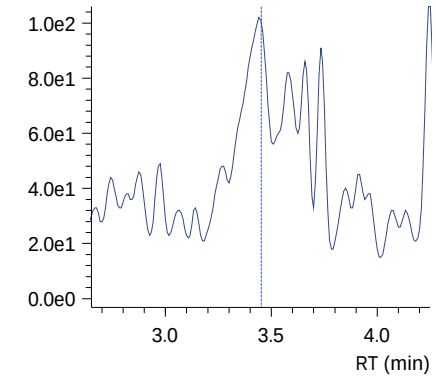
IB

Sample ID: IB
Date Acquired: 6/25/2024 2:56:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

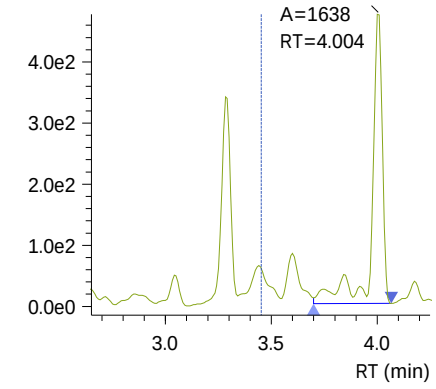
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.06e2



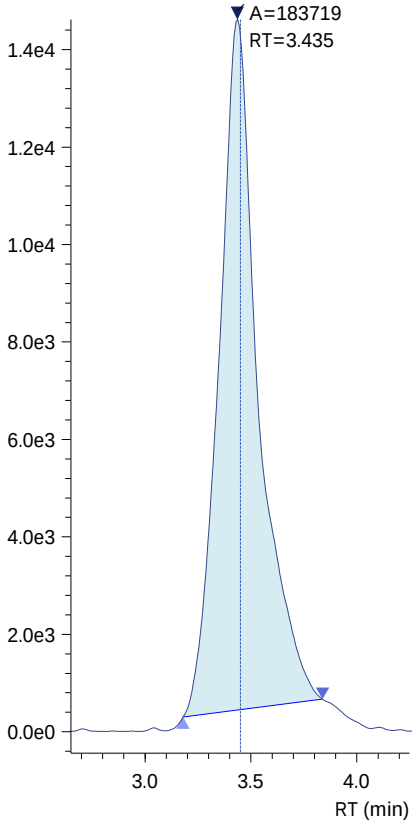
R1 101.00>85.00 (-) 4.78e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

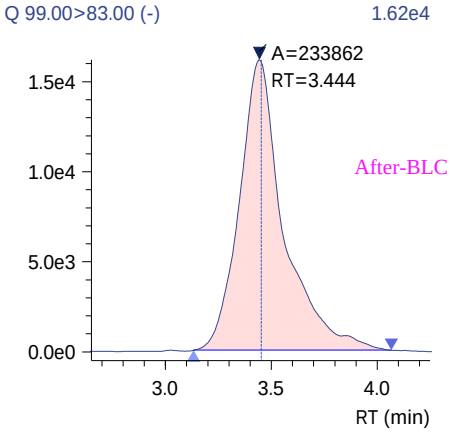
E2400715-001X10000

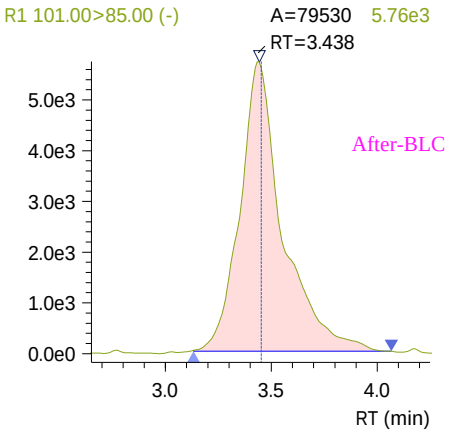
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Date Acquired: 6/25/2024 2:28:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-013.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.444	2338 62	198742	8.0594	ng/mL	101.00 >85.00	34.01	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.438	1987 42	198742	1.0000	ng/mL	----	----	

Perchlorate

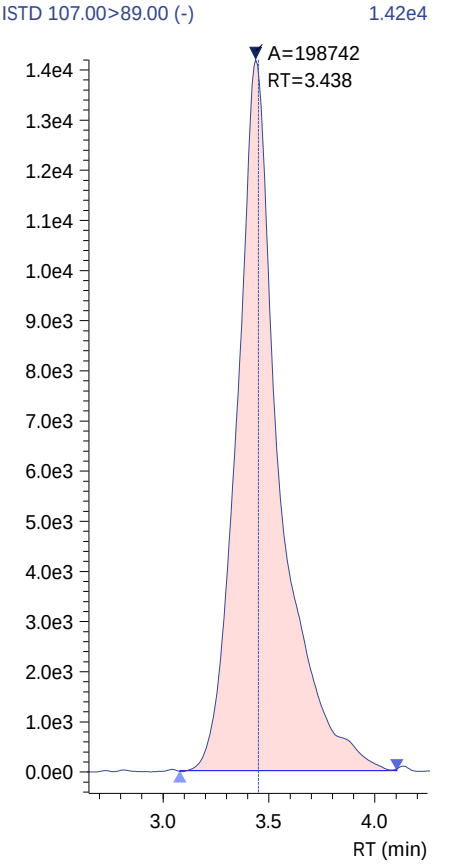
Conc 8.0594
R#1 34.01 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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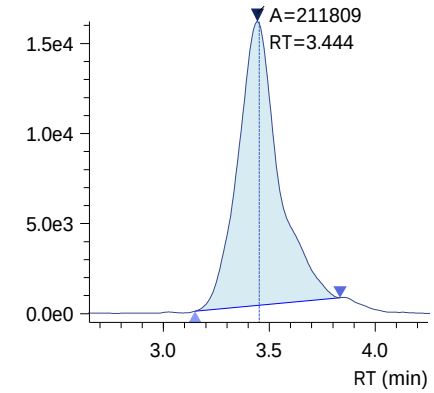
E2400715-001X10000

Sample ID: E2400715-001X10000
Date Acquired: 6/25/2024 2:28:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-013.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 6

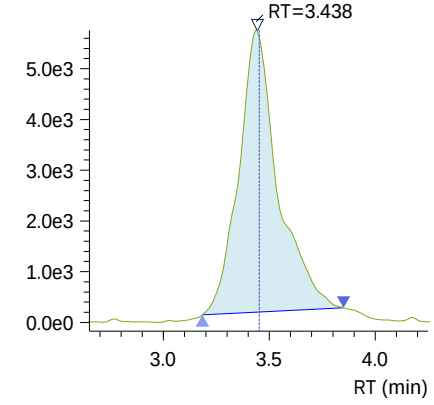
Perchlorate

Conc 8.2108
R#1 33.66 (35.24)

Q 99.00>83.00 (-) 1.62e4



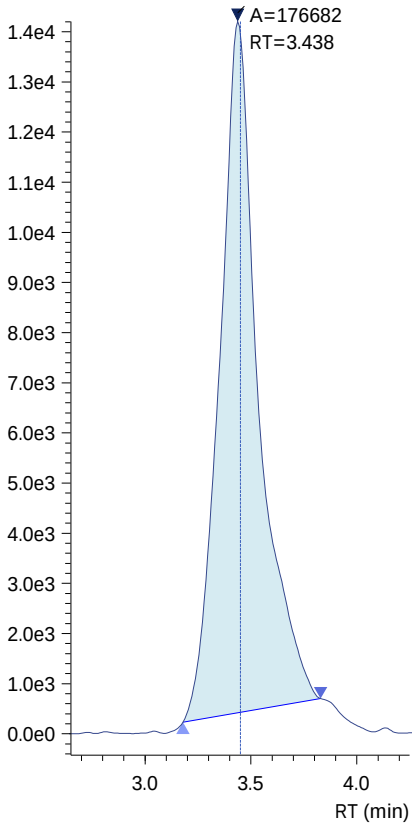
R1 101.00>85.00 (-) A=71288 5.76e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.42e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

E2400715-002X10

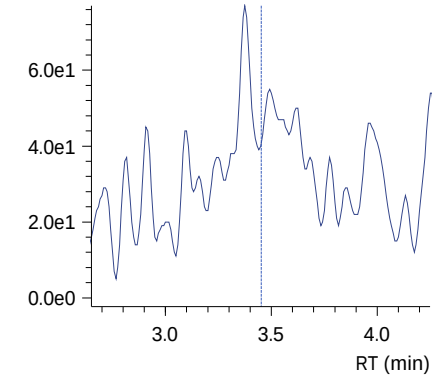
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Date Acquired: 6/25/2024 2:33:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-014.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	229743	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.439	229743	229743	1.0000	ng/mL	----	----	

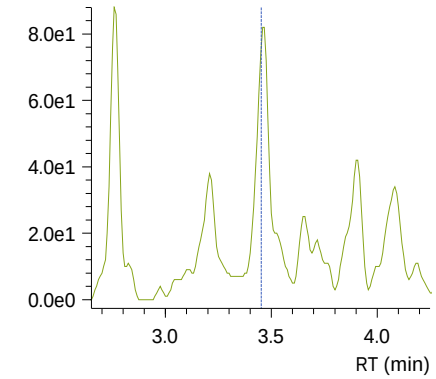
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.70e1



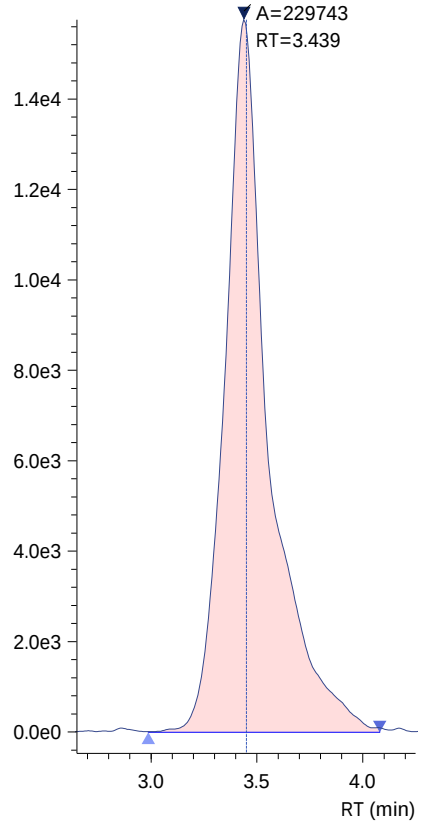
R1 101.00>85.00 (-) 8.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.58e4



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

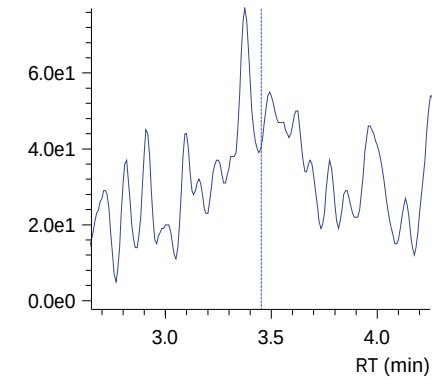
E2400715-002X10

Sample ID: E2400715-002X10
Date Acquired: 6/25/2024 2:33:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-014.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 6

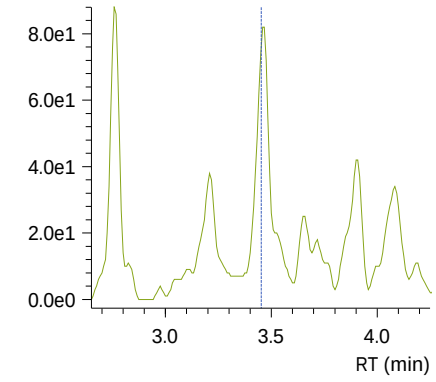
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.70e1



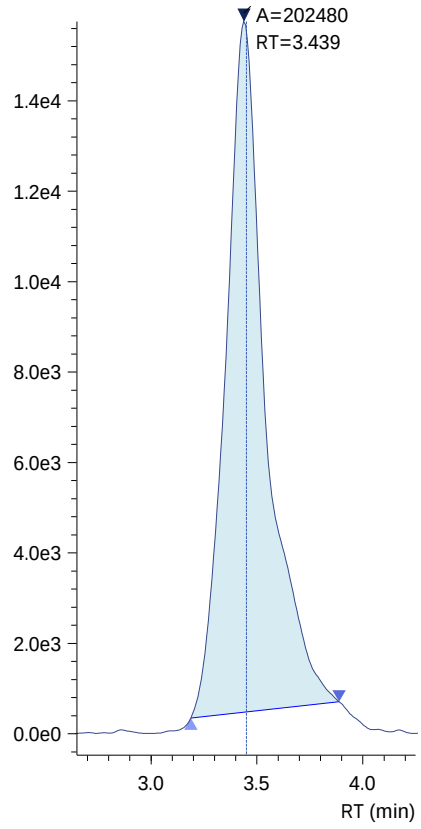
R1 101.00>85.00 (-) 8.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.58e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

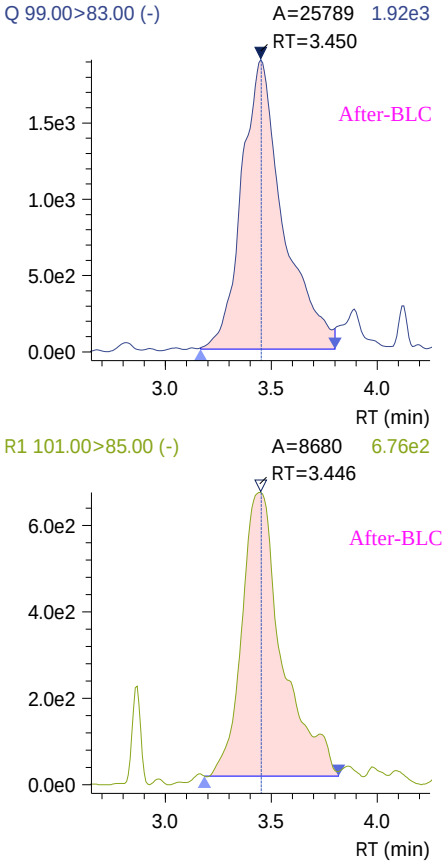
E2400715-004X10

Sample ID: E2400715-004X10
Date Acquired: 6/25/2024 2:39:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-015.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.450	25789	353946	0.4990	ng/mL	101.00 >85.00	33.66	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.446	353946	353946	1.0000	ng/mL	----	----	

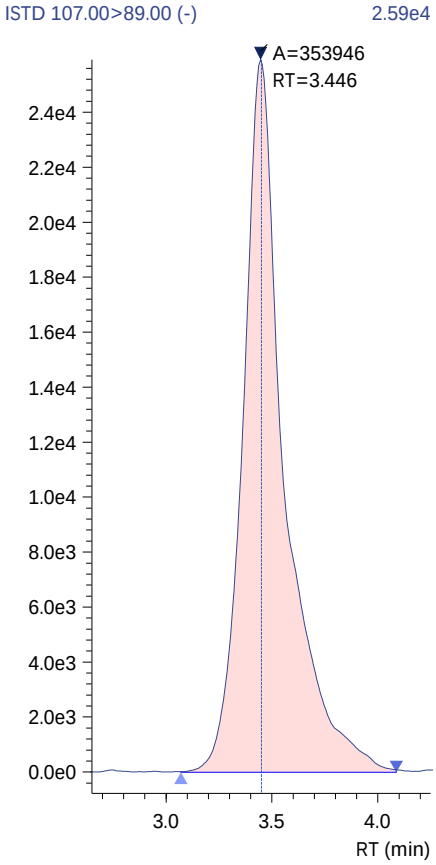
Perchlorate

Conc 0.4990
R#1 33.66 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

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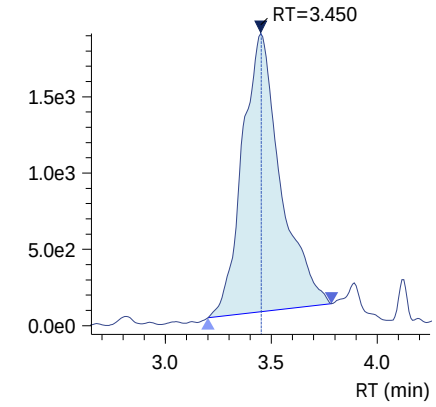
E2400715-004X10

Sample ID: E2400715-004X10
Date Acquired: 6/25/2024 2:39:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-015.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 6

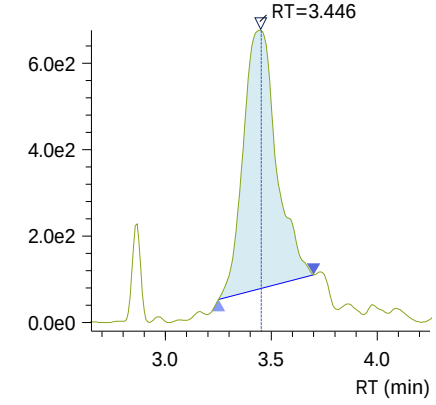
Perchlorate

Conc 0.5124
R#1 28.63 (35.24)

Q 99.00>83.00 (-) A=22857 1.92e3



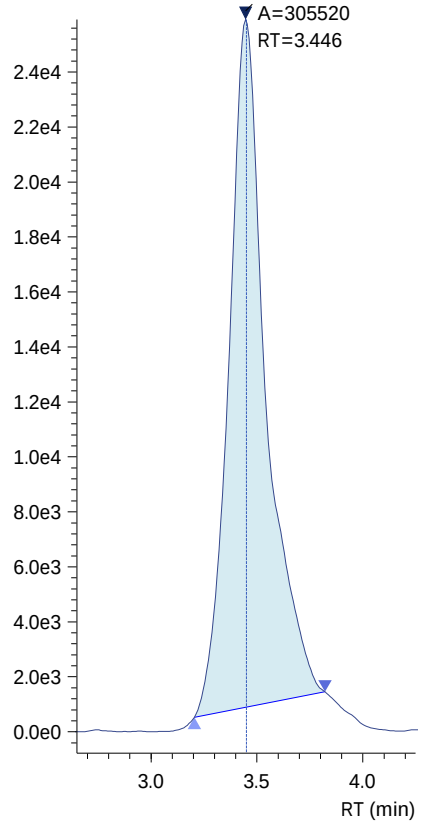
R1 101.00>85.00 (-) A=6544 6.76e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.59e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

E2400715-005X10

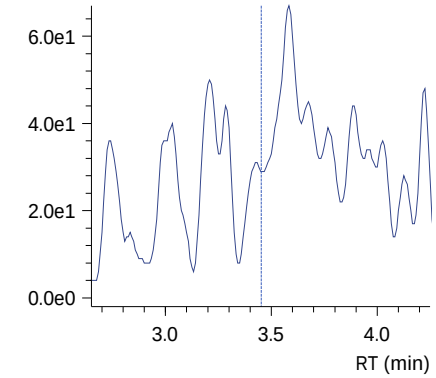
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Date Acquired: 6/25/2024 2:45:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-016.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	296450	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.448	296450	296450	1.0000	ng/mL	----	----	

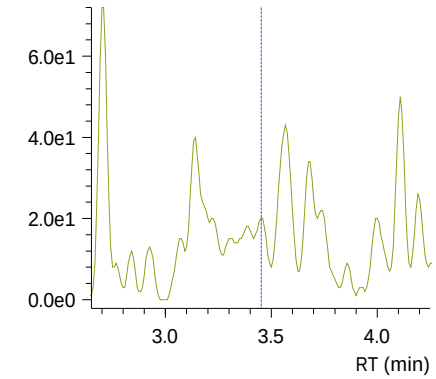
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.70e1



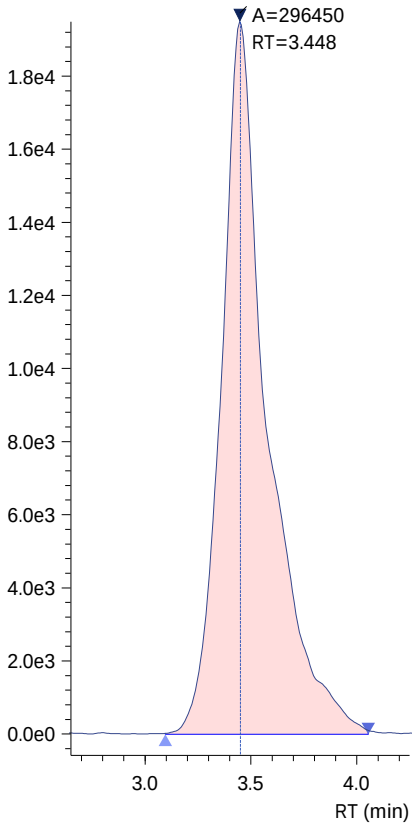
R1 101.00>85.00 (-) 7.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.95e4



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

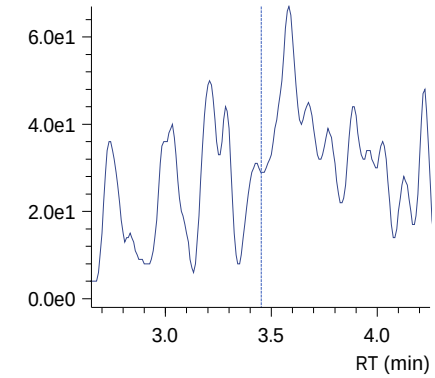
E2400715-005X10

Sample ID: E2400715-005X10
Date Acquired: 6/25/2024 2:45:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-016.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 6

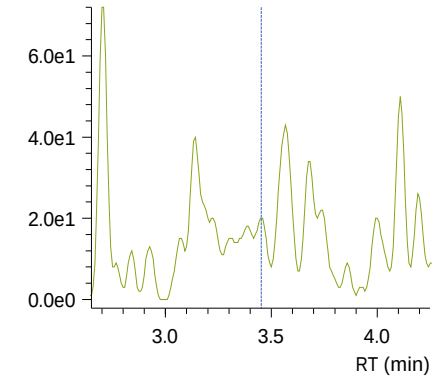
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.70e1



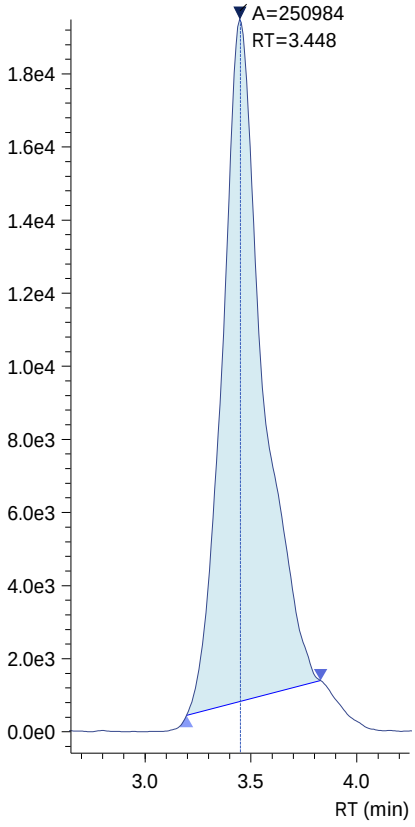
R1 101.00>85.00 (-) 7.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.95e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

E2400715-007X10

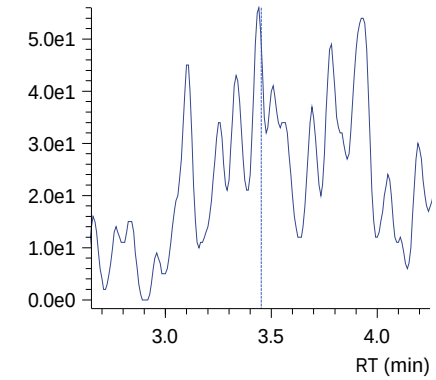
Sample ID: E2400715-007X10
Date Acquired: 6/25/2024 3:01:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-019.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	232477	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.443	232477	232477	1.0000	ng/mL	----	----	

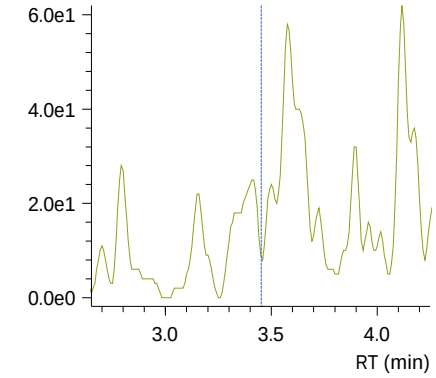
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 5.60e1



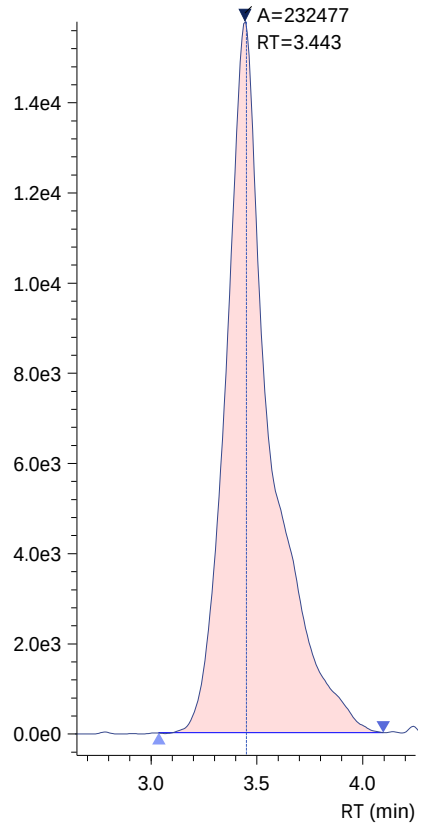
R1 101.00>85.00 (-) 6.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.58e4



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

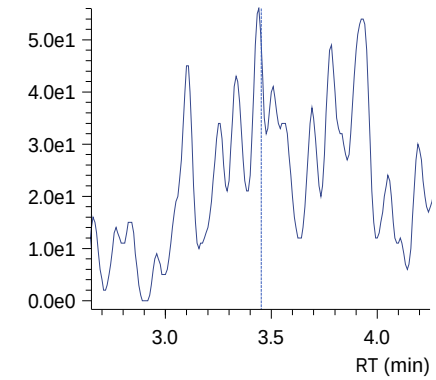
E2400715-007X10

Sample ID: E2400715-007X10
Date Acquired: 6/25/2024 3:01:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-019.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 6

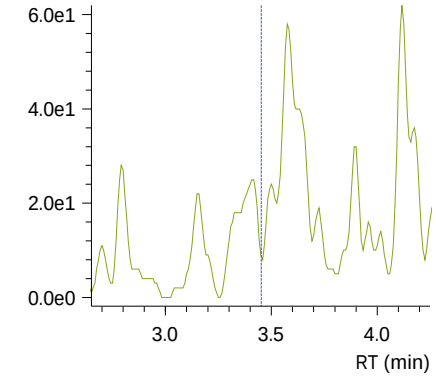
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 5.60e1



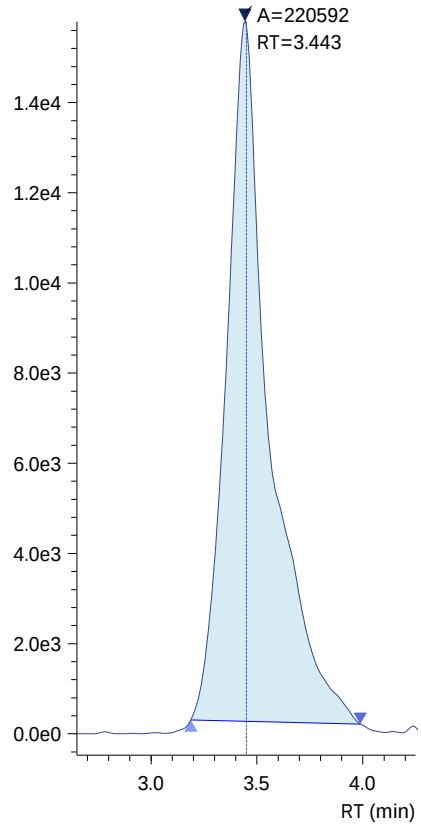
R1 101.00>85.00 (-) 6.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.58e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

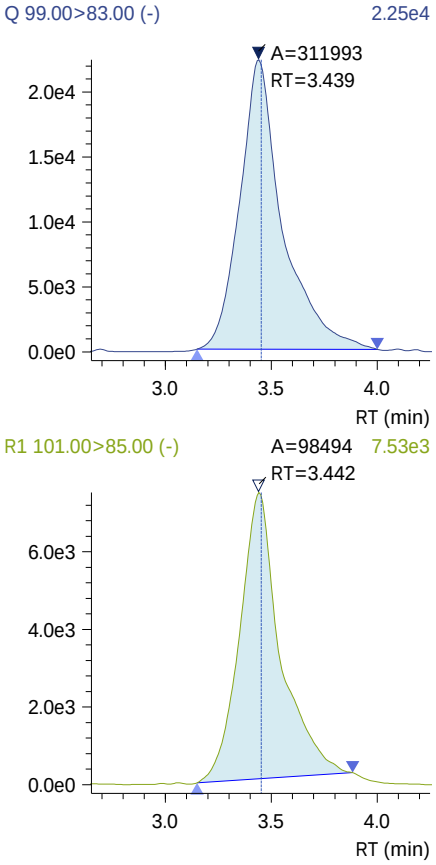
CCV

Sample ID: CCV
Date Acquired: 6/25/2024 3:46:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-027.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.439	311993	218182	9.7940	ng/mL	101.00 >85.00	31.57	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.439	218182	218182	1.0000	ng/mL	----	----	

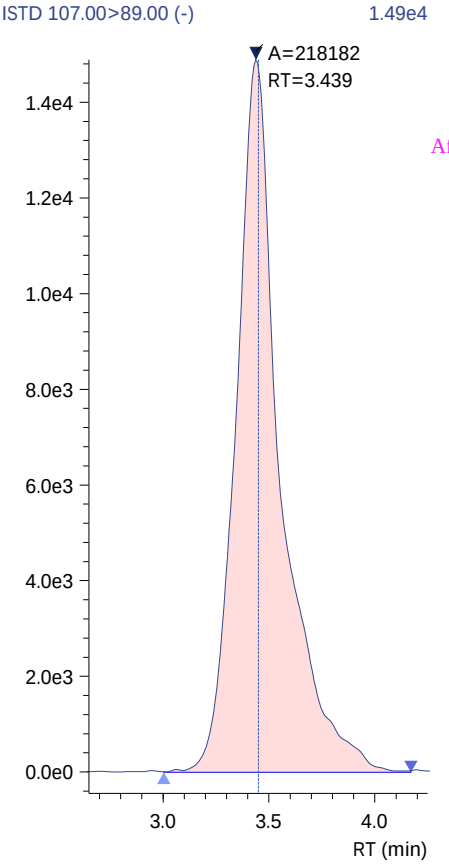
Perchlorate

Conc 9.7940
R#1 31.57 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

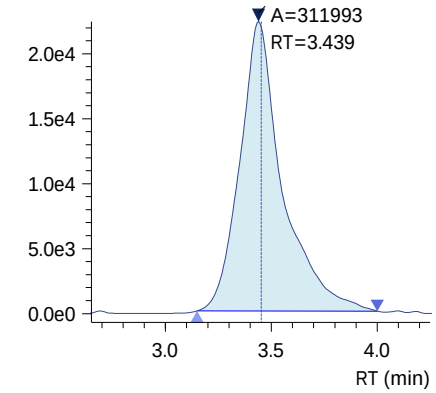
CCV

Sample ID: CCV
Date Acquired: 6/25/2024 3:46:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-027.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

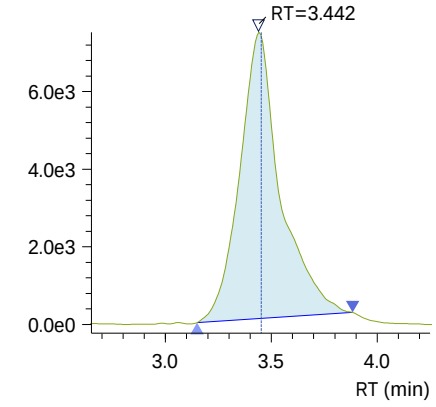
Perchlorate

Conc 11.0247
R#1 31.57 (35.24)

Q 99.00>83.00 (-) 2.25e4



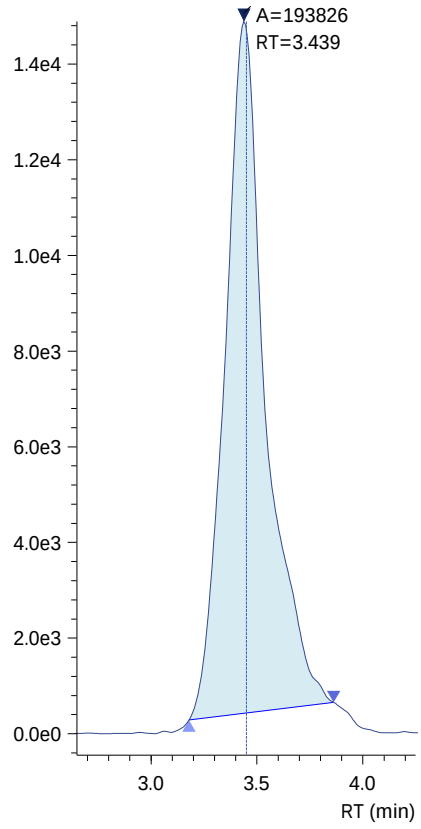
R1 101.00>85.00 (-) A=98494 7.53e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



Insight Report

Printed at 6/26/2024 12:07:22 PM

IB

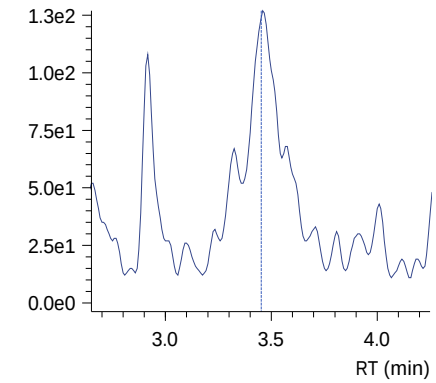
Sample ID: IB
Date Acquired: 6/25/2024 3:51:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-028.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	226021	----	ng/mL	101.00 >85.00	0.00	23.10 -42.90
Sodium Perchlorate-18O4_IS	M	3.436	226021	226021	1.0000	ng/mL	----	----	

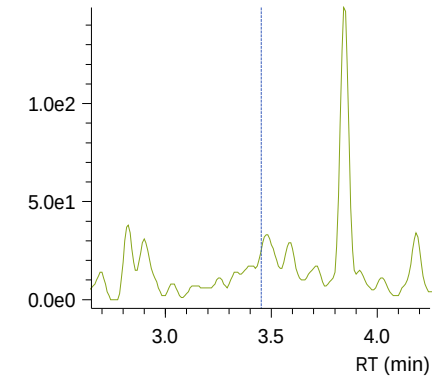
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.27e2



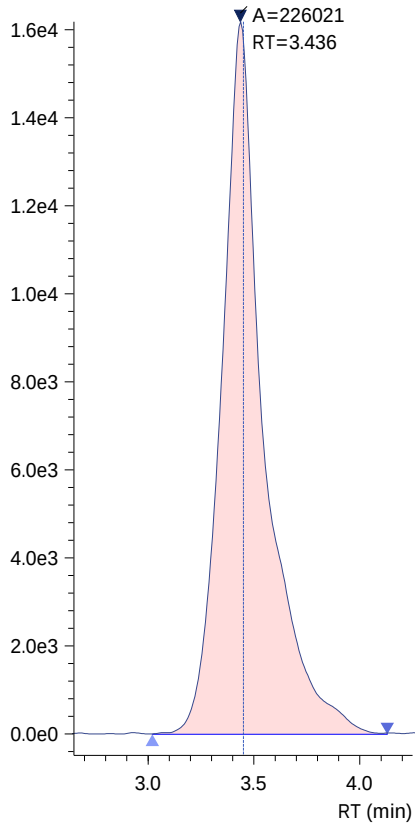
R1 101.00>85.00 (-) 1.49e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



After-BLC

Insight Report

Printed at 6/26/2024 12:08:01 PM

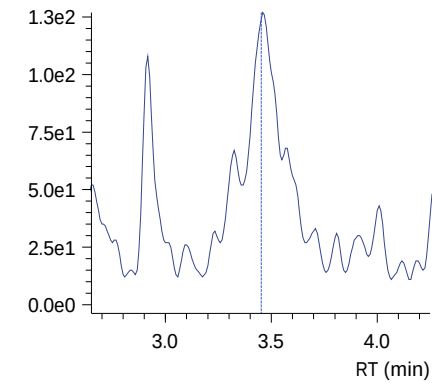
IB

Sample ID: IB
Date Acquired: 6/25/2024 3:51:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240625\20240625-028.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

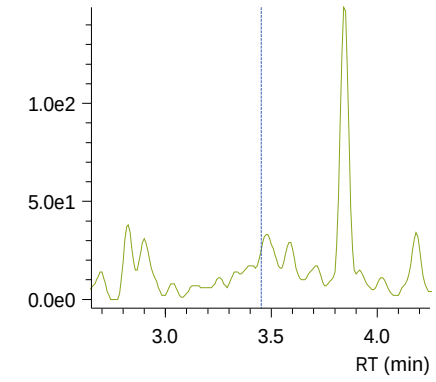
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.27e2



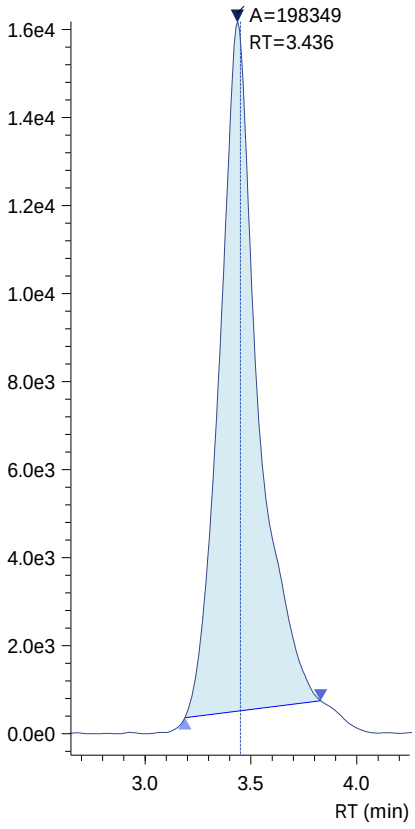
R1 101.00>85.00 (-) 1.49e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



HS24061313 LHAAP 18 24 COVER PAGE REV01

ALS WO# HS24061313

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Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
alsglobal.com

WorkOrder: HS24061313

LHAAP 18 24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

13-Sep-2024

HS24061313 LHAAP 18 24 Final REV01

ALS WO# HS24061313

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

September 07, 2024

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

Work Order: **HS24061313**

Laboratory Results for: **LHAAP 18 24**

Dear Marcia Olive,

ALS Environmental received 7 sample(s) on Jun 20, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,



Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Work Order: HS24061313

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24061313-01	18WW19_061924	Water		19-Jun-2024 07:25	20-Jun-2024 09:25	☐
HS24061313-02	18WW20_061924	Water		19-Jun-2024 08:15	20-Jun-2024 09:25	☐
HS24061313-03	18WW25_061924	Water		19-Jun-2024 09:00	20-Jun-2024 09:25	☐
HS24061313-04	125_061924	Water		19-Jun-2024 09:15	20-Jun-2024 09:25	☐
HS24061313-05	18CPTMW16_061924	Water		19-Jun-2024 10:50	20-Jun-2024 09:25	☐
HS24061313-06	18CPTMW16_061924_a	Water		19-Jun-2024 10:50	20-Jun-2024 09:25	☐
HS24061313-07	Trip Blank	Water	CG-041923-837	19-Jun-2024 00:00	20-Jun-2024 09:25	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS24061313

Work Order Comments

• This report was revised 09/05/24 to correct the limit of detection values due to laboratory error.

Work Order Comments

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

The analysis for VOCs was subcontracted to ALS Environmental in Middletown PA, MI. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 213966

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

Metals by Method SW7470A

Batch ID: 214374

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

Metals by Method SW6020A

Batch ID: 214353

Sample ID: 18WW19_061924 (HS24061313-01MS)

• The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Sodium)

• The recovery of the Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) associated with this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS/MSD may be due to sample matrix interference. (Barium, Beryllium, Calcium, Chromium, Iron,Manganese, Nickel)

Sample ID: HS24061247-01MS

• MS and MSD are for an unrelated sample

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW19_061924
Collection Date: 19-Jun-2024 07:25

ANALYTICAL REPORT
WorkOrder:HS24061313
Lab ID:HS24061313-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 02-Jul-2024		Analyst: JC
Aluminum	**0.0257**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	04-Jul-2024 23:24
Antimony	**0.000501**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	04-Jul-2024 23:24
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	04-Jul-2024 23:24
Barium	**0.109**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	04-Jul-2024 23:24
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	04-Jul-2024 23:24
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	04-Jul-2024 23:24
Calcium	**6.46**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	04-Jul-2024 23:24
Chromium	**0.00736**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	04-Jul-2024 23:24
Cobalt	**0.000196**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	04-Jul-2024 23:24
Copper	0.00125	U	0.00100	0.00125	0.00500	mg/L	1	04-Jul-2024 23:24
Iron	**7.08**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	04-Jul-2024 23:24
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	04-Jul-2024 23:24
Magnesium	**3.22**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	04-Jul-2024 23:24
Manganese	**0.0941**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	04-Jul-2024 23:24
Nickel	**0.0123**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	04-Jul-2024 23:24
Potassium	**2.13**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	04-Jul-2024 23:24
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	04-Jul-2024 23:24
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	04-Jul-2024 23:24
Sodium	**25.9**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	04-Jul-2024 23:24
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	04-Jul-2024 23:24
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	04-Jul-2024 23:24
Zinc	**0.00449**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	04-Jul-2024 23:24
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	01-Jul-2024 18:05
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jul-2024 08:03
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	02-Jul-2024 08:45

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW20_061924
Collection Date: 19-Jun-2024 08:15

ANALYTICAL REPORT
WorkOrder:HS24061313
Lab ID:HS24061313-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 23-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.21**		**0.010**	**0.020**	**0.030**	**ug/L**	1	03-Jul-2024 14:42
Surr: 2-Fluorobiphenyl	*66.6*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 14:42*
Surr: 4-Terphenyl-d14	*58.7*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 14:42*
Surr: Nitrobenzene-d5	*63.7*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 14:42*
METALS BY ICPMS BY SW6020A	**Method:SW6020A**					Prep:SW3010A / 02-Jul-2024		Analyst: JC
Aluminum	**0.0111**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	05-Jul-2024 00:03
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	05-Jul-2024 00:03
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	05-Jul-2024 00:03
Barium	**0.0925**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	05-Jul-2024 00:03
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	05-Jul-2024 00:03
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	05-Jul-2024 00:03
Calcium	**2.69**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	05-Jul-2024 00:03
Chromium	**0.00945**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	05-Jul-2024 00:03
Cobalt	**0.00152**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	05-Jul-2024 00:03
Copper	0.00125	U	0.00100	0.00125	0.00500	mg/L	1	05-Jul-2024 00:03
Iron	**7.78**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:03
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	05-Jul-2024 00:03
Magnesium	**1.65**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:03
Manganese	**0.230**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	05-Jul-2024 00:03
Nickel	**0.00429**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	05-Jul-2024 00:03
Potassium	**1.36**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:03
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	05-Jul-2024 00:03
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	05-Jul-2024 00:03
Sodium	**26.6**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:03
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	05-Jul-2024 00:03
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	05-Jul-2024 00:03
Zinc	**0.00776**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	05-Jul-2024 00:03
MERCURY BY SW7470A	**Method:SW7470A**					Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	01-Jul-2024 18:17
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jul-2024 08:03
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	02-Jul-2024 08:45

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW25_061924
Collection Date: 19-Jun-2024 09:00

ANALYTICAL REPORT
WorkOrder:HS24061313
Lab ID:HS24061313-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 23-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.017**	J	**0.010**	**0.020**	**0.030**	**ug/L**	1	03-Jul-2024 15:00
Surr: 2-Fluorobiphenyl	*79.3*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 15:00*
Surr: 4-Terphenyl-d14	*68.0*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 15:00*
Surr: Nitrobenzene-d5	*75.9*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 15:00*
METALS BY ICPMS BY SW6020A	**Method:SW6020A**					Prep:SW3010A / 02-Jul-2024		Analyst: JC
Aluminum	**0.126**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	05-Jul-2024 00:06
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	05-Jul-2024 00:06
Arsenic	**0.00264**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	05-Jul-2024 00:06
Barium	**0.261**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	05-Jul-2024 00:06
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	05-Jul-2024 00:06
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	05-Jul-2024 00:06
Calcium	**14.9**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	05-Jul-2024 00:06
Chromium	**0.000819**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	05-Jul-2024 00:06
Cobalt	**0.00211**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	05-Jul-2024 00:06
Copper	0.00125	U	0.00100	0.00125	0.00500	mg/L	1	05-Jul-2024 00:06
Iron	**32.1**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:06
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	05-Jul-2024 00:06
Magnesium	**8.88**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:06
Manganese	**2.07**		**0.00700**	**0.0250**	**0.0500**	**mg/L**	10	04-Jul-2024 23:43
Nickel	**0.00166**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	05-Jul-2024 00:06
Potassium	**1.28**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:06
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	05-Jul-2024 00:06
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	05-Jul-2024 00:06
Sodium	**32.3**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:06
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	05-Jul-2024 00:06
Vanadium	**0.000698**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	05-Jul-2024 00:06
Zinc	**0.00810**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	05-Jul-2024 00:06
MERCURY BY SW7470A	**Method:SW7470A**					Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	01-Jul-2024 18:19
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jul-2024 08:03
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	02-Jul-2024 08:45

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 125_061924
Collection Date: 19-Jun-2024 09:15

ANALYTICAL REPORT
WorkOrder:HS24061313
Lab ID:HS24061313-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 02-Jul-2024		Analyst: JC
Aluminum	**0.108**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	05-Jul-2024 00:08
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	05-Jul-2024 00:08
Arsenic	**0.00106**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	05-Jul-2024 00:08
Barium	**0.0775**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	05-Jul-2024 00:08
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	05-Jul-2024 00:08
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	05-Jul-2024 00:08
Calcium	**1.52**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	05-Jul-2024 00:08
Chromium	**0.000873**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	05-Jul-2024 00:08
Cobalt	**0.00124**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	05-Jul-2024 00:08
Copper	0.00125	U	0.00100	0.00125	0.00500	mg/L	1	05-Jul-2024 00:08
Iron	**0.303**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:08
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	05-Jul-2024 00:08
Magnesium	**1.07**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:08
Manganese	**0.0205**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	05-Jul-2024 00:08
Nickel	**0.00180**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	05-Jul-2024 00:08
Potassium	**0.298**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:08
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	05-Jul-2024 00:08
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	05-Jul-2024 00:08
Sodium	**33.4**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	05-Jul-2024 00:08
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	05-Jul-2024 00:08
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	05-Jul-2024 00:08
Zinc	**0.00593**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	05-Jul-2024 00:08
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 01-Jul-2024		Analyst: JS
Mercury	**0.0000340**	J	**0.0000300**	**0.000100**	**0.000200**	**mg/L**	1	01-Jul-2024 18:20
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jul-2024 08:03
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	02-Jul-2024 08:45

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW16_061924
Collection Date: 19-Jun-2024 10:50

ANALYTICAL REPORT
WorkOrder:HS24061313
Lab ID:HS24061313-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 23-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	03-Jul-2024 15:17
Surr: 2-Fluorobiphenyl	*109*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 15:17*
Surr: 4-Terphenyl-d14	*78.6*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 15:17*
Surr: Nitrobenzene-d5	*111*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 15:17*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jul-2024 08:03

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW16_061924_a
Collection Date: 19-Jun-2024 10:50

ANALYTICAL REPORT
WorkOrder:HS24061313
Lab ID:HS24061313-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 23-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.024**	J	**0.010**	**0.020**	**0.030**	**ug/L**	1	03-Jul-2024 15:35
Surr: 2-Fluorobiphenyl	*76.0*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 15:35*
Surr: 4-Terphenyl-d14	*57.3*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 15:35*
Surr: Nitrobenzene-d5	*74.0*			**0**	*40-140*	*%REC*	*1*	*03-Jul-2024 15:35*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jul-2024 08:03

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 19-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24061313
Lab ID:HS24061313-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	09-Jul-2024 08:55

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

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Batch ID: 213966 **Start Date:** 23 Jun 2024 13:17 **End Date:** 23 Jun 2024 13:17
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061313-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24061313-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24061313-05	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24061313-06	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 214353 **Start Date:** 02 Jul 2024 08:00 **End Date:** 02 Jul 2024 08:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061313-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061313-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061313-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061313-04		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 214374 **Start Date:** 01 Jul 2024 09:30 **End Date:** 01 Jul 2024 09:30
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24061313-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061313-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061313-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24061313-04		10 (mL)	10 (mL)	1	120 plastic HNO3

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213966 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS24061313-02	18WW20_061924	19 Jun 2024 08:15		23 Jun 2024 13:17	03 Jul 2024 14:42	1
HS24061313-03	18WW25_061924	19 Jun 2024 09:00		23 Jun 2024 13:17	03 Jul 2024 15:00	1
HS24061313-05	18CPTMW16_061924	19 Jun 2024 10:50		23 Jun 2024 13:17	03 Jul 2024 15:17	1
HS24061313-06	18CPTMW16_061924_a	19 Jun 2024 10:50		23 Jun 2024 13:17	03 Jul 2024 15:35	1
Batch ID: 214353 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24061313-01	18WW19_061924	19 Jun 2024 07:25		02 Jul 2024 08:00	04 Jul 2024 23:24	1
HS24061313-02	18WW20_061924	19 Jun 2024 08:15		02 Jul 2024 08:00	05 Jul 2024 00:03	1
HS24061313-03	18WW25_061924	19 Jun 2024 09:00		02 Jul 2024 08:00	05 Jul 2024 00:06	1
HS24061313-03	18WW25_061924	19 Jun 2024 09:00		02 Jul 2024 08:00	04 Jul 2024 23:43	10
HS24061313-04	125_061924	19 Jun 2024 09:15		02 Jul 2024 08:00	05 Jul 2024 00:08	1
Batch ID: 214374 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS24061313-01	18WW19_061924	19 Jun 2024 07:25		01 Jul 2024 09:30	01 Jul 2024 18:05	1
HS24061313-02	18WW20_061924	19 Jun 2024 08:15		01 Jul 2024 09:30	01 Jul 2024 18:17	1
HS24061313-03	18WW25_061924	19 Jun 2024 09:00		01 Jul 2024 09:30	01 Jul 2024 18:19	1
HS24061313-04	125_061924	19 Jun 2024 09:15		01 Jul 2024 09:30	01 Jul 2024 18:20	1
Batch ID: R471006 (0)	**Test Name :** SUBCONTRACT ANALYSIS -VOC ANALYSIS				**Matrix:** Water	
HS24061313-01	18WW19_061924	19 Jun 2024 07:25			02 Jul 2024 08:45	1
HS24061313-02	18WW20_061924	19 Jun 2024 08:15			02 Jul 2024 08:45	1
HS24061313-03	18WW25_061924	19 Jun 2024 09:00			02 Jul 2024 08:45	1
HS24061313-04	125_061924	19 Jun 2024 09:15			02 Jul 2024 08:45	1
Batch ID: R471428 (0)	**Test Name :** SUBCONTRACT ANALYSIS -VOC ANALYSIS				**Matrix:** Water	
HS24061313-07	Trip Blank	19 Jun 2024 00:00			09 Jul 2024 08:55	1
Batch ID: R471756 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24061313-01	18WW19_061924	19 Jun 2024 07:25			12 Jul 2024 08:03	1
HS24061313-02	18WW20_061924	19 Jun 2024 08:15			12 Jul 2024 08:03	1
HS24061313-03	18WW25_061924	19 Jun 2024 09:00			12 Jul 2024 08:03	1
HS24061313-04	125_061924	19 Jun 2024 09:15			12 Jul 2024 08:03	1
HS24061313-05	18CPTMW16_061924	19 Jun 2024 10:50			12 Jul 2024 08:03	1
HS24061313-06	18CPTMW16_061924_a	19 Jun 2024 10:50			12 Jul 2024 08:03	1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214353 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-214353** Units: **mg/L** Analysis Date: **04-Jul-2024 22:37**
Client ID: Run ID: **ICPMS05_471259** SeqNo: **8124173** PrepDate: **02-Jul-2024** 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	0.000412	0.00500								J
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	0.00125	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	0.0500	0.200								U
Selenium	0.00125	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.0500	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214353 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-214353** Units: **mg/L** Analysis Date: **05-Jul-2024 12:28**
Client ID: Run ID: **ICPMS05_471291** SeqNo: **8124960** PrepDate: **02-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09935	0.0100	0.1	0	99.4	84 - 117				
Antimony	0.04767	0.00500	0.05	0	95.3	85 - 117				
Arsenic	0.04651	0.00500	0.05	0	93.0	84 - 116				
Barium	0.04716	0.00500	0.05	0	94.3	86 - 114				
Cadmium	0.04664	0.00200	0.05	0	93.3	87 - 115				
Calcium	4.795	0.500	5	0	95.9	87 - 118				
Chromium	0.0463	0.00500	0.05	0	92.6	85 - 116				
Cobalt	0.04699	0.00500	0.05	0	94.0	86 - 115				
Copper	0.04763	0.00500	0.05	0	95.3	85 - 118				
Iron	4.794	0.200	5	0	95.9	87 - 118				
Lead	0.04508	0.00500	0.05	0	90.2	88 - 115				
Magnesium	4.541	0.200	5	0	90.8	83 - 118				
Manganese	0.04673	0.00500	0.05	0	93.5	87 - 115				
Nickel	0.04633	0.00500	0.05	0	92.7	85 - 117				
Potassium	4.47	0.200	5	0	89.4	87 - 115				
Selenium	0.04586	0.00500	0.05	0	91.7	80 - 120				
Silver	0.04706	0.00500	0.05	0	94.1	85 - 116				
Sodium	4.605	0.200	5	0	92.1	85 - 117				
Thallium	0.04477	0.00200	0.05	0	89.5	82 - 116				
Vanadium	0.04562	0.00500	0.05	0	91.2	86 - 115				
Zinc	0.04646	0.00500	0.05	0	92.9	83 - 119				

LCS Sample ID: **LCS-214353** Units: **mg/L** Analysis Date: **05-Jul-2024 13:36**
Client ID: Run ID: **ICPMS05_471291** SeqNo: **8125075** PrepDate: **02-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.04562	0.00200	0.05	0	91.2	83 - 121				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214353 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24061313-01MS** Units: **mg/L** Analysis Date: **05-Jul-2024 12:41**
Client ID: **18WW19_061924** Run ID: **ICPMS05_471291** SeqNo: **8124966** PrepDate: **02-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1144	0.0100	0.1	0.02968	84.7	84 - 117				
Antimony	0.0461	0.00500	0.05	0.0006	91.0	85 - 117				
Arsenic	0.04438	0.00500	0.05	0.00037	88.0	84 - 116				
Barium	0.1526	0.00500	0.05	0.1102	84.7	86 - 114				S
Beryllium	0.04034	0.00200	0.05	0.000054	80.6	83 - 121				S
Cadmium	0.04429	0.00200	0.05	0.000158	88.3	87 - 115				
Calcium	10.56	0.500	5	6.318	84.7	87 - 118				S
Chromium	0.05047	0.00500	0.05	0.1133	-126	85 - 116				S
Cobalt	0.04408	0.00500	0.05	0.000395	87.4	86 - 115				
Copper	0.04475	0.00500	0.05	0.001011	87.5	85 - 118				
Iron	11.19	0.200	5	7.503	73.8	87 - 118				S
Lead	0.04474	0.00500	0.05	0.000245	89.0	88 - 115				
Magnesium	7.63	0.200	5	3.262	87.3	83 - 118				
Manganese	0.1359	0.00500	0.05	0.09849	74.9	87 - 115				S
Nickel	0.05489	0.00500	0.05	0.02143	66.9	85 - 117				S
Potassium	6.536	0.200	5	2.138	88.0	87 - 115				
Selenium	0.04374	0.00500	0.05	0.000247	87.0	80 - 120				
Silver	0.04377	0.00500	0.05	0.000026	87.5	85 - 116				
Sodium	27.85	0.200	5	24.73	62.4	85 - 117				SO
Thallium	0.04381	0.00200	0.05	0.00019	87.2	82 - 116				
Vanadium	0.04308	0.00500	0.05	-0.001324	88.8	86 - 115				
Zinc	0.04645	0.00500	0.05	0.003463	86.0	83 - 119				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214353 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24061247-01MS** Units: **mg/L** Analysis Date: **05-Jul-2024 12:34**
Client ID: Run ID: **ICPMS05_471291** SeqNo: **8124963** PrepDate: **02-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.2245	0.0100	0.1	0.1635	60.9	84 - 117				S
Antimony	0.0465	0.00500	0.05	0.000289	92.4	85 - 117				
Arsenic	0.04552	0.00500	0.05	0.000433	90.2	84 - 116				
Barium	0.06267	0.00500	0.05	0.01709	91.2	86 - 114				
Beryllium	0.04135	0.00200	0.05	0.000009	82.7	83 - 121				S
Cadmium	0.0463	0.00200	0.05	0.000456	91.7	87 - 115				
Calcium	6	0.500	5	1.588	88.2	87 - 118				
Chromium	0.04454	0.00500	0.05	0.000446	88.2	85 - 116				
Cobalt	0.0457	0.00500	0.05	0.000136	91.1	86 - 115				
Copper	0.04605	0.00500	0.05	0.000585	90.9	85 - 118				
Iron	6.157	0.200	5	1.714	88.9	87 - 118				
Lead	0.04648	0.00500	0.05	0.000634	91.7	88 - 115				
Magnesium	4.786	0.200	5	0.4067	87.6	83 - 118				
Manganese	0.09878	0.00500	0.05	0.05671	84.2	87 - 115				S
Nickel	0.04518	0.00500	0.05	0.00023	89.9	85 - 117				
Potassium	8.269	0.200	5	3.699	91.4	87 - 115				
Selenium	0.04586	0.00500	0.05	0.000272	91.2	80 - 120				
Silver	0.0452	0.00500	0.05	0.000021	90.4	85 - 116				
Sodium	22.31	0.200	5	18.9	68.3	85 - 117				S
Thallium	0.04605	0.00200	0.05	0.000044	92.0	82 - 116				
Vanadium	0.04474	0.00500	0.05	0.000396	88.7	86 - 115				
Zinc	0.04774	0.00500	0.05	0.003548	88.4	83 - 119				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214353 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24061313-01MSD** Units: **mg/L** Analysis Date: **05-Jul-2024 12:43**
Client ID: **18WW19_061924** Run ID: **ICPMS05_471291** SeqNo: **8124967** PrepDate: **02-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1207	0.0100	0.1	0.02968	91.0	84 - 117	0.1144	5.39	20	
Antimony	0.04746	0.00500	0.05	0.0006	93.7	85 - 117	0.0461	2.91	20	
Arsenic	0.04587	0.00500	0.05	0.00037	91.0	84 - 116	0.04438	3.29	20	
Barium	0.1567	0.00500	0.05	0.1102	92.9	86 - 114	0.1526	2.65	20	
Beryllium	0.0412	0.00200	0.05	0.000054	82.3	83 - 121	0.04034	2.09	20	S
Cadmium	0.04515	0.00200	0.05	0.000158	90.0	87 - 115	0.04429	1.92	20	
Calcium	10.84	0.500	5	6.318	90.4	87 - 118	10.56	2.63	20	
Chromium	0.05185	0.00500	0.05	0.1133	-123	85 - 116	0.05047	2.71	20	S
Cobalt	0.04538	0.00500	0.05	0.000395	90.0	86 - 115	0.04408	2.89	20	
Copper	0.04601	0.00500	0.05	0.001011	90.0	85 - 118	0.04475	2.77	20	
Iron	11.52	0.200	5	7.503	80.4	87 - 118	11.19	2.91	20	S
Lead	0.0461	0.00500	0.05	0.000245	91.7	88 - 115	0.04474	3	20	
Magnesium	7.913	0.200	5	3.262	93.0	83 - 118	7.63	3.65	20	
Manganese	0.1422	0.00500	0.05	0.09849	87.4	87 - 115	0.1359	4.49	20	
Nickel	0.05727	0.00500	0.05	0.02143	71.7	85 - 117	0.05489	4.23	20	S
Potassium	6.67	0.200	5	2.138	90.6	87 - 115	6.536	2.03	20	
Selenium	0.04594	0.00500	0.05	0.000247	91.4	80 - 120	0.04374	4.91	20	
Silver	0.04414	0.00500	0.05	0.000026	88.2	85 - 116	0.04377	0.833	20	
Sodium	28.7	0.200	5	24.73	79.4	85 - 117	27.85	3.01	20	SO
Thallium	0.04566	0.00200	0.05	0.00019	90.9	82 - 116	0.04381	4.14	20	
Vanadium	0.04492	0.00500	0.05	-0.001324	92.5	86 - 115	0.04308	4.18	20	
Zinc	0.04858	0.00500	0.05	0.003463	90.2	83 - 119	0.04645	4.48	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214353 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24061247-01MSD** Units: **mg/L** Analysis Date: **05-Jul-2024 12:37**
Client ID: Run ID: **ICPMS05_471291** SeqNo: **8124964** PrepDate: **02-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.2135	0.0100	0.1	0.1635	50.0	84 - 117	0.2245	5.01	20	S
Antimony	0.04532	0.00500	0.05	0.000289	90.1	85 - 117	0.0465	2.56	20	
Arsenic	0.04371	0.00500	0.05	0.000433	86.6	84 - 116	0.04552	4.05	20	
Barium	0.06024	0.00500	0.05	0.01709	86.3	86 - 114	0.06267	3.95	20	
Beryllium	0.03946	0.00200	0.05	0.000009	78.9	83 - 121	0.04135	4.7	20	S
Cadmium	0.04403	0.00200	0.05	0.000456	87.2	87 - 115	0.0463	5.02	20	
Chromium	0.0433	0.00500	0.05	0.000446	85.7	85 - 116	0.04454	2.81	20	
Cobalt	0.04363	0.00500	0.05	0.000136	87.0	86 - 115	0.0457	4.64	20	
Copper	0.04388	0.00500	0.05	0.000585	86.6	85 - 118	0.04605	4.84	20	
Magnesium	4.579	0.200	5	0.4067	83.4	83 - 118	4.786	4.43	20	
Manganese	0.09524	0.00500	0.05	0.05671	77.1	87 - 115	0.09878	3.65	20	S
Nickel	0.04426	0.00500	0.05	0.00023	88.1	85 - 117	0.04518	2.07	20	
Selenium	0.04398	0.00500	0.05	0.000272	87.4	80 - 120	0.04586	4.19	20	
Silver	0.04383	0.00500	0.05	0.000021	87.6	85 - 116	0.0452	3.08	20	
Sodium	21.73	0.200	5	18.9	56.6	85 - 117	22.31	2.66	20	S
Thallium	0.04416	0.00200	0.05	0.000044	88.2	82 - 116	0.04605	4.19	20	

MSD Sample ID: **HS24061247-01MSD** Units: **mg/L** Analysis Date: **05-Jul-2024 13:09**
Client ID: Run ID: **ICPMS05_471291** SeqNo: **8125000** PrepDate: **02-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	0.04621	0.00200	0.05	0.000456	91.5	87 - 115	0.0463	0.201	20	
Iron	6.328	0.200	5	1.714	92.3	87 - 118	6.157	2.74	20	
Lead	0.04653	0.00500	0.05	0.000634	91.8	88 - 115	0.04648	0.101	20	
Potassium	8.348	0.200	5	3.699	93.0	87 - 115	8.269	0.956	20	
Vanadium	0.04494	0.00500	0.05	0	89.9	86 - 115	0.04474	0.439	20	
Zinc	0.04786	0.00500	0.05	0.003548	88.6	83 - 119	0.04774	0.259	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214353 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24061313-01PDS** Units: **mg/L** Analysis Date: **04-Jul-2024 23:33**
Client ID: **18WW19_061924** Run ID: **ICPMS05_471259** SeqNo: **8124196** PrepDate: **02-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1122	0.0100	0.1	0.02565	86.6	80 - 120				
Antimony	0.09219	0.00500	0.1	0.000501	91.7	80 - 120				
Arsenic	0.09445	0.00500	0.1	0.000261	94.2	80 - 120				
Barium	0.2034	0.00500	0.1	0.1092	94.2	80 - 120				
Beryllium	0.08933	0.00200	0.1	0.00007	89.3	80 - 120				
Cadmium	0.0951	0.00200	0.1	0.000145	95.0	80 - 120				
Calcium	15.51	0.500	10	6.463	90.5	80 - 120				
Chromium	0.1031	0.00500	0.1	0.007358	95.8	80 - 120				
Cobalt	0.0952	0.00500	0.1	0.000196	95.0	80 - 120				
Copper	0.09647	0.00500	0.1	0.000872	95.6	80 - 120				
Iron	16.71	0.200	10	7.083	96.2	80 - 120				
Lead	0.09633	0.00500	0.1	0.000202	96.1	80 - 120				
Magnesium	13.02	0.200	10	3.221	98.0	80 - 120				
Manganese	0.184	0.00500	0.1	0.09413	89.8	80 - 120				
Nickel	0.1072	0.00500	0.1	0.01227	95.0	80 - 120				
Potassium	12.21	0.200	10	2.127	101	80 - 120				
Selenium	0.09229	0.00500	0.1	0.000372	91.9	80 - 120				
Silver	0.1088	0.00500	0.1	0.000035	109	80 - 120				
Sodium	34.03	0.200	10	25.87	81.6	80 - 120				
Thallium	0.09683	0.00200	0.1	0.000051	96.8	80 - 120				
Vanadium	0.09549	0.00500	0.1	0.000598	94.9	80 - 120				
Zinc	0.09607	0.00500	0.1	0.004486	91.6	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214353 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24061247-01PDS** Units: **mg/L** Analysis Date: **04-Jul-2024 22:57**
Client ID: Run ID: **ICPMS05_471259** SeqNo: **8124181** PrepDate: **02-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.2319	0.0100	0.1	0.1401	91.7	80 - 120				
Antimony	0.09636	0.00500	0.1	0.000262	96.1	80 - 120				
Arsenic	0.09826	0.00500	0.1	0.000208	98.1	80 - 120				
Barium	0.1175	0.00500	0.1	0.01798	99.5	80 - 120				
Beryllium	0.08956	0.00200	0.1	0.000014	89.6	80 - 120				
Cadmium	0.09886	0.00200	0.1	0.000572	98.3	80 - 120				
Calcium	11.36	0.500	10	1.462	99.0	80 - 120				
Chromium	0.1016	0.00500	0.1	0.000719	101	80 - 120				
Cobalt	0.1004	0.00500	0.1	0.00015	100	80 - 120				
Copper	0.1022	0.00500	0.1	0.000232	102	80 - 120				
Iron	12.14	0.200	10	1.821	103	80 - 120				
Lead	0.09956	0.00500	0.1	0.000154	99.4	80 - 120				
Magnesium	10.56	0.200	10	0.4168	101	80 - 120				
Manganese	0.159	0.00500	0.1	0.06098	98.0	80 - 120				
Nickel	0.1008	0.00500	0.1	0.000188	101	80 - 120				
Potassium	14.4	0.200	10	3.683	107	80 - 120				
Selenium	0.09962	0.00500	0.1	0.000307	99.3	80 - 120				
Silver	0.1132	0.00500	0.1	0.000024	113	80 - 120				
Sodium	29.36	0.200	10	19.84	95.2	80 - 120				
Thallium	0.1009	0.00200	0.1	0.000047	101	80 - 120				
Vanadium	0.1007	0.00500	0.1	0.000446	100	80 - 120				
Zinc	0.09959	0.00500	0.1	0.003412	96.2	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214353 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24061313-01SD** Units: **mg/L** Analysis Date: **04-Jul-2024 23:26**
Client ID: **18WW19_061924** Run ID: **ICPMS05_471259** SeqNo: **8124193** PrepDate: **02-Jul-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.01923	0.0500					0.02565	0	10	J
Antimony	0.00625	0.0250					0.000501	0	10	U
Arsenic	0.00625	0.0250					0.000261	0	10	U
Barium	0.1086	0.0250					0.1092	0.574	10	
Beryllium	0.00250	0.0100					0.00007	0	10	U
Cadmium	0.00250	0.0100					0.000145	0	10	U
Calcium	6.433	2.50					6.463	0.478	10	
Chromium	0.005607	0.0250					0.007358	0	10	J
Cobalt	0.00250	0.0250					0.000196	0	10	U
Copper	0.00625	0.0250					0.000872	0	10	U
Iron	7.3	1.00					7.083	3.07	10	
Lead	0.00625	0.0250					0.000202	0	10	U
Magnesium	3.225	1.00					3.221	0.124	10	
Manganese	0.09552	0.0250					0.09413	1.47	10	
Nickel	0.01338	0.0250					0.01227	0	10	J
Potassium	2.074	1.00					2.127	2.49	10	
Selenium	0.00625	0.0250					0.000372	0	10	U
Silver	0.00250	0.0250					0.000035	0	10	U
Sodium	25.45	1.00					25.87	1.65	10	
Thallium	0.00250	0.0100					0.000051	0	10	U
Vanadium	0.00625	0.0250					0.000598	0	10	U
Zinc	0.0125	0.0250					0.004486	0	10	U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214353 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24061247-01SD** Units: **mg/L** Analysis Date: **04-Jul-2024 22:49**
Client ID: Run ID: **ICPMS05_471259** SeqNo: **8124178** PrepDate: **02-Jul-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.1382	0.0500					0.1401	1.35	10	
Antimony	0.00625	0.0250					0.000262	0	10	U
Arsenic	0.00625	0.0250					0.000208	0	10	U
Barium	0.01806	0.0250					0.01798	0	10	J
Beryllium	0.00250	0.0100					0.000014	0	10	U
Cadmium	0.00250	0.0100					0.000572	0	10	U
Calcium	1.384	2.50					1.462	0	10	J
Chromium	0.00625	0.0250					0.000719	0	10	U
Cobalt	0.00250	0.0250					0.00015	0	10	U
Copper	0.00625	0.0250					0.000232	0	10	U
Iron	1.667	1.00					1.821	8.46	10	
Lead	0.00625	0.0250					0.000154	0	10	U
Magnesium	0.4212	1.00					0.4168	0	10	J
Manganese	0.06192	0.0250					0.06098	1.55	10	
Nickel	0.00625	0.0250					0.000188	0	10	U
Potassium	3.696	1.00					3.683	0.334	10	
Selenium	0.00625	0.0250					0.000307	0	10	U
Silver	0.00250	0.0250					0.000024	0	10	U
Sodium	20.02	1.00					19.84	0.899	10	
Thallium	0.00250	0.0100					0.000047	0	10	U
Vanadium	0.00625	0.0250					0.000446	0	10	U
Zinc	0.0125	0.0250					0.003412	0	10	U

The following samples were analyzed in this batch: HS24061313-01 HS24061313-02 HS24061313-03 HS24061313-04

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 214374 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-214374** Units: **mg/L** Analysis Date: **01-Jul-2024 17:38**
Client ID: Run ID: **HG04_470995** SeqNo: **8117742** PrepDate: **01-Jul-2024** 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-214374** Units: **mg/L** Analysis Date: **01-Jul-2024 17:39**
Client ID: Run ID: **HG04_470995** SeqNo: **8117743** PrepDate: **01-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00460	0.000200	0.005	0	92.0	82 - 119				

MS Sample ID: **HS24061313-01MS** Units: **mg/L** Analysis Date: **01-Jul-2024 18:13**
Client ID: **18WW19_061924** Run ID: **HG04_470995** SeqNo: **8117760** PrepDate: **01-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00463	0.000200	0.005	0	92.6	82 - 119				

MSD Sample ID: **HS24061313-01MSD** Units: **mg/L** Analysis Date: **01-Jul-2024 18:15**
Client ID: **18WW19_061924** Run ID: **HG04_470995** SeqNo: **8117761** PrepDate: **01-Jul-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00444	0.000200	0.005	0	88.8	82 - 119	0.004630	4.19	20	

The following samples were analyzed in this batch: HS24061313-01 HS24061313-02 HS24061313-03 HS24061313-04

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ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

QC BATCH REPORT

Batch ID: 213966 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-213966** Units: **ug/L** Analysis Date: **03-Jul-2024 12:40**
Client ID: Run ID: **SV-6_471227** SeqNo: **8123188** PrepDate: **23-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.020	0.030								U
Surr: 2-Fluorobiphenyl	*0.05731*	*0*	*0.08*	*0*	*71.6*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.04527*	*0*	*0.08*	*0*	*56.6*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.05426*	*0*	*0.08*	*0*	*67.8*	*40 - 140*				

LCS Sample ID: **LCS-213966** Units: **ug/L** Analysis Date: **03-Jul-2024 12:58**
Client ID: Run ID: **SV-6_471227** SeqNo: **8123189** PrepDate: **23-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.05215	0.030	0.08	0	65.2	40 - 140				
Surr: 2-Fluorobiphenyl	*0.05954*	*0*	*0.08*	*0*	*74.4*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.05191*	*0*	*0.08*	*0*	*64.9*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.0559*	*0*	*0.08*	*0*	*69.9*	*40 - 140*				

LCSD Sample ID: **LCSD-213966** Units: **ug/L** Analysis Date: **03-Jul-2024 13:15**
Client ID: Run ID: **SV-6_471227** SeqNo: **8123190** PrepDate: **23-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.05072	0.030	0.08	0	63.4	40 - 140	0.05215	2.77	20	
Surr: 2-Fluorobiphenyl	*0.06074*	*0*	*0.08*	*0*	*75.9*	*40 - 140*	*0.05954*	*2*	*20*	
Surr: 4-Terphenyl-d14	*0.05107*	*0*	*0.08*	*0*	*63.8*	*40 - 140*	*0.05191*	*1.64*	*20*	
Surr: Nitrobenzene-d5	*0.0564*	*0*	*0.08*	*0*	*70.5*	*40 - 140*	*0.0559*	*0.887*	*20*	

The following samples were analyzed in this batch: HS24061313-02 HS24061313-03 HS24061313-05 HS24061313-06

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ALS Houston, US Date: 07-Sep-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: **HS24061313**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L22-90-R2	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Sep-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

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ALS Houston, US Date: 07-Sep-24

Sample Receipt Checklist

Work Order ID: HS24061313 **Date/Time Received:** **20-Jun-2024 09:25**

Client Name: Bhate Environmental **Received by:** **Belinda Gomez**

Completed By:	/S/ Michael Lucio	20-Jun-2024 22:10	**Reviewed by:**	/S/ Luis.Aguilar	21-Jun-2024 13:28
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **w** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	0.8uc/0.9c	IR31
Cooler(s)/Kit(s):	Blue	
Date/Time sample(s) sent to storage:	06/20/2024 22:11	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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bhate
1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

HS24061313
Bhate Environmental Associates, Inc.
LHAAP 18 24

Facility/Base I.D.: LHAAP / BILL to PCI
Project/Site Name: LHAAP / Site 18/24
Client Name:
Collected by: Scott Beesinger

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)	Sample Analysis Requested (5): Number of containers	VOC	PERCHLORATE	TOTAL METALS	1,4 - DIOXANE	Quality Assurance Samples (6): Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
18MW19_061924	19 Jun 2024	0725	-	N		WG	5	X	X	X					
18MW19_061924_MS	19 Jun 2024	0725	-	MS		WG	5	X	X	X					
18MW19_061924_MSD	19 Jun 2024	0725	-	SD		WG	5	X	X	X					
18MW20_061924	19 Jun 2024	0815		N		WG	6	X	X	X	X				
18MW25_061924	19 Jun 2024	0900		N		WG	6	X	X	X	X				
125_061924	19 Jun 2024	0915	-	N		WG	5	X	X	X					
18CPTMW16_061924	19 Jun 2024	1050	-	N		WG	2		X		X				
18CPTMW16_061924_D	19 Jun 2024	1050	-	FD		WG	2		X		X				
TRIP BLANK	19 Jun 2024		-	TB		W	2	X							
			-												
			-												

COMMENTS: STANDARD TAT

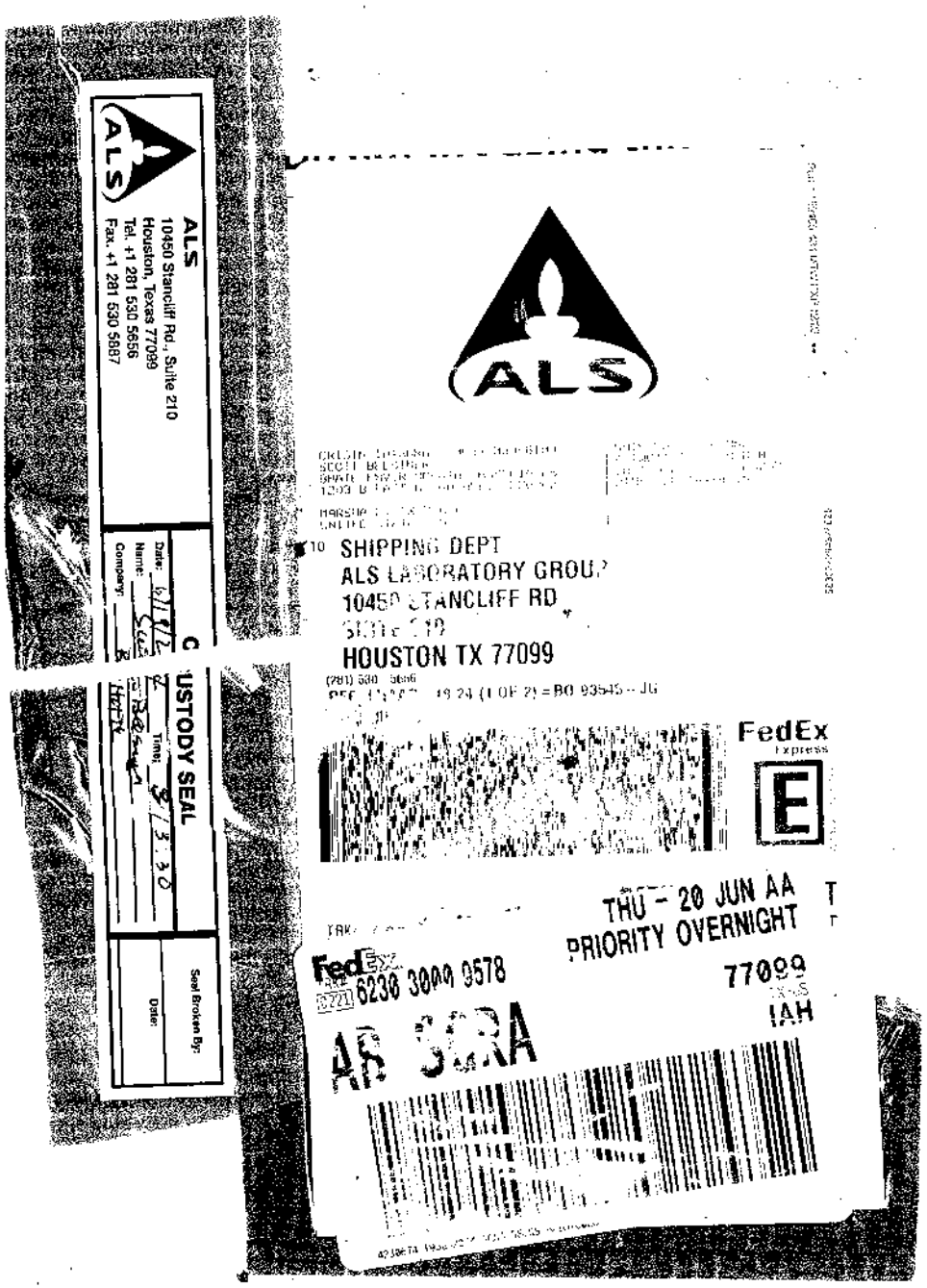
Custody Transfers Prior to Receipt by Laboratory

Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1.	6/19/24	1330	1.	6/20/24	0425
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 Stanchiff Rd Suite 210 Houston, TX 77099 (281) 530-5656
ATTN: Dave Wamsley 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

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Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project AHH138|HS24061313
Workorder 3366030
Report ID 336027 on 7/9/2024 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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Project AHH138|HS24061313
Workorder 3366030

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3366030001	18WW19_061924	Ground Water	06/19/2024 07:25	06/26/2024 09:36	CBC	Collected By Client
3366030002	18WW20_061924	Ground Water	06/19/2024 08:15	06/26/2024 09:36	CBC	Collected By Client
3366030003	18WW25_061924	Ground Water	06/19/2024 09:00	06/26/2024 09:36	CBC	Collected By Client
3366030004	125_061924	Ground Water	06/19/2024 09:15	06/26/2024 09:36	CBC	Collected By Client
3366030005	Trip Blank	Ground Water	06/19/2024 00:00	06/26/2024 09:36	CBC	Collected By Client

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Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

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Project AHH138|HS24061313
Workorder 3366030

Project Notations

P1 This certificate of analysis was reissued to generate a data package.

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The surrogate Toluene-d8 for method SW846 8260D was outside of control limits. The % Recovery was reported as 113 and the control limits were 89 to 112. This result was reported at a dilution of 1.

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Project AHH138|HS24061313
Workorder 3366030

Detected Results Summary

Client Sample ID	125_061924	Collected	06/19/2024 09:15
Lab Sample ID	3366030004	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethene	9.9	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	0.38J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	1.5	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH138|HS24061313
Workorder 3366030

Detected Results Summary

Client Sample ID	Trip Blank	Collected	06/19/2024 00:00
Lab Sample ID	3366030005	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Trichlorofluoromethane	2.7	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW19_061924	Collected	06/19/2024 07:25
Lab Sample ID	3366030001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	07/01/2024 11:56	TMP	C
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	07/01/2024 11:56	TMP	C
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	07/01/2024 11:56	TMP	C

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW19_061924	Collected	06/19/2024 07:25
Lab Sample ID	3366030001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.2%	81 – 118	07/01/2024 11:56	
4-Bromofluorobenzene	460-00-4	97.3%	85 – 114	07/01/2024 11:56	
Dibromofluoromethane	1868-53-7	90.7%	80 – 119	07/01/2024 11:56	
Toluene-d8	2037-26-5	101%	89 – 112	07/01/2024 11:56	

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW20_061924	Collected	06/19/2024 08:15
Lab Sample ID	3366030002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	07/01/2024 12:16	TMP	B
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	07/01/2024 12:16	TMP	B
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	07/01/2024 12:16	TMP	B

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW20_061924	Collected	06/19/2024 08:15
Lab Sample ID	3366030002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	81 – 118	07/01/2024 12:16	
4-Bromofluorobenzene	460-00-4	109%	85 – 114	07/01/2024 12:16	
Dibromofluoromethane	1868-53-7	100%	80 – 119	07/01/2024 12:16	
Toluene-d8	2037-26-5	113*%	89 – 112	07/01/2024 12:16	1

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW25_061924	Collected	06/19/2024 09:00
Lab Sample ID	3366030003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	07/01/2024 12:36	TMP	B
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	07/01/2024 12:36	TMP	B
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	07/01/2024 12:36	TMP	B

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW25_061924	Collected	06/19/2024 09:00
Lab Sample ID	3366030003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.9%	81 – 118	07/01/2024 12:36	
4-Bromofluorobenzene	460-00-4	92.1%	85 – 114	07/01/2024 12:36	
Dibromofluoromethane	1868-53-7	93.1%	80 – 119	07/01/2024 12:36	
Toluene-d8	2037-26-5	98.5%	89 – 112	07/01/2024 12:36	

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	125_061924	Collected	06/19/2024 09:15
Lab Sample ID	3366030004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1-Dichloroethene	9.9	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	07/01/2024 12:57	TMP	B
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
cis-1,2-Dichloroethene	0.38J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	07/01/2024 12:57	TMP	B
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	07/01/2024 12:57	TMP	B

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	125_061924	Collected	06/19/2024 09:15
Lab Sample ID	3366030004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Trichloroethene	1.5	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.7%	81 – 118	07/01/2024 12:57	
4-Bromofluorobenzene	460-00-4	107%	85 – 114	07/01/2024 12:57	
Dibromofluoromethane	1868-53-7	93.8%	80 – 119	07/01/2024 12:57	
Toluene-d8	2037-26-5	100%	89 – 112	07/01/2024 12:57	

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	Trip Blank	Collected	06/19/2024 00:00
Lab Sample ID	3366030005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/28/2024 11:45	TMP	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/28/2024 11:45	TMP	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/28/2024 11:45	TMP	A

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	Trip Blank	Collected	06/19/2024 00:00
Lab Sample ID	3366030005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Trichlorofluoromethane	2.7	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/28/2024 11:45	
4-Bromofluorobenzene	460-00-4	102%	85 – 114	06/28/2024 11:45	
Dibromofluoromethane	1868-53-7	92.4%	80 – 119	06/28/2024 11:45	
Toluene-d8	2037-26-5	101%	89 – 112	06/28/2024 11:45	

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Project AHH138|HS24061313
Workorder 3366030

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3366030001	18WW19_061924	SW846 8260D	N/A	
3366030002	18WW20_061924	SW846 8260D	N/A	
3366030003	18WW25_061924	SW846 8260D	N/A	
3366030004	125_061924	SW846 8260D	N/A	
3366030005	Trip Blank	SW846 8260D	N/A	

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1236144	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366030005

Method Blank 3845975 (MB) Created on 06/28/2024 10:24 For QC Batch 1236144

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.60	30	102	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	26.80	30	89.4	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.60	30	92	80 - 119	
Toluene-d8	2037-26-5	BLK	30.30	30	101	89 - 112	

Lab Control Standard 3845976 (LCS) Created on 06/28/2024 10:24 For QC Batch 1236144

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.10		20	95.6	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.50		20	108	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.60		20	108	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	20.70		20	104	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	20.80		20	104	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.50		20	108	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20.60		20	103	79 - 125		

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,3-Trichlorobenzene	87-61-6	LCS	19.50		20	97.3	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.20		20	106	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.10		20	121	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.10		20	101	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90		20	94.7	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19		20	94.8	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	21.90		20	110	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	19.70		20	98.5	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	20.80		20	104	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.20		20	106	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.10		20	110	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	21.60		20	108	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	21.80		20	109	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.30		20	107	60 - 139		
2-Butanone	78-93-3	LCS	104		100	104	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	104		100	104	67 - 130		
Acetone	67-64-1	LCS	108		100	108	39 - 160		
Benzene	71-43-2	LCS	19.90		20	99.3	79 - 120		
Bromobenzene	108-86-1	LCS	20.10		20	100	80 - 120		
Bromochloromethane	74-97-5	LCS	21.20		20	106	78 - 123		
Bromodichloromethane	75-27-4	LCS	18.80		20	94.2	79 - 125		
Bromoform	75-25-2	LCS	18.10		20	90.3	66 - 130		
Bromomethane	74-83-9	LCS	20		20	100	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.10		20	106	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.40		20	87.2	72 - 136		
Chlorobenzene	108-90-7	LCS	20.60		20	103	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.10		20	90.4	74 - 126		
Chloroethane	75-00-3	LCS	20.30		20	102	60 - 138		
Chloroform	67-66-3	LCS	20.80		20	104	79 - 124		
Chloromethane	74-87-3	LCS	20.10		20	100	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	21.10		20	106	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.90		20	94.3	75 - 124		
Dibromomethane	74-95-3	LCS	20.20		20	101	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	20.10		20	101	32 - 152		
Ethylbenzene	100-41-4	LCS	19.10		20	95.7	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	22.70		20	113	66 - 134		
Isopropylbenzene	98-82-8	LCS	24.20		20	121	72 - 131		
Methylene Chloride	75-09-2	LCS	21.40		20	107	74 - 124		
mp-Xylene	108383/106423	LCS	38.90		40	97.2	80 - 121		
Naphthalene	91-20-3	LCS	19.90		20	99.6	61 - 128		
n-Butylbenzene	104-51-8	LCS	21.30		20	107	75 - 128		
n-Propylbenzene	103-65-1	LCS	21.10		20	106	76 - 126		
o-Chlorotoluene	95-49-8	LCS	21.40		20	107	79 - 122		
o-Xylene	95-47-6	LCS	19.30		20	96.4	78 - 122		
p-Chlorotoluene	106-43-4	LCS	22.40		20	112	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	21.80		20	109	77 - 127		

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
sec-Butylbenzene	135-98-8	LCS	22.90		20	115	77 - 126		
Styrene	100-42-5	LCS	21.20		20	106	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.20		20	101	74 - 129		
Toluene	108-88-3	LCS	19.60		20	98.2	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.50		20	108	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.60		20	97.9	73 - 127		
Trichloroethene	79-01-6	LCS	20.20		20	101	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	19.30		20	96.5	65 - 141		
Vinyl Chloride	75-01-4	LCS	19.70		20	98.7	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.40	30	101	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.20	30	97.3	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.70	30	98.9	80 - 119	
Toluene-d8	2037-26-5	LCS	30.30	30	101	89 - 112	

QC Batch

QC Batch	1238630	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366030001 3366030002 3366030003 3366030004

Method Blank 3846765 (MB) Created on 07/01/2024 10:31 For QC Batch 1238630

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	31.20	30	104	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	30.90	30	103	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.90	30	99.6	80 - 119	
Toluene-d8	2037-26-5	BLK	32.10	30	107	89 - 112	

Lab Control Standard 3846766 (LCS) Created on 07/01/2024 10:31 For QC Batch 1238630

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.60		20	97.8	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.70		20	108	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	20.90		20	104	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	20.40		20	102	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	20.30		20	101	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	20.60		20	103	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20		20	100	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	18.10		20	90.7	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	20.40		20	102	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	22.50		20	112	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.10		20	101	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	16.60		20	82.9	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19.10		20	95.3	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	21.20		20	106	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	19.40		20	97.2	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	20.20		20	101	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.20		20	106	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	21.70		20	108	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	20.90		20	105	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	21.40		20	107	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.10		20	106	60 - 139		
2-Butanone	78-93-3	LCS	97.80		100	97.8	56 - 143		
2-Hexanone	591-78-6	LCS	89.60		100	89.6	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	90.80		100	90.8	67 - 130		
Acetone	67-64-1	LCS	101		100	101	39 - 160		
Benzene	71-43-2	LCS	19.60		20	98.2	79 - 120		
Bromobenzene	108-86-1	LCS	21.20		20	106	80 - 120		
Bromochloromethane	74-97-5	LCS	21.80		20	109	78 - 123		
Bromodichloromethane	75-27-4	LCS	18.60		20	93.2	79 - 125		
Bromoform	75-25-2	LCS	17.20		20	85.9	66 - 130		
Bromomethane	74-83-9	LCS	19.50		20	97.4	53 - 141		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Carbon Disulfide	75-15-0	LCS	20.80		20	104	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	18.20		20	90.9	72 - 136		
Chlorobenzene	108-90-7	LCS	20.70		20	104	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.10		20	90.6	74 - 126		
Chloroethane	75-00-3	LCS	19.10		20	95.6	60 - 138		
Chloroform	67-66-3	LCS	20.80		20	104	79 - 124		
Chloromethane	74-87-3	LCS	19		20	95	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	20.50		20	102	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.60		20	92.9	75 - 124		
Dibromomethane	74-95-3	LCS	20.70		20	104	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	19.50		20	97.4	32 - 152		
Ethylbenzene	100-41-4	LCS	19.60		20	98	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	21		20	105	66 - 134		
Isopropylbenzene	98-82-8	LCS	22.70		20	114	72 - 131		
Methylene Chloride	75-09-2	LCS	20.20		20	101	74 - 124		
mp-Xylene	108383/106423	LCS	39		40	97.5	80 - 121		
Naphthalene	91-20-3	LCS	18		20	89.8	61 - 128		
n-Butylbenzene	104-51-8	LCS	21.20		20	106	75 - 128		
n-Propylbenzene	103-65-1	LCS	21.70		20	109	76 - 126		
o-Chlorotoluene	95-49-8	LCS	21.40		20	107	79 - 122		
o-Xylene	95-47-6	LCS	19.50		20	97.5	78 - 122		
p-Chlorotoluene	106-43-4	LCS	21.80		20	109	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	21.60		20	108	77 - 127		
sec-Butylbenzene	135-98-8	LCS	22.40		20	112	77 - 126		
Styrene	100-42-5	LCS	19.60		20	97.8	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.60		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.70		20	104	74 - 129		
Toluene	108-88-3	LCS	19.60		20	97.8	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	20		20	100	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.90		20	94.3	73 - 127		
Trichloroethene	79-01-6	LCS	20.10		20	100	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	19.10		20	95.6	65 - 141		
Vinyl Chloride	75-01-4	LCS	18.80		20	94	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	28.50	30	94.9	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.90	30	99.6	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.40	30	98	80 - 119	
Toluene-d8	2037-26-5	LCS	29.70	30	99.1	89 - 112	

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Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Matrix Spike 3846786 (MS) 3366030001 For QC Batch 1238630

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3846787 (MSD) 3366030001 For QC Batch 1238630

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	19.20	0	20	96	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	18.10	0	20	90.7	78 - 124	RPD 5.64 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	22.20	0	20	111	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	21.40	0	20	107	74 - 131	RPD 3.43 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	22.70	0	20	113	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21.20	0	20	106	71 - 121	RPD 6.87 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	21.20	0	20	106	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	20	0	20	99.8	80 - 119	RPD 5.88 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	21	0	20	105	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	20.50	0	20	102	77 - 125	RPD 2.77 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	22.70	0	20	113	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	21.10	0	20	106	71 - 131	RPD 7.16 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	21.20	0	20	106	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	20.10	0	20	100	79 - 125	RPD 5.24 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	17.40	0	20	86.8	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	16.20	0	20	80.8	69 - 129	RPD 7.08 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.10	0	20	111	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	20	0	20	99.8	73 - 122	RPD 10.40 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	21.50	0	20	107	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	20.20	0	20	101	69 - 130	RPD 6.34 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	20.90	0	20	105	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	19.20	0	20	95.9	76 - 124	RPD 8.68 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	16.70	0	20	83.7	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	16	0	20	80.2	62 - 128	RPD 4.27 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	19	0	20	95.1	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	18.20	0	20	90.8	77 - 121	RPD 4.68 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	21.70	0	20	108	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	20.10	0	20	101	80 - 119	RPD 7.51 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	20.40	0	20	102	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	20	0	20	100	73 - 128	RPD 1.77 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	20.60	0	20	103	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	20	0	20	100	78 - 122	RPD 2.80 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	22.70	0	20	114	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	20.70	0	20	104	75 - 124	RPD 9.19 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.10	0	20	110	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	20.10	0	20	100	80 - 119	RPD 9.34 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	22.10	0	20	110	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	20.50	0	20	102	80 - 119	RPD 7.47 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	21.20	0	20	106	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	20	0	20	99.9	79 - 118	RPD 5.97 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	18.70	0	20	93.6	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	18.70	0	20	93.4	60 - 139	RPD 0.23 (Max-30)	

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	MS	92.40	0	100	92.4	56 - 143		
2-Butanone	78-93-3	MSD	90.30	0	100	90.3	56 - 143	RPD 2.36 (Max-30)	
2-Hexanone	591-78-6	MS	95.50	0	100	95.5	57 - 139		
2-Hexanone	591-78-6	MSD	91.80	0	100	91.8	57 - 139	RPD 3.89 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	98.90	0	100	98.9	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	94.60	0	100	94.6	67 - 130	RPD 4.48 (Max-30)	
Acetone	67-64-1	MS	86.50	0	100	86.5	39 - 160		
Acetone	67-64-1	MSD	88.70	0	100	88.7	39 - 160	RPD 2.44 (Max-30)	
Benzene	71-43-2	MS	20.20	0	20	101	79 - 120		
Benzene	71-43-2	MSD	19.50	0	20	97.6	79 - 120	RPD 3.48 (Max-30)	
Bromobenzene	108-86-1	MS	21.80	0	20	109	80 - 120		
Bromobenzene	108-86-1	MSD	20.40	0	20	102	80 - 120	RPD 6.61 (Max-30)	
Bromochloromethane	74-97-5	MS	20.70	0	20	103	78 - 123		
Bromochloromethane	74-97-5	MSD	20.30	0	20	101	78 - 123	RPD 1.94 (Max-30)	
Bromodichloromethane	75-27-4	MS	18.70	0	20	93.4	79 - 125		
Bromodichloromethane	75-27-4	MSD	18.10	0	20	90.5	79 - 125	RPD 3.06 (Max-30)	
Bromoform	75-25-2	MS	17.30	0	20	86.5	66 - 130		
Bromoform	75-25-2	MSD	16.10	0	20	80.6	66 - 130	RPD 7.03 (Max-30)	
Bromomethane	74-83-9	MS	21.70	0	20	109	53 - 141		
Bromomethane	74-83-9	MSD	21.10	0	20	106	53 - 141	RPD 2.76 (Max-30)	
Carbon Disulfide	75-15-0	MS	20.40	0	20	102	64 - 133		
Carbon Disulfide	75-15-0	MSD	19.70	0	20	98.4	64 - 133	RPD 3.49 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	17.80	0	20	89.2	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	17.60	0	20	87.9	72 - 136	RPD 1.50 (Max-30)	
Chlorobenzene	108-90-7	MS	21.20	0	20	106	82 - 118		
Chlorobenzene	108-90-7	MSD	20.10	0	20	100	82 - 118	RPD 5.17 (Max-30)	
Chlorodibromomethane	124-48-1	MS	17.60	0	20	88	74 - 126		
Chlorodibromomethane	124-48-1	MSD	17.10	0	20	85.5	74 - 126	RPD 2.91 (Max-30)	
Chloroethane	75-00-3	MS	20.30	0	20	101	60 - 138		
Chloroethane	75-00-3	MSD	19.10	0	20	95.5	60 - 138	RPD 6 (Max-30)	
Chloroform	67-66-3	MS	20.70	0	20	103	79 - 124		
Chloroform	67-66-3	MSD	20.20	0	20	101	79 - 124	RPD 2.10 (Max-30)	
Chloromethane	74-87-3	MS	21	0	20	105	50 - 139		
Chloromethane	74-87-3	MSD	19.90	0	20	99.6	50 - 139	RPD 5.20 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	22.60	0	20	113	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	21.70	0	20	109	78 - 123	RPD 3.86 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	18.60	0	20	93.1	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	17.70	0	20	88.4	75 - 124	RPD 5.22 (Max-30)	
Dibromomethane	74-95-3	MS	19.90	0	20	99.3	79 - 123		
Dibromomethane	74-95-3	MSD	19.70	0	20	98.6	79 - 123	RPD 0.71 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	19.40	0	20	96.8	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	18.80	0	20	94	32 - 152	RPD 2.91 (Max-30)	
Ethylbenzene	100-41-4	MS	20.20	0	20	101	79 - 121		
Ethylbenzene	100-41-4	MSD	18.60	0	20	93.1	79 - 121	RPD 8.35 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	19.10	0	20	95.3	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	18.10	0	20	90.4	66 - 134	RPD 5.29 (Max-30)	
Isopropylbenzene	98-82-8	MS	24.40	0	20	122	72 - 131		
Isopropylbenzene	98-82-8	MSD	22.20	0	20	111	72 - 131	RPD 9.30 (Max-30)	
Methylene Chloride	75-09-2	MS	20.40	0	20	102	74 - 124		

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methylene Chloride	75-09-2	MSD	19.70	0	20	98.4	74 - 124	RPD 3.76 (Max-30)	
mp-Xylene	108383/106423	MS	39.50	0	40	98.7	80 - 121		
mp-Xylene	108383/106423	MSD	37.50	0	40	93.9	80 - 121	RPD 5.07 (Max-30)	
Naphthalene	91-20-3	MS	17.80	0	20	88.8	61 - 128		
Naphthalene	91-20-3	MSD	16.80	0	20	84	61 - 128	RPD 5.60 (Max-30)	
n-Butylbenzene	104-51-8	MS	21.20	0	20	106	75 - 128		
n-Butylbenzene	104-51-8	MSD	19.40	0	20	97.2	75 - 128	RPD 8.70 (Max-30)	
n-Propylbenzene	103-65-1	MS	22.90	0	20	115	76 - 126		
n-Propylbenzene	103-65-1	MSD	21	0	20	105	76 - 126	RPD 8.59 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.30	0	20	116	79 - 122		
o-Chlorotoluene	95-49-8	MSD	21.20	0	20	106	79 - 122	RPD 9.42 (Max-30)	
o-Xylene	95-47-6	MS	19.60	0	20	98.1	78 - 122		
o-Xylene	95-47-6	MSD	18.70	0	20	93.5	78 - 122	RPD 4.83 (Max-30)	
p-Chlorotoluene	106-43-4	MS	23.20	0	20	116	78 - 122		
p-Chlorotoluene	106-43-4	MSD	21.20	0	20	106	78 - 122	RPD 9.27 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	22.20	0	20	111	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	20.90	0	20	105	77 - 127	RPD 5.63 (Max-30)	
sec-Butylbenzene	135-98-8	MS	23.90	0	20	119	77 - 126		
sec-Butylbenzene	135-98-8	MSD	22.20	0	20	111	77 - 126	RPD 7.27 (Max-30)	
Styrene	100-42-5	MS	20.30	0	20	102	78 - 123		
Styrene	100-42-5	MSD	19.20	0	20	96.1	78 - 123	RPD 5.61 (Max-30)	
tert-Butylbenzene	98-06-6	MS	23.50	0	20	118	78 - 124		
tert-Butylbenzene	98-06-6	MSD	22	0	20	110	78 - 124	RPD 6.50 (Max-30)	
Tetrachloroethene	127-18-4	MS	20	0	20	99.9	74 - 129		
Tetrachloroethene	127-18-4	MSD	19.10	0	20	95.5	74 - 129	RPD 4.53 (Max-30)	
Toluene	108-88-3	MS	20.70	0	20	104	80 - 121		
Toluene	108-88-3	MSD	19.30	0	20	96.3	80 - 121	RPD 7.36 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	21.60	0	20	108	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	20.50	0	20	102	75 - 124	RPD 5.43 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	18.70	0	20	93.5	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	17.60	0	20	88	73 - 127	RPD 6.12 (Max-30)	
Trichloroethene	79-01-6	MS	22.10	0	20	111	79 - 123		
Trichloroethene	79-01-6	MSD	20.80	0	20	104	79 - 123	RPD 6.05 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	19.60	0	20	98.1	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	18.40	0	20	92.2	65 - 141	RPD 6.11 (Max-30)	
Vinyl Chloride	75-01-4	MS	19.80	0	20	99.1	58 - 137		
Vinyl Chloride	75-01-4	MSD	18.70	0	20	93.3	58 - 137	RPD 6.05 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	30.90	30	103	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	30.20	30	101	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30.10	30	100	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	29.90	30	99.6	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30	30	100	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	29.20	30	97.5	80 - 119	
Toluene-d8	2037-26-5	MS	31.70	30	106	89 - 112	

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Toluene-d8	2037-26-5	MSD	30.30	30	101	89 - 112	

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3366030001	18WW19_061924	N/A	N/A	N/A		SW846 8260D	1238630
3366030002	18WW20_061924	N/A	N/A	N/A		SW846 8260D	1238630
3366030003	18WW25_061924	N/A	N/A	N/A		SW846 8260D	1238630
3366030004	125_061924	N/A	N/A	N/A		SW846 8260D	1238630
3366030005	Trip Blank	N/A	N/A	N/A		SW846 8260D	1236144

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Houston,
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F: +1 281 530 5656
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3366030
Logged By: CXW
PM: SSL

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 26144

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057

Phone: +1 717 702 2244

CUSTOMER INFORMATION:

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

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24061313
TSR:	Sonia West

	LAB SAMPLE ID / ANALYSIS REQUESTED	CLIENT SAMPLE ID		MATRIX	COLLECT DATE / DUE DATE
1.	**HS24061313-01**	**18WW19_061924**	9-G/MCL MS/MSD	**Water**	**19 Jun 2024 07:25**
	Custom selection				05 Jul 2024
2.	**HS24061313-02**	**18WW20_061924**	3-G/MCL	**Water**	**19 Jun 2024 08:15**
	Custom selection				05 Jul 2024
3.	**HS24061313-03**	**18WW25_061924**		**Water**	**19 Jun 2024 09:00**
	Custom selection				05 Jul 2024
4.	**HS24061313-04**	**125_061924**		**Water**	**19 Jun 2024 09:15**
	Custom selection				05 Jul 2024
5.	**HS24061313-07**	**Trip Blank**		**Water**	**19 Jun 2024 00:00**
	Custom selection				05 Jul 2024

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

QC Level: DOD IV (DoD Data Package)

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7/9/2024 10:15 AM

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26144**

Relinquished By: _____ Date/Time: _____

Received By: Fedex Date/Time: _____

~~Cooler ID(s):~~ Fedex ~~Temperature(s):~~ 6/26/24 936

6/26/24 936

Temp By: MJE | WO Temp (°C) 1° | Therm ID 570

Receipt Info Completed By:	MJE
Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N NA
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	Y N
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N NA
NI≤4 Days?	Y N
Rad Screen (uCi)	
Courier/Tracking #:	

738879234761

SDWA Compliance Y N

PWSID

WV Containers 0-6°C Y N NA

*No sampler, GIC, GIHCL-MJE 6/26/24

pm notified WO2724

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7/9/2024 10:15 AM

July 11, 2024 Service Request No:E2400735

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

Laboratory Results for: HS24061313

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 21, 2024
For your reference, these analyses have been assigned our service request number **E2400735.**

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

Certificate of Analysis

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

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Client:	ALS Environmental - US	**Service Request No.:**	E2400735
Project:	HS24061313	**Date Received:**	06/21/24
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Six samples were received for analysis at ALS Environmental in Houston on 06/21/24.

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

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400375: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

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

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

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Client: ALS Environmental - US **Service Request:**E2400735
Project: HS24061313

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400735-001	18WW19_061924	6/19/2024	0725
E2400735-002	18WW20_061924	6/19/2024	0815
E2400735-003	18WW25_061924	6/19/2024	0900
E2400735-004	125_061924	6/19/2024	0915
E2400735-005	18CPTMW16_061924	6/19/2024	1050
E2400735-006	18CPTMW16_061924_a	6/19/2024	1050

Service Request Summary

Folder #: **E2400735**
Client Name: ALS Environmental - US
Project Name: HS24061313
Project Number:

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

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/21/24
Internal Due Date: 7/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400735-001	18WW19_061924	Water	06/19/24 0725	**IV**
E2400735-002	18WW20_061924	Water	06/19/24 0815	**IV**
E2400735-003	18WW25_061924	Water	06/19/24 0900	**IV**
E2400735-004	125_061924	Water	06/19/24 0915	**IV**
E2400735-005	18CPTMW16_061924	Water	06/19/24 1050	**IV**
E2400735-006	18CPTMW16_061924_a	Water	06/19/24 1050	**IV**

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Service Request Summary

Folder #: **E2400735**
Client Name: ALS Environmental - US
Project Name: HS24061313
Project Number:

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

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/21/24
Internal Due Date: 7/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

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Data Qualifiers

Lab Standard

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

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Data Qualifiers

Lab Standard

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

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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
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Hawaii Department of Health	2024	4/30/2025
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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E2400735 5
ALS Laboratory Group
HS24061313

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26111**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

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

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24061313
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24061313-01**	**18ww19_061924**	**Water**	**19 Jun 2024 07:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024
2.	**HS24061313-02**	**18ww20_061924**	**Water**	**19 Jun 2024 08:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024
3.	**HS24061313-03**	**18ww25_061924**	**Water**	**19 Jun 2024 09:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024
4.	**HS24061313-04**	**125_061924**	**Water**	**19 Jun 2024 09:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024
5.	**HS24061313-05**	**18CPTMW16_061924**	**Water**	**19 Jun 2024 10:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024
6.	**HS24061313-06**	**18CPTMW16_061924_a**	**Water**	**19 Jun 2024 10:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024

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

MS/MSD on Sample (-01)

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26111**

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

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

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E2400735 5
ALS Laboratory Group
HS24061313

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

Sample Receipt Checklist

Work Order ID: HS24061313 **Date/Time received:** 20 Jun 2024 09:25

Client name: Bhate Environmental Associates, Inc. **Received by:** Belinda Gomez

Completed/By: 20 Jun 2024 22:10 (Date/Time) Michael Lucio (eSignature) **Reviewed/By:** 21 Jun 2024 13:28 (Date/Time) Luis.Aguilar (eSignature)

Matrices: w **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	1 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 0.8uc/0.9c IR31

Cooler Information: 1 Cooler(s), Blue

Date/Time sample(s) sent to storage: 06/20/2024 22:11

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

pH adjusted by:

Login notes:

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

Contacted by: **Regarding:**

Comments:

Corrective action:

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

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

Preparation Information Benchsheet

Prep Run#: 441034 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 7/3/24 11:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400734-021	ICT14C_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
2	E2400734-022	ICT14D_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2400734-023	ICT14E_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
4	E2400735-001	18WW19_061924	.01	6850/ClO4 DOD			Water	10mL	
5	E2400735-002	18WW20_061924	.01	6850/ClO4 DOD			Water	10mL	
6	E2400735-003	18WW25_061924	.01	6850/ClO4 DOD			Water	10mL	
7	E2400735-004	125_061924	.01	6850/ClO4 DOD			Water	10mL	
8	E2400735-005	18CPTMW16_061924	.01	6850/ClO4 DOD			Water	10mL	
9	E2400735-006	18CPTMW16_061924_a	.01	6850/ClO4 DOD			Water	10mL	
10	E2400736-001	130_062124	.02	6850/ClO4 DOD			Water	10mL	
11	E2400736-002	17WW03_062124	.02	6850/ClO4 DOD			Water	10mL	
12	E2400736-003	17WW01_062124	.02	6850/ClO4 DOD			Water	10mL	
13	E2400736-004	17WW01_062124_A	.02	6850/ClO4 DOD			Water	10mL	
14	E2400736-005	17WW02_062124	.02	6850/ClO4 DOD			Water	10mL	
15	E2400736-006	17WW06_062124	.02	6850/ClO4 DOD			Water	10mL	
16	E2400785-001	LGAC-INF-070124	.01	6850/ClO4 DOD			Water	10mL	
17	E2400787-001	LH18/24-SP650_070224_AIX	.01	6850/ClO4 DOD			Water	10mL	
18	E2400788-001	LH18/24-SP650_070224_BIX	.01	6850/ClO4 DOD			Water	10mL	
19	E2400788-002	LH18/24-SP650_070224_AIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400789-001	LH18/24-SP140_070224	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400375-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400375-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400375-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2400375-04	ICS		6850/ClO4 DOD			Liquid	10mL	
25	EQ2400375-05	18WW19_061924 MS	.01	6850/ClO4 DOD			Liquid	10mL	
26	EQ2400375-06	18WW19_061924 DMS	.01	6850/ClO4 DOD			Liquid	10mL	
27	EQ2400375-07	17WW03_062124 MS	.02	6850/ClO4 DOD			Liquid	10mL	
28	EQ2400375-08	17WW03_062124 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

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

EQ2400375-04 20.00µL

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Preparation Information Benchsheet

Prep Run#: 441034 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 7/3/24 11:00

Name:	Perchlorate Internal Standard 1ug/mL	Inventory ID	236095	Logbook Ref:	Perchlorate IS cg7/3/24	Expires On:	11/24/2024

E2400734-021	100.00µL	E2400734-022	100.00µL	E2400734-023	100.00µL	E2400735-001	100.00µL	E2400735-002	100.00µL	E2400735-003	100.00µL
E2400735-004	100.00µL	E2400735-005	100.00µL	E2400735-006	100.00µL	E2400736-001	100.00µL	E2400736-002	100.00µL	E2400736-003	100.00µL
E2400736-004	100.00µL	E2400736-005	100.00µL	E2400736-006	100.00µL	E2400785-001	100.00µL	E2400787-001	100.00µL	E2400788-001	100.00µL
E2400788-002	100.00µL	E2400789-001	100.00µL	EQ2400375-01	100.00µL	EQ2400375-02	100.00µL	EQ2400375-03	100.00µL	EQ2400375-04	100.00µL
EQ2400375-05	100.00µL	EQ2400375-06	100.00µL	EQ2400375-07	100.00µL	EQ2400375-08	100.00µL				

Name:	Perchlorate Intermediate Stock 3	Inventory ID	236096	Logbook Ref:	Perchlorate Inter. Stock 3 cg7	Expires On:	10/25/2024

EQ2400375-02	100.00µL	EQ2400375-03	100.00µL	EQ2400375-04	100.00µL	EQ2400375-05	100.00µL	EQ2400375-06	100.00µL	EQ2400375-07	100.00µL
EQ2400375-08	100.00µL										

Preparation Materials

6850 Luer-Lok Syringes Luer Lok Syringes (235268)

Preparation Steps

Step: Preparation
Started: 7/3/24 11:00
Finished: 7/3/24 13:32
By: JOSEL.JUAREZ
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:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0725
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18WW19_061924	**Units:**	µg/L
Lab Code:	E2400735-001	**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	7/ 3/24	7/5/24 17:28	441034	846917	*

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0815
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18WW20_061924	**Units:**	µg/L
Lab Code:	E2400735-002	**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	7/ 3/24	7/5/24 18:07	441034	846917	*

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0900
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18WW25_061924	**Units:**	µg/L
Lab Code:	E2400735-003	**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	7/ 3/24	7/5/24 18:12	441034	846917	*

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0915
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	125_061924	**Units:**	µg/L
Lab Code:	E2400735-004	**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	**1340**		10.0	5.00	2.50	100	7/ 3/24	7/10/24 15:00	441034	846941	*

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 1050
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18CPTMW16_061924	**Units:**	µg/L
Lab Code:	E2400735-005	**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	7/ 3/24	7/5/24 18:23	441034	846917	*

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 1050
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18CPTMW16_061924_a	**Units:**	µg/L
Lab Code:	E2400735-006	**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	7/ 3/24	7/5/24 18:29	441034	846917	*

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400375-01	**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	7/ 3/24	7/5/24 13:51	441034	846469	

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Accuracy & Precision

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dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Analyzed:**	07/05/24
Sample Matrix:	Water	**Date Extracted:**	07/03/24

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

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	846469

	Lab Control Sample EQ2400375-02			Duplicate Lab Control Sample EQ2400375-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.105	0.100	105	0.104	0.100	104	84-119	2	15

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400375-02	**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	**0.105**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 13:56	441034	846469	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400375-03	**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	**0.104**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 14:02	441034	846469	

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dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	06/19/24
Sample Matrix:	Water	**Date Received:**	06/21/24
		Date Analyzed:	07/5/24
		Date Extracted:	07/3/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	18WW19_061924	**Units:**	ug/L
Lab Code:	E2400735-001	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike EQ2400375-05			Duplicate Matrix Spike EQ2400375-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	ND U	0.115	0.100	115	0.111	0.100	111	84-119	4	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.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0725
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18WW19_061924	**Units:**	µg/L
Lab Code:	EQ2400375-05	**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	**0.115**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 17:56	441034	846917	

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0725
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18WW19_061924	**Units:**	µg/L
Lab Code:	EQ2400375-06	**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	**0.111**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 18:01	441034	846917	

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HS24061313-MSSEMI-SW8270SIM

ALS WO# HS24061313

01304542

right solutions.
right partner.

Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061313

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

08/02/2024

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www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24061313

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-471227

18WW20_061924

Matrix	Analysis Date	Conc Units	Dilution
Water	07/03/24 14:42	%REC	1

Lab Sample ID HS24061313-02

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	12.D	0.053	0.08	66.6		40-140
4-Terphenyl-d14	12.D	0.047	0.08	58.7		40-140
Nitrobenzene-d5	12.D	0.051	0.08	63.7		40-140

18WW25_061924

Matrix	Analysis Date	Conc Units	Dilution
Water	07/03/24 15:00	%REC	1

Lab Sample ID HS24061313-03

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	13.D	0.063	0.08	79.3		40-140
4-Terphenyl-d14	13.D	0.054	0.08	68.0		40-140
Nitrobenzene-d5	13.D	0.061	0.08	75.9		40-140

18CPTMW16_061924

Matrix	Analysis Date	Conc Units	Dilution
Water	07/03/24 15:17	%REC	1

Lab Sample ID HS24061313-05

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	14.D	0.087	0.08	109		40-140
4-Terphenyl-d14	14.D	0.063	0.08	78.6		40-140
Nitrobenzene-d5	14.D	0.089	0.08	111		40-140

18CPTMW16_061924_a

Matrix	Analysis Date	Conc Units	Dilution
Water	07/03/24 15:35	%REC	1

Lab Sample ID HS24061313-06

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	15.D	0.061	0.08	76.0		40-140
4-Terphenyl-d14	15.D	0.046	0.08	57.3		40-140
Nitrobenzene-d5	15.D	0.059	0.08	74.0		40-140

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24061313

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-471227

LCS-213966

Lab Sample ID	Matrix	Analysis Date	Conc Units	Dilution
LCS-213966	Aqueous	07/03/24 12:58	%REC	1

Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	06.D	0.05954	0.08	74.4		40-140
4-Terphenyl-d14	06.D	0.05191	0.08	64.9		40-140
Nitrobenzene-d5	06.D	0.0559	0.08	69.9		40-140

LCSD-213966

Lab Sample ID	Matrix	Analysis Date	Conc Units	Dilution
LCSD-213966	Aqueous	07/03/24 13:15	%REC	1

Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	07.D	0.06074	0.08	75.9		40-140
4-Terphenyl-d14	07.D	0.05107	0.08	63.8		40-140
Nitrobenzene-d5	07.D	0.0564	0.08	70.5		40-140

MBLK-213966

Lab Sample ID	Matrix	Analysis Date	Conc Units	Dilution
MBLK-213966	Aqueous	07/03/24 12:40	%REC	1

Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	05.D	0.05731	0.08	71.6		40-140
4-Terphenyl-d14	05.D	0.04527	0.08	56.6		40-140
Nitrobenzene-d5	05.D	0.05426	0.08	67.8		40-140

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Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24061313

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

08/02/2024

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

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24061313

EPA 3510

SAMPLENUM LCS-213966

SV-6_471227				LCS-213966		LCSD-213966					
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	07/03/24	Run Date	07/03/24				
Prep Date	06/23/24	Analysis Batch	213966	Run Time	12:58	Run Time	13:15				
Prep Method	SW3510	Prep Batch	213966	Prep Amt	1000 mL	Prep Amt	1000 mL				

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane	40-140	0.08	0.05215	65		0.05072	63		20	2.77	

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Form 4

Method Blank Summary

EPA 3510

Workorder

HS24061313

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

08/02/2024

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 18 24

Workorder HS24061313

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-213966	06/23/24	213966	Aqueous	07/03/24 12:40	213966	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-213966	LCS-213966	LCS	07/03/24 12:58	213966	SV6	06.D
LCSD-213966	LCSD-213966	LCSD	07/03/24 13:15	213966	SV6	07.D
18WW20_061924	HS24061313-02	SAMP	07/03/24 14:42	213966	SV6	12.D
18WW25_061924	HS24061313-03	SAMP	07/03/24 15:00	213966	SV6	13.D
18CPTMW16_061924	HS24061313-05	SAMP	07/03/24 15:17	213966	SV6	14.D
18CPTMW16_061924_a	HS24061313-06	SAMP	07/03/24 15:35	213966	SV6	15.D

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Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061313

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

08/02/2024

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

ALS Houston, US Date: 02-Aug-24

Form 5 - Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313 **Run ID:** SV-6_471227

Lab File ID: 01.D
Instrument ID: SV-6
Injection Date: 03-Jul-2024
Injection Time: 08:49

m/e	Ion Abundance Criterion	% Relative Abundance
51	10.0 - 80.0% of mass 198	25.6
68	Less than 2.0% of mass 69	0.6 (2.0) 1
69	Mass 69 relative abundance	30.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	40.2
197	Less than 2.0% of mass 198	0.0
198	Base peak, 100% relative abundance	88.7
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	29.6
365	Greater than 1.0% of mass 198	3.1
441	Present, but < 24.0% of mass 442	72.7
442	greater than 50.0% of mass 198	113.0
443	15.0 - 24.0% of mass 442	22.4 (19.8) 2

1-Value is % mass 69 2-Value is % mass 442

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
14DX-0.08	14DX-0.08	04B.D	03-Jul-2024 11:59
MBLK-213966	MBLK-213966	05.D	03-Jul-2024 12:40
LCS-213966	LCS-213966	06.D	03-Jul-2024 12:58
LCSD-213966	LCSD-213966	07.D	03-Jul-2024 13:15
18WW20_061924	HS24061313-02	12.D	03-Jul-2024 14:42
18WW25_061924	HS24061313-03	13.D	03-Jul-2024 15:00
18CPTMW16_061924	HS24061313-05	14.D	03-Jul-2024 15:17
18CPTMW16_061924_a	HS24061313-06	15.D	03-Jul-2024 15:35
14DX-0.08	14DX-0.08	16.D	03-Jul-2024 15:52

ALS Houston, US

Date: 02-Aug-24

Form 5 - Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313 **Run ID:** SV-6_472536

Lab File ID: 01.D
Instrument ID: SV-6
Injection Date: 18-Apr-2024
Injection Time: 10:39

m/e	Ion Abundance Criterion	% Relative Abundance
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	28.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.4
198	Base peak, 100% relative abundance	71.5
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.4
365	Greater than 1.0% of mass 198	4.0
441	Present, but < 24.0% of mass 442	74.3
442	greater than 50.0% of mass 198	139.9
443	15.0 - 24.0% of mass 442	27.6 (19.7) 2

1-Value is % mass 69 2-Value is % mass 442

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
14DX-0.08	14DX-0.08	03A.D	18-Apr-2024 12:24
14DX-0.01	14DX-0.01	04.D	18-Apr-2024 12:49
14DX-0.03	14DX-0.03	05.D	18-Apr-2024 13:07
14DX-0.05	14DX-0.05	06.D	18-Apr-2024 13:25
14DX-0.10	14DX-0.10	07.D	18-Apr-2024 13:42
14DX-0.15	14DX-0.15	08.D	18-Apr-2024 14:00
14DX-0.20	14DX-0.20	09.D	18-Apr-2024 14:18
14DX-0.50	14DX-0.50	10.D	18-Apr-2024 14:35
14DX ICV-0.08	14DX ICV-0.08	11.D	18-Apr-2024 14:53

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS24061313**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-471227

Tune File 01.D 07/03/24 7/3/2024

m / e	Ion Abundance Criterion	%RA
51	10.0 - 80.0% of mass 198	25.6 (25.6)
68	Less than 2.0% of mass 69	0.6 (1.98) 1
69	Mass 69 RA	30.2 (30.2)
70	Less than 2.0% of mass 69	0.2 (0.571) 1
127	10.0 - 80.0% of mass 198	40.2 (40.2)
197	Less than 2.0% of mass 198	0 (0)
198	Base peak, 100% RA	100 (88.7)
199	5.0 - 9.0% of mass 198	6.4 (6.39)
275	10.0 - 60.0% of mass 198	29.6 (29.6)
365	Greater than 1.0% of mass 198	3.1 (3.14)
441	Present, but < 24.0% of mass 442	16.3 (72.7)
442	greater than 50.0% of mass 198	112.8 (113)
443	15.0 - 24.0% of mass 442	22.4 (19.8) 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	7/3/2024	04B	14DX-0.08
2	MBLK-213966	MBLK	7/3/2024	05	MBLK-213966
3	LCS-213966	LCS	7/3/2024	06	LCS-213966
4	LCSD-213966	LCSD	7/3/2024	07	LCSD-213966
5	HS24061313-	SAMP	7/3/2024	12	18WW20_061924
6	HS24061313-	SAMP	7/3/2024	13	18WW25_061924
7	HS24061313-	SAMP	7/3/2024	14	18CPTMW16_061924
8	HS24061313-	SAMP	7/3/2024	15	18CPTMW16_061924_a
9	14DX-0.08	CCV	7/3/2024	16	14DX-0.08

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Compound	0.01000 Level 1 / 0.20000 Level 7	0.03000 Level 2 / 0.50000 Level 8	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	% RSD
1 1,4-Dioxane	0.26786 / 0.21892	0.20193 / 0.19957	0.21510	0.19340	0.20406	0.21271	0.21419	10.884
$ 9 2-Fluorophenol	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####
$ 13 Phenol-d6	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####

$ 33 Nitrobenzene-d5	0.25417	0.27709	0.33446	0.25539	0.31770	0.31230		
	0.32399	0.32657					0.30021	10.938
$ 69 2-Fluorobiphenyl	1.58567	1.48291	1.52552	1.25243	1.62605	1.59900		
	1.54935	1.60832					1.52866	7.930
$ 105 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
$ 158 4-Terphenyl-d14	2.22448	1.99483	2.00359	1.46918	2.10278	2.04892		
	2.19122	2.26244					2.03718	12.300

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061313

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

08/02/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24061313

RunID 11.D

Semi-Volatiles by Semivolatiles SIM

Sample Matrix LIQUID
Lab Smp Id 14DX ICV-0.08
Data Type MS DATA
File ID 11.D

Fraction SV
Client Smp ID 14DX ICV-0.08
SampleType METHSPIKE
Inj Date 18-APR-2024 1453

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.080	0.076	94.6	80-120	
Nitrobenzene-d5	0.080	0.073	91.4	40-140	
2-Fluorobiphenyl	0.080	0.070	88.0	40-140	
4-Terphenyl-d14	0.080	0.071	88.2	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061313

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

08/02/2024

ALS Environmental–Houston Laboratory
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Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24061313

RunID 04B.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 04B.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 03-JUL-2024 1159
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.284	0.010	-5.410	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.48	0.010	-3.405	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.68	0.010	-17.493	20.0	Averaged	
1,4-Dioxane	0.214	0.194	0.010	-9.324	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24061313

RunID 16.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 16.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 03-JUL-2024 1552
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.299	0.010	-0.493	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.69	0.010	10.4	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.72	0.010	-15.688	20.0	Averaged	
1,4-Dioxane	0.214	0.198	0.010	-7.589	20.0	Averaged	

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04B Date Analyzed: 07/03/24

Instrument ID: SV6 Time Analyzed: 1159

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	2510	3.50	8148	4.58	4937	6.24
	UPPER LIMIT	5020	4.00	16296	5.08	9874	6.74
	LOWER LIMIT	1255	3.00	4074	4.08	2469	5.74
	CLIENT SAMPLE NO.						
01	MBLK-213966	4392	3.51	13879	4.58	8412	6.25
02	LCS-213966	3008	3.50	9707	4.58	5920	6.24
03	LCSD-213966	2660	3.50	8003	4.58	4893	6.24
04	HS24061313-0	3757	3.51	11720	4.58	7211	6.25
05	HS24061313-0	3712	3.51	11516	4.58	7180	6.24
06	HS24061313-0	3394	3.50	10579	4.58	6653	6.24
07	HS24061313-0	2843	3.50	9252	4.58	5653	6.24
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04B Date Analyzed: 07/03/24

Instrument ID: SV6 Time Analyzed: 1159

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	9658	7.69	8162	10.65	9007	12.82
	UPPER LIMIT	19316	8.19	16324	11.15	18014	13.32
	LOWER LIMIT	4829	7.19	4081	10.15	4504	12.32
	CLIENT SAMPLE NO.						
01	MBLK-213966	16293	7.70	15037	10.66	14725	12.82
02	LCS-213966	11519	7.69	10808	10.65	11024	12.82
03	LCSD-213966	9556	7.69	8980	10.65	9194	12.82
04	HS24061313-0	14250	7.70	13916	10.65	14720	12.82
05	HS24061313-0	14197	7.69	13597	10.65	14375	12.82
06	HS24061313-0	13276	7.70	13113	10.65	13805	12.82
07	HS24061313-0	11317	7.70	10901	10.65	11402	12.82
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Prep Batch Report

Batch ID:	213966	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	23 Jun 2024 08:00 AM	**Original Factor:**	0.001
End Date:	23 Jun 2024 11:30 AM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24061196-01	D	Water	7	1000	1	0.001	1	ph adj1/13clno
HS24061196-02	D	Water	7	1000	1	0.001	1	ph adj1/13clno
HS24061196-03	D	Water	7	1000	1	0.001	1	ph adj1/13clno
HS24061196-04	D	Water	7	1000	1	0.001	1	ph adj1/13clno
HS24061313-02	D	Water	7	1000	1	0.001	1	ph adj1/13clno
HS24061313-03	D	Water	7	1000	1	0.001	1	ph adj1/13clno
HS24061313-05	B	Water	7	1000	1	0.001	1	ph adj1/13clno
HS24061313-06	B	Water	7	1000	1	0.001	1	ph adj1/13clno
LCS-213966	A		5	1000	1	0.001	1	ph adj1/13clno
LCSD-213966	A		5	1000	1	0.001	1	ph adj1/13clno
MBLK-213966	A		5	1000	1	0.001	1	ph adj1/13clno

Prep Batch Report

Batch ID:	213966	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	23 Jun 2024 08:00 AM	**Original Factor:**	0.001
End Date:	23 Jun 2024 11:30 AM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Stage	Description	Value
3510/3511	Chlorine Strips ID:	3001070211-06
3510_B	pH Paper:	300107092-11
3510_B	Methylene Chloride ID:	300107098-18
3510_B	50% NaoH ID:	300107078-21
3510_B	NaoH Volume (mL):	8
3510_B	50:50 Sulfuric Acid ID:	300107095-06
3510_B	Sulfuric Acid Volume (mL):	8ml
3510_B	Syringe ID:	3510-bsim
3510_B	LCS/MS Spike ID:	3231538-11
3510_B	LCS/MS Volume (mL):	1ml
3510_B	LCS/MS Spike #2 ID (If needed):	3231510-05
3510_B	LCS/MS Spike #2 Volume (mL):	1
3510_B	LCS/MS Spike #3 ID (If needed):	na
3510_B	LCS/MS Spike #3 Volume (mL):	na
3510_B	Sodium Sulfate ID:	3142131-21
3510_B	Glass Wool ID:	300107067-15
3510_B	TurboVap Unit(s):	j (1-6) n (7-11)d()l()
3510_B	TurboVap Temp (C):	39-40
3510_B	TurboVap Pressure (PSI):	9-11
3510_B	Time in TurboVap (Hrs):	1.5 hr
3510_B	Vial Lot:	300107091-08
3510_B	CleanUp Performed:	na
3510_B	Surrogate ID:	320077506
3510_B	Surrogate Volume (mL):	1ml

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Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24061313

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

08/02/2024

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

SV06 -Logbook

Batch: 60617 **Analyst:** Marco Gutierrez

Date: 07-03-2024 **Reviewer:**

Method: R8270D LVI/14dx **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	07-03-2024 08:49 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	07-03-2024 09:01 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	PAHLVI-0.025	CCV	07-03-2024 11:38 am	1.00	33.00 mL	2000.00 mL	03B.D	Liquid	Y	NA
4	14DX-0.08	CCV	07-03-2024 11:59 am	1.00	1000.00 mL	1000.00 mL	04B.D	Liquid	Y	NA
5	MBLK-213966	MBLK	07-03-2024 12:40 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	LCS-213966	LCS	07-03-2024 12:58 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	LCSD-213966	LCSD	07-03-2024 01:15 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	HS24061196-01	SAMP	07-03-2024 01:33 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	HS24061196-02	SAMP	07-03-2024 01:50 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	HS24061196-03	SAMP	07-03-2024 02:08 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	HS24061196-04	SAMP	07-03-2024 02:25 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS24061313-02	SAMP	07-03-2024 02:42 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS24061313-03	SAMP	07-03-2024 03:00 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS24061313-05	SAMP	07-03-2024 03:17 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS24061313-06	SAMP	07-03-2024 03:35 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	14DX-0.08	CCV	07-03-2024 03:52 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS24061637-01RXT	SAMP	07-03-2024 04:09 pm	1.00	33.00 mL	2000.00 mL	17.D	Liquid	Y	NA
18	MBLK-214498	SAMP	07-03-2024 04:30 pm	1.00	33.00 mL	2000.00 mL	18.D	Liquid	Y	NA
19	LCS-214498	SAMP	07-03-2024 04:51 pm	1.00	33.00 mL	2000.00 mL	19.D	Liquid	Y	NA
20	LCSD-214498	SAMP	07-03-2024 05:11 pm	1.00	33.00 mL	2000.00 mL	20.D	Liquid	Y	NA
21	MBLK-214025	SAMP	07-03-2024 05:32 pm	1.00	33.00 mL	2000.00 mL	21.D	Liquid	Y	NA
22	LCS-214025	SAMP	07-03-2024 05:52 pm	1.00	33.00 mL	2000.00 mL	22.D	Liquid	Y	NA
23	LCSD-214025	SAMP	07-03-2024 06:13 pm	1.00	33.00 mL	2000.00 mL	23.D	Liquid	Y	NA
24	HS24061468-01	SAMP	07-03-2024 06:33 pm	1.00	33.00 mL	2000.00 mL	24.D	Liquid	Y	NA
25	HS24061468-03	SAMP	07-03-2024 06:54 pm	1.00	33.00 mL	2000.00 mL	25.D	Liquid	Y	NA
26	HS24061468-05	SAMP	07-03-2024 07:14 pm	1.00	33.00 mL	2000.00 mL	26.D	Liquid	Y	NA
27	HS24061468-09	SAMP	07-03-2024 07:35 pm	1.00	33.00 mL	2000.00 mL	27.D	Liquid	Y	NA
28	HS24061616-01RXT	SAMP	07-03-2024 07:55 pm	1.00	33.00 mL	2000.00 mL	28.D	Liquid	Y	NA

SV06 -Logbook

Batch: 59721 **Analyst:** Marco Gutierrez

Date: 04-18-2024 **Reviewer:**

Method: R8270D 14dx ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	04-18-2024 10:39 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	04-18-2024 10:51 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	14DX-0.08	ICAL4	04-18-2024 12:24 pm	1.00	1000.00 mL	1000.00 mL	03A.D	Liquid	Y	NA
4	14DX-0.01	ICAL1	04-18-2024 12:49 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.03	ICAL2	04-18-2024 01:07 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	14DX-0.05	ICAL3	04-18-2024 01:25 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	14DX-0.10	ICAL5	04-18-2024 01:42 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	14DX-0.15	ICAL6	04-18-2024 02:00 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	14DX-0.20	ICAL7	04-18-2024 02:18 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	14DX-0.50	ICAL8	04-18-2024 02:35 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	14DX ICV-0.08	ICV	04-18-2024 02:53 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	SIM CCB	SAMP	04-18-2024 04:10 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	MBLK-210508	SAMP	04-18-2024 04:28 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCS-210508	SAMP	04-18-2024 04:45 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCSD-210508	SAMP	04-18-2024 05:03 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24040786-01	SAMP	04-18-2024 05:21 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	14DX-0.08	SAMP	04-18-2024 05:38 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	SIM CCB	SAMP	04-18-2024 05:56 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24040667-03	SAMP	04-18-2024 06:14 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24040816-04	SAMP	04-18-2024 06:31 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24040816-05	SAMP	04-18-2024 06:49 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24040816-06	SAMP	04-18-2024 07:06 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24041063-01	SAMP	04-18-2024 07:24 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24041063-02	SAMP	04-18-2024 07:41 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24041063-03	SAMP	04-18-2024 07:59 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA

01304567

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24061313

Client

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Project

LHAAP 18 24

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ALS Environmental–Houston Laboratory

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Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\01.D Page 1
Report Date: 03-Jul-2024 09:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-JUL-2024 08:49
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240703.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

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		
5.587	5.571	0.016	198	123552			0.00- 100.00	88.68
5.587	6.357	-0.770	51	31600			10.00- 80.00	25.58
5.587	6.357	-0.770	68	740			0.00- 2.00	1.98
5.587	6.357	-0.770	69	37312			0.00- 0.00	30.20
5.587	6.357	-0.770	70	213			0.00- 2.00	0.57
5.587	6.357	-0.770	127	49656			10.00- 80.00	40.19
5.587	6.357	-0.770	197	0	0.0	0.0	0.00- 2.00	0.00
5.587	6.357	-0.770	199	7891			5.00- 9.00	6.39
5.587	6.357	-0.770	275	36632			10.00- 60.00	29.65
5.587	6.357	-0.770	365	3878			1.00- 100.00	3.14
5.587	6.357	-0.770	441	20080			0.01- 99.99	72.69
5.587	6.357	-0.770	442	139328			50.00- 150.00	112.77
5.587	6.357	-0.770	443	27624			15.00- 24.00	19.83

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	20.60
68	Less than 2.00% of mass 69	0.45 (1.86)
69	Mass 69 relative abundance	24.26
70	Less than 2.00% of mass 69	0.07 (0.27)
127	10.00 - 80.00% of mass 198	35.39
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.61
275	10.00 - 60.00% of mass 198	33.50
365	1.00 - 100.00% of mass 198	4.24
441	Present, but less than mass 443	26.29
442	50.00 - 150.00% of mass 198	180.10 *
443	15.00 - 24.00% of mass 442	34.56 (19.19)

Data File: 01.D
Spectrum: Avg. Scans 560-562 (5.59), Background Scan 555
Location of Maximum: 442.00
Number of points: 259

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	52	130.00	1223	199.00	7218	283.00	292
38.00	233	131.00	206	200.00	527	284.00	212
39.00	1362	132.00	78	201.00	579	285.00	469
40.00	56	134.00	530	203.00	685	289.00	51
44.00	245	135.00	1120	204.00	3551	290.00	55
49.00	352	136.00	466	205.00	6140	293.00	732
50.00	6054	137.00	571	206.00	27360	294.00	168
51.00	22496	138.00	137	207.00	3477	295.00	82
52.00	1084	140.00	155	208.00	901	296.00	8625
55.00	143	141.00	1879	209.00	310	297.00	1219
56.00	762	142.00	619	210.00	527	302.00	122
57.00	1849	143.00	481	211.00	1054	303.00	1018
61.00	294	144.00	56	215.00	280	304.00	200
62.00	373	145.00	121	216.00	538	308.00	69
63.00	1008	146.00	356	217.00	6919	314.00	450
64.00	53	147.00	889	218.00	948	315.00	979
65.00	449	148.00	2154	221.00	6285	316.00	685
68.00	494	149.00	401	222.00	135	317.00	64
69.00	26488	151.00	246	223.00	1695	321.00	371
70.00	71	152.00	70	224.00	16156	322.00	155
73.00	194	153.00	629	225.00	3819	323.00	3589
74.00	2632	154.00	496	226.00	442	324.00	582
75.00	4522	155.00	979	227.00	5965	327.00	613
76.00	1318	156.00	1705	228.00	746	328.00	305
77.00	30056	157.00	324	229.00	1358	332.00	240
78.00	1831	158.00	348	230.00	128	333.00	331
79.00	2285	159.00	314	231.00	575	334.00	2337
80.00	1563	160.00	654	232.00	53	335.00	599
81.00	2204	161.00	953	233.00	155	341.00	439
82.00	476	162.00	235	234.00	388	346.00	721
83.00	609	163.00	54	235.00	462	347.00	213
84.00	57	164.00	51	236.00	322	352.00	1078
85.00	383	165.00	940	237.00	530	353.00	802
86.00	586	166.00	655	239.00	226	354.00	1155
87.00	224	167.00	3956	240.00	202	355.00	279
91.00	547	168.00	1744	241.00	390	364.00	69
92.00	480	169.00	294	242.00	783	365.00	4633
93.00	3644	170.00	82	243.00	1086	366.00	660
94.00	285	171.00	225	244.00	13123	370.00	135
96.00	158	172.00	428	245.00	1830	371.00	185
98.00	2725	173.00	501	246.00	2546	372.00	2175
99.00	1935	174.00	993	247.00	439	373.00	469
100.00	107	175.00	1682	248.00	112	383.00	602
101.00	1320	176.00	455	249.00	534	384.00	94
103.00	389	177.00	932	250.00	79	390.00	285

104.00 875	178.00 254	251.00 131	391.00 256
105.00 797	179.00 3142	252.00 165	392.00 60
106.00 299	180.00 2247	253.00 404	401.00 54
107.00 10380	181.00 1057	255.00 71328	402.00 1022
108.00 1504	182.00 171	256.00 10003	403.00 1393
109.00 180	183.00 129	257.00 849	404.00 420
110.00 18696	184.00 237	258.00 3366	421.00 1230
111.00 2730	185.00 1708	259.00 610	422.00 1402
112.00 258	186.00 12977	261.00 57	423.00 9666
113.00 62	187.00 3815	264.00 63	424.00 1776
116.00 683	188.00 441	265.00 1479	425.00 244
117.00 7453	189.00 816	266.00 244	438.00 393
118.00 453	190.00 117	271.00 84	439.00 151
122.00 669	191.00 422	272.00 127	440.00 351
123.00 950	192.00 1159	273.00 2358	441.00 28712
124.00 499	193.00 1184	274.00 5804	442.00 196672
125.00 492	194.00 242	275.00 36584	443.00 37744
127.00 38648	195.00 155	276.00 4672	444.00 3377
128.00 2862	196.00 3421	277.00 2419	445.00 254
129.00 14832	198.00 109200	278.00 361	

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 03-JUL-2024 11:59
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.503	3.503	(1.000)	2510	0.10000	(aM)
* 45 Naphthalene-d8	136	4.576	4.576	(1.000)	8148	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.937	3.937	(0.860)	1851	0.08000	0.07567
* 86 Acenaphthene-d10	164	6.239	6.239	(1.000)	4937	0.10000	
$ 69 2-Fluorobiphenyl	172	5.580	5.580	(0.894)	5832	0.08000	0.07728(M)
* 126 Phenanthrene-d10	188	7.693	7.693	(1.000)	9658	0.10000	(M)
* 182 Chrysene-d12	240	10.646	10.646	(1.000)	8162	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.306	9.306	(0.874)	10975	0.08000	0.06600(M)
* 198 Perylene-d12	264	12.818	12.818	(1.000)	9007	0.10000	
1 1,4-Dioxane	58	2.030	2.030	(0.580)	390	0.08000	0.07254(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01304573

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D

Page 1

Date : 03-JUL-2024 11:59

Client ID: 14DX-0.08

Instrument: SV6.i

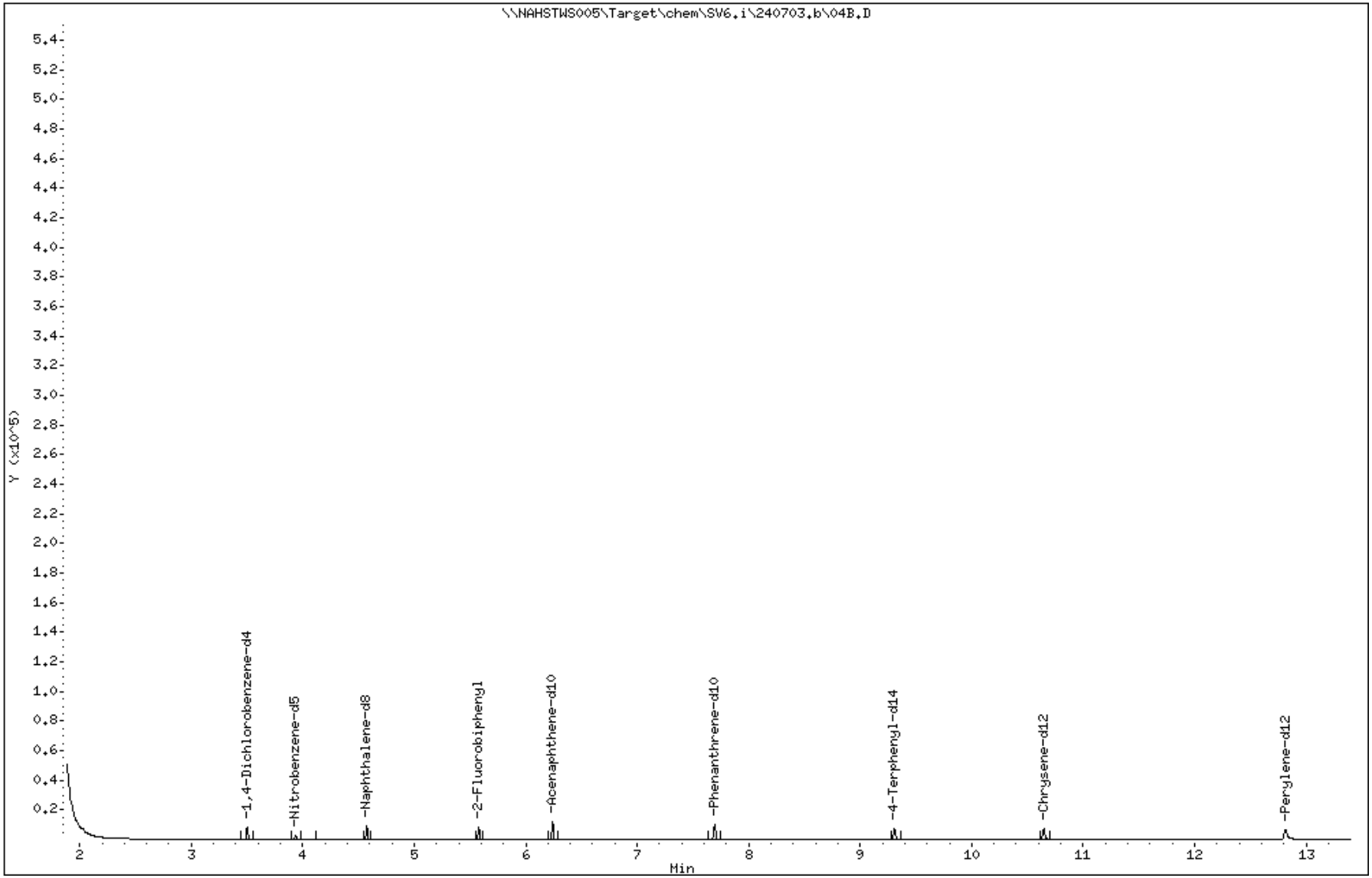
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

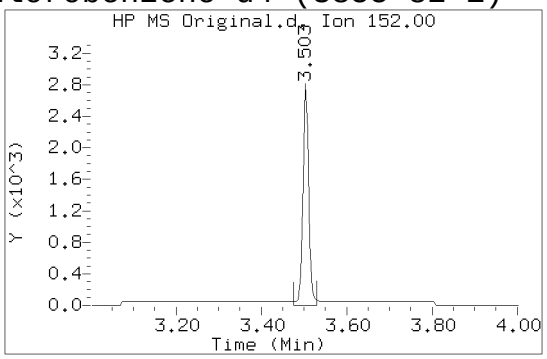


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D
Inj Date : 03-JUL-2024 11:59
InstruID : SV6.i
LabSampID : 14DX-0.08

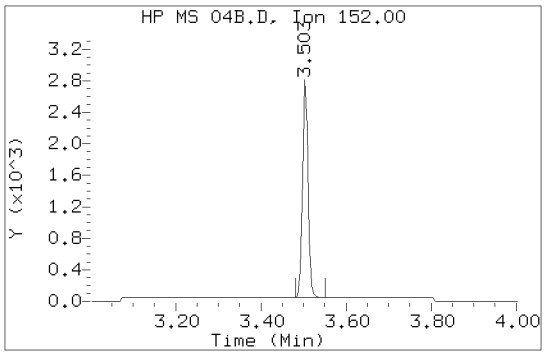
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

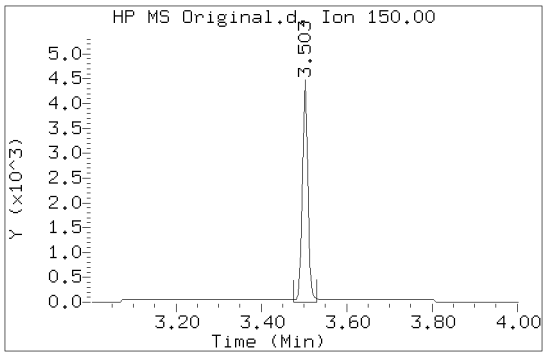
BEFORE
MASS
152
AREA
2678
HEIGHT
2814
03-Jul-2024
12:13
ALSHS
Server



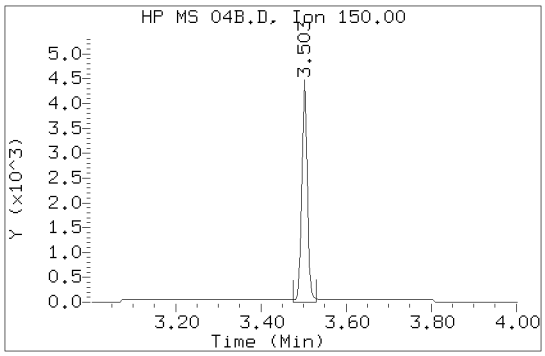
AFTER
MASS
152
AREA
2510
HEIGHT
2766
03-Jul-2024
14:10



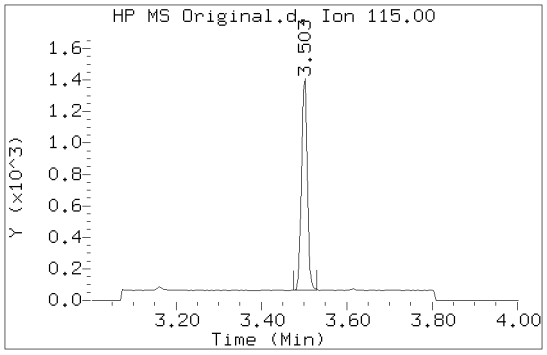
BEFORE
MASS
150
AREA
4101
HEIGHT
4477
03-Jul-2024
12:13
ALSHS
Server



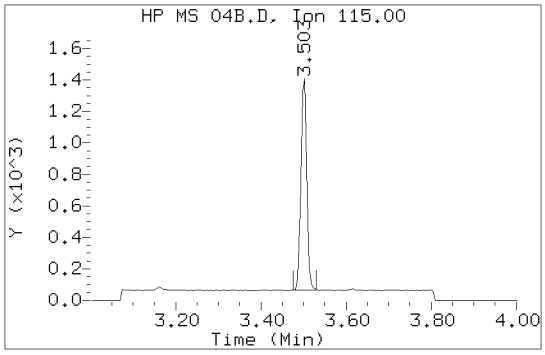
AFTER
MASS
150
AREA
4101
HEIGHT
4477
03-Jul-2024
14:10



BEFORE
MASS
115
AREA
1284
HEIGHT
1344
03-Jul-2024
12:13
ALSHS
Server



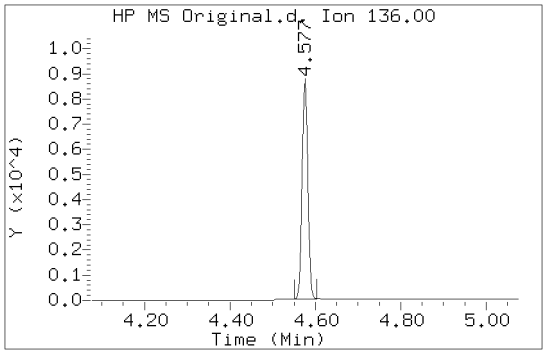
AFTER
MASS
115
AREA
1284
HEIGHT
1344
03-Jul-2024
14:10



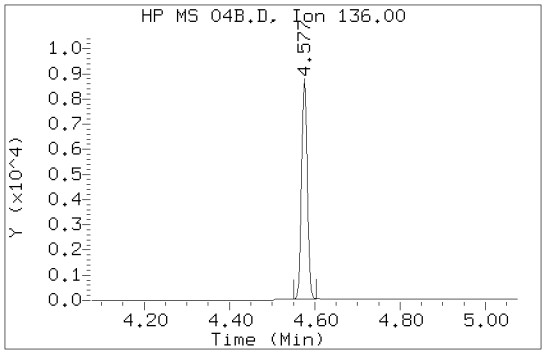
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8148
HEIGHT
8757
03-Jul-2024
12:13
ALSHS
Server



AFTER
MASS
136
AREA
8148
HEIGHT
8757
03-Jul-2024
14:10



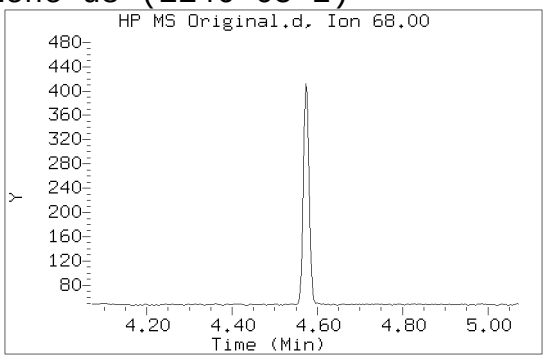
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D
Inj Date : 03-JUL-2024 11:59
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

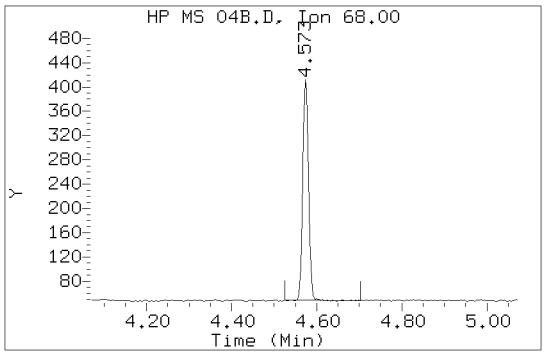
BEFORE

MASS
68
AREA
0
HEIGHT
0
03-Jul-2024
12:13
ALSHS
Server



AFTER

MASS
68
AREA
341
HEIGHT
363
03-Jul-2024
14:10

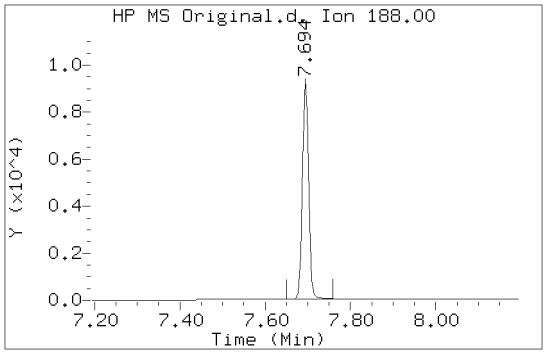


Phenanthrene-d10 (1517-22-2)

Reason Code:

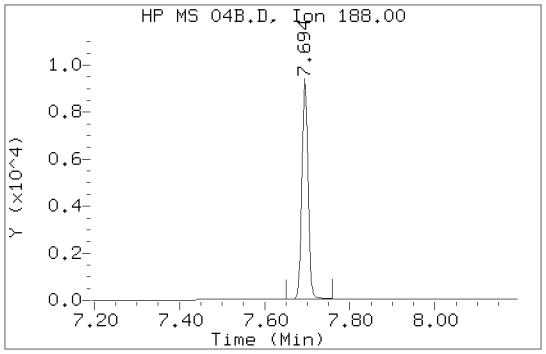
BEFORE

MASS
188
AREA
9658
HEIGHT
9379
03-Jul-2024
12:13
ALSHS
Server



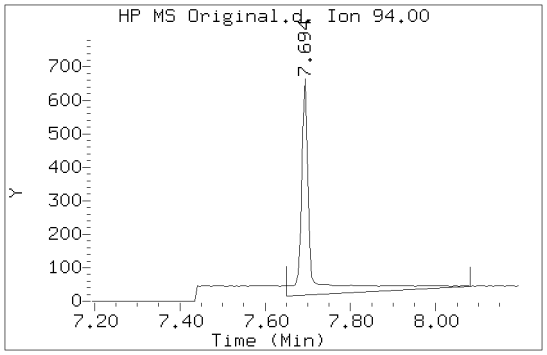
AFTER

MASS
188
AREA
9658
HEIGHT
9379
03-Jul-2024
14:10



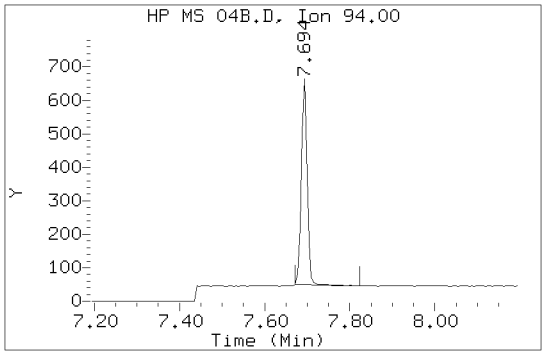
BEFORE

MASS
94
AREA
1025
HEIGHT
646
03-Jul-2024
12:13
ALSHS
Server



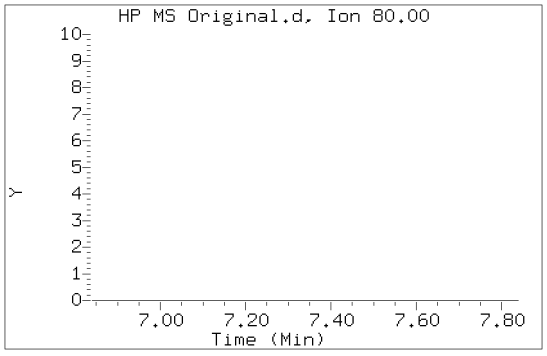
AFTER

MASS
94
AREA
589
HEIGHT
615
03-Jul-2024
14:10



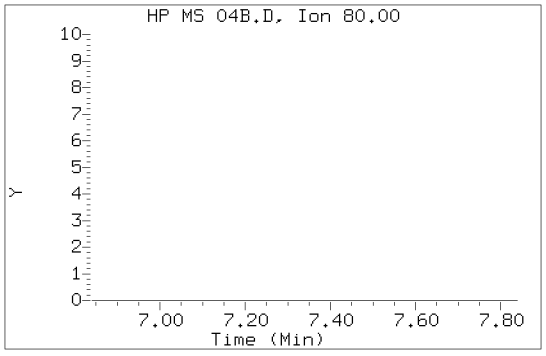
BEFORE

MASS
80
AREA
0
HEIGHT
0
03-Jul-2024
12:13
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
03-Jul-2024
14:10



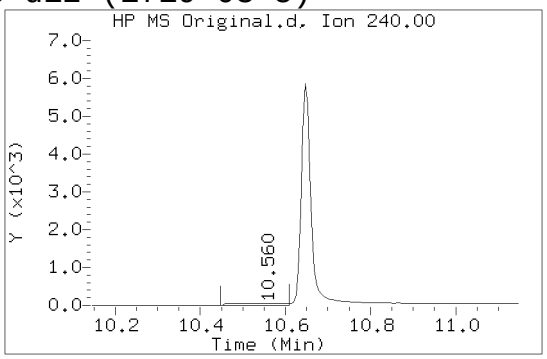
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Inj Date : 03-JUL-2024 11:59
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

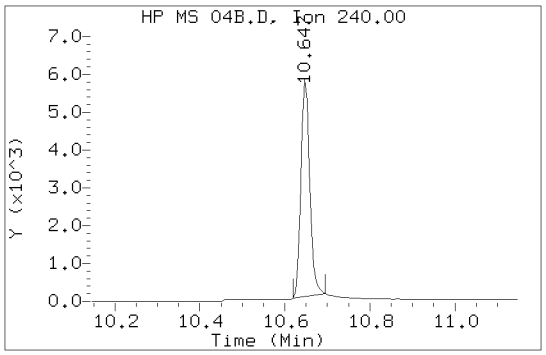
BEFORE

MASS
240
AREA
437
HEIGHT
55
03-Jul-2024
12:13
ALSHS
Server



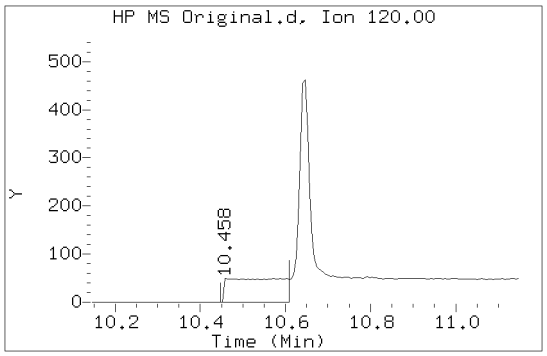
AFTER

MASS
240
AREA
8162
HEIGHT
5731
03-Jul-2024
14:10



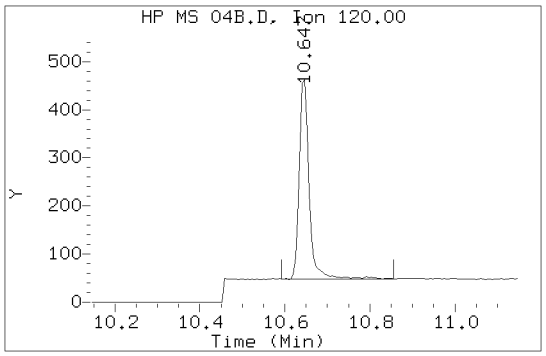
BEFORE

MASS
120
AREA
448
HEIGHT
49
03-Jul-2024
12:13
ALSHS
Server



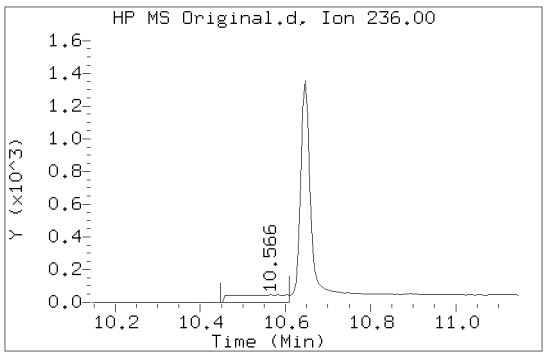
AFTER

MASS
120
AREA
673
HEIGHT
414
03-Jul-2024
14:10



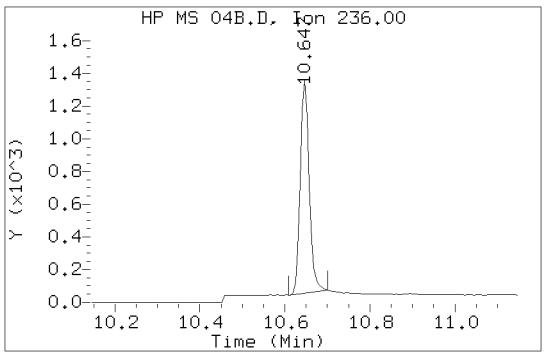
BEFORE

MASS
236
AREA
420
HEIGHT
46
03-Jul-2024
12:13
ALSHS
Server



AFTER

MASS
236
AREA
1877
HEIGHT
1297
03-Jul-2024
14:10

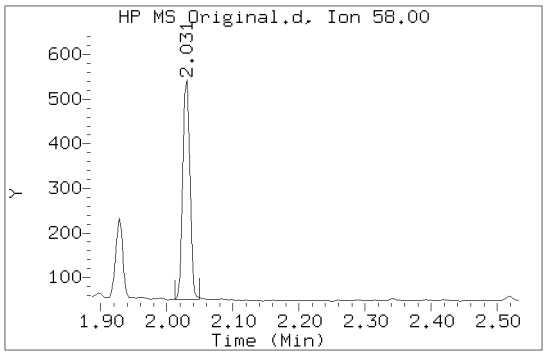


1,4-Dioxane ()

Reason Code:

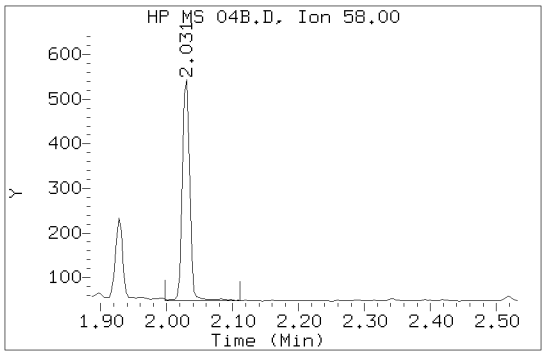
BEFORE

MASS
58
AREA
365
HEIGHT
492
03-Jul-2024
12:13
ALSHS
Server



AFTER

MASS
58
AREA
390
HEIGHT
496
03-Jul-2024
14:10



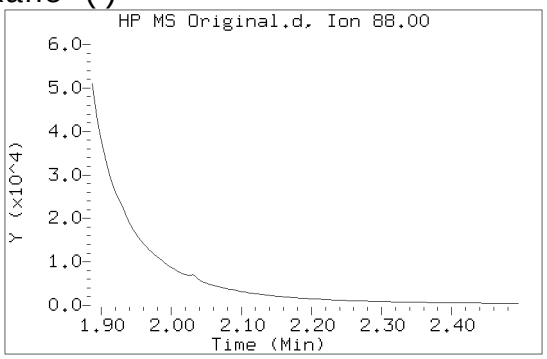
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\04B.D
Inj Date : 03-JUL-2024 11:59
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dioxane ()

Reason Code:

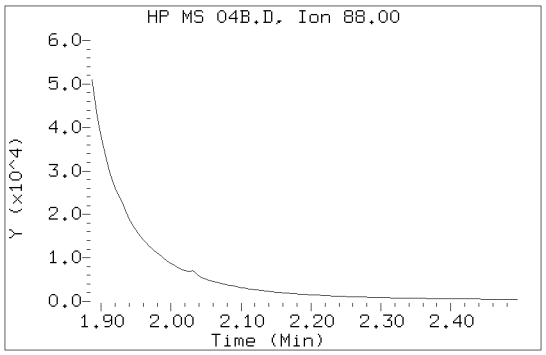
BEFORE

MASS
88
AREA
0
HEIGHT
0
03-Jul-2024
12:13
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
03-Jul-2024
14:10

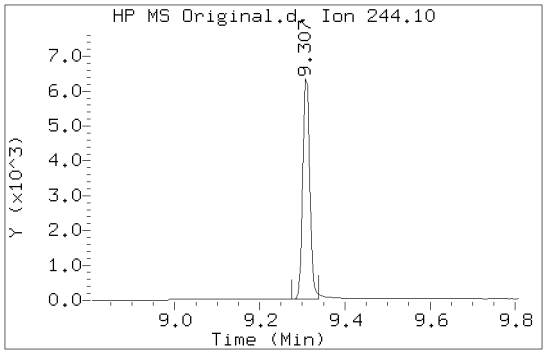


4-Terphenyl-d14 (1718-51-0)

Reason Code:

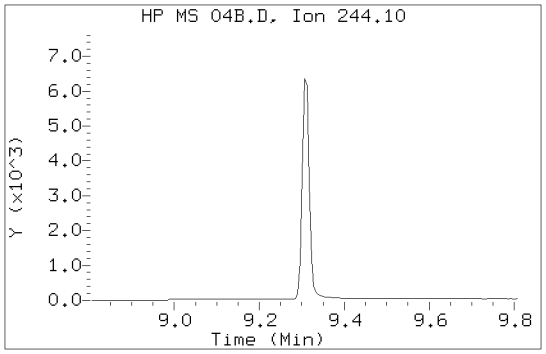
BEFORE

MASS
244.1
AREA
7196
HEIGHT
6314
03-Jul-2024
12:13
ALSHS
Server



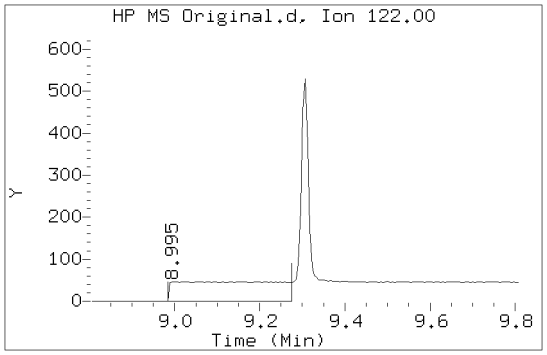
AFTER

MASS
244.1
AREA
10975
HEIGHT
6358
03-Jul-2024
14:10



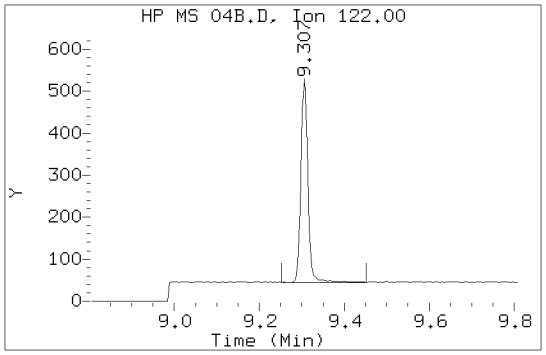
BEFORE

MASS
122
AREA
794
HEIGHT
46
03-Jul-2024
12:13
ALSHS
Server



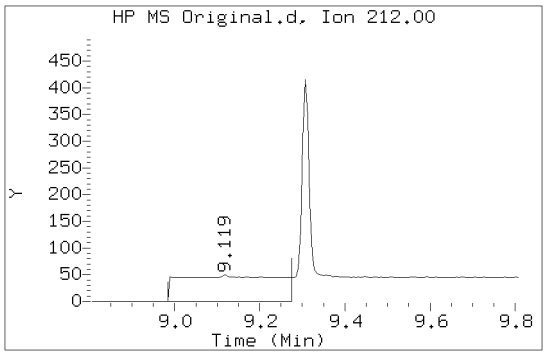
AFTER

MASS
122
AREA
544
HEIGHT
484
03-Jul-2024
14:10



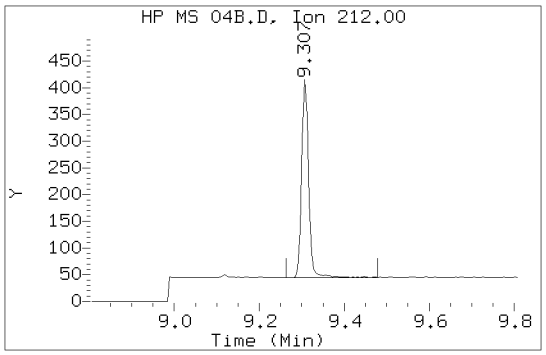
BEFORE

MASS
212
AREA
790
HEIGHT
50
03-Jul-2024
12:13
ALSHS
Server



AFTER

MASS
212
AREA
415
HEIGHT
370
03-Jul-2024
14:10



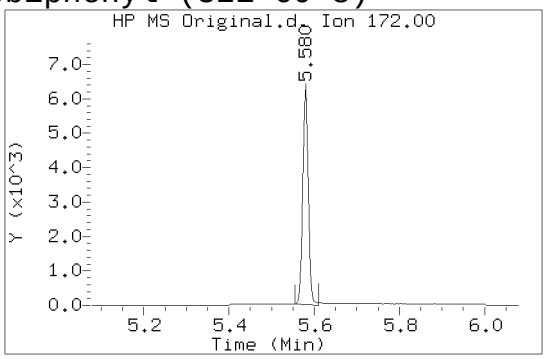
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Inj Date : 03-JUL-2024 11:59
InstruID : SV6.i
LabSampID : 14DX-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

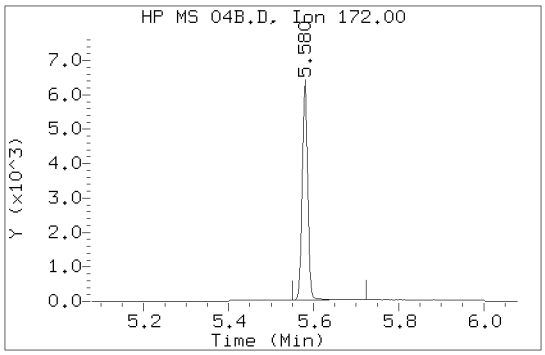
BEFORE

MASS
172
AREA
5869
HEIGHT
6416
03-Jul-2024
12:13
ALSHS
Server



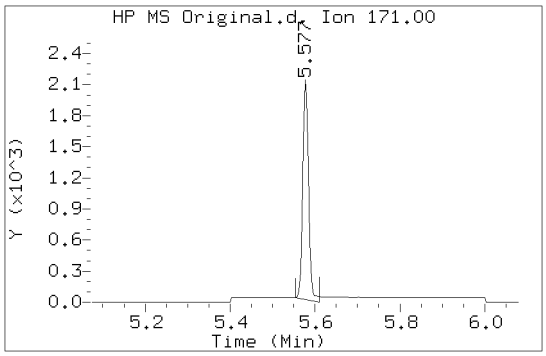
AFTER

MASS
172
AREA
5832
HEIGHT
6395
03-Jul-2024
14:10



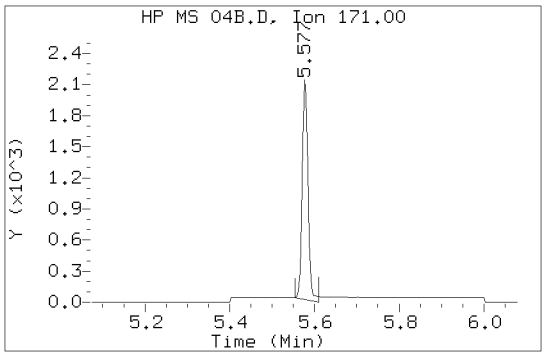
BEFORE

MASS
171
AREA
2000
HEIGHT
2117
03-Jul-2024
12:13
ALSHS
Server



AFTER

MASS
171
AREA
2000
HEIGHT
2117
03-Jul-2024
14:10



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\05.D
Lab Smp Id: MBLK-213966
Inj Date : 03-JUL-2024 12:40
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-213966
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.508	3.503	(1.000)	4392	0.10000	(aQ)
* 45 Naphthalene-d8	136	4.576	4.576	(1.000)	13879	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.937	3.937	(0.860)	2261	0.05427	0.05426
* 86 Acenaphthene-d10	164	6.245	6.239	(1.000)	8412	0.10000	
$ 69 2-Fluorobiphenyl	172	5.580	5.580	(0.894)	7369	0.05731	0.05730
* 126 Phenanthrene-d10	188	7.698	7.693	(1.000)	16293	0.10000	
* 182 Chrysene-d12	240	10.657	10.646	(1.000)	15037	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.317	9.306	(0.874)	13867	0.04527	0.04527(M)
* 198 Perylene-d12	264	12.823	12.818	(1.000)	14725	0.10000	

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.

01304580

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\05.D

Date : 03-JUL-2024 12:40

Client ID:

Instrument: SV6.i

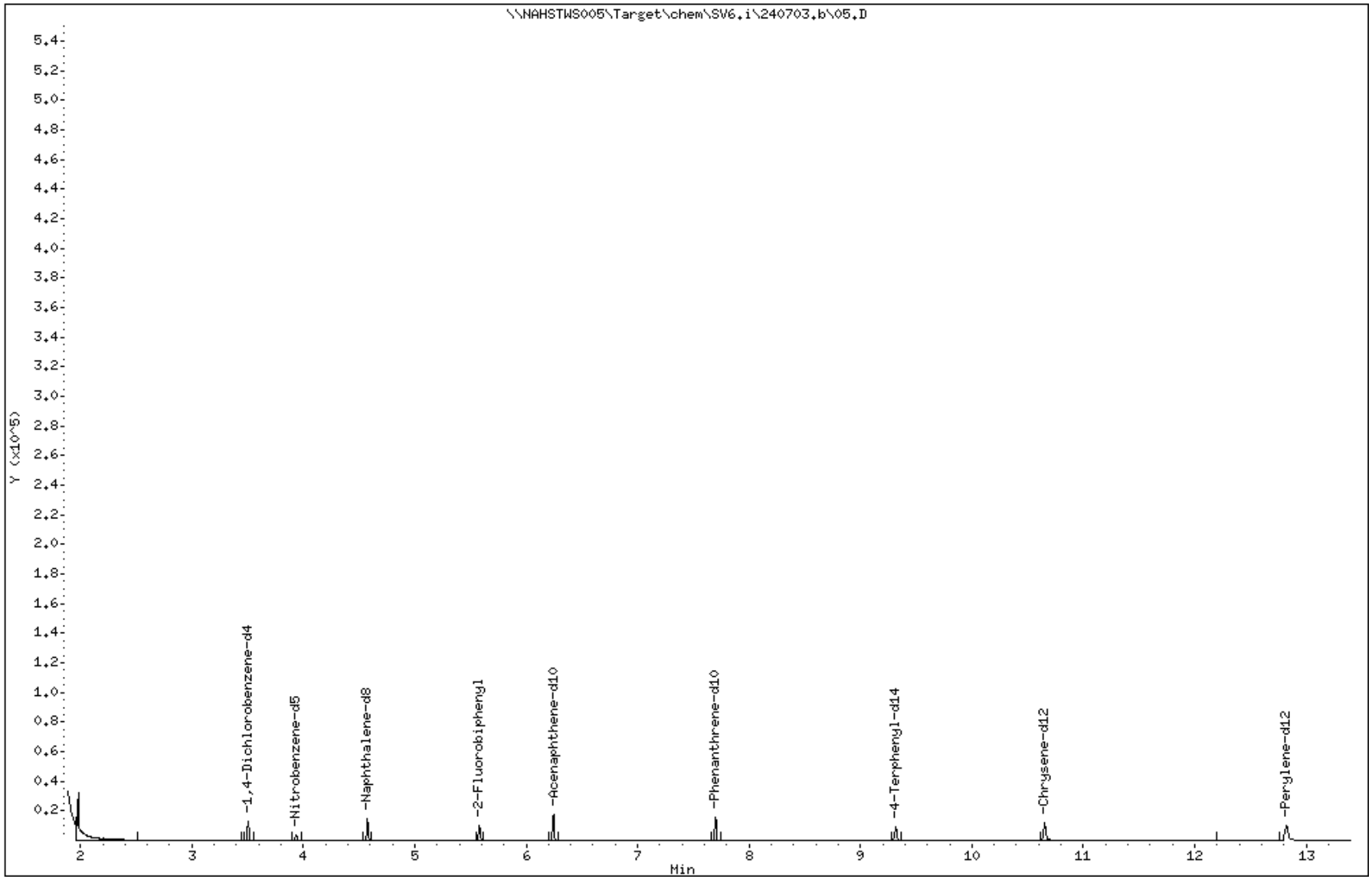
Sample Info: MBLK-213966

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

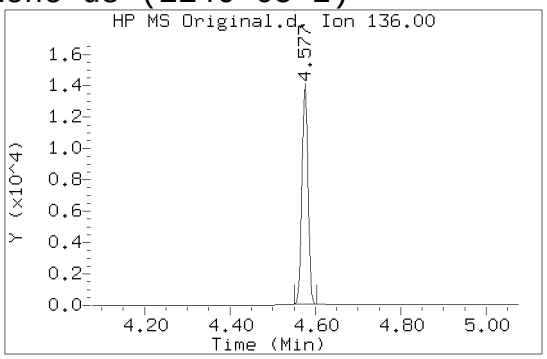


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\05.D
Inj Date : 03-JUL-2024 12:40
InstruID : SV6.i
LabSampID : MBLK-213966

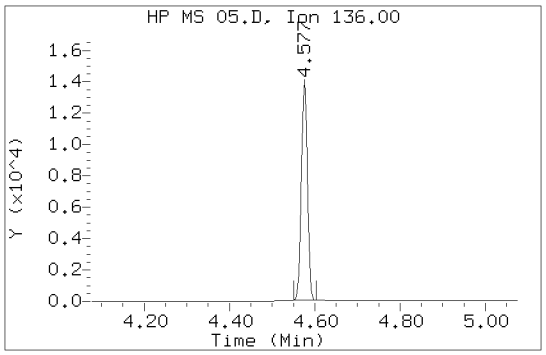
Naphthalene-d8 (1146-65-2)

Reason Code:

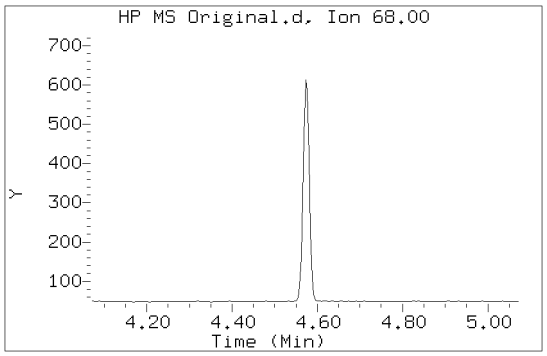
BEFORE
MASS
136
AREA
13879
HEIGHT
14065
03-Jul-2024
12:56
ALSHS
Server



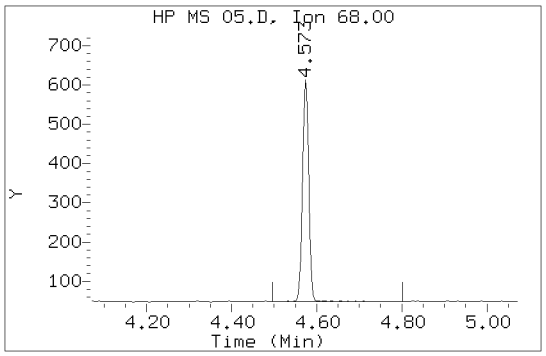
AFTER
MASS
136
AREA
13879
HEIGHT
14065
03-Jul-2024
16:09



BEFORE
MASS
68
AREA
0
HEIGHT
0
03-Jul-2024
12:56
ALSHS
Server



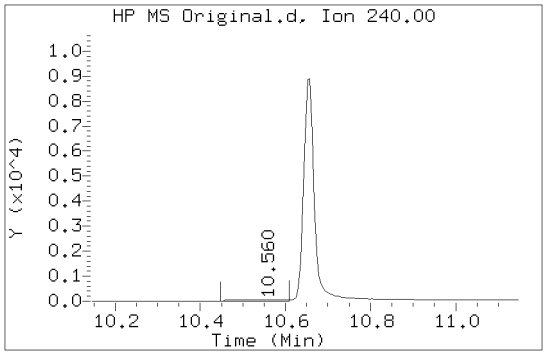
AFTER
MASS
68
AREA
584
HEIGHT
564
03-Jul-2024
16:09



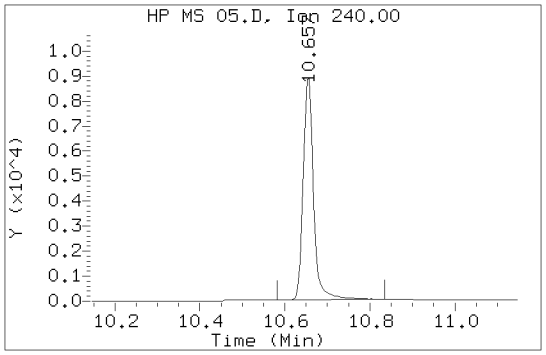
Chrysene-d12 (1719-03-5)

Reason Code:

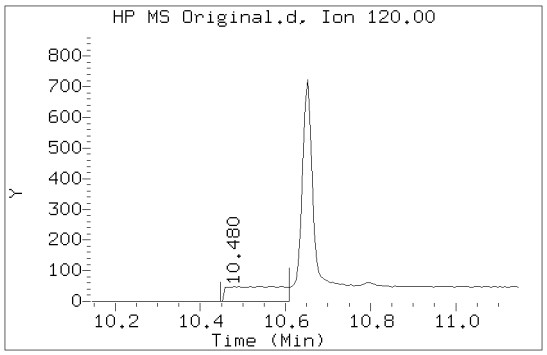
BEFORE
MASS
240
AREA
429
HEIGHT
48
03-Jul-2024
12:56
ALSHS
Server



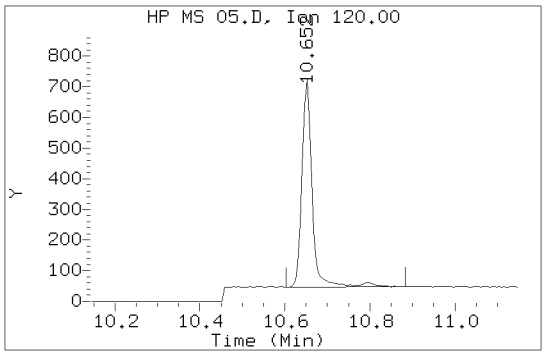
AFTER
MASS
240
AREA
15037
HEIGHT
8828
03-Jul-2024
16:09



BEFORE
MASS
120
AREA
443
HEIGHT
48
03-Jul-2024
12:56
ALSHS
Server



AFTER
MASS
120
AREA
1128
HEIGHT
675
03-Jul-2024
16:09



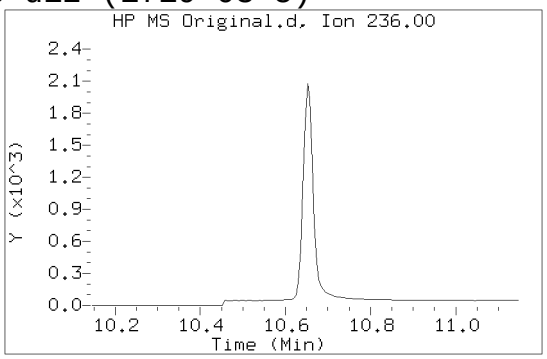
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Inj Date : 03-JUL-2024 12:40
InstruID : SV6.i
LabSampID : MBLK-213966

Chrysene-d12 (1719-03-5)

Reason Code:

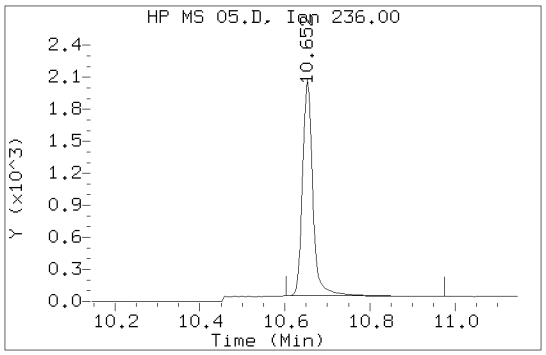
BEFORE

MASS
236
AREA
0
HEIGHT
0
03-Jul-2024
12:56
ALSHS
Server



AFTER

MASS
236
AREA
3426
HEIGHT
2025
03-Jul-2024
16:09

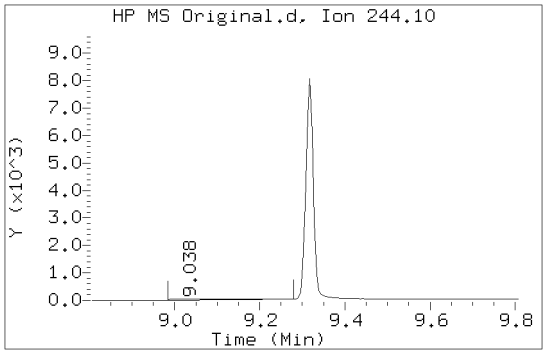


4-Terphenyl-d14 (1718-51-0)

Reason Code:

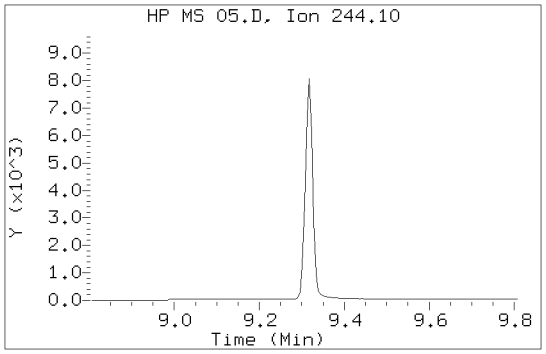
BEFORE

MASS
244.1
AREA
377
HEIGHT
36
03-Jul-2024
12:56
ALSHS
Server



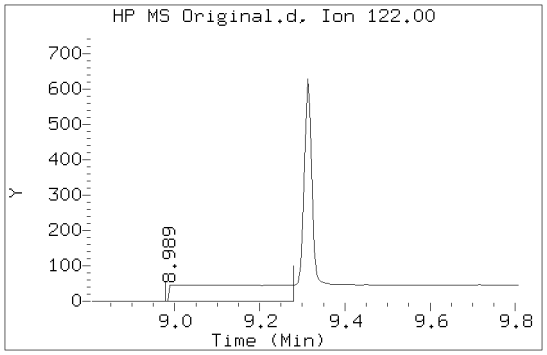
AFTER

MASS
244.1
AREA
13867
HEIGHT
8074
03-Jul-2024
16:09



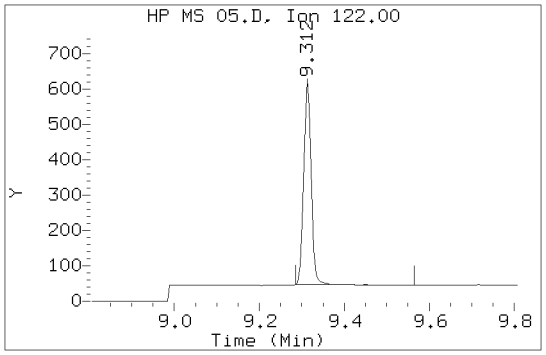
BEFORE

MASS
122
AREA
807
HEIGHT
46
03-Jul-2024
12:56
ALSHS
Server



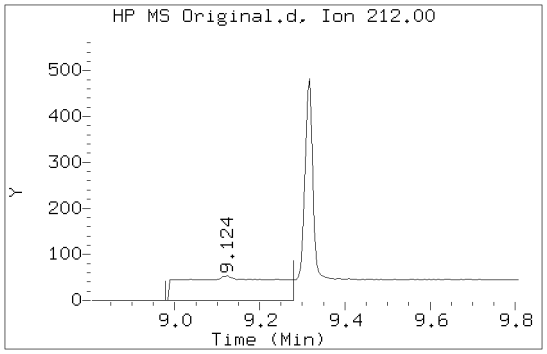
AFTER

MASS
122
AREA
693
HEIGHT
581
03-Jul-2024
16:09



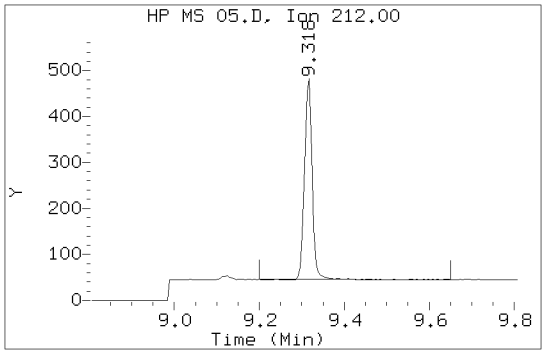
BEFORE

MASS
212
AREA
813
HEIGHT
54
03-Jul-2024
12:56
ALSHS
Server



AFTER

MASS
212
AREA
542
HEIGHT
436
03-Jul-2024
16:09



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D
Lab Smp Id: LCS-213966
Inj Date : 03-JUL-2024 12:58
Operator : LG Inst ID: SV6.i
Smp Info : LCS-213966
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.503	3.503	(1.000)	3008	0.10000	(aM)
* 45 Naphthalene-d8	136	4.576	4.576	(1.000)	9707	0.10000	
$ 33 Nitrobenzene-d5	82	3.937	3.937	(0.860)	1629	0.05590	0.05590
* 86 Acenaphthene-d10	164	6.239	6.239	(1.000)	5920	0.10000	
$ 69 2-Fluorobiphenyl	172	5.580	5.580	(0.894)	5388	0.05954	0.05954
* 126 Phenanthrene-d10	188	7.693	7.693	(1.000)	11519	0.10000	
* 182 Chrysene-d12	240	10.646	10.646	(1.000)	10808	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.312	9.306	(0.875)	11430	0.05191	0.05191(M)
* 198 Perylene-d12	264	12.818	12.818	(1.000)	11024	0.10000	
1 1,4-Dioxane	58	2.038	2.030	(0.582)	336	0.05215	0.05215(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01304584

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D

Date : 03-JUL-2024 12:58

Client ID:

Instrument: SV6.i

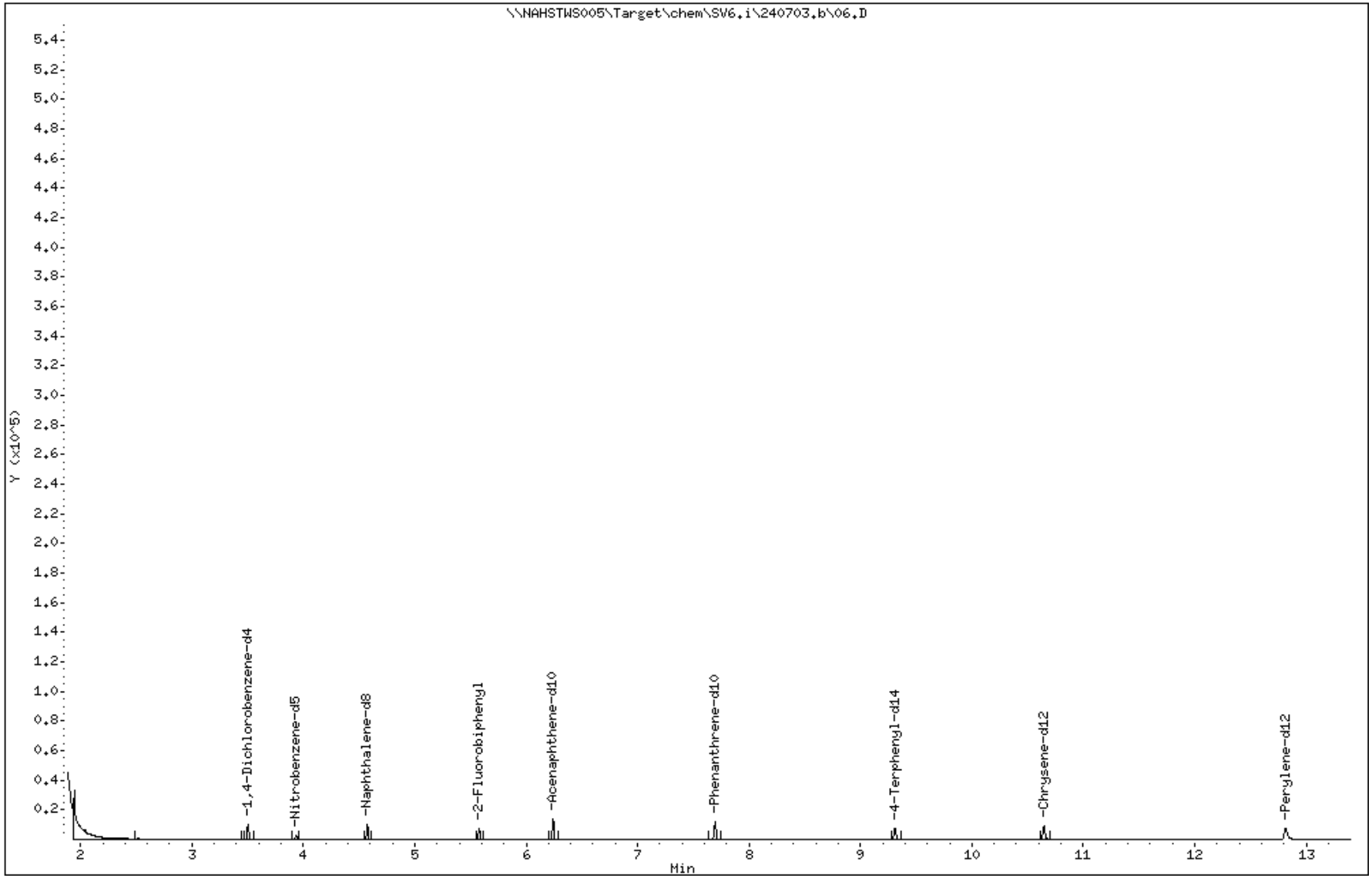
Sample Info: LCS-213966

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D

Date : 03-JUL-2024 12:58

Client ID:

Instrument: SV6.i

Sample Info: LCS-213966

Purge Volume: 1000.0

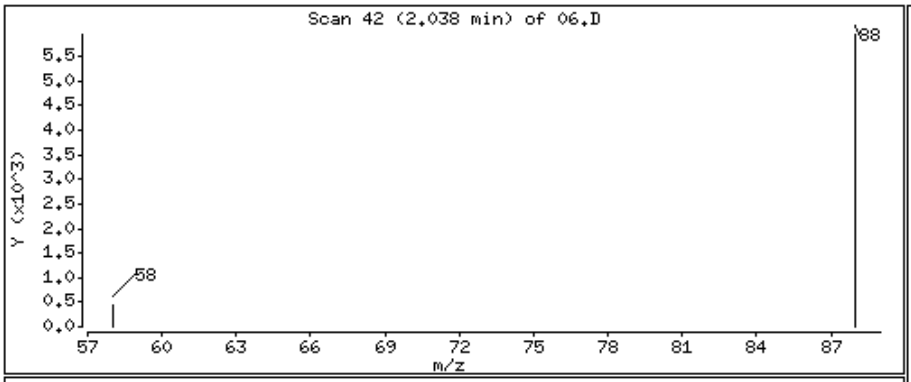
Operator: LG

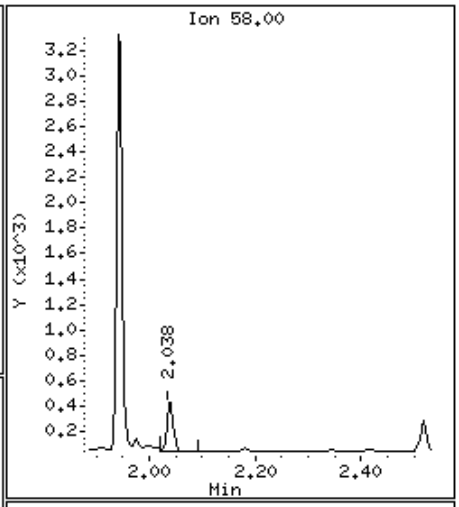
Column phase: RTX-5SIL MS

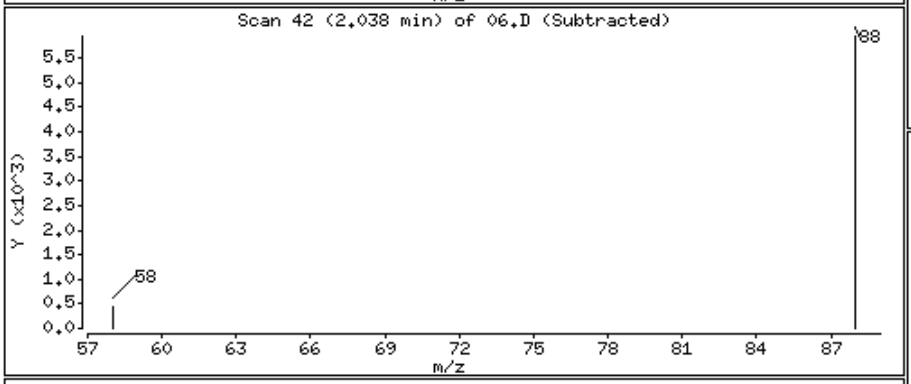
Column diameter: 0.28

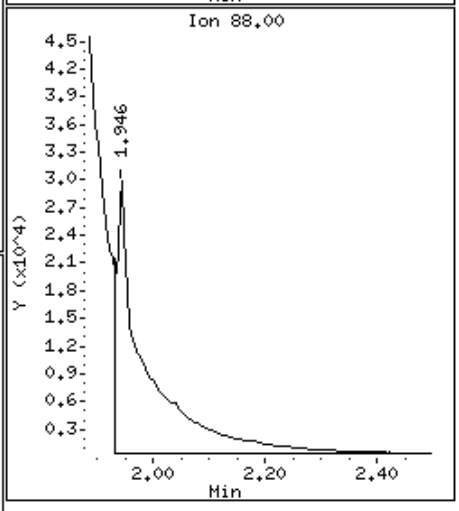
1 1,4-Dioxane

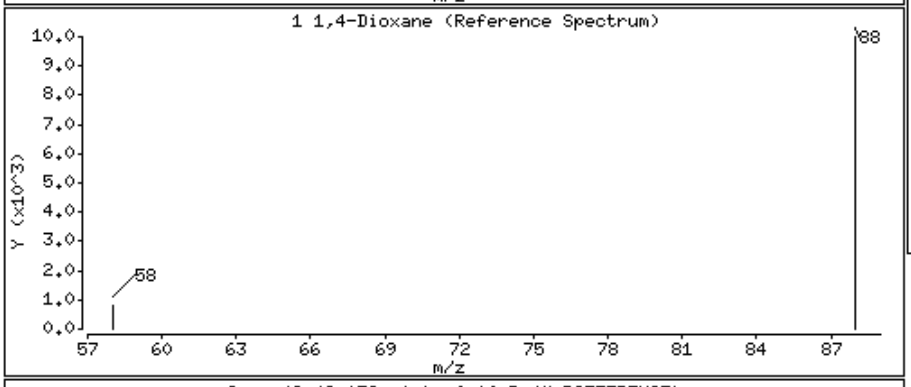
Concentration: 0.05215 ug/L

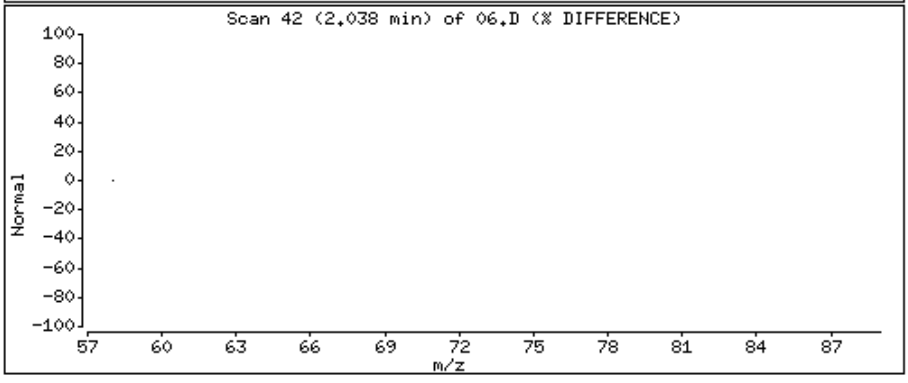












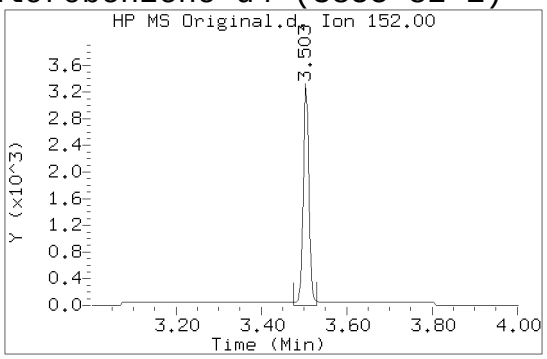
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D
Inj Date : 03-JUL-2024 12:58
InstruID : SV6.i
LabSampID : LCS-213966

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

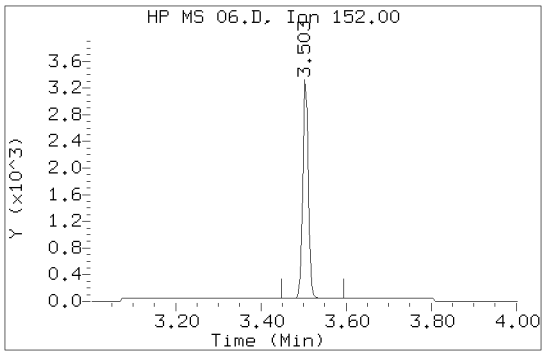
BEFORE

MASS
152
AREA
3167
HEIGHT
3325
03-Jul-2024
13:12
ALSHS
Server



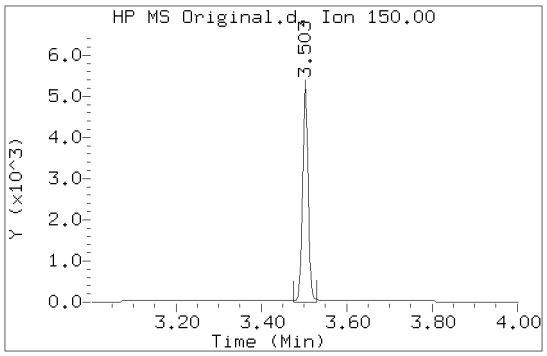
AFTER

MASS
152
AREA
3008
HEIGHT
3279
03-Jul-2024
16:09



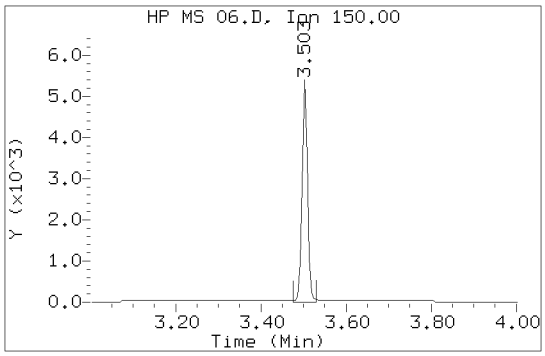
BEFORE

MASS
150
AREA
4858
HEIGHT
5400
03-Jul-2024
13:12
ALSHS
Server



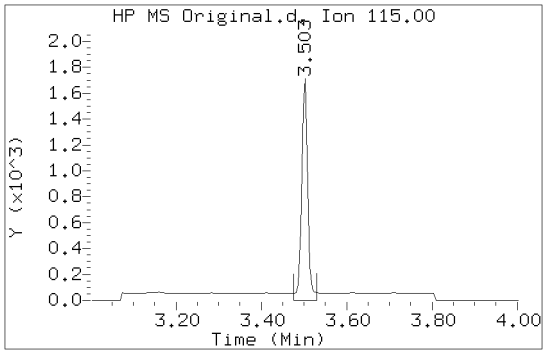
AFTER

MASS
150
AREA
4858
HEIGHT
5400
03-Jul-2024
16:09



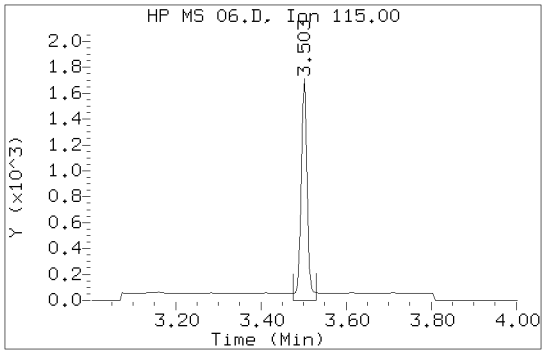
BEFORE

MASS
115
AREA
1721
HEIGHT
1712
03-Jul-2024
13:12
ALSHS
Server



AFTER

MASS
115
AREA
1721
HEIGHT
1712
03-Jul-2024
16:09

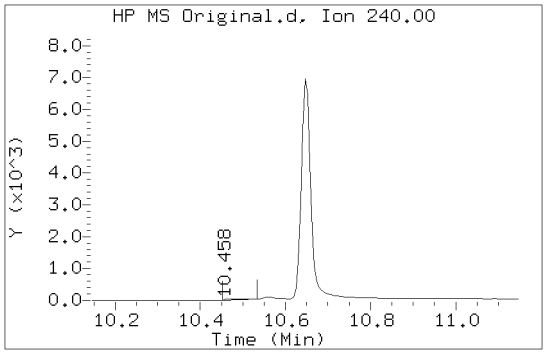


Chrysene-d12 (1719-03-5)

Reason Code:

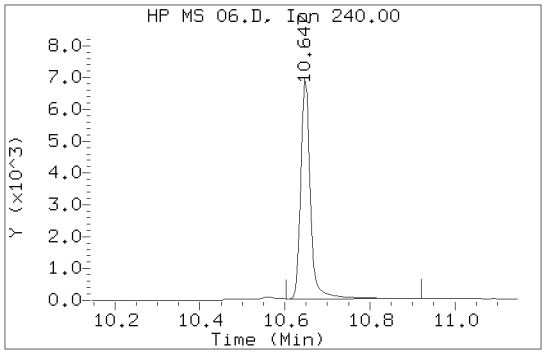
BEFORE

MASS
240
AREA
101
HEIGHT
42
03-Jul-2024
13:12
ALSHS
Server



AFTER

MASS
240
AREA
10808
HEIGHT
6912
03-Jul-2024
16:09

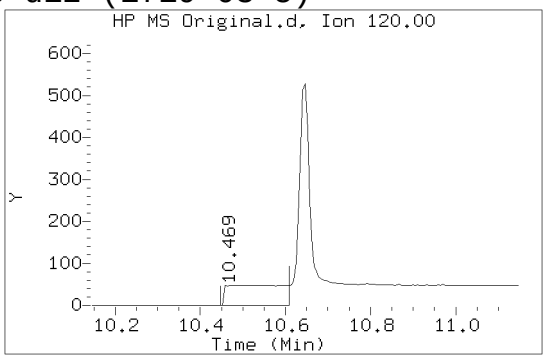


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Inj Date : 03-JUL-2024 12:58
InstruID : SV6.i
LabSampID : LCS-213966

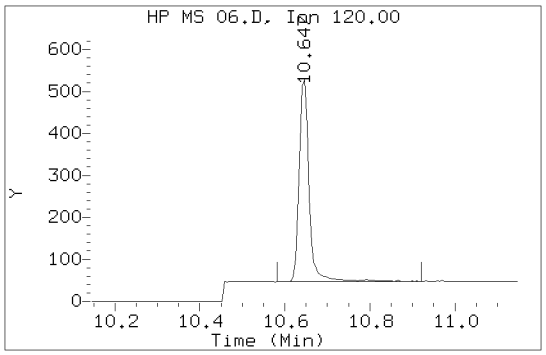
Chrysene-d12 (1719-03-5)

Reason Code:

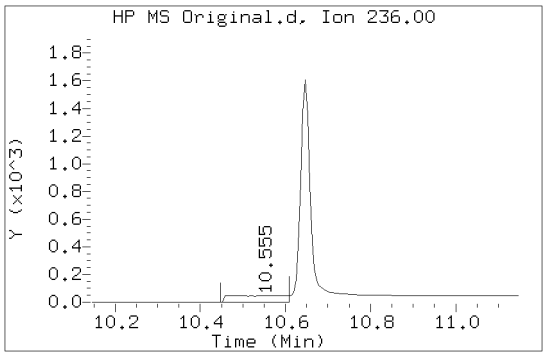
BEFORE
MASS
120
AREA
441
HEIGHT
48
03-Jul-2024
13:12
ALSHS
Server



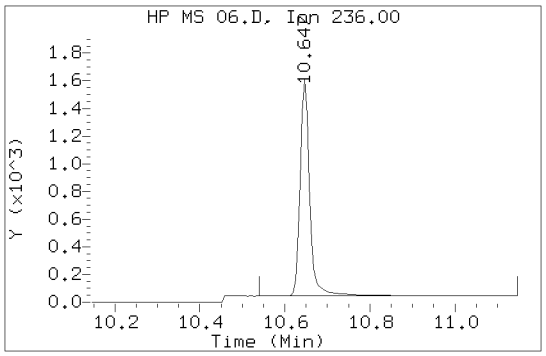
AFTER
MASS
120
AREA
777
HEIGHT
480
03-Jul-2024
16:09



BEFORE
MASS
236
AREA
423
HEIGHT
47
03-Jul-2024
13:12
ALSHS
Server



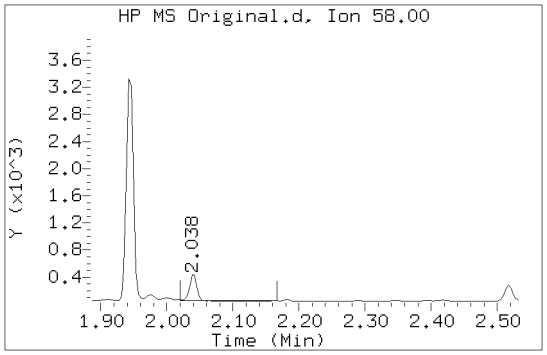
AFTER
MASS
236
AREA
2457
HEIGHT
1560
03-Jul-2024
16:09



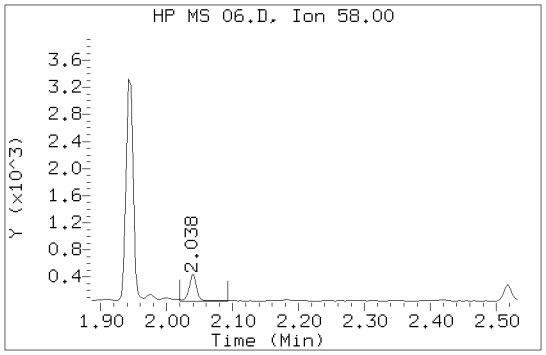
1,4-Dioxane ()

Reason Code:

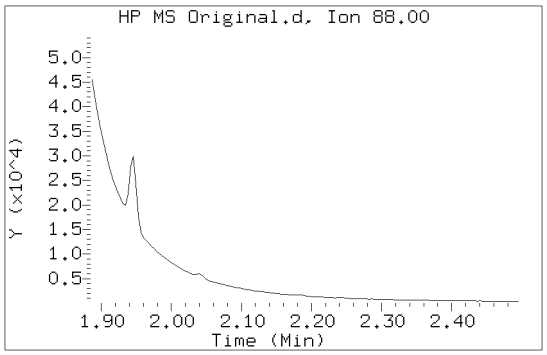
BEFORE
MASS
58
AREA
285
HEIGHT
383
03-Jul-2024
13:12
ALSHS
Server



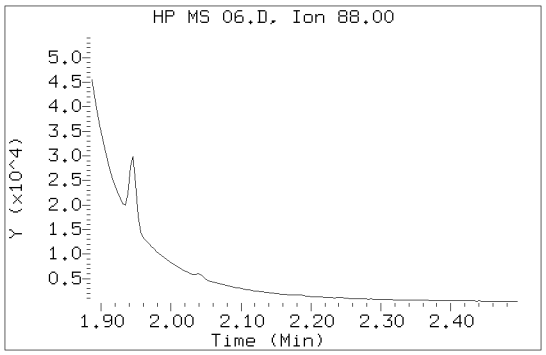
AFTER
MASS
58
AREA
336
HEIGHT
391
03-Jul-2024
16:09



BEFORE
MASS
88
AREA
107900
HEIGHT
29459
03-Jul-2024
13:12
ALSHS
Server



AFTER
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88
AREA
107900
HEIGHT
29459
03-Jul-2024
16:09



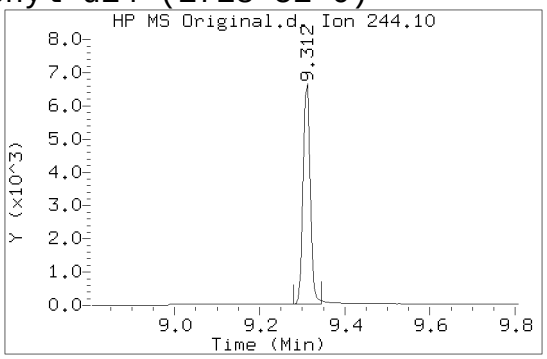
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\06.D
Inj Date : 03-JUL-2024 12:58
InstruID : SV6.i
LabSampID : LCS-213966

4-Terphenyl-d14 (1718-51-0)

Reason Code:

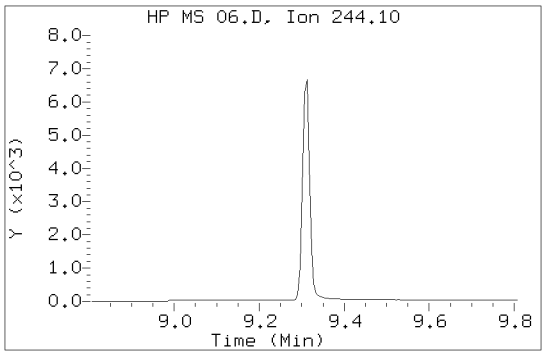
BEFORE

MASS
244.1
AREA
7693
HEIGHT
6624
03-Jul-2024
13:12
ALSHS
Server



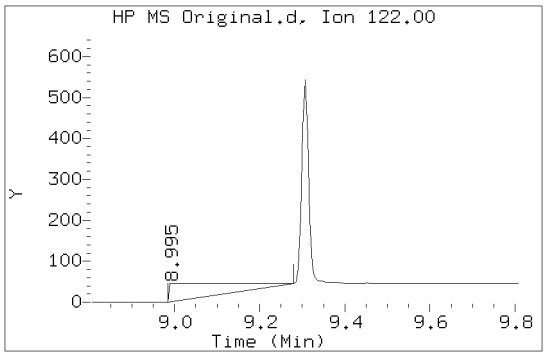
AFTER

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244.1
AREA
11430
HEIGHT
6669
03-Jul-2024
16:09



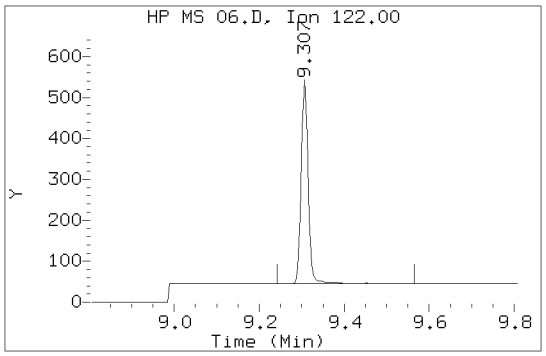
BEFORE

MASS
122
AREA
389
HEIGHT
44
03-Jul-2024
13:12
ALSHS
Server



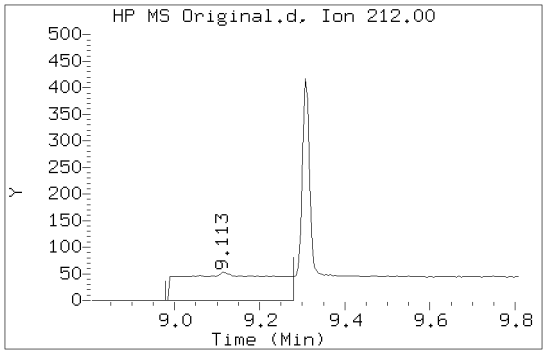
AFTER

MASS
122
AREA
555
HEIGHT
497
03-Jul-2024
16:09



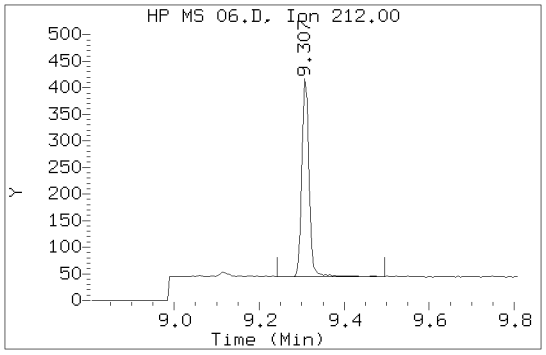
BEFORE

MASS
212
AREA
814
HEIGHT
53
03-Jul-2024
13:12
ALSHS
Server



AFTER

MASS
212
AREA
432
HEIGHT
372
03-Jul-2024
16:09



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D
Lab Smp Id: LCSD-213966
Inj Date : 03-JUL-2024 13:15
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-213966
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	3.502	3.503	(1.000)	2660	0.10000		(aQ)
* 45 Naphthalene-d8	136	4.576	4.576	(1.000)	8003	0.10000		
$ 33 Nitrobenzene-d5	82	3.937	3.937	(0.860)	1355	0.05640	0.05640	
* 86 Acenaphthene-d10	164	6.244	6.239	(1.000)	4893	0.10000		
$ 69 2-Fluorobiphenyl	172	5.580	5.580	(0.894)	4543	0.06074	0.06074	
* 126 Phenanthrene-d10	188	7.693	7.693	(1.000)	9556	0.10000		
* 182 Chrysene-d12	240	10.646	10.646	(1.000)	8980	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.312	9.306	(0.875)	9342	0.05107	0.05107	(M)
* 198 Perylene-d12	264	12.817	12.818	(1.000)	9194	0.10000		
1 1,4-Dioxane	58	2.015	2.030	(0.575)	289	0.05072	0.05072	

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.

01304590

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D

Date : 03-JUL-2024 13:15

Client ID:

Instrument: SV6.i

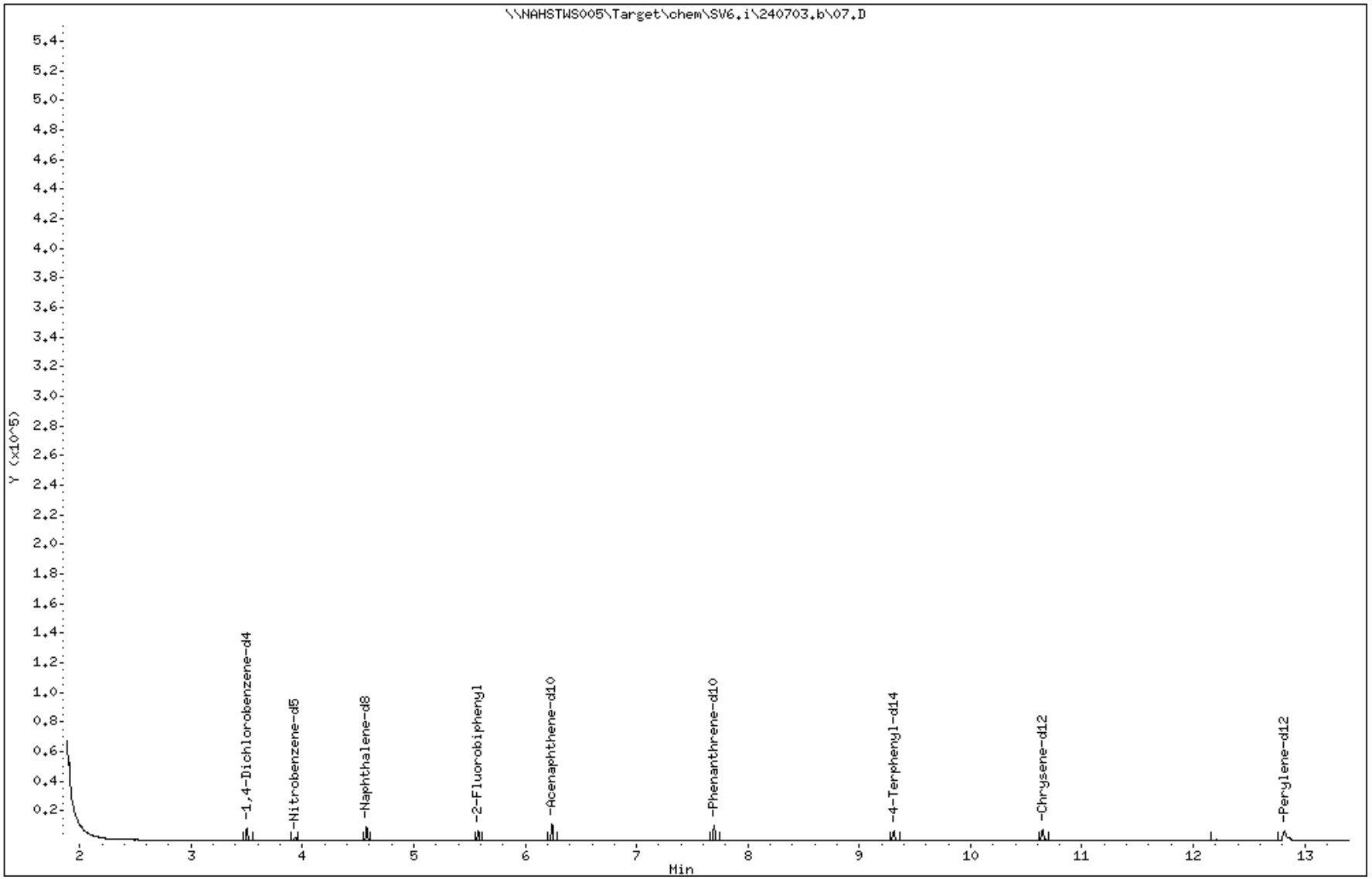
Sample Info: LCSD-213966

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D

Date : 03-JUL-2024 13:15

Client ID:

Instrument: SV6.i

Sample Info: LCSD-213966

Purge Volume: 1000.0

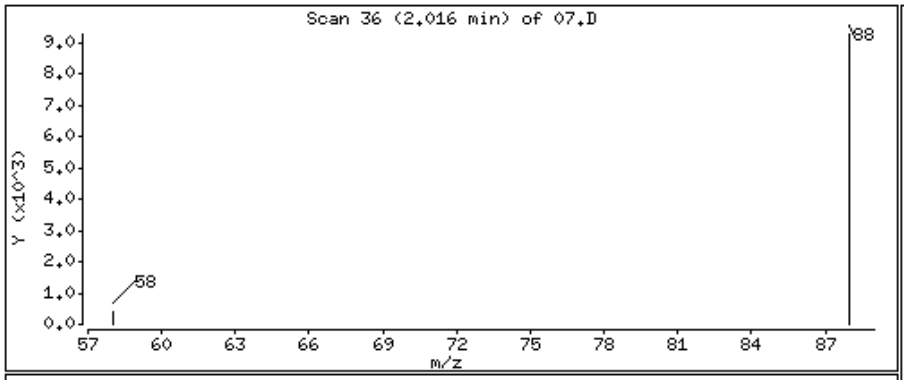
Operator: LG

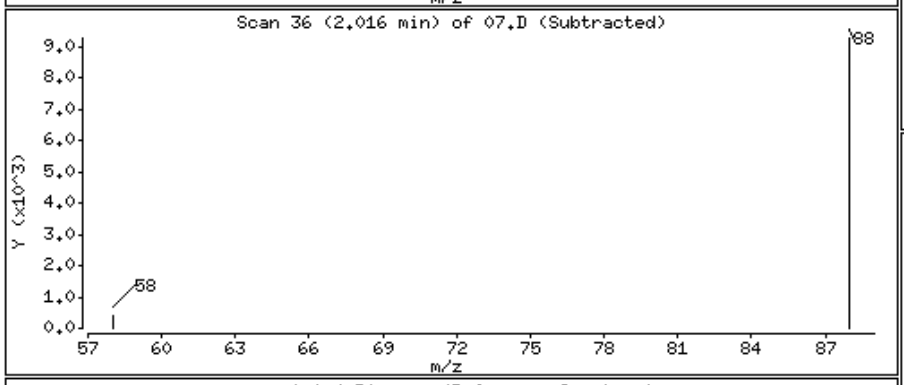
Column phase: RTX-5SIL MS

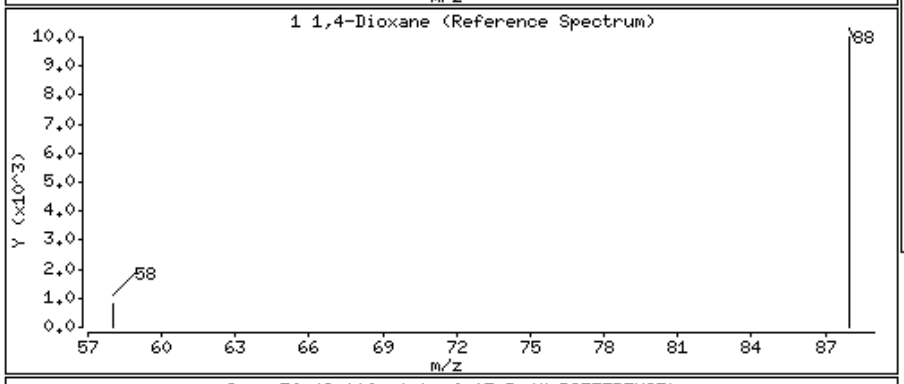
Column diameter: 0.28

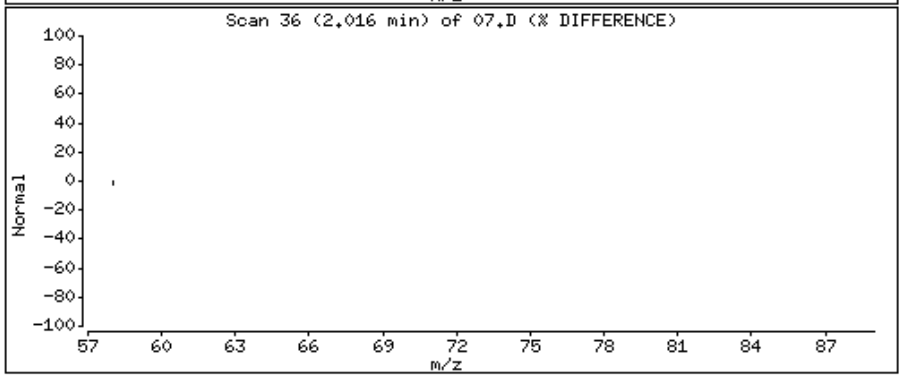
1 1,4-Dioxane

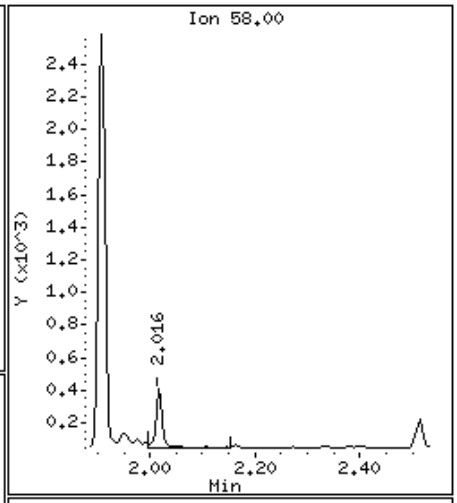
Concentration: 0.05072 ug/L

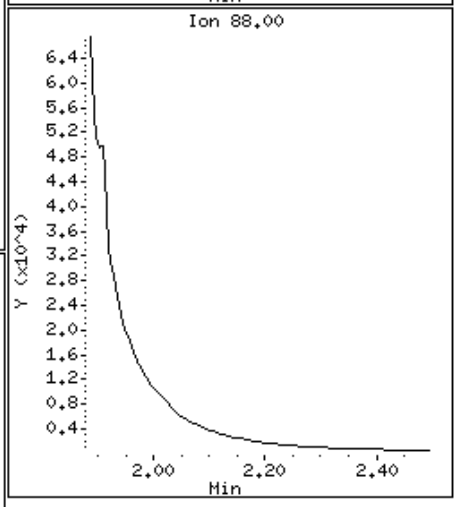












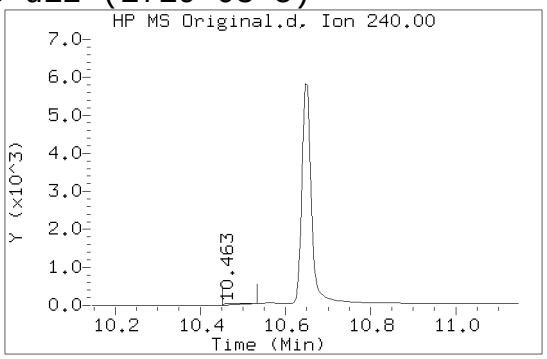
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D
Inj Date : 03-JUL-2024 13:15
InstruID : SV6.i
LabSampID : LCSD-213966

Chrysene-d12 (1719-03-5)

Reason Code:

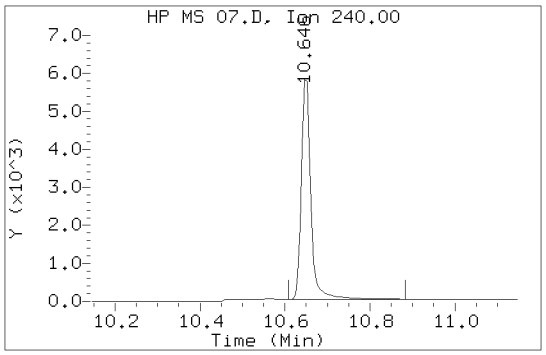
BEFORE

MASS
240
AREA
101
HEIGHT
39
03-Jul-2024
13:31
ALSHS
Server



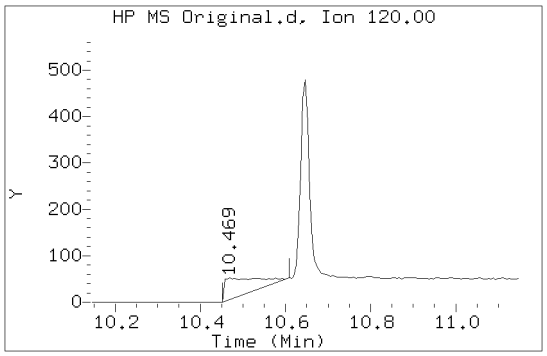
AFTER

MASS
240
AREA
8980
HEIGHT
5784
03-Jul-2024
16:10



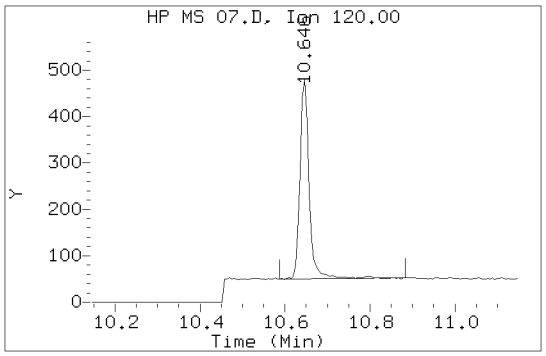
BEFORE

MASS
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AREA
219
HEIGHT
46
03-Jul-2024
13:31
ALSHS
Server



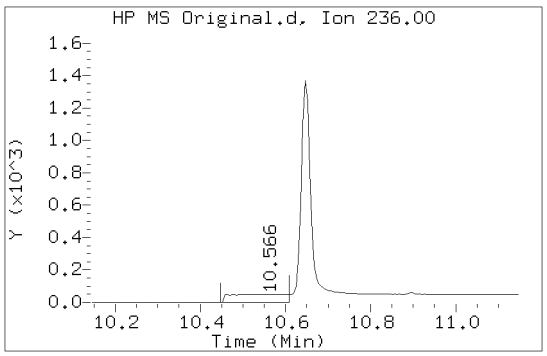
AFTER

MASS
120
AREA
626
HEIGHT
428
03-Jul-2024
16:10



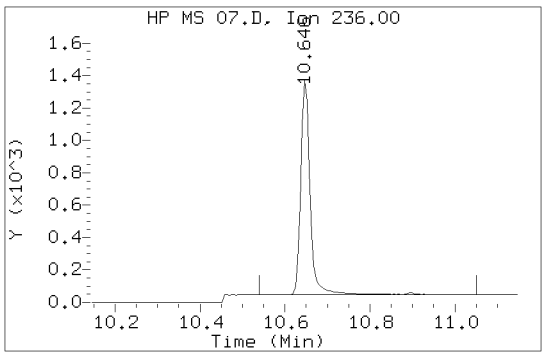
BEFORE

MASS
236
AREA
433
HEIGHT
48
03-Jul-2024
13:31
ALSHS
Server



AFTER

MASS
236
AREA
2058
HEIGHT
1322
03-Jul-2024
16:10

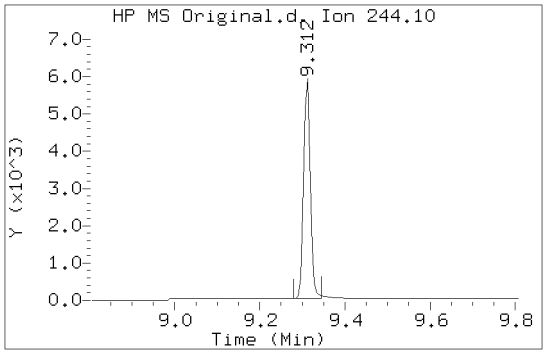


4-Terphenyl-d14 (1718-51-0)

Reason Code:

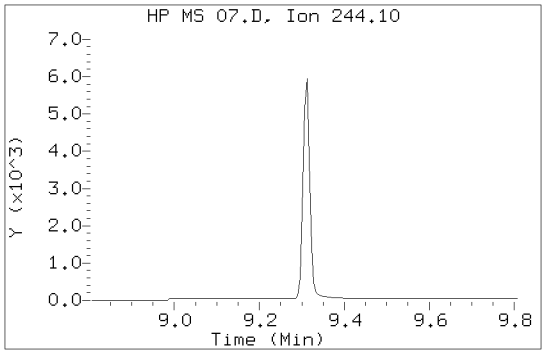
BEFORE

MASS
244.1
AREA
6417
HEIGHT
5902
03-Jul-2024
13:31
ALSHS
Server



AFTER

MASS
244.1
AREA
9342
HEIGHT
5941
03-Jul-2024
16:10

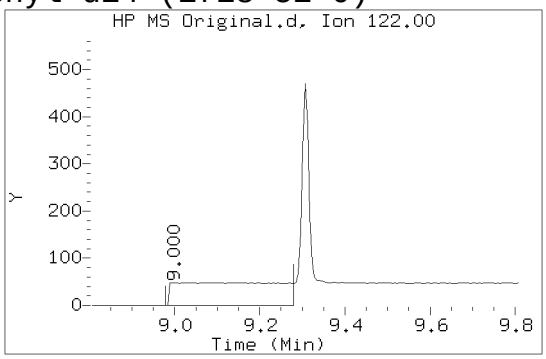


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\07.D
Inj Date : 03-JUL-2024 13:15
InstruID : SV6.i
LabSampID : LCSD-213966

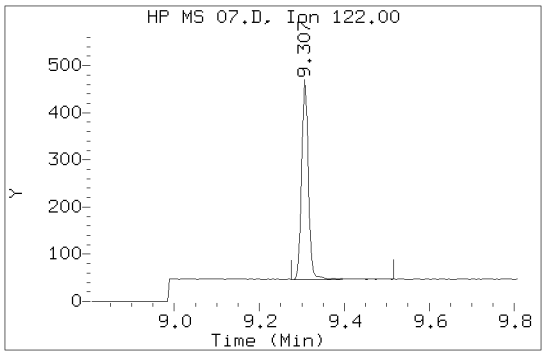
4-Terphenyl-d14 (1718-51-0)

Reason Code:

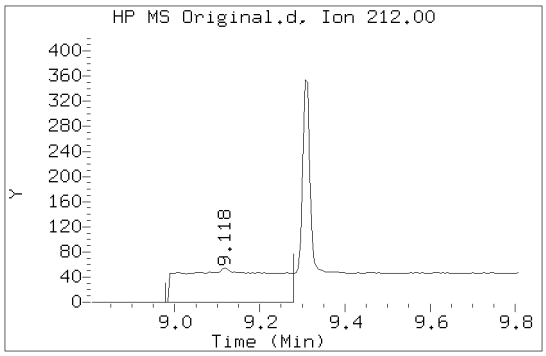
BEFORE
MASS
122
AREA
830
HEIGHT
48
03-Jul-2024
13:31
ALSHS
Server



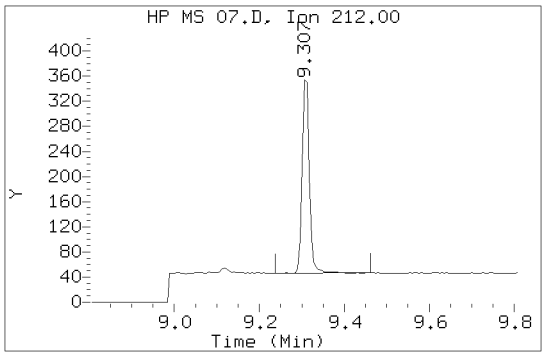
AFTER
MASS
122
AREA
462
HEIGHT
423
03-Jul-2024
16:10



BEFORE
MASS
212
AREA
833
HEIGHT
54
03-Jul-2024
13:31
ALSHS
Server



AFTER
MASS
212
AREA
354
HEIGHT
307
03-Jul-2024
16:10



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\12.D Page 1
Report Date: 03-Jul-2024 16:14

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\12.D
Lab Smp Id: HS24061313-02
Inj Date : 03-JUL-2024 14:42
Operator : LG Inst ID: SV6.i
Smp Info : HS24061313-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.508	3.503	(1.000)	3757	0.10000	(aQ)
* 45 Naphthalene-d8	136	4.576	4.576	(1.000)	11720	0.10000	
$ 33 Nitrobenzene-d5	82	3.937	3.937	(0.860)	1794	0.05099	0.05099
* 86 Acenaphthene-d10	164	6.245	6.239	(1.000)	7211	0.10000	
$ 69 2-Fluorobiphenyl	172	5.580	5.580	(0.894)	5877	0.05332	0.05332
* 126 Phenanthrene-d10	188	7.699	7.693	(1.000)	14250	0.10000	
* 182 Chrysene-d12	240	10.651	10.646	(1.000)	13916	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.312	9.306	(0.874)	13308	0.04694	0.04694(M)
* 198 Perylene-d12	264	12.818	12.818	(1.000)	14720	0.10000	
1 1,4-Dioxane	58	2.041	2.030	(0.582)	1710	0.21249	0.2125(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.

01304595

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\12.D

Date : 03-JUL-2024 14:42

Client ID:

Instrument: SV6.i

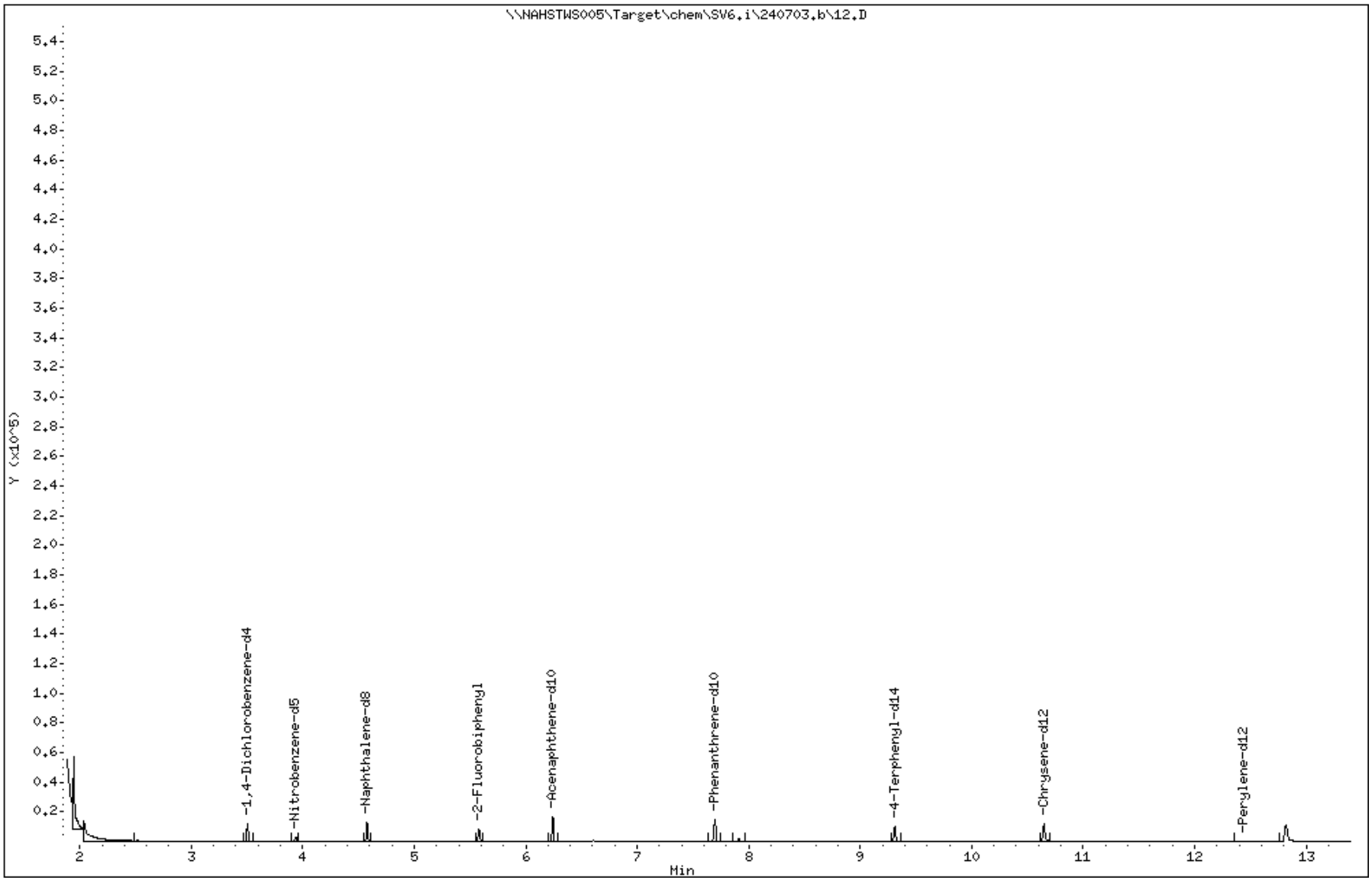
Sample Info: HS24061313-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\12.D

Date : 03-JUL-2024 14:42

Client ID:

Instrument: SV6.i

Sample Info: HS24061313-02

Purge Volume: 1000.0

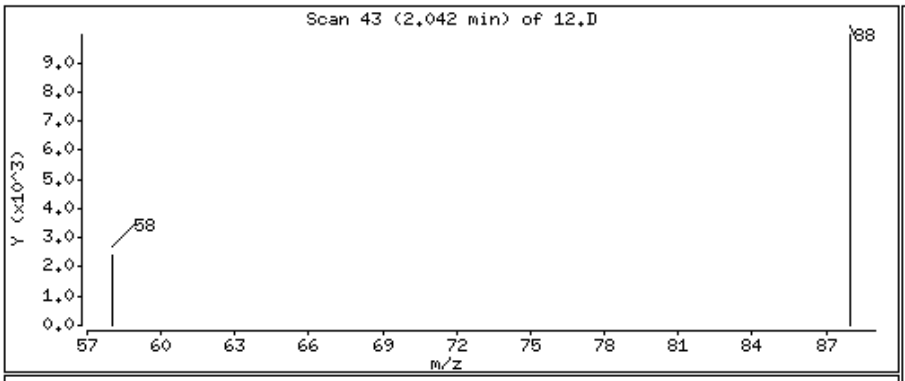
Operator: LG

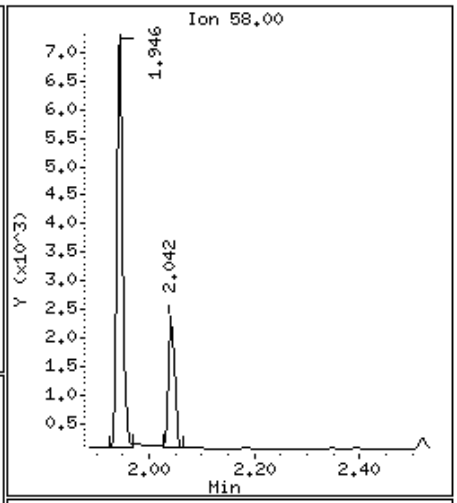
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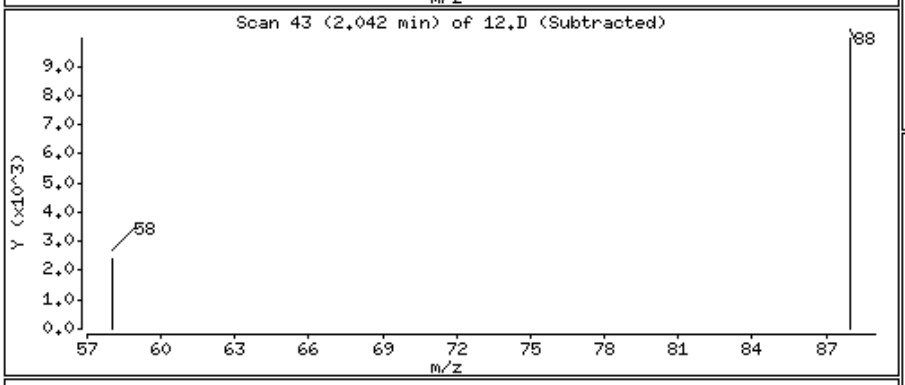
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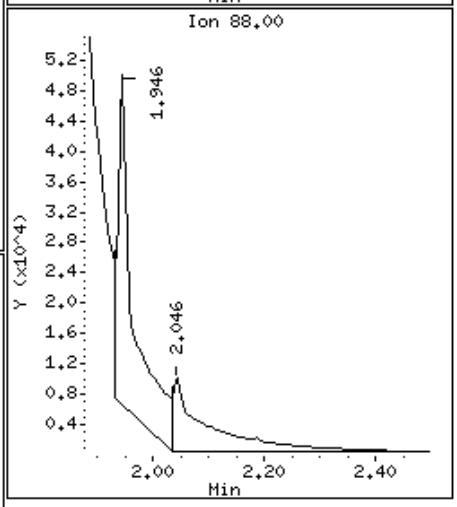
1 1,4-Dioxane

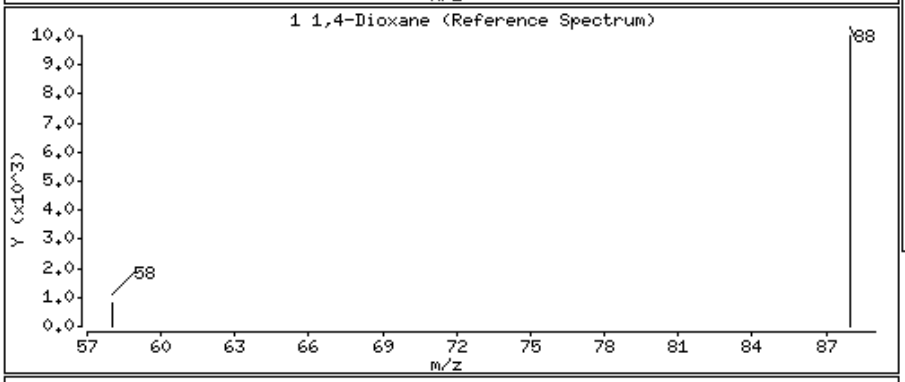
Concentration: 0.2125 ug/L

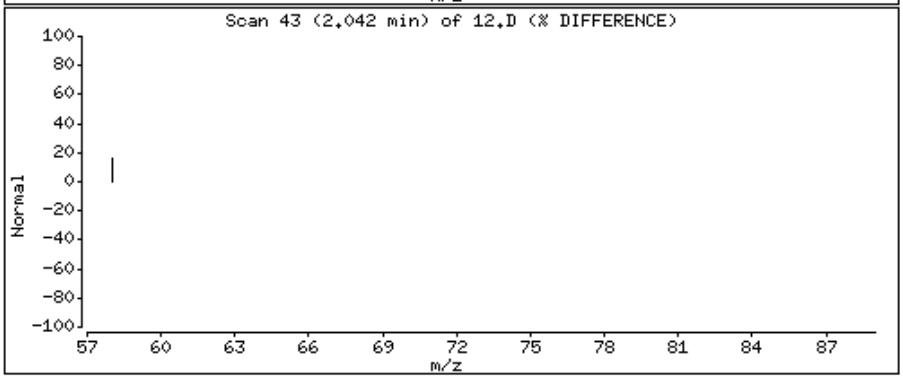












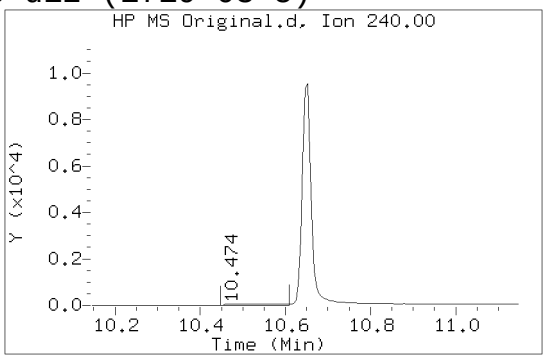
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\12.D
Inj Date : 03-JUL-2024 14:42
InstruID : SV6.i
LabSampID : HS24061313-02

Chrysene-d12 (1719-03-5)

Reason Code:

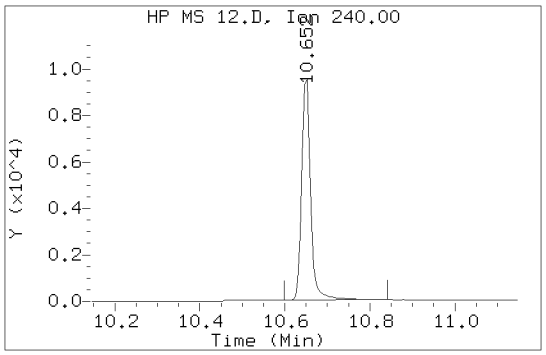
BEFORE

MASS
240
AREA
452
HEIGHT
50
03-Jul-2024
15:23
ALSHS
Server



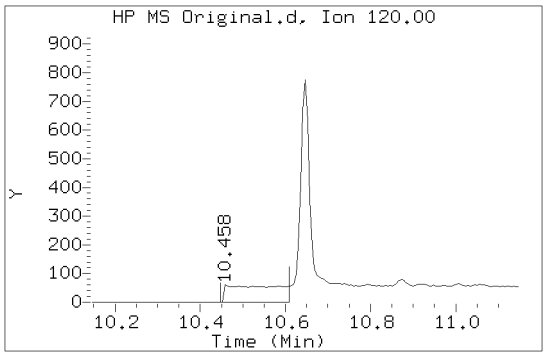
AFTER

MASS
240
AREA
13916
HEIGHT
9487
03-Jul-2024
16:14



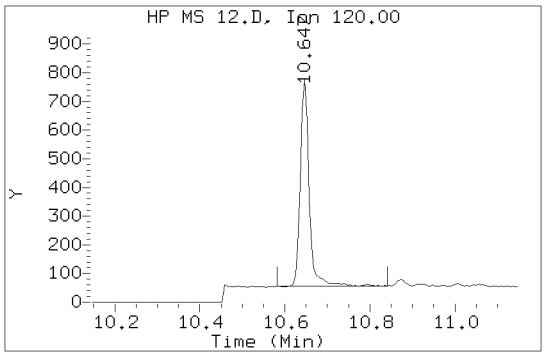
BEFORE

MASS
120
AREA
506
HEIGHT
60
03-Jul-2024
15:23
ALSHS
Server



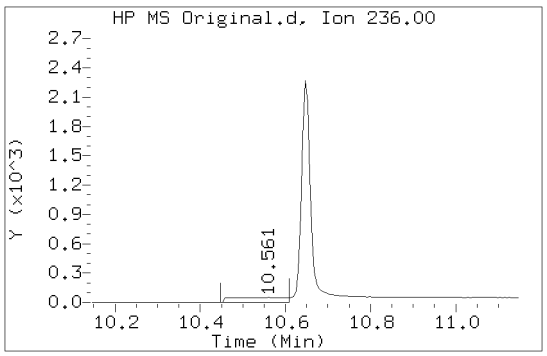
AFTER

MASS
120
AREA
1043
HEIGHT
719
03-Jul-2024
16:14



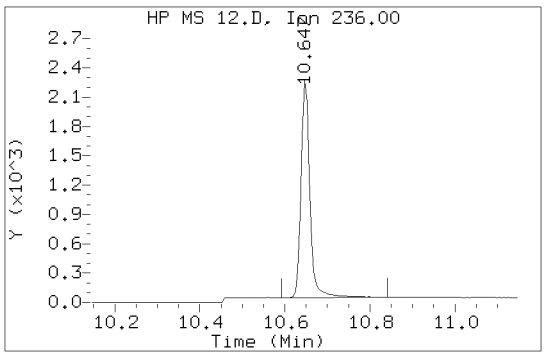
BEFORE

MASS
236
AREA
452
HEIGHT
50
03-Jul-2024
15:23
ALSHS
Server



AFTER

MASS
236
AREA
3170
HEIGHT
2219
03-Jul-2024
16:14

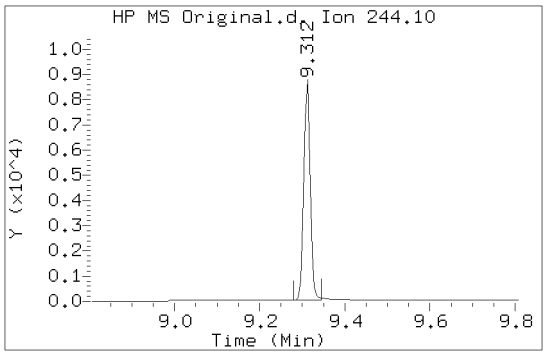


4-Terphenyl-d14 (1718-51-0)

Reason Code:

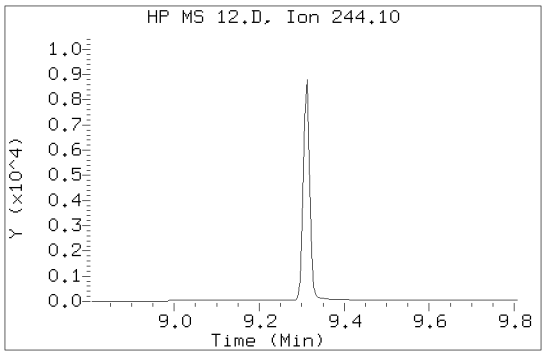
BEFORE

MASS
244.1
AREA
9104
HEIGHT
8749
03-Jul-2024
15:23
ALSHS
Server



AFTER

MASS
244.1
AREA
13308
HEIGHT
8798
03-Jul-2024
16:14

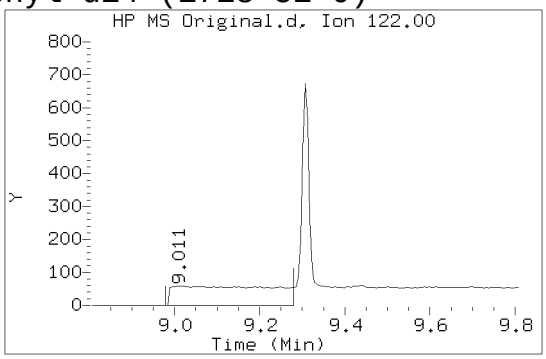


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\12.D
Inj Date : 03-JUL-2024 14:42
InstruID : SV6.i
LabSampID : HS24061313-02

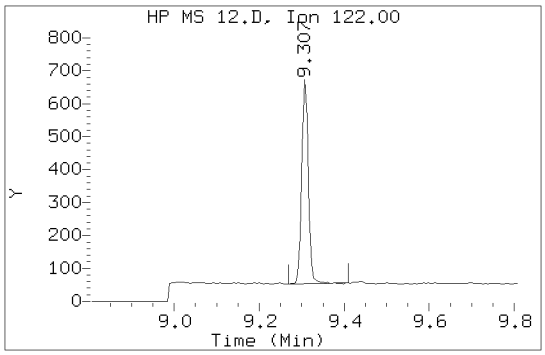
4-Terphenyl-d14 (1718-51-0)

Reason Code:

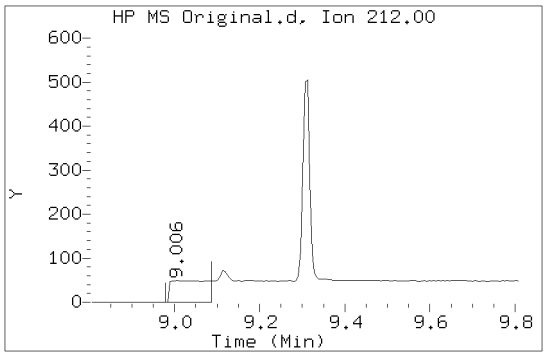
BEFORE
MASS
122
AREA
977
HEIGHT
59
03-Jul-2024
15:23
ALSHS
Server



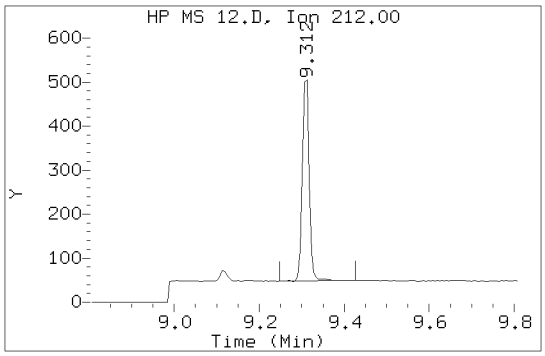
AFTER
MASS
122
AREA
652
HEIGHT
619
03-Jul-2024
16:14



BEFORE
MASS
212
AREA
293
HEIGHT
49
03-Jul-2024
15:23
ALSHS
Server



AFTER
MASS
212
AREA
509
HEIGHT
456
03-Jul-2024
16:14



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\13.D
Lab Smp Id: HS24061313-03
Inj Date : 03-JUL-2024 15:00
Operator : LG Inst ID: SV6.i
Smp Info : HS24061313-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.508	3.503	(1.000)	3712	0.10000	(aQ)
* 45 Naphthalene-d8	136	4.576	4.576	(1.000)	11516	0.10000	
$ 33 Nitrobenzene-d5	82	3.937	3.937	(0.860)	2099	0.06071	0.06071
* 86 Acenaphthene-d10	164	6.244	6.239	(1.000)	7180	0.10000	
$ 69 2-Fluorobiphenyl	172	5.580	5.580	(0.894)	6966	0.06347	0.06347
* 126 Phenanthrene-d10	188	7.693	7.693	(1.000)	14197	0.10000	
* 182 Chrysene-d12	240	10.646	10.646	(1.000)	13597	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.312	9.306	(0.875)	15063	0.05438	0.05438(M)
* 198 Perylene-d12	264	12.817	12.818	(1.000)	14375	0.10000	
1 1,4-Dioxane	58	2.008	2.030	(0.572)	137	0.01723	0.01723(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.

01304600

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\13.D

Date : 03-JUL-2024 15:00

Client ID:

Instrument: SV6.i

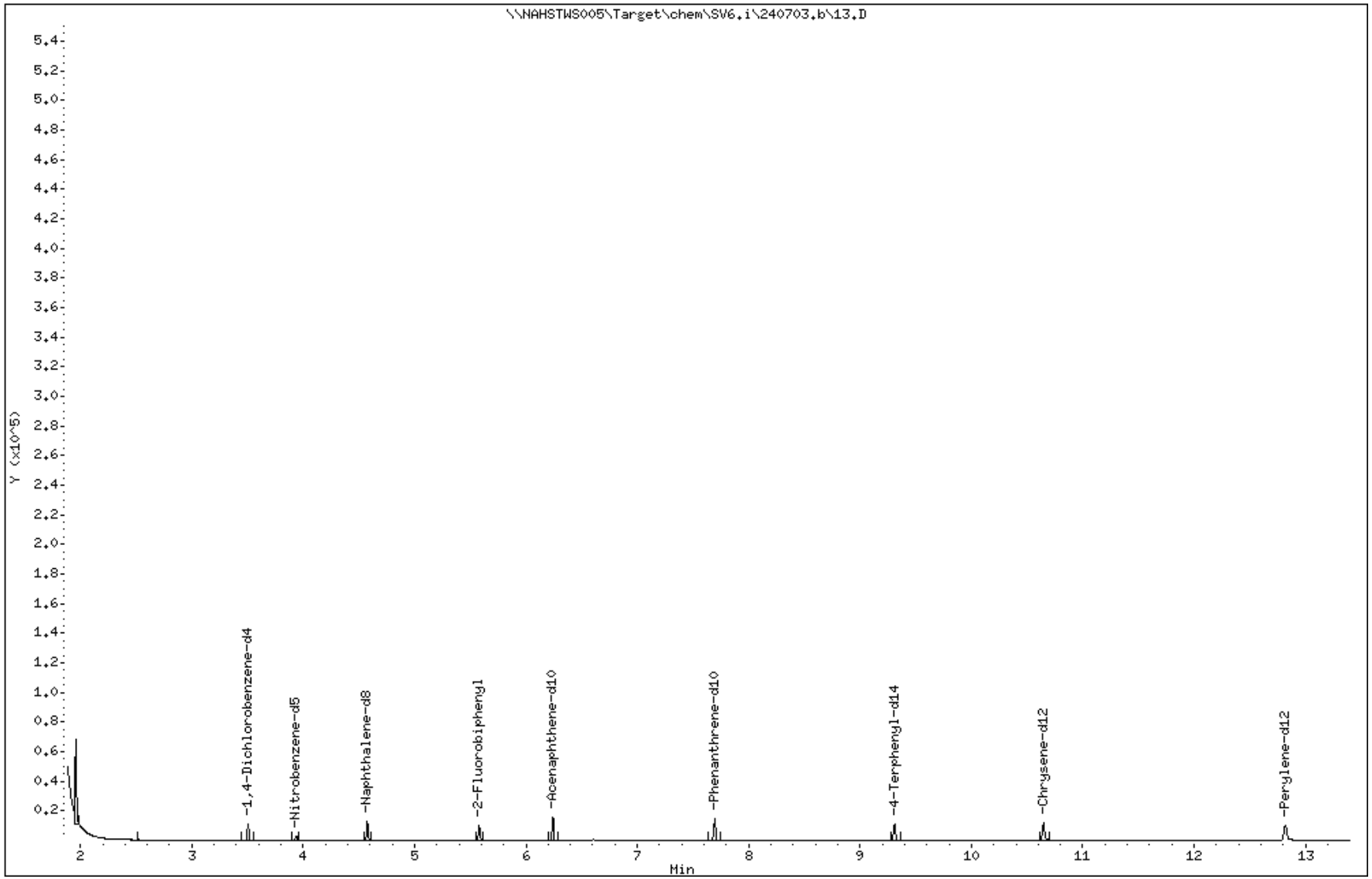
Sample Info: HS24061313-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\13.D

Date : 03-JUL-2024 15:00

Client ID:

Instrument: SV6.i

Sample Info: HS24061313-03

Purge Volume: 1000.0

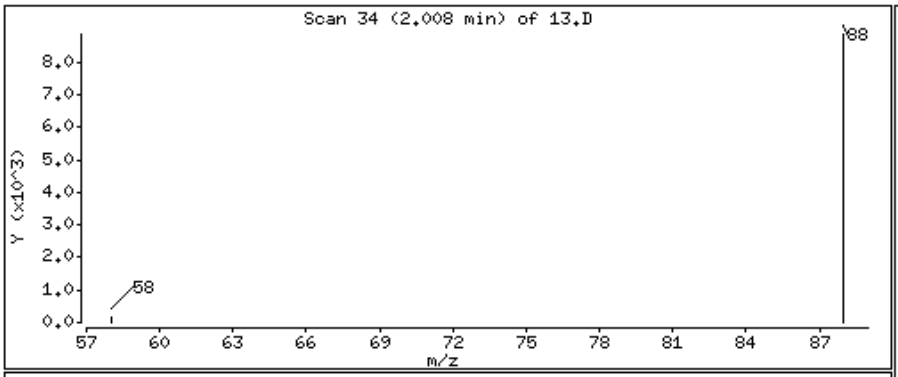
Operator: LG

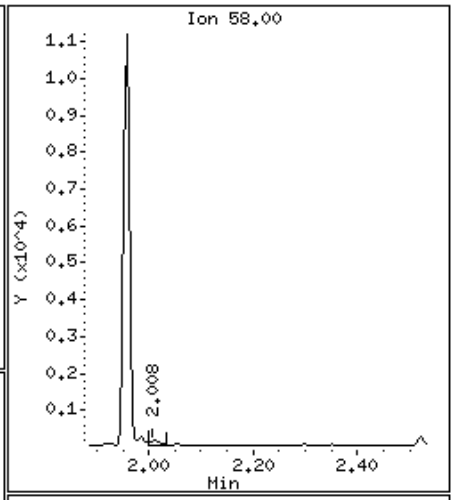
Column phase: RTX-5SIL MS

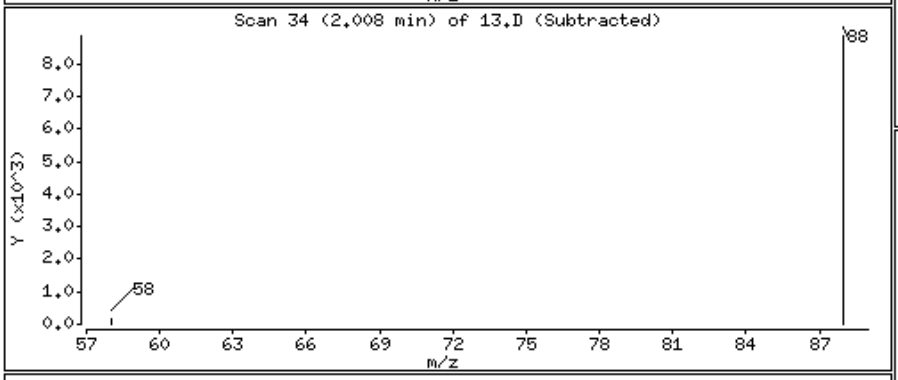
Column diameter: 0.28

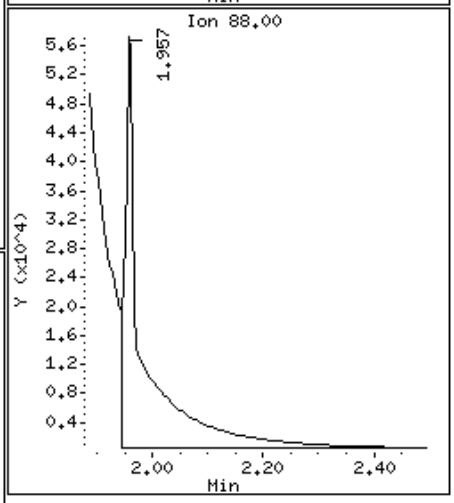
1 1,4-Dioxane

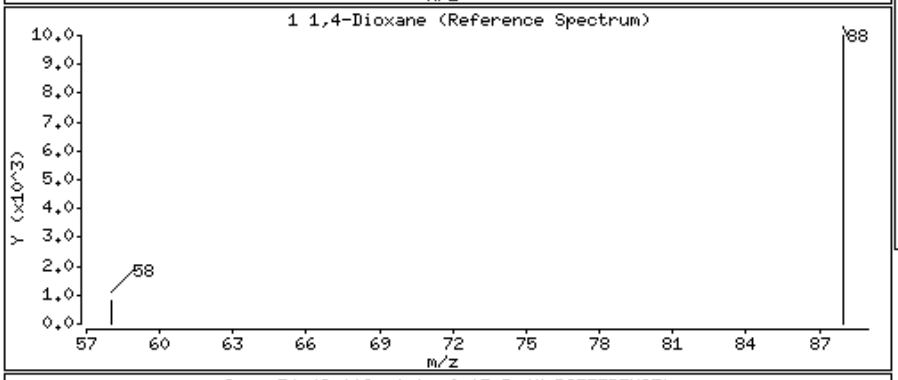
Concentration: 0.01723 ug/L

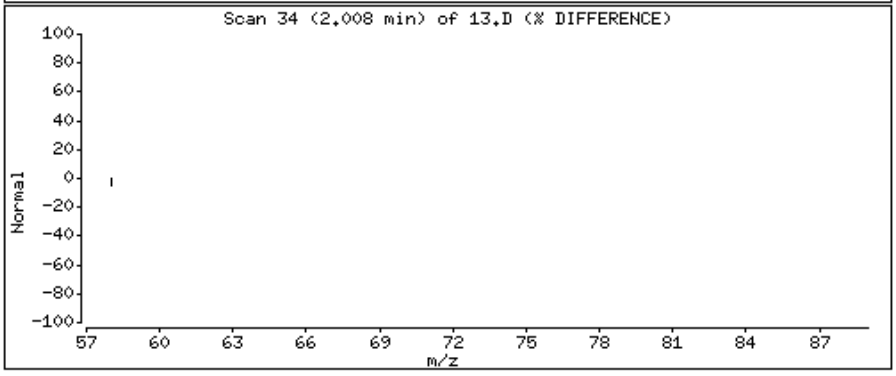










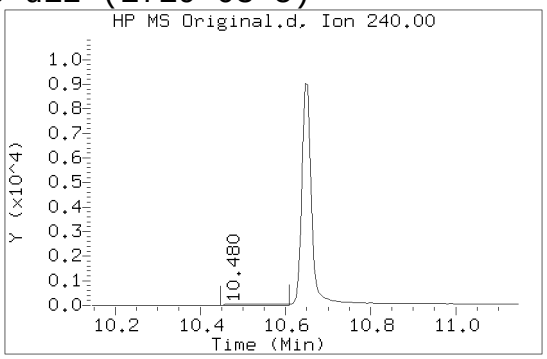


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\13.D
Inj Date : 03-JUL-2024 15:00
InstruID : SV6.i
LabSampID : HS24061313-03

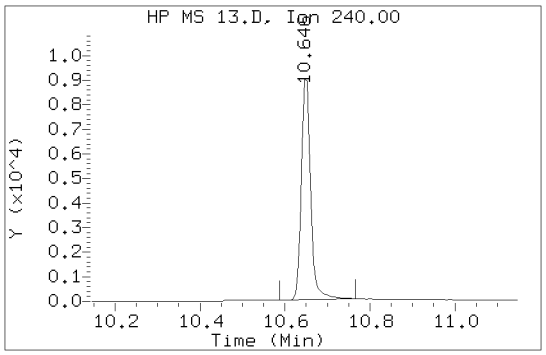
Chrysene-d12 (1719-03-5)

Reason Code:

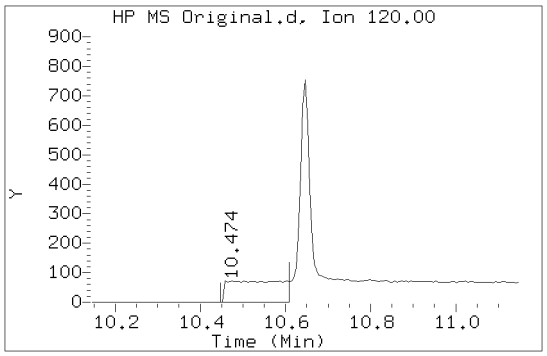
BEFORE
MASS
240
AREA
520
HEIGHT
57
03-Jul-2024
15:24
ALSHS
Server



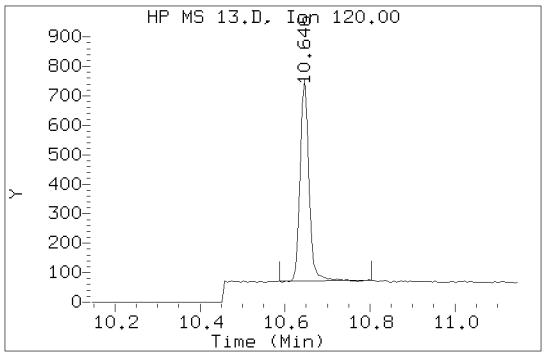
AFTER
MASS
240
AREA
13597
HEIGHT
8945
03-Jul-2024
16:14



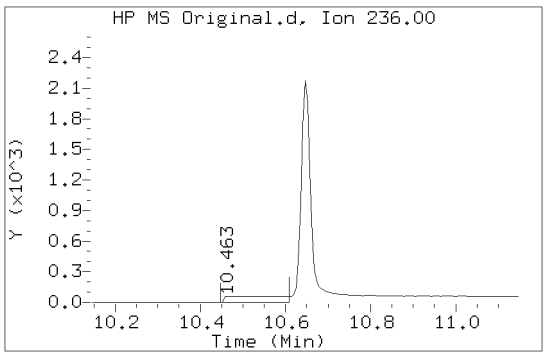
BEFORE
MASS
120
AREA
649
HEIGHT
72
03-Jul-2024
15:24
ALSHS
Server



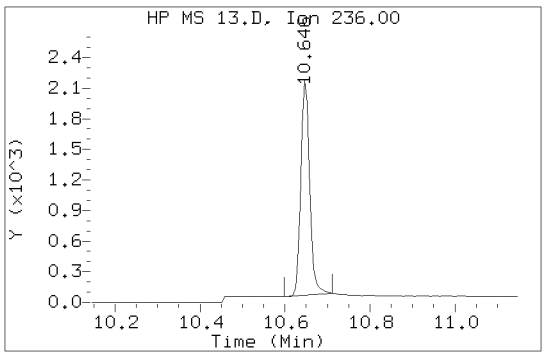
AFTER
MASS
120
AREA
973
HEIGHT
682
03-Jul-2024
16:14



BEFORE
MASS
236
AREA
533
HEIGHT
58
03-Jul-2024
15:24
ALSHS
Server



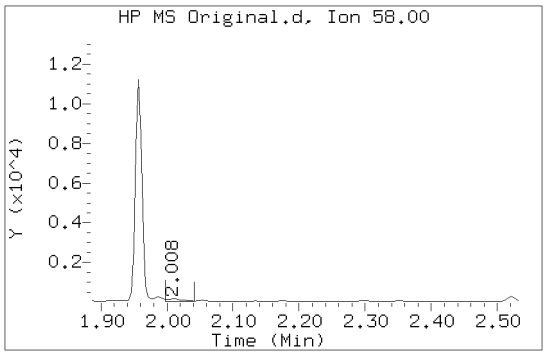
AFTER
MASS
236
AREA
3020
HEIGHT
2103
03-Jul-2024
16:14



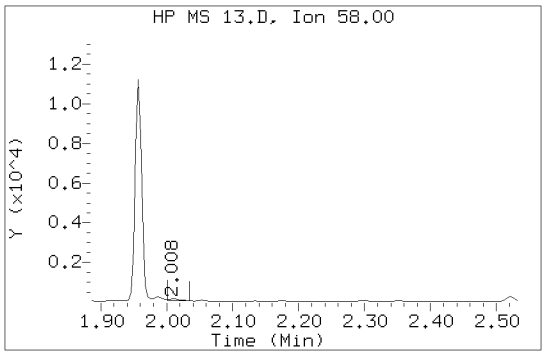
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
166
HEIGHT
112
03-Jul-2024
15:24
ALSHS
Server



AFTER
MASS
58
AREA
137
HEIGHT
105
03-Jul-2024
16:14



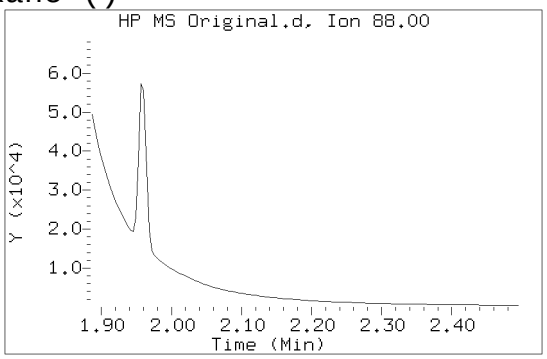
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\13.D
Inj Date : 03-JUL-2024 15:00
InstruID : SV6.i
LabSampID : HS24061313-03

1,4-Dioxane ()

Reason Code:

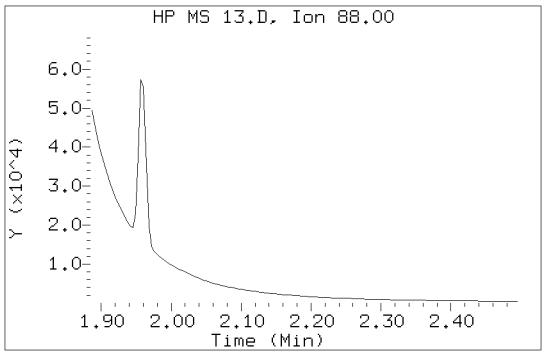
BEFORE

MASS
88
AREA
127093
HEIGHT
56852
03-Jul-2024
15:24
ALSHS
Server



AFTER

MASS
88
AREA
127093
HEIGHT
56852
03-Jul-2024
16:14

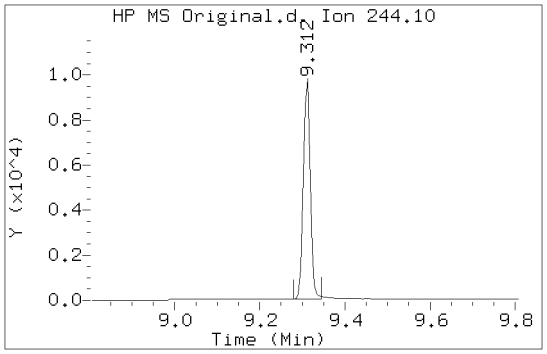


4-Terphenyl-d14 (1718-51-0)

Reason Code:

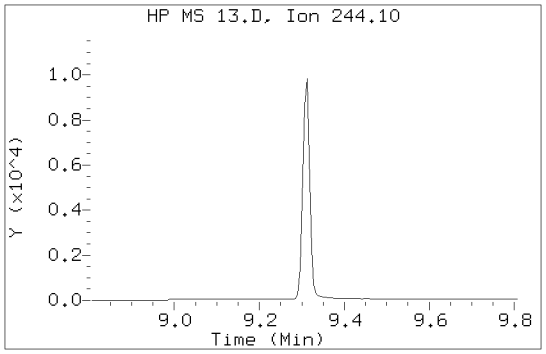
BEFORE

MASS
244.1
AREA
10951
HEIGHT
9773
03-Jul-2024
15:24
ALSHS
Server



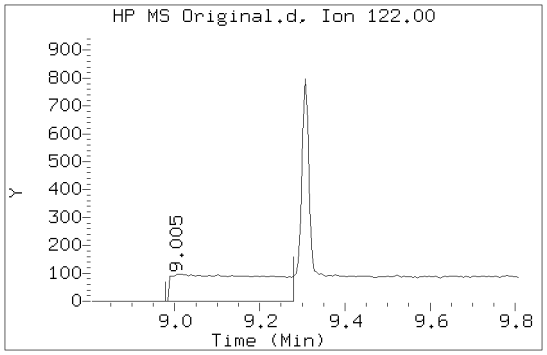
AFTER

MASS
244.1
AREA
15063
HEIGHT
9819
03-Jul-2024
16:14



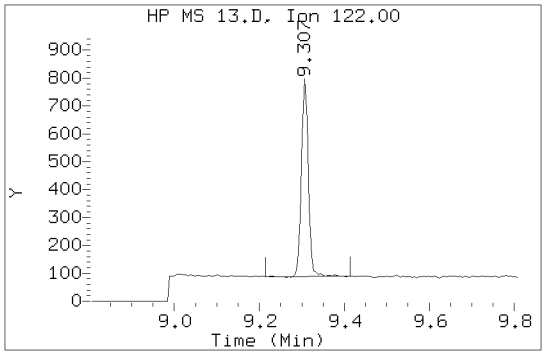
BEFORE

MASS
122
AREA
1604
HEIGHT
97
03-Jul-2024
15:24
ALSHS
Server



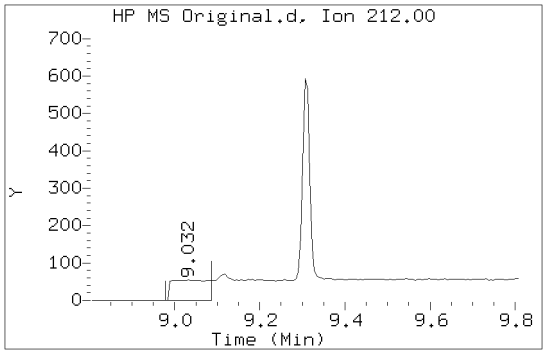
AFTER

MASS
122
AREA
787
HEIGHT
708
03-Jul-2024
16:14



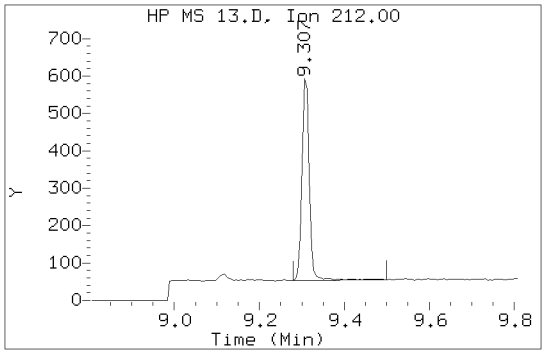
BEFORE

MASS
212
AREA
326
HEIGHT
55
03-Jul-2024
15:24
ALSHS
Server



AFTER

MASS
212
AREA
632
HEIGHT
538
03-Jul-2024
16:14



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\14.D
Lab Smp Id: HS24061313-05
Inj Date : 03-JUL-2024 15:17
Operator : LG Inst ID: SV6.i
Smp Info : HS24061313-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.502	3.503	(1.000)	3394	0.10000	(aQ)
* 45 Naphthalene-d8	136	4.576	4.576	(1.000)	10579	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.937	3.937	(0.860)	2823	0.08889	0.08889
* 86 Acenaphthene-d10	164	6.244	6.239	(1.000)	6653	0.10000	
$ 69 2-Fluorobiphenyl	172	5.583	5.580	(0.894)	8871	0.08723	0.08722
* 126 Phenanthrene-d10	188	7.698	7.693	(1.000)	13276	0.10000	
* 182 Chrysene-d12	240	10.651	10.646	(1.000)	13113	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.312	9.306	(0.874)	16795	0.06287	0.06287(M)
* 198 Perylene-d12	264	12.823	12.818	(1.000)	13805	0.10000	

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.

01304605

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\14.D

Date : 03-JUL-2024 15:17

Client ID:

Instrument: SV6.i

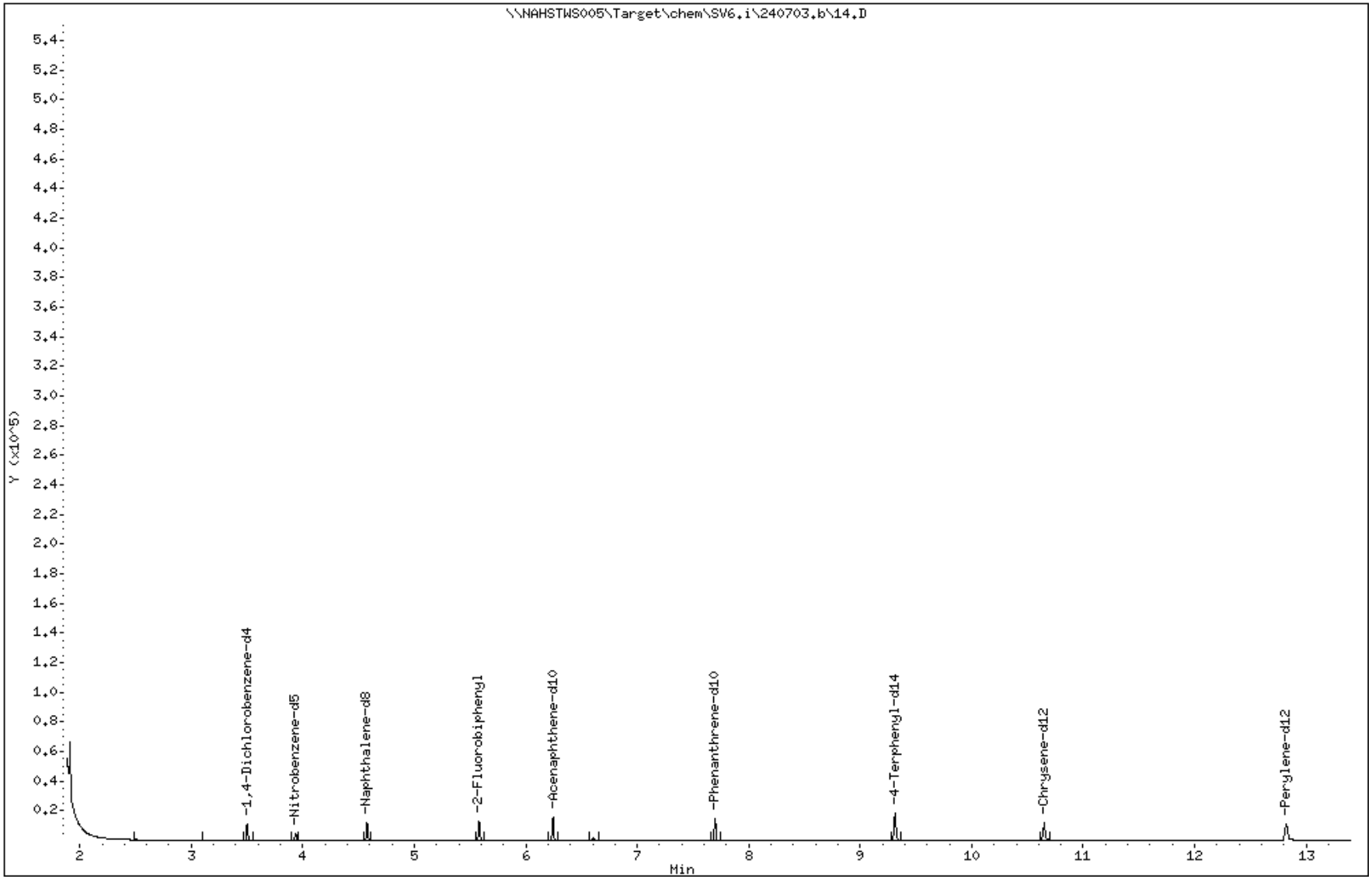
Sample Info: HS24061313-05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



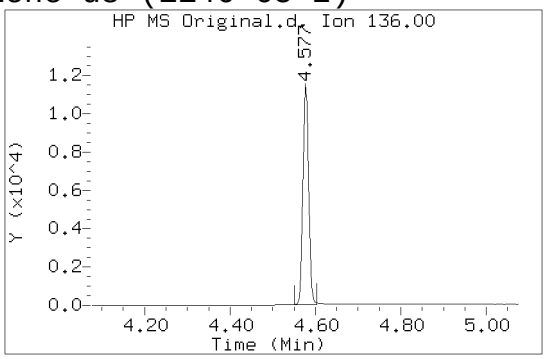
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\14.D
Inj Date : 03-JUL-2024 15:17
InstruID : SV6.i
LabSampID : HS24061313-05

Naphthalene-d8 (1146-65-2)

Reason Code:

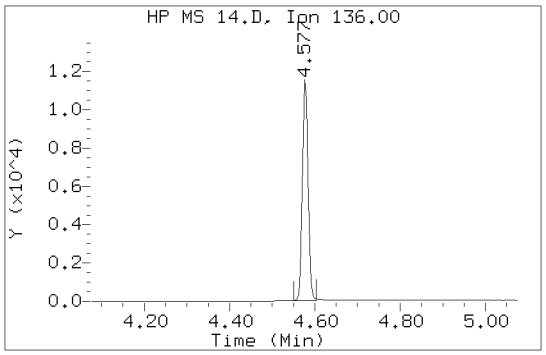
BEFORE

MASS
136
AREA
10579
HEIGHT
11525
03-Jul-2024
15:34
ALSHS
Server



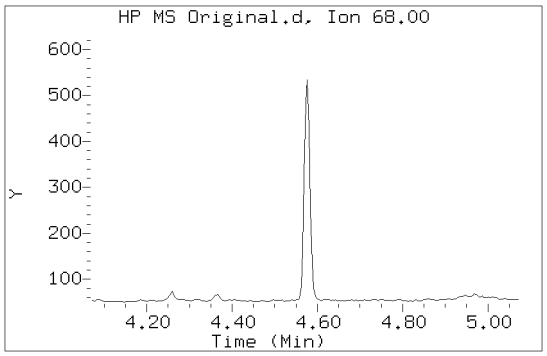
AFTER

MASS
136
AREA
10579
HEIGHT
11525
03-Jul-2024
16:15



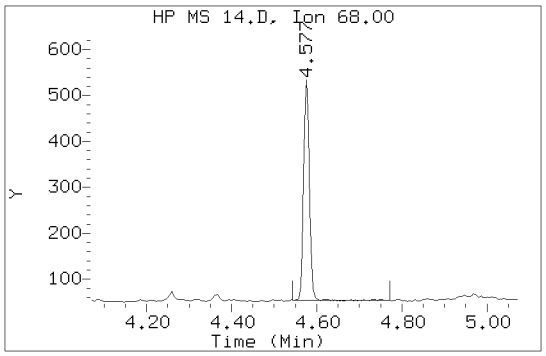
BEFORE

MASS
68
AREA
0
HEIGHT
0
03-Jul-2024
15:34
ALSHS
Server



AFTER

MASS
68
AREA
451
HEIGHT
480
03-Jul-2024
16:15

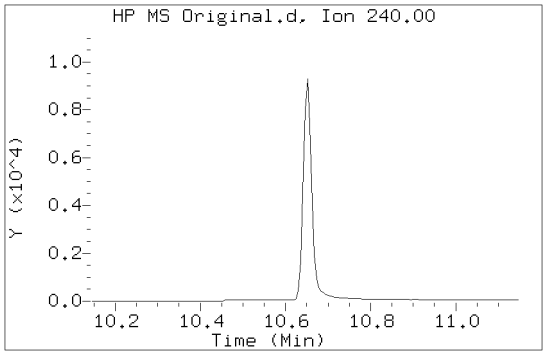


Chrysene-d12 (1719-03-5)

Reason Code:

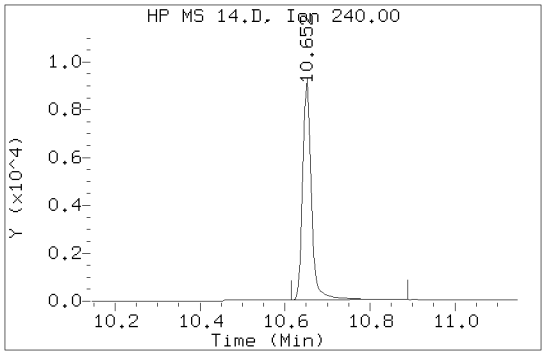
BEFORE

MASS
240
AREA
0
HEIGHT
0
03-Jul-2024
15:34
ALSHS
Server



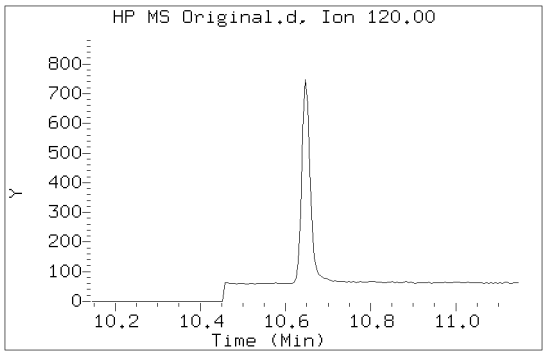
AFTER

MASS
240
AREA
13113
HEIGHT
9234
03-Jul-2024
16:15



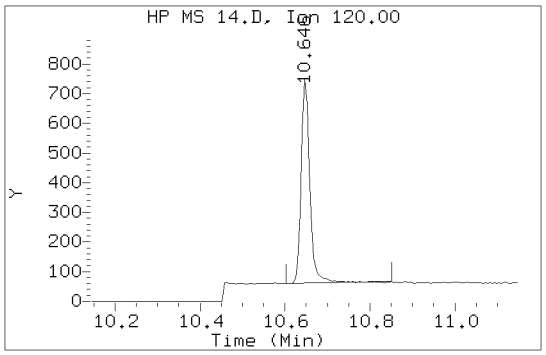
BEFORE

MASS
120
AREA
0
HEIGHT
0
03-Jul-2024
15:34
ALSHS
Server



AFTER

MASS
120
AREA
953
HEIGHT
685
03-Jul-2024
16:15



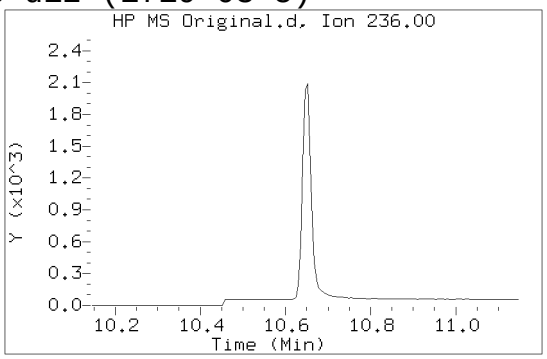
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\14.D
Inj Date : 03-JUL-2024 15:17
InstruID : SV6.i
LabSampID : HS24061313-05

Chrysene-d12 (1719-03-5)

Reason Code:

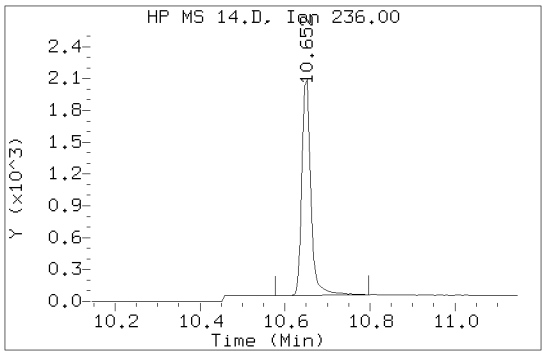
BEFORE

MASS
236
AREA
0
HEIGHT
0
03-Jul-2024
15:34
ALSHS
Server



AFTER

MASS
236
AREA
2972
HEIGHT
2031
03-Jul-2024
16:15

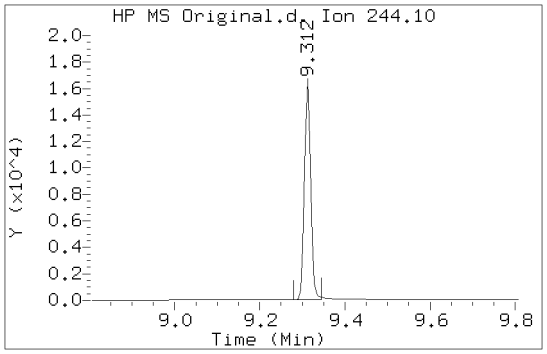


4-Terphenyl-d14 (1718-51-0)

Reason Code:

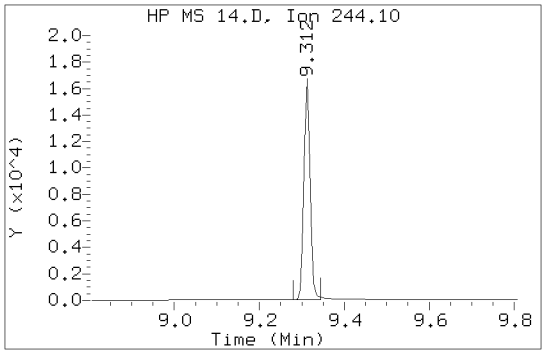
BEFORE

MASS
244.1
AREA
16795
HEIGHT
16691
03-Jul-2024
15:34
ALSHS
Server



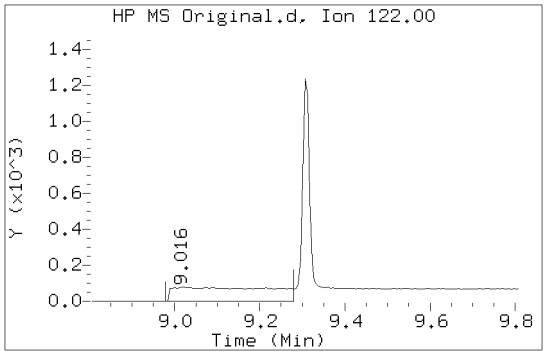
AFTER

MASS
244.1
AREA
16795
HEIGHT
16691
03-Jul-2024
16:15



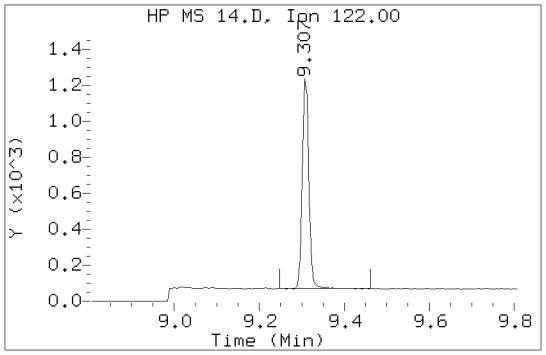
BEFORE

MASS
122
AREA
1275
HEIGHT
77
03-Jul-2024
15:34
ALSHS
Server



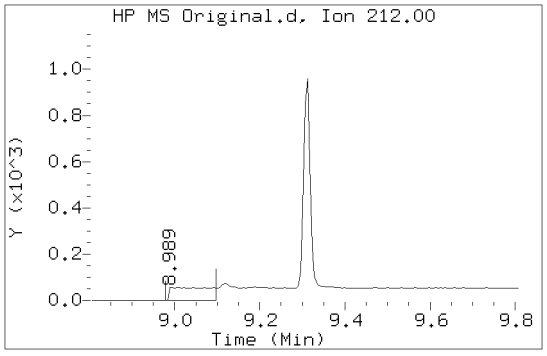
AFTER

MASS
122
AREA
1225
HEIGHT
1164
03-Jul-2024
16:15



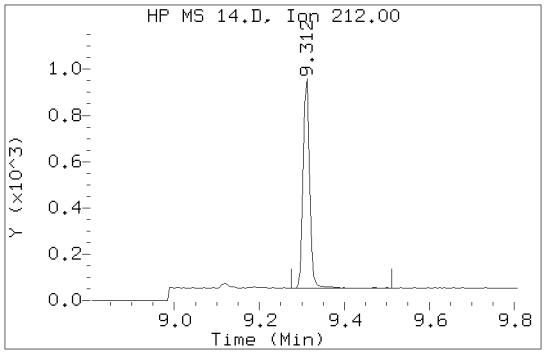
BEFORE

MASS
212
AREA
367
HEIGHT
56
03-Jul-2024
15:34
ALSHS
Server



AFTER

MASS
212
AREA
958
HEIGHT
905
03-Jul-2024
16:15



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\15.D
Lab Smp Id: HS24061313-06
Inj Date : 03-JUL-2024 15:35
Operator : LG Inst ID: SV6.i
Smp Info : HS24061313-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 03-Jul-2024 12:28 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.502	3.503	(1.000)	2843	0.10000	(aQ)
* 45 Naphthalene-d8	136	4.576	4.576	(1.000)	9252	0.10000	
$ 33 Nitrobenzene-d5	82	3.937	3.937	(0.860)	1645	0.05923	0.05922
* 86 Acenaphthene-d10	164	6.244	6.239	(1.000)	5653	0.10000	
$ 69 2-Fluorobiphenyl	172	5.583	5.580	(0.894)	5254	0.06080	0.06080
* 126 Phenanthrene-d10	188	7.698	7.693	(1.000)	11317	0.10000	
* 182 Chrysene-d12	240	10.651	10.646	(1.000)	10901	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.312	9.306	(0.874)	10183	0.04585	0.04585(M)
* 198 Perylene-d12	264	12.823	12.818	(1.000)	11402	0.10000	
1 1,4-Dioxane	58	2.019	2.030	(0.577)	147	0.02414	0.02414(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.

01304609

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\15.D

Date : 03-JUL-2024 15:35

Client ID:

Instrument: SV6.i

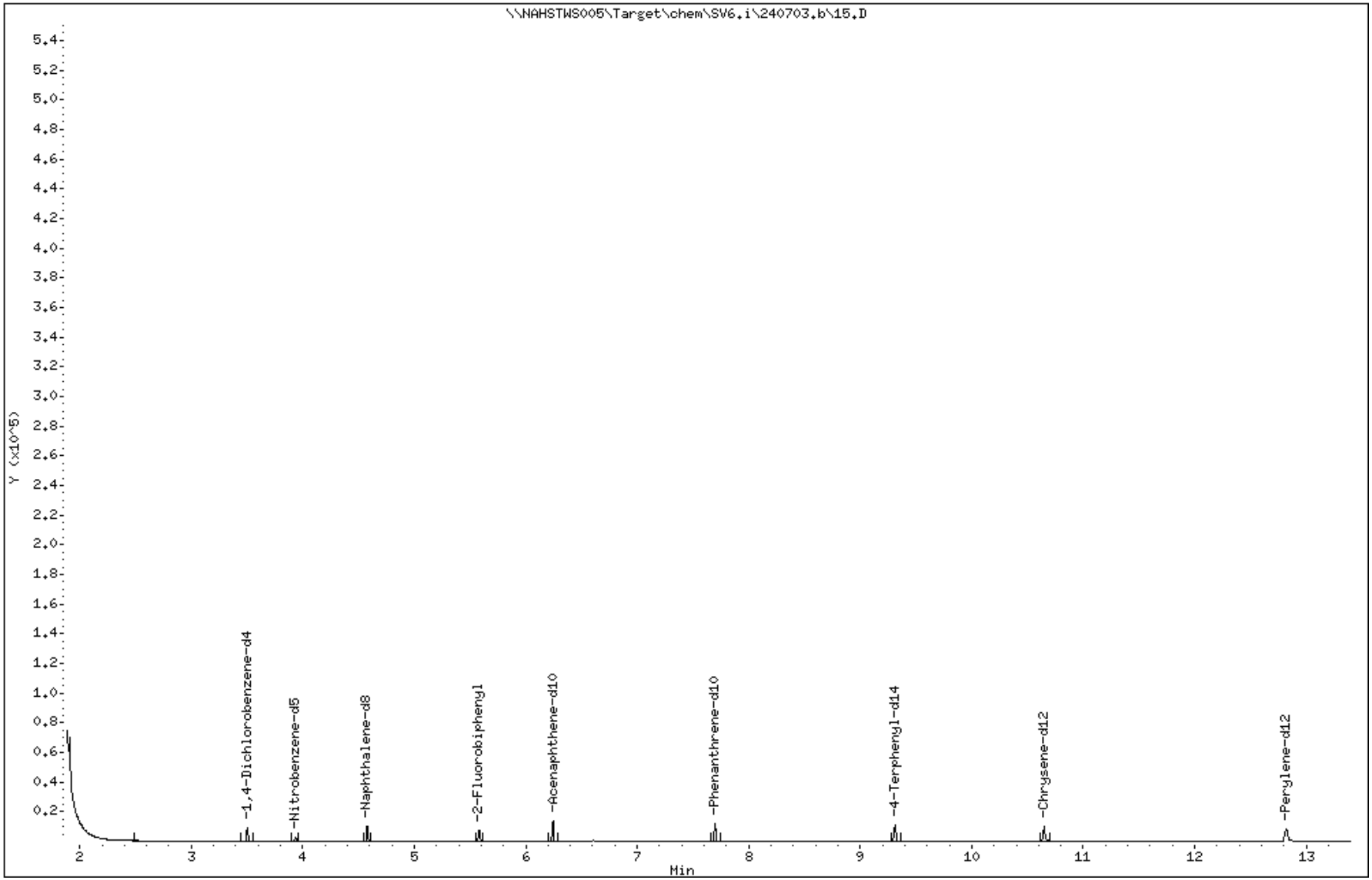
Sample Info: HS24061313-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\15.D

Date : 03-JUL-2024 15:35

Client ID:

Instrument: SV6.i

Sample Info: HS24061313-06

Purge Volume: 1000.0

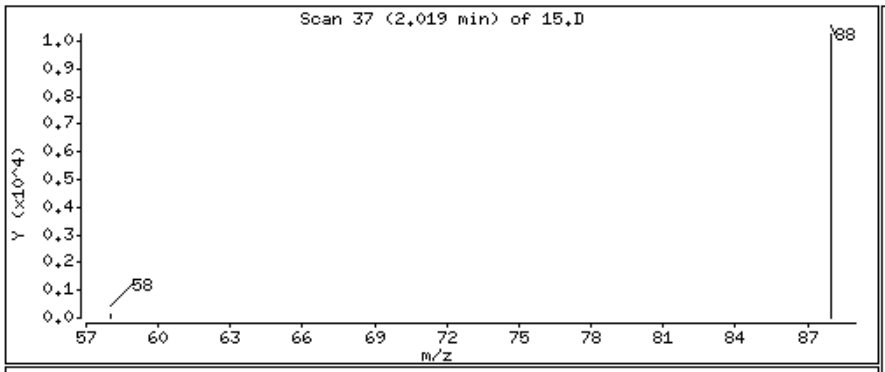
Operator: LG

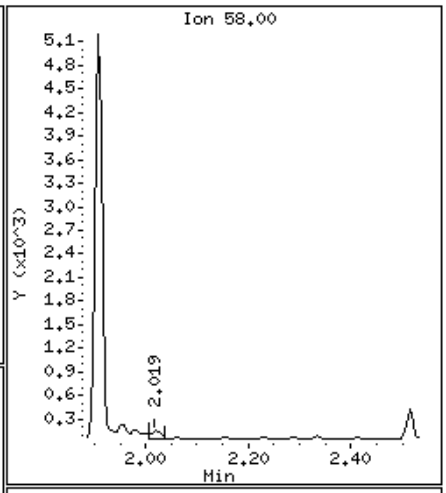
Column phase: RTX-5SIL MS

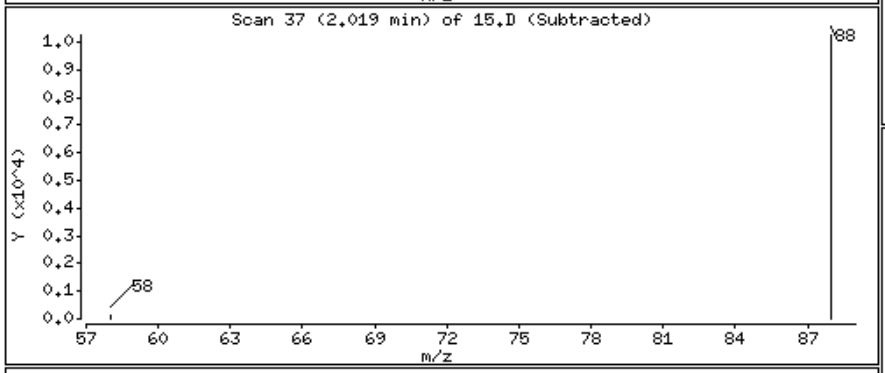
Column diameter: 0.28

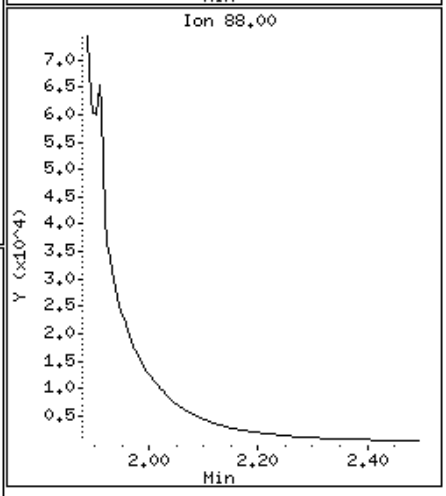
1 1,4-Dioxane

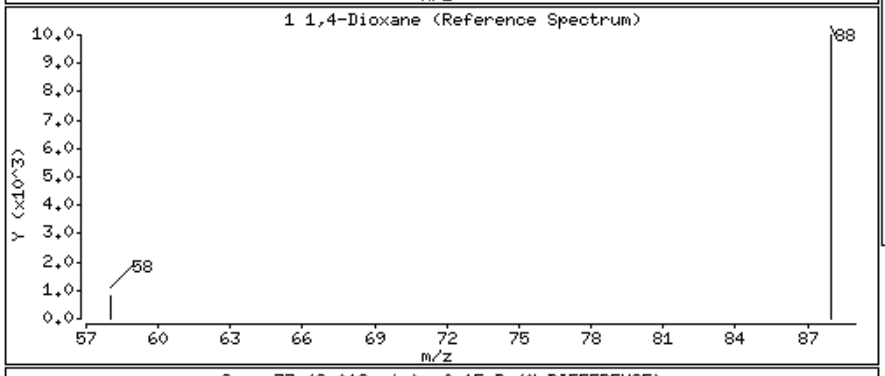
Concentration: 0.02414 ug/L

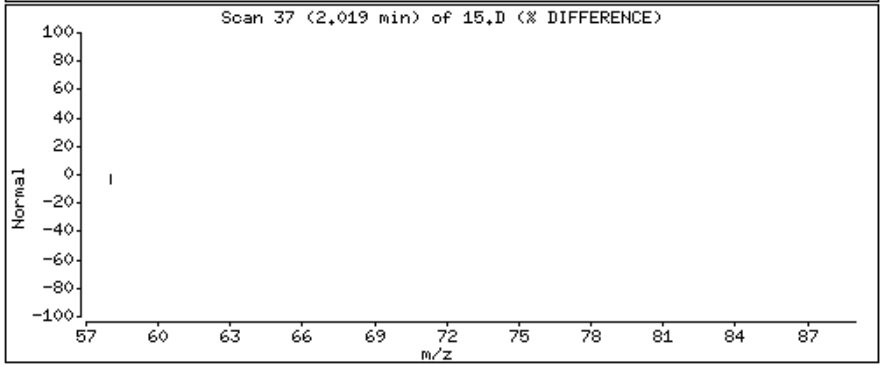










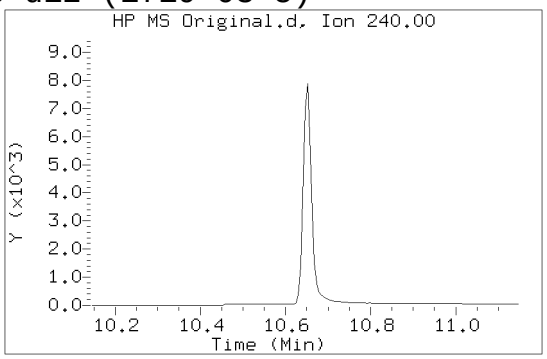


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\15.D
Inj Date : 03-JUL-2024 15:35
InstruID : SV6.i
LabSampID : HS24061313-06

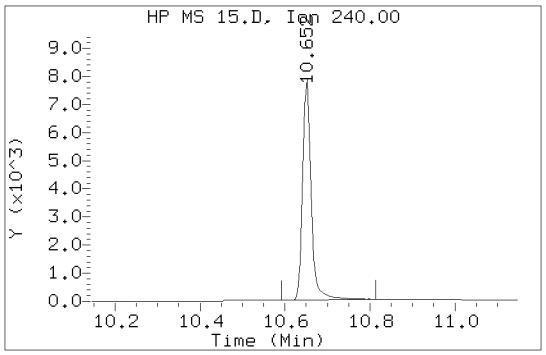
Chrysene-d12 (1719-03-5)

Reason Code:

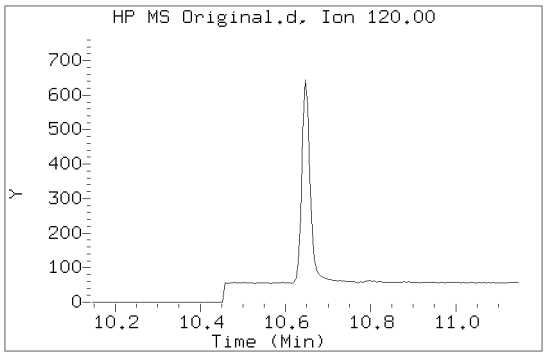
BEFORE
MASS
240
AREA
0
HEIGHT
0
03-Jul-2024
15:48
ALSHS
Server



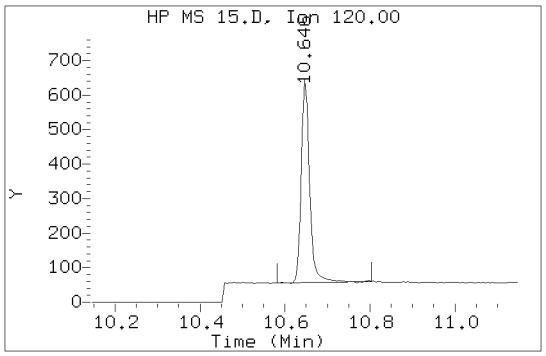
AFTER
MASS
240
AREA
10901
HEIGHT
7826
03-Jul-2024
16:15



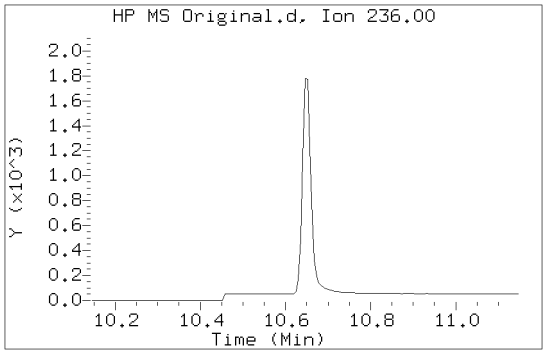
BEFORE
MASS
120
AREA
0
HEIGHT
0
03-Jul-2024
15:48
ALSHS
Server



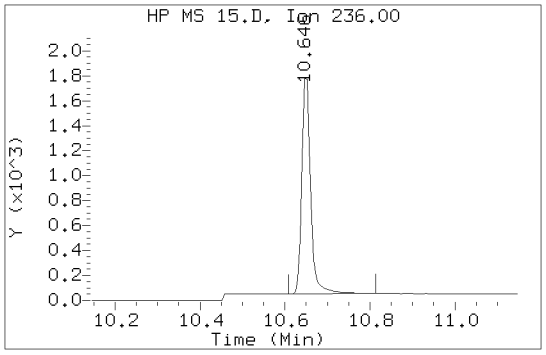
AFTER
MASS
120
AREA
803
HEIGHT
587
03-Jul-2024
16:15



BEFORE
MASS
236
AREA
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HEIGHT
0
03-Jul-2024
15:48
ALSHS
Server



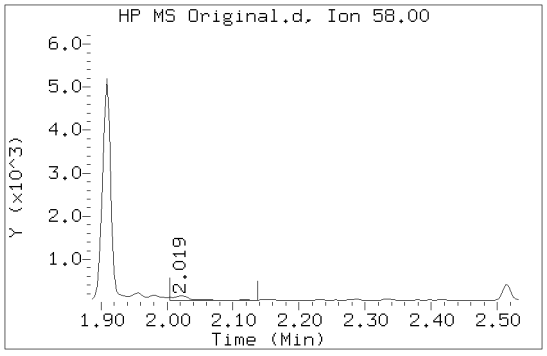
AFTER
MASS
236
AREA
2507
HEIGHT
1725
03-Jul-2024
16:15



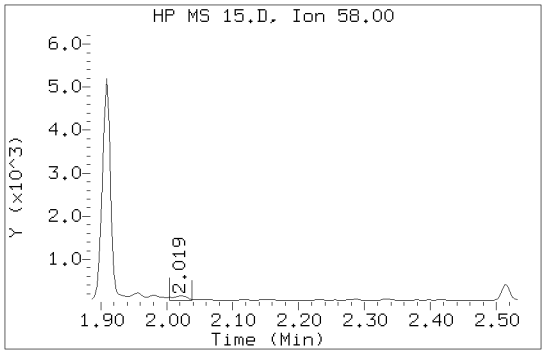
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
162
HEIGHT
97
03-Jul-2024
15:48
ALSHS
Server



AFTER
MASS
58
AREA
147
HEIGHT
97
03-Jul-2024
16:15

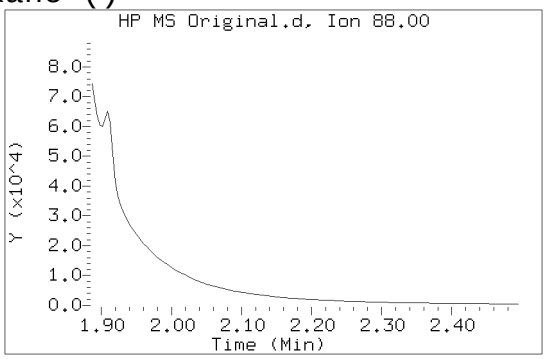


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\15.D
Inj Date : 03-JUL-2024 15:35
InstruID : SV6.i
LabSampID : HS24061313-06

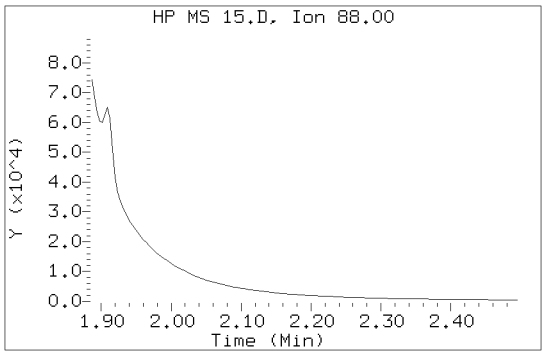
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
0
HEIGHT
0
03-Jul-2024
15:48
ALSHS
Server



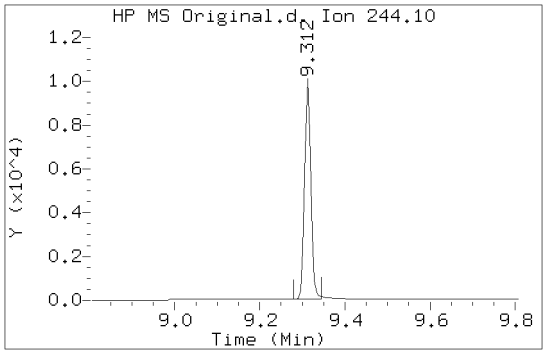
AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jul-2024
16:15



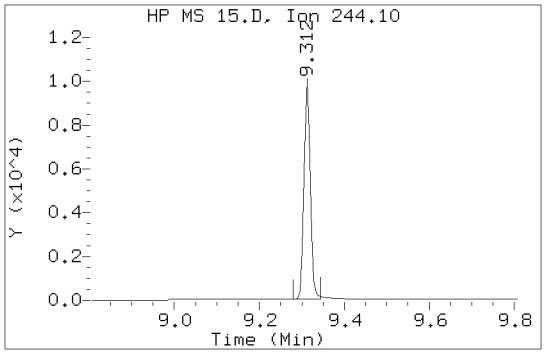
4-Terphenyl-d14 (1718-51-0)

Reason Code:

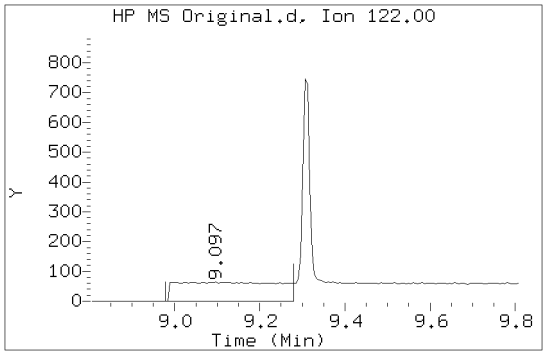
BEFORE
MASS
244.1
AREA
10183
HEIGHT
10072
03-Jul-2024
15:48
ALSHS
Server



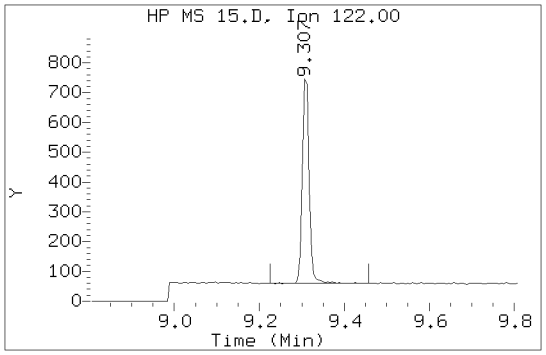
AFTER
MASS
244.1
AREA
10183
HEIGHT
10072
03-Jul-2024
16:15



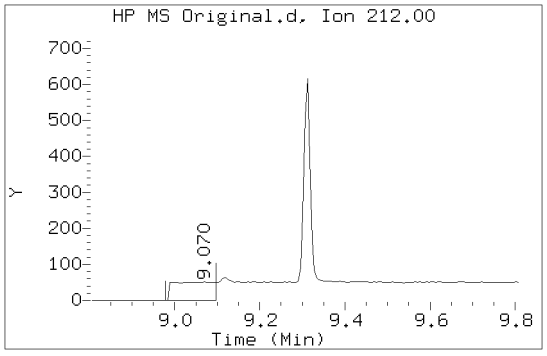
BEFORE
MASS
122
AREA
1089
HEIGHT
64
03-Jul-2024
15:48
ALSHS
Server



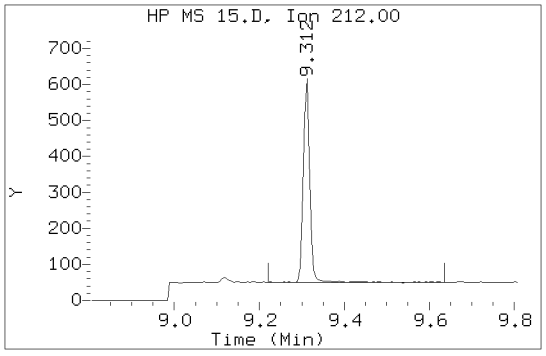
AFTER
MASS
122
AREA
746
HEIGHT
685
03-Jul-2024
16:15



BEFORE
MASS
212
AREA
335
HEIGHT
51
03-Jul-2024
15:48
ALSHS
Server



AFTER
MASS
212
AREA
598
HEIGHT
566
03-Jul-2024
16:15



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240703.b\16.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 03-JUL-2024 15:52
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240703.b\DXSIM.m
Meth Date : 25-Jul-2024 16:21 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	3.502	3.502	(1.000)	1844	0.10000	(aQM)
* 45 Naphthalene-d8	136	4.580	4.580	(1.000)	6013	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.937	3.937	(1.000)	1437	0.08000	0.07960
* 86 Acenaphthene-d10	164	6.244	6.244	(1.000)	4107	0.10000	
$ 69 2-Fluorobiphenyl	172	5.583	5.583	(0.894)	5546	0.08000	0.08834
* 126 Phenanthrene-d10	188	7.698	7.698	(1.000)	7069	0.10000	
* 182 Chrysene-d12	240	10.651	10.651	(1.000)	6750	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.312	9.312	(0.874)	9275	0.08000	0.06745(M)
* 198 Perylene-d12	264	12.823	12.823	(1.000)	7117	0.10000	
1 1,4-Dioxane	58	1.997	1.997	(0.570)	292	0.08000	0.07393

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.

01304614

Data File: \\NAHSTWS005\Target\chem\SV6.i\240703.b\16.D

Date : 03-JUL-2024 15:52

Client ID: 14DX-0.08

Instrument: SV6.i

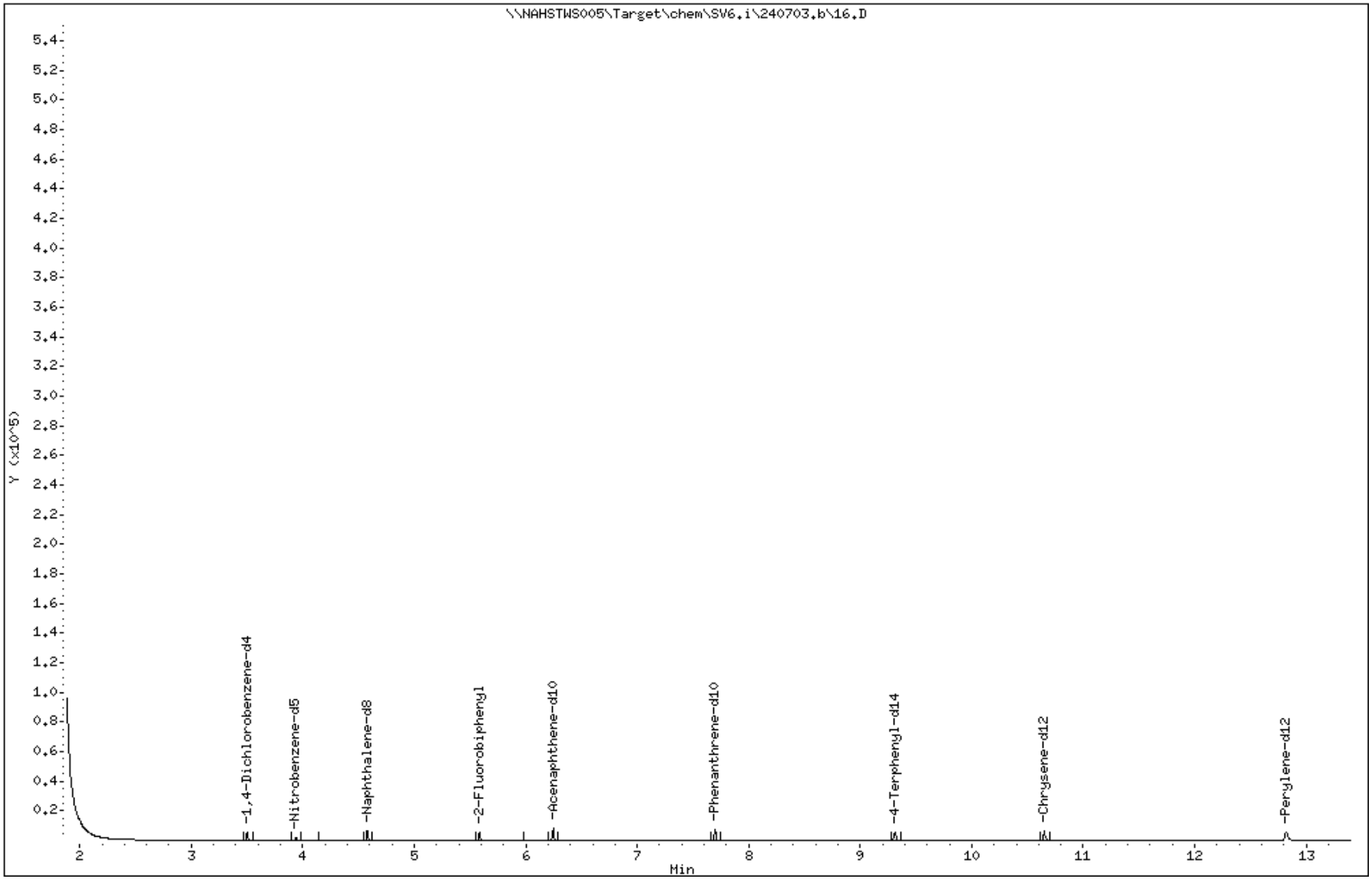
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



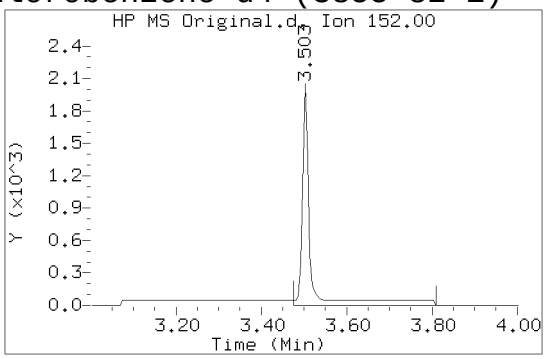
Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\16.D
Inj Date : 03-JUL-2024 15:52
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

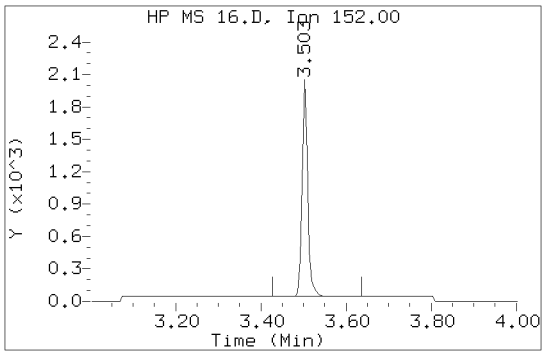
BEFORE

MASS
152
AREA
2753
HEIGHT
2052
03-Jul-2024
16:08
ALSHS
Server



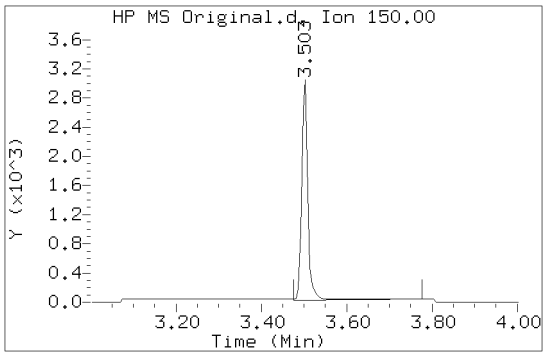
AFTER

MASS
152
AREA
1844
HEIGHT
2006
25-Jul-2024
16:21
ALSHS
S



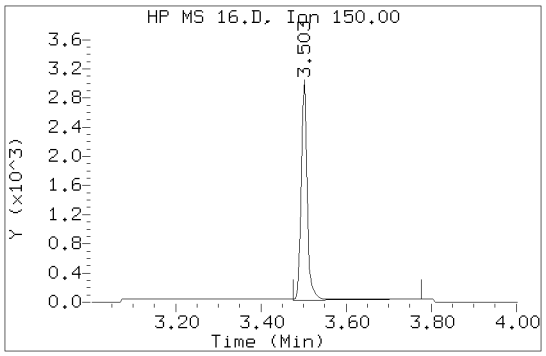
BEFORE

MASS
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AREA
3083
HEIGHT
3021
03-Jul-2024
16:08
ALSHS
Server



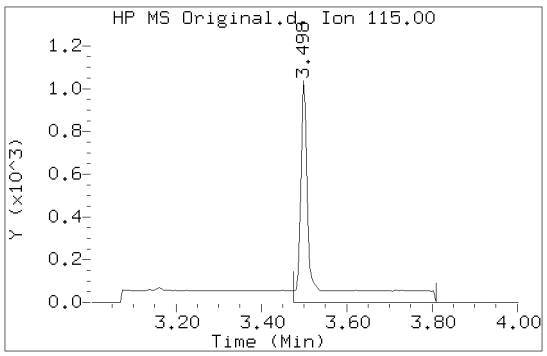
AFTER

MASS
150
AREA
3083
HEIGHT
3021
25-Jul-2024
16:21
ALSHS
S



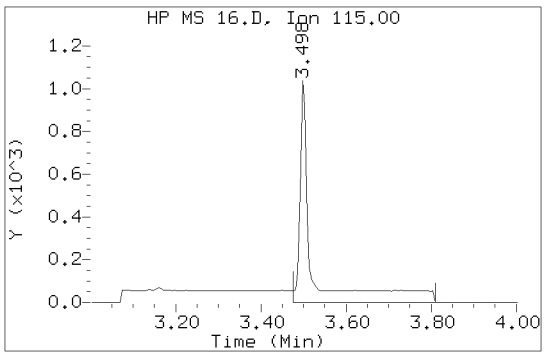
BEFORE

MASS
115
AREA
2033
HEIGHT
1037
03-Jul-2024
16:08
ALSHS
Server



AFTER

MASS
115
AREA
2033
HEIGHT
1037
25-Jul-2024
16:21
ALSHS
S

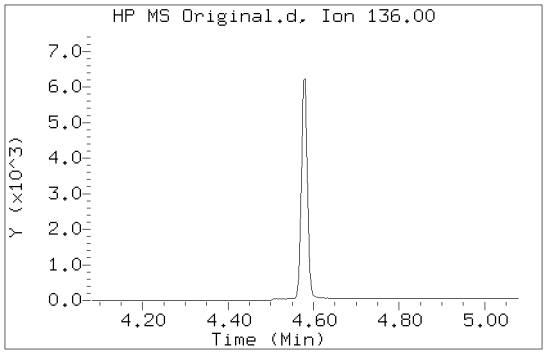


Naphthalene-d8 (1146-65-2)

Reason Code:

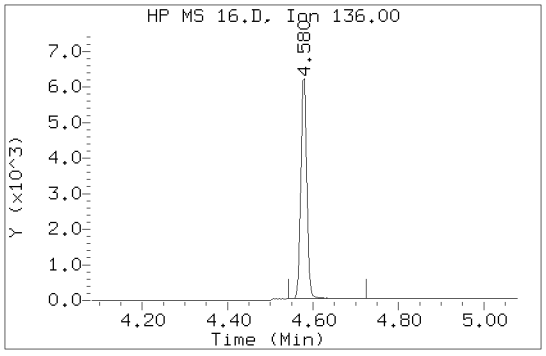
BEFORE

MASS
136
AREA
0
HEIGHT
0
03-Jul-2024
16:08
ALSHS
Server



AFTER

MASS
136
AREA
6013
HEIGHT
6187
25-Jul-2024
16:21
ALSHS
S



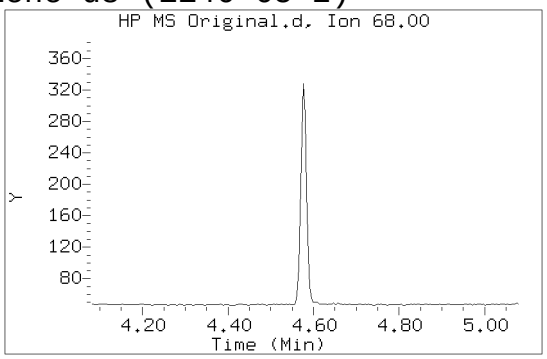
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Inj Date : 03-JUL-2024 15:52
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

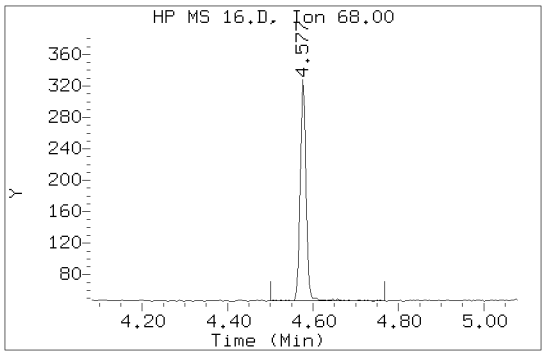
BEFORE

MASS
68
AREA
0
HEIGHT
0
03-Jul-2024
16:08
ALSHS
Server



AFTER

MASS
68
AREA
265
HEIGHT
281
25-Jul-2024
16:21
ALSHS
S

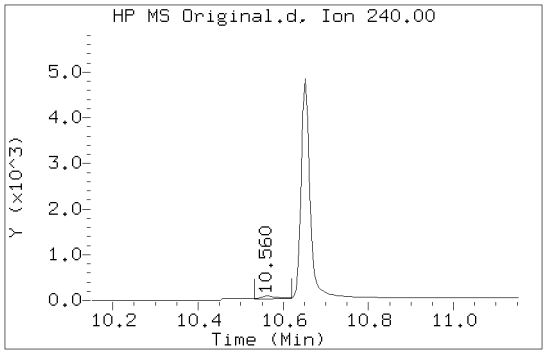


Chrysene-d12 (1719-03-5)

Reason Code:

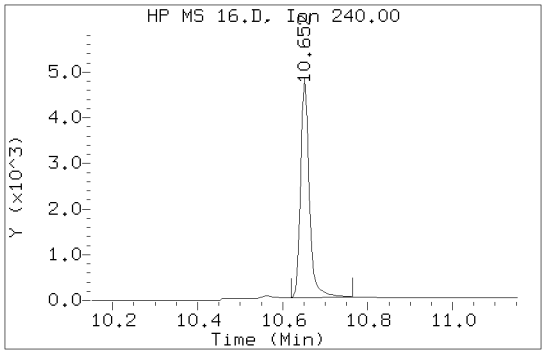
BEFORE

MASS
240
AREA
159
HEIGHT
68
03-Jul-2024
16:08
ALSHS
Server



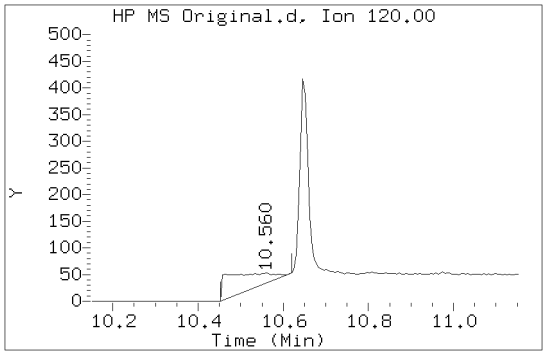
AFTER

MASS
240
AREA
6750
HEIGHT
4796
25-Jul-2024
16:21
ALSHS
S



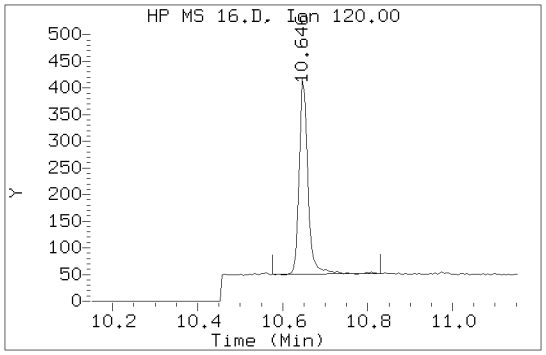
BEFORE

MASS
120
AREA
232
HEIGHT
18
03-Jul-2024
16:08
ALSHS
Server



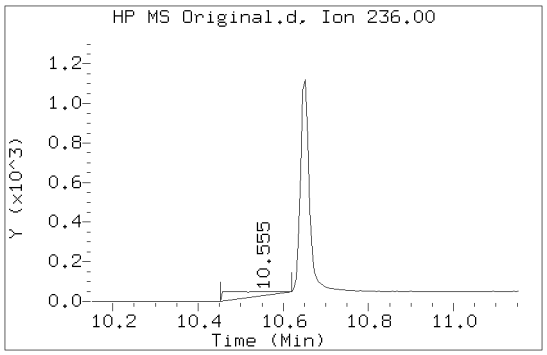
AFTER

MASS
120
AREA
513
HEIGHT
365
25-Jul-2024
16:21
ALSHS
S



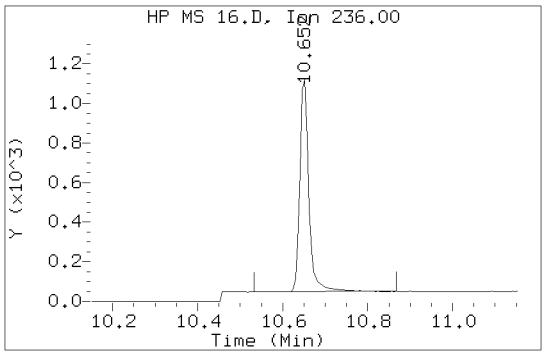
BEFORE

MASS
236
AREA
216
HEIGHT
19
03-Jul-2024
16:08
ALSHS
Server



AFTER

MASS
236
AREA
1568
HEIGHT
1071
25-Jul-2024
16:21
ALSHS
S

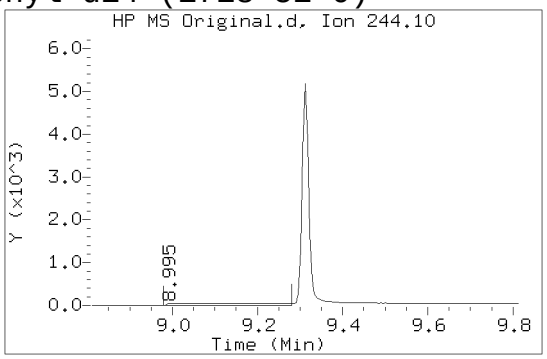


Data File : \\NAHSTWS005\Target\chem\SV6.i\240703.b\16.D
Inj Date : 03-JUL-2024 15:52
InstruID : SV6.i
LabSampID : 14DX-0.08

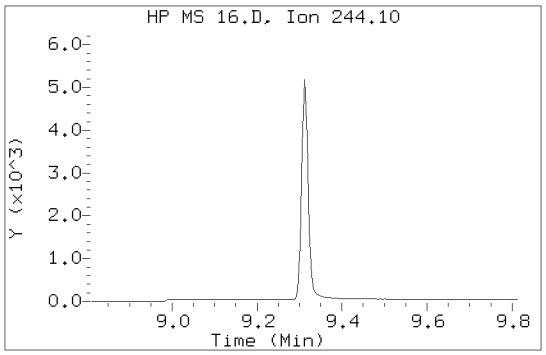
4-Terphenyl-d14 (1718-51-0)

Reason Code:

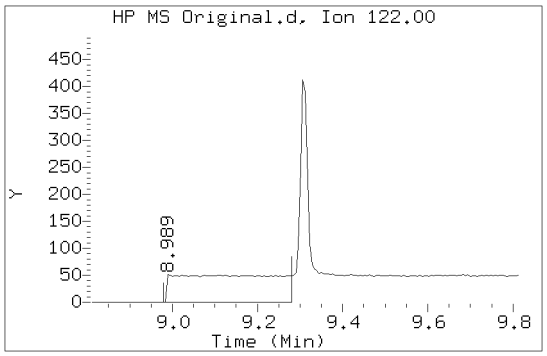
BEFORE
MASS
244.1
AREA
809
HEIGHT
46
03-Jul-2024
16:08
ALSHS
Server



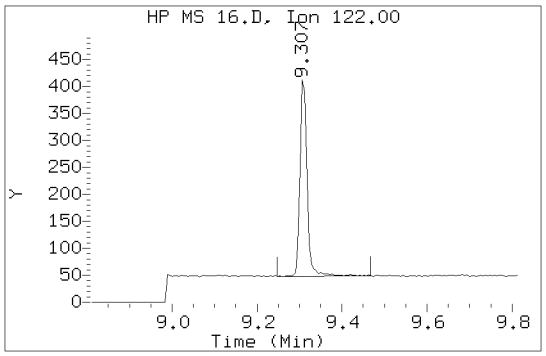
AFTER
MASS
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AREA
9275
HEIGHT
5179
25-Jul-2024
16:21
ALSHS
S



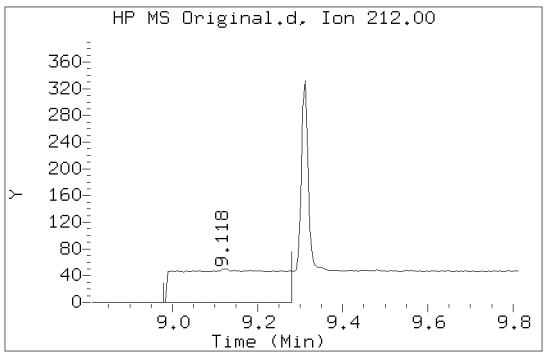
BEFORE
MASS
122
AREA
868
HEIGHT
51
03-Jul-2024
16:08
ALSHS
Server



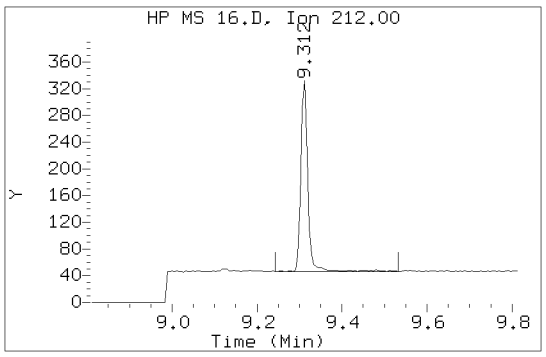
AFTER
MASS
122
AREA
420
HEIGHT
363
25-Jul-2024
16:21
ALSHS
S



BEFORE
MASS
212
AREA
829
HEIGHT
50
03-Jul-2024
16:08
ALSHS
Server



AFTER
MASS
212
AREA
328
HEIGHT
286
25-Jul-2024
16:21
ALSHS
S



01304618

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24061313

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

08/02/2024

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

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		
4.170	5.571	-1.401	198	262912			0.00- 100.00	71.46
4.170	6.357	-2.187	51	62088			10.00- 80.00	23.62
4.170	6.357	-2.187	68	1330			0.00- 2.00	1.76
4.170	6.357	-2.187	69	75608			0.00- 0.00	28.76
4.170	6.357	-2.187	70	408			0.00- 2.00	0.54
4.170	6.357	-2.187	127	104440			10.00- 80.00	39.72
4.170	6.357	-2.187	197	996			0.00- 2.00	0.38
4.170	6.357	-2.187	199	17632			5.00- 9.00	6.71
4.170	6.357	-2.187	275	79880			10.00- 60.00	30.38
4.170	6.357	-2.187	365	10437			1.00- 100.00	3.97
4.170	6.357	-2.187	441	53968			0.01- 99.99	74.32
4.170	6.357	-2.187	442	367904			50.00- 150.00	139.93
4.170	6.357	-2.187	443	72612			15.00- 24.00	19.74

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588

93.00 10069	174.00 2141	257.00 1983	372.00 4617
94.00 680	175.00 4519	258.00 8939	373.00 1106
95.00 92	176.00 1409	259.00 1582	383.00 1150
96.00 425	177.00 2174	260.00 250	384.00 378
97.00 199	178.00 726	261.00 243	385.00 83
98.00 7421	179.00 8742	264.00 295	390.00 634
99.00 5189	180.00 5928	265.00 3703	391.00 442
100.00 450	181.00 2765	266.00 604	392.00 339
101.00 3694	182.00 411	270.00 214	401.00 178
102.00 194	183.00 299	271.00 344	402.00 1827
103.00 1310	184.00 735	272.00 599	403.00 2559
104.00 2350	185.00 4557	273.00 5441	404.00 850
105.00 2071	186.00 34080	274.00 13783	405.00 78
106.00 852	187.00 9952	275.00 79880	415.00 111
107.00 28048	188.00 866	276.00 10609	421.00 2499
108.00 4375	189.00 2159	277.00 6056	422.00 2422
109.00 546	190.00 335	278.00 997	423.00 17496
110.00 51232	191.00 1054	279.00 109	424.00 3958
111.00 8170	192.00 2816	281.00 100	425.00 349
112.00 914	193.00 3142	282.00 278	435.00 169
113.00 342	194.00 666	283.00 828	436.00 426
116.00 1637	195.00 610	284.00 410	437.00 287
117.00 21584	196.00 8042	285.00 1021	438.00 177
118.00 1450	197.00 996	286.00 242	439.00 927
119.00 133	198.00 262912	289.00 253	441.00 53968
120.00 336	199.00 17632	290.00 222	442.00 367872
121.00 78	200.00 1329	291.00 150	443.00 72608
122.00 1884	201.00 1426	292.00 373	444.00 7175
123.00 3095	203.00 1983	293.00 1312	445.00 468
124.00 1181	204.00 9352	294.00 366	
125.00 1276	205.00 16075	296.00 20920	
127.00 104440	206.00 67752	297.00 2863	
128.00 7946	207.00 8670	298.00 101	

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

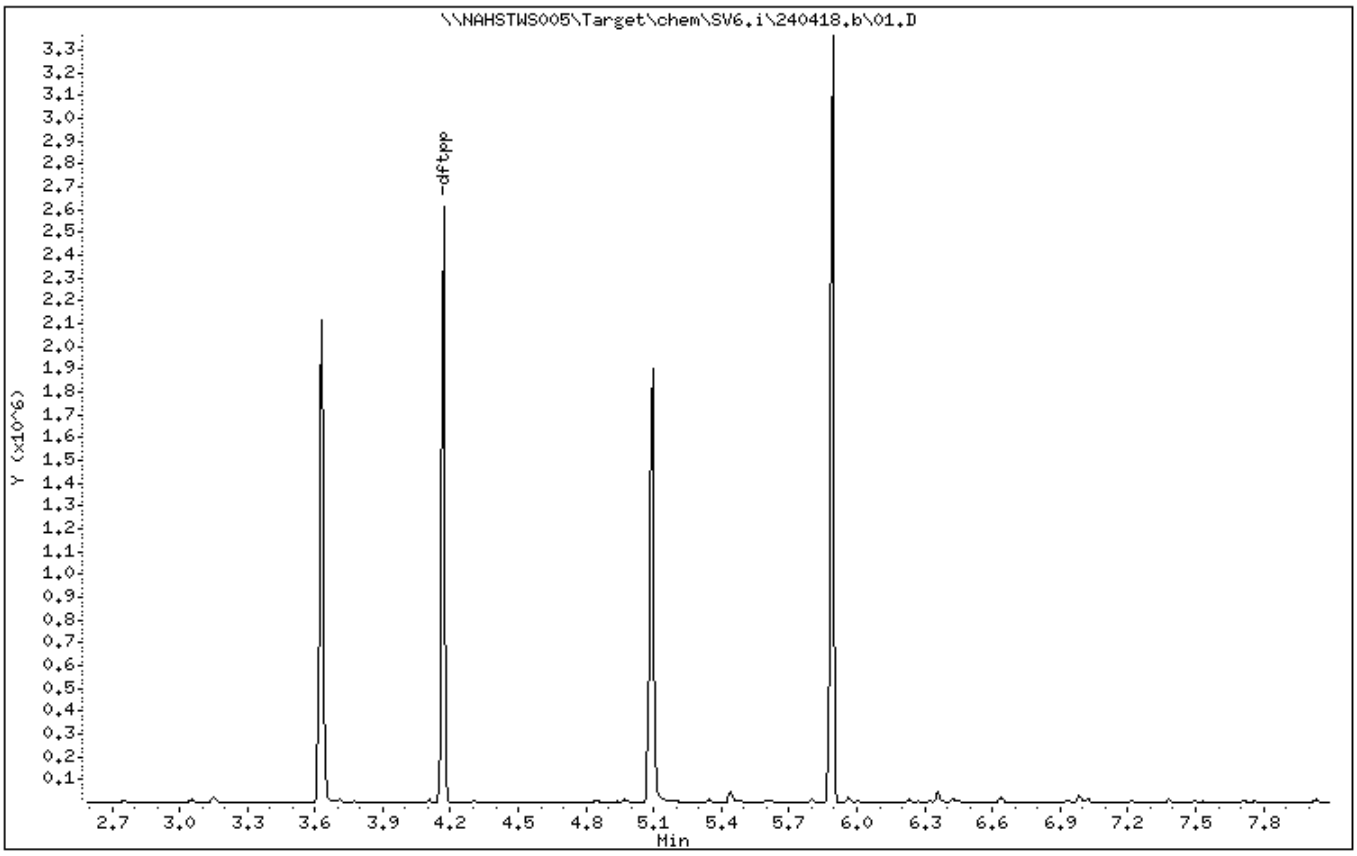
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



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Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

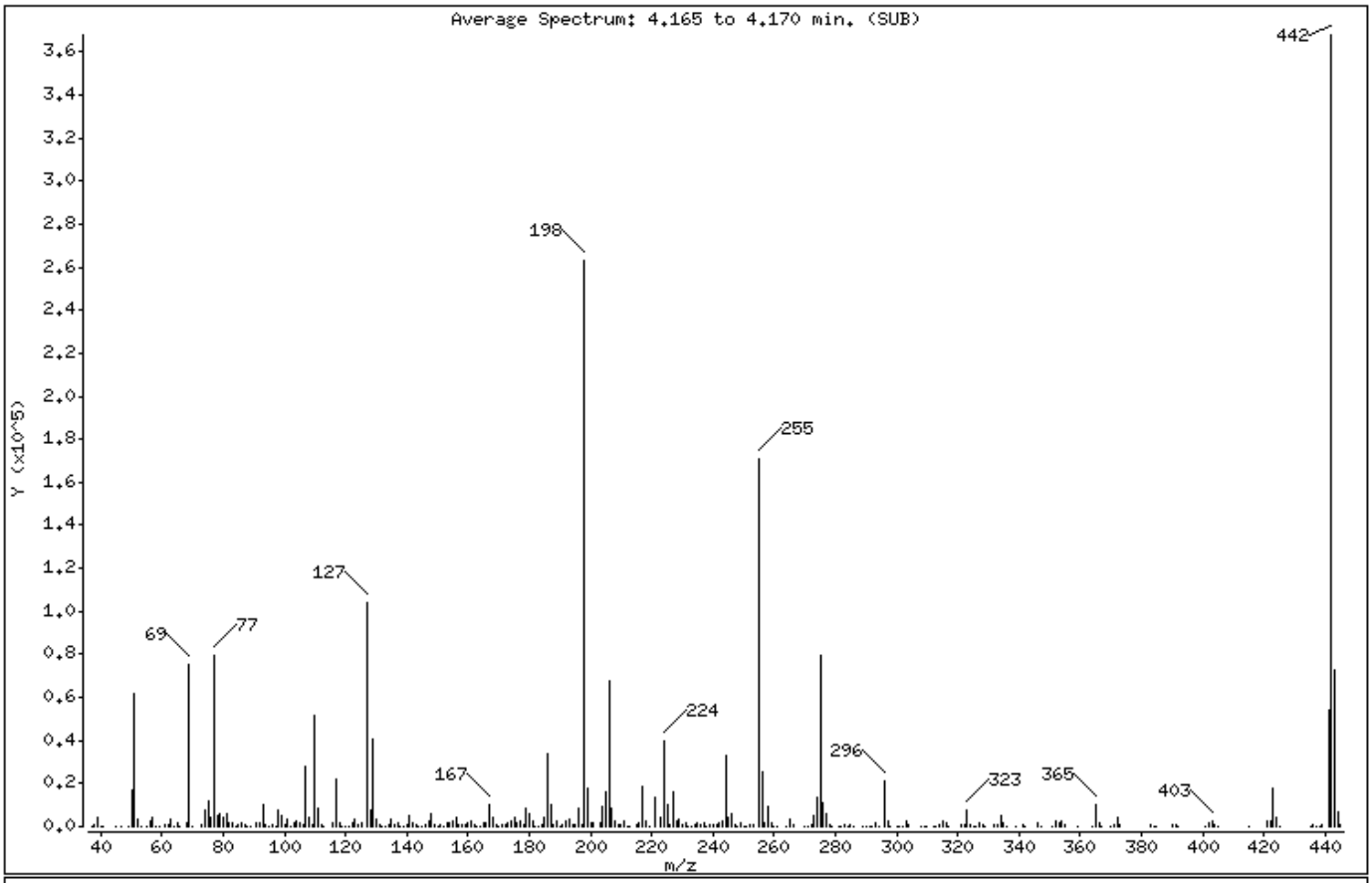
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
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70	Less than 2.00% of mass 69	0.16 (0.54)
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197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

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Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588
93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File : \\nahstws005\target\chem\sv6.i\240418.b\01.d
Inj Date : 18-APR-2024 10:39
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 18-APR-2024 12:24
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:24 Cal File: 03A.D
Als bottle: 3 Calibration Sample, Level: 4
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3251	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	10577	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	2161	0.08000	0.06806(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6678	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	6691	0.08000	0.06554(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	13232	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	12125	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	14251	0.08000	0.05769(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	11098	0.10000	(M)
1 1,4-Dioxane	58	0.834	0.820	(0.400)	503	0.08000	0.07223(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.

01304630

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D

Date : 18-APR-2024 12:24

Client ID: 14DX-0.08

Instrument: SV6.i

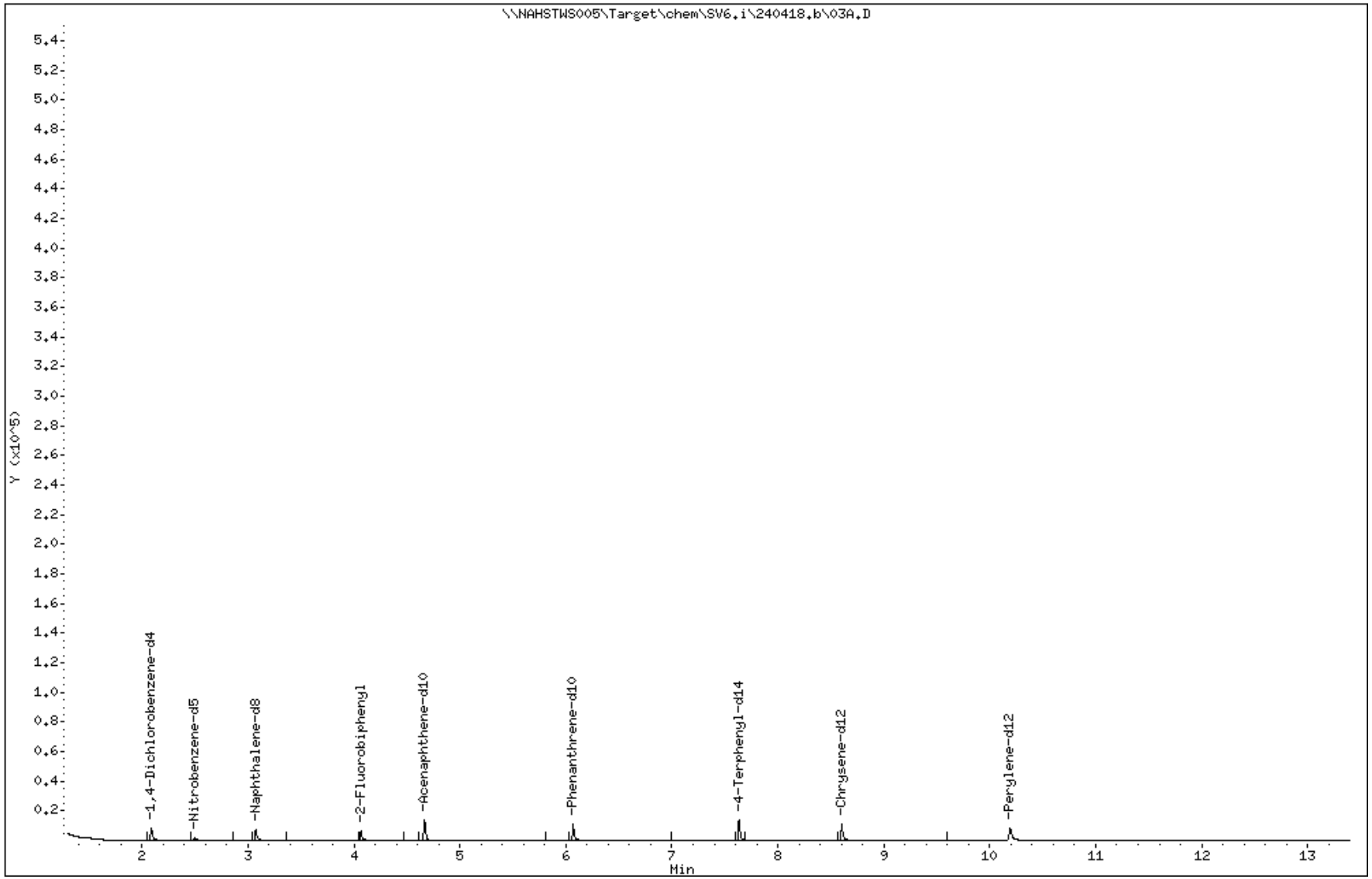
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

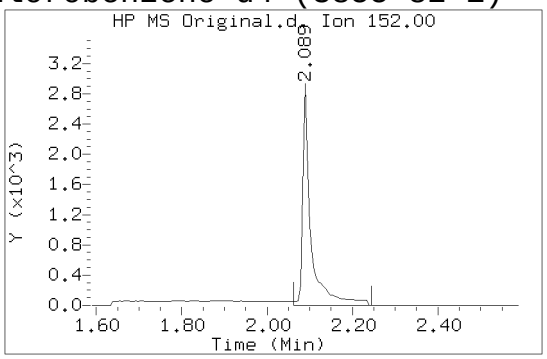


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

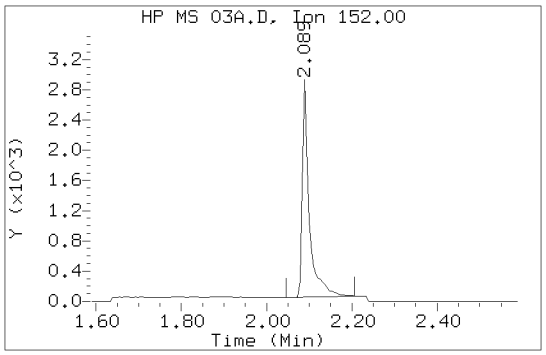
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

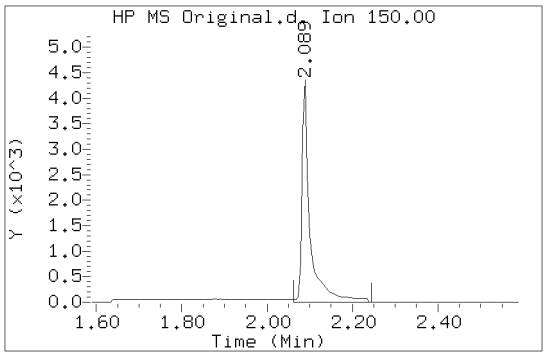
BEFORE
MASS
152
AREA
3915
HEIGHT
2934
18-Apr-2024
12:42
ALSHS
Server



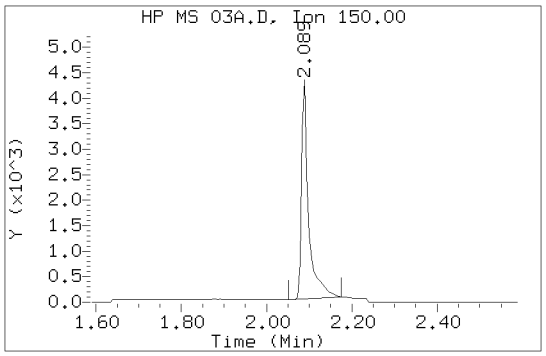
AFTER
MASS
152
AREA
3251
HEIGHT
2876
28-May-2024
13:05



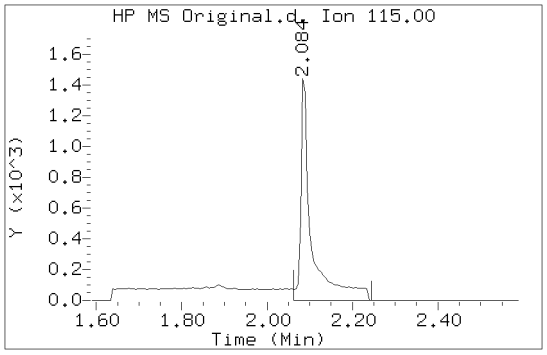
BEFORE
MASS
150
AREA
5788
HEIGHT
4359
18-Apr-2024
12:42
ALSHS
Server



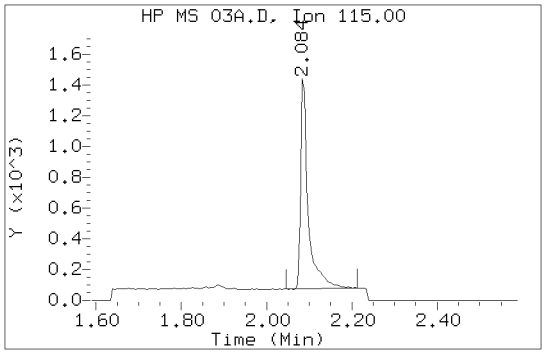
AFTER
MASS
150
AREA
4924
HEIGHT
4290
28-May-2024
13:05



BEFORE
MASS
115
AREA
2519
HEIGHT
1442
18-Apr-2024
12:42
ALSHS
Server



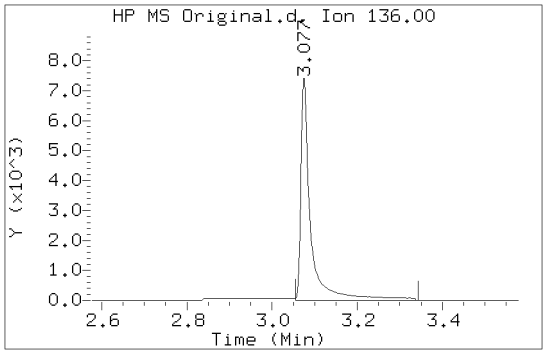
AFTER
MASS
115
AREA
1685
HEIGHT
1365
28-May-2024
13:05



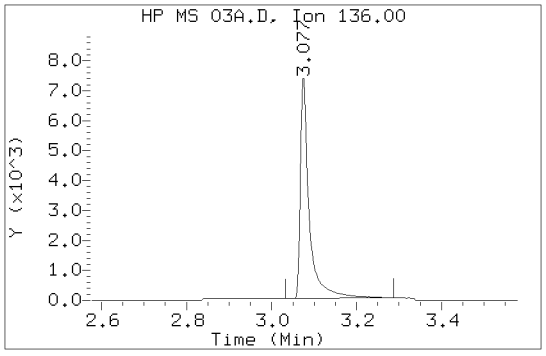
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11842
HEIGHT
7402
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
136
AREA
10577
HEIGHT
7340
28-May-2024
13:05



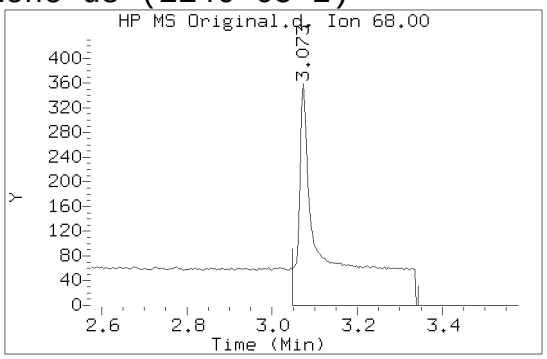
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

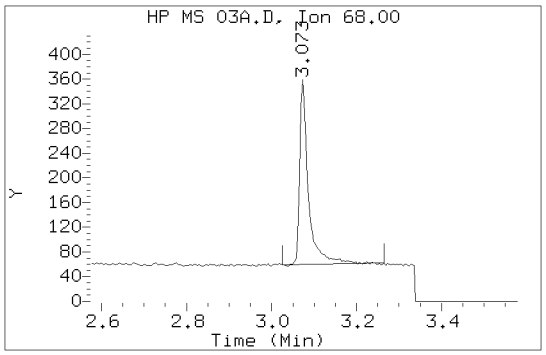
BEFORE

MASS
68
AREA
1473
HEIGHT
359
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
68
AREA
417
HEIGHT
299
28-May-2024
13:05

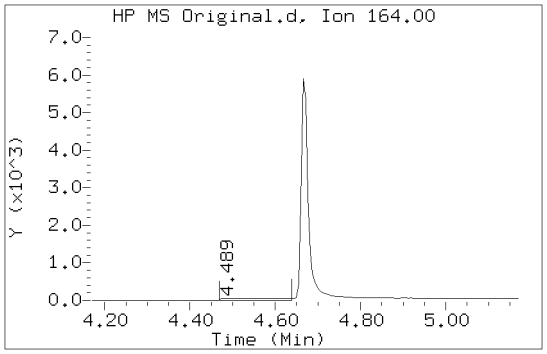


Acenaphthene-d10 (15067-26-2)

Reason Code:

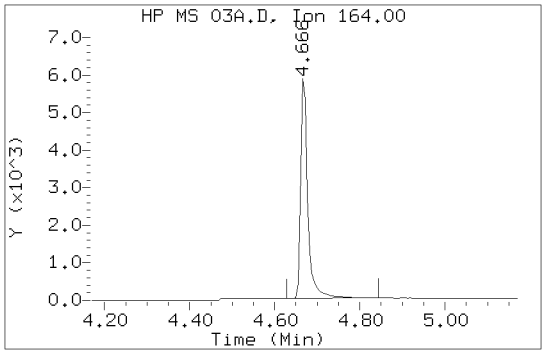
BEFORE

MASS
164
AREA
527
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



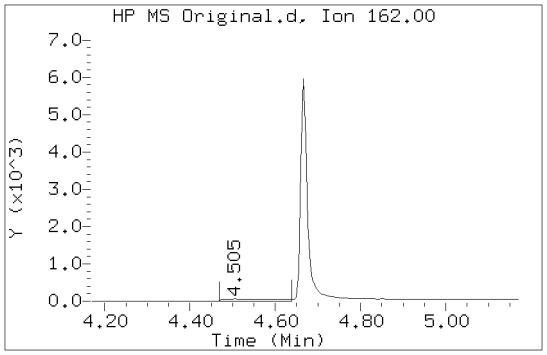
AFTER

MASS
164
AREA
6678
HEIGHT
5851
28-May-2024
13:05



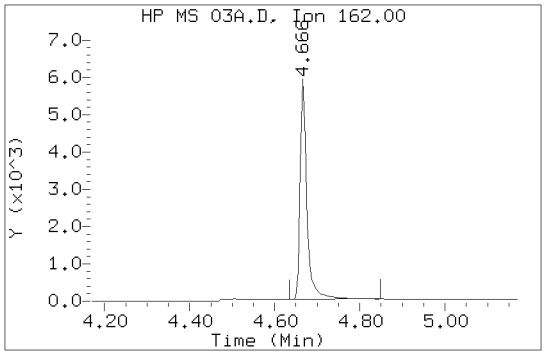
BEFORE

MASS
162
AREA
540
HEIGHT
61
18-Apr-2024
12:42
ALSHS
Server



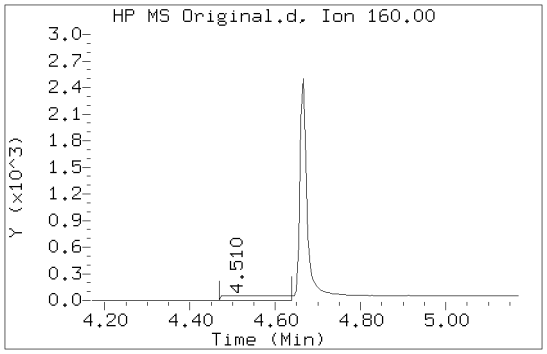
AFTER

MASS
162
AREA
6371
HEIGHT
5906
28-May-2024
13:05



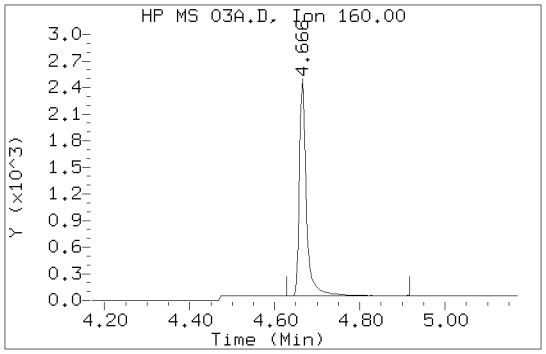
BEFORE

MASS
160
AREA
507
HEIGHT
51
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
160
AREA
2763
HEIGHT
2449
28-May-2024
13:05



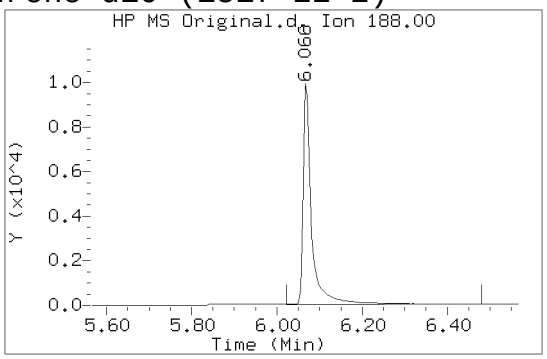
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

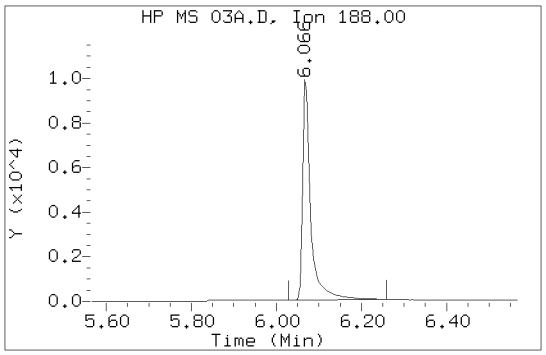
BEFORE

MASS
188
AREA
14212
HEIGHT
9923
18-Apr-2024
12:42
ALSHS
Server



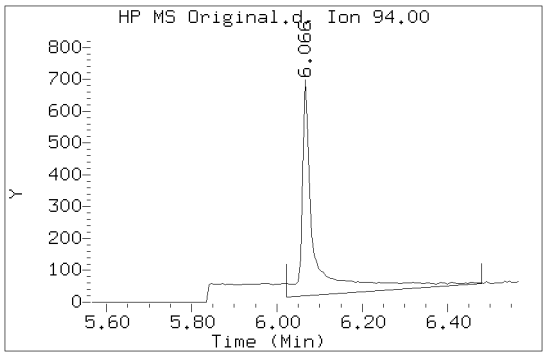
AFTER

MASS
188
AREA
13232
HEIGHT
9886
28-May-2024
13:05



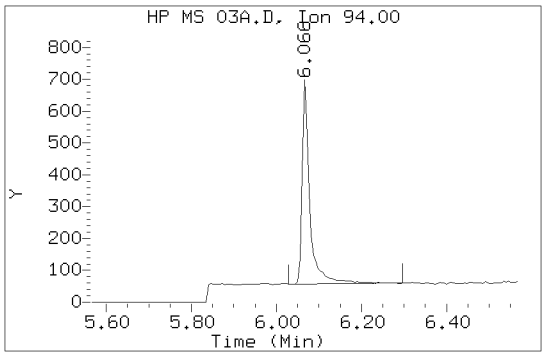
BEFORE

MASS
94
AREA
1408
HEIGHT
677
18-Apr-2024
12:42
ALSHS
Server



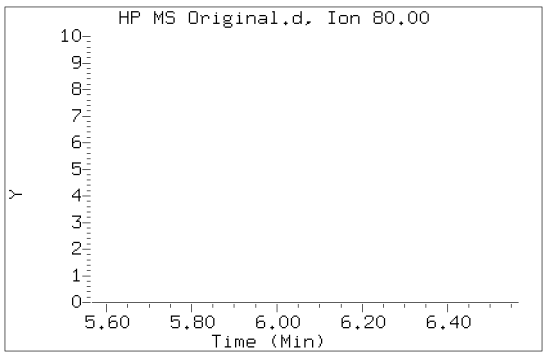
AFTER

MASS
94
AREA
802
HEIGHT
640
28-May-2024
13:05



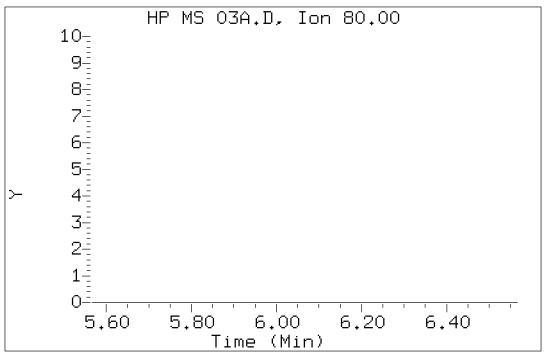
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

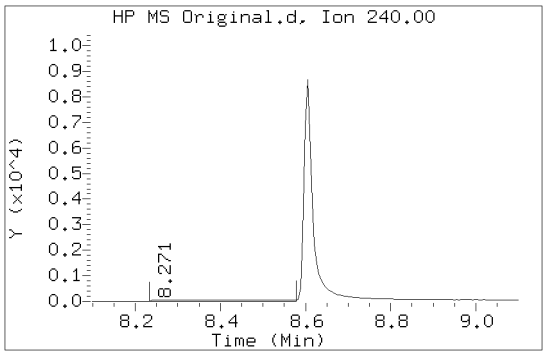


Chrysene-d12 (1719-03-5)

Reason Code:

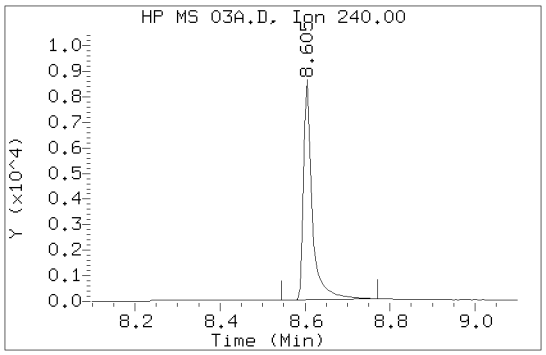
BEFORE

MASS
240
AREA
1046
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
240
AREA
12125
HEIGHT
8606
28-May-2024
13:05

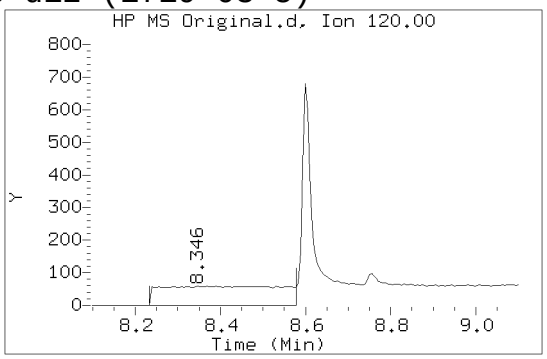


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

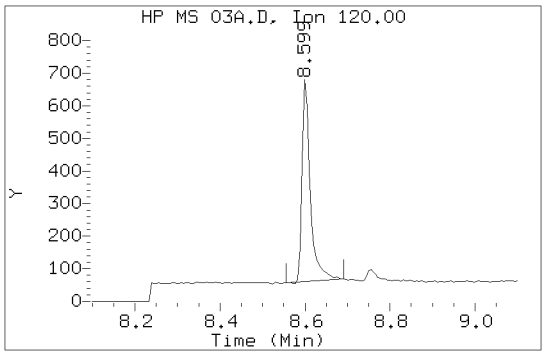
Chrysene-d12 (1719-03-5)

Reason Code:

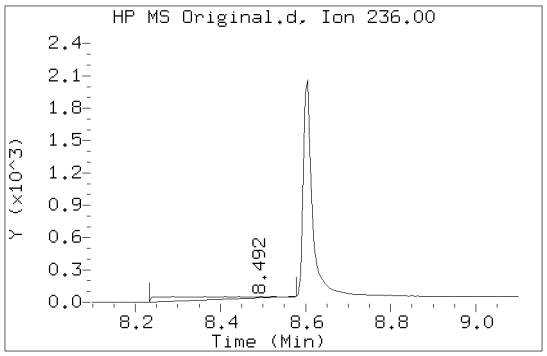
BEFORE
MASS
120
AREA
1175
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



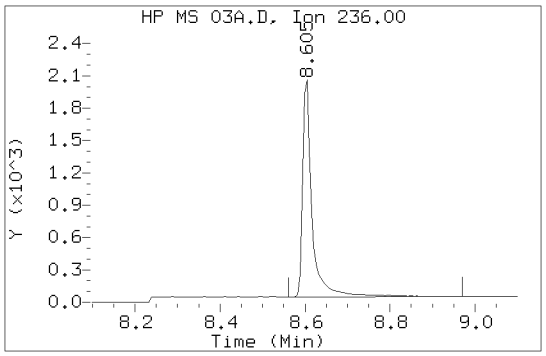
AFTER
MASS
120
AREA
821
HEIGHT
619
28-May-2024
13:05



BEFORE
MASS
236
AREA
485
HEIGHT
13
18-Apr-2024
12:42
ALSHS
Server



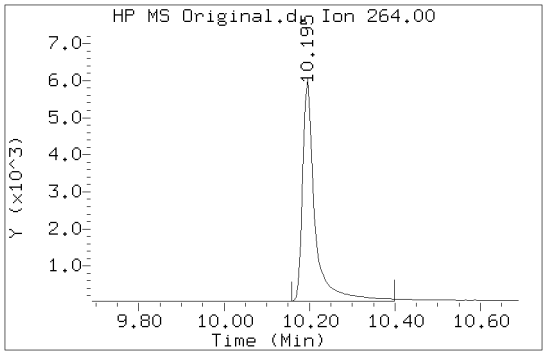
AFTER
MASS
236
AREA
3066
HEIGHT
2012
28-May-2024
13:05



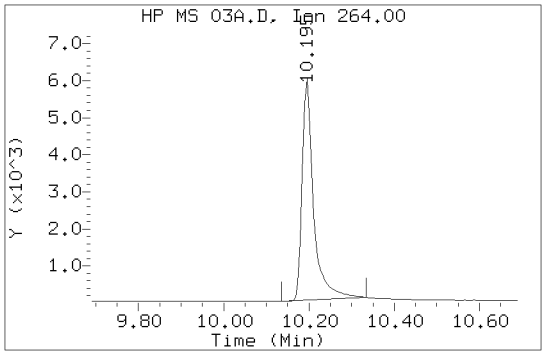
Perylene-d12 (1520-96-3)

Reason Code:

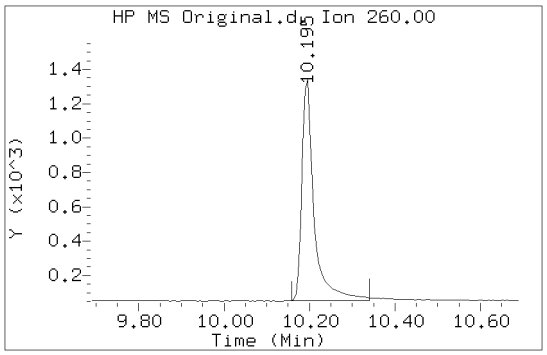
BEFORE
MASS
264
AREA
11914
HEIGHT
5992
18-Apr-2024
12:42
ALSHS
Server



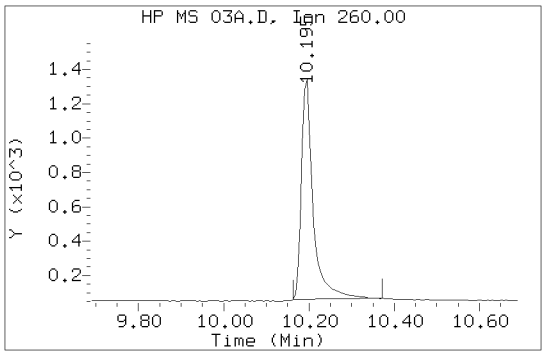
AFTER
MASS
264
AREA
11098
HEIGHT
5966
28-May-2024
13:05



BEFORE
MASS
260
AREA
2543
HEIGHT
1286
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
260
AREA
2442
HEIGHT
1278
28-May-2024
13:05



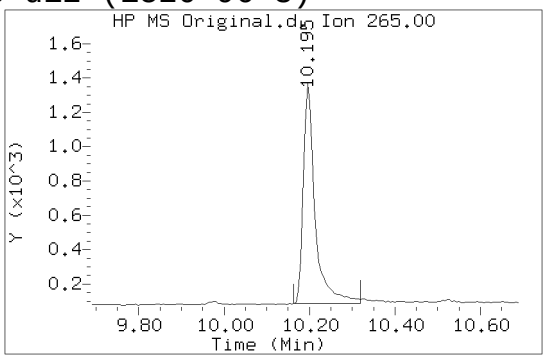
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

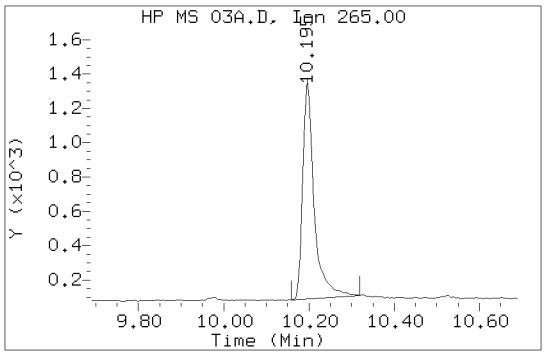
BEFORE

MASS
265
AREA
2459
HEIGHT
1281
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
265
AREA
2359
HEIGHT
1277
28-May-2024
13:05

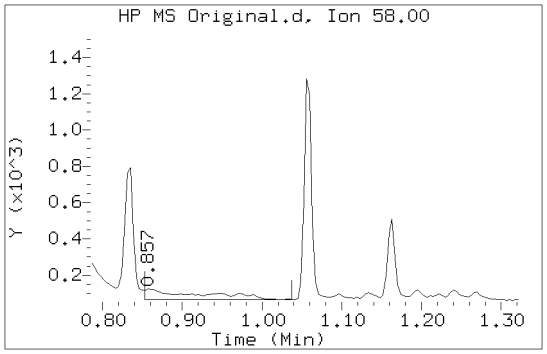


1,4-Dioxane ()

Reason Code:

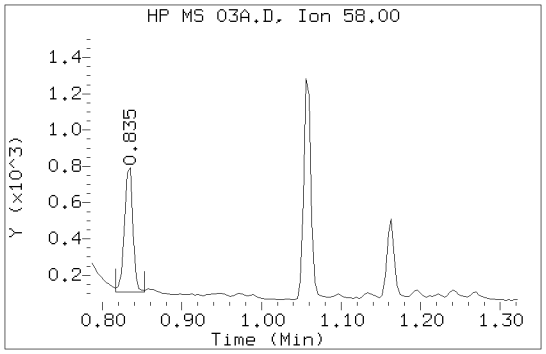
BEFORE

MASS
58
AREA
288
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



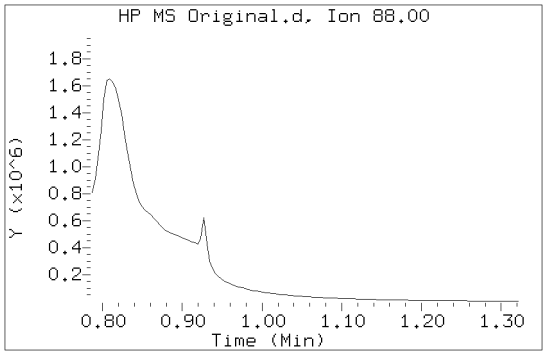
AFTER

MASS
58
AREA
503
HEIGHT
686
28-May-2024
13:05



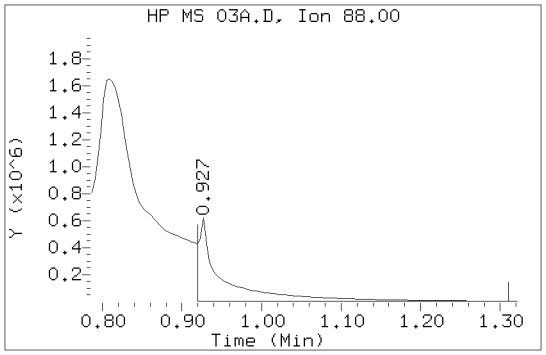
BEFORE

MASS
88
AREA
1284716
HEIGHT
617517
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
88
AREA
1274387
HEIGHT
617087
28-May-2024
13:05

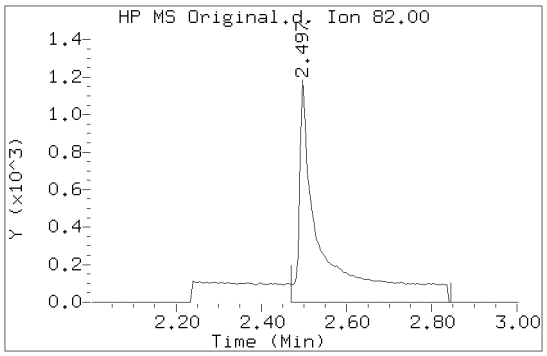


Nitrobenzene-d5 (4165-60-0)

Reason Code:

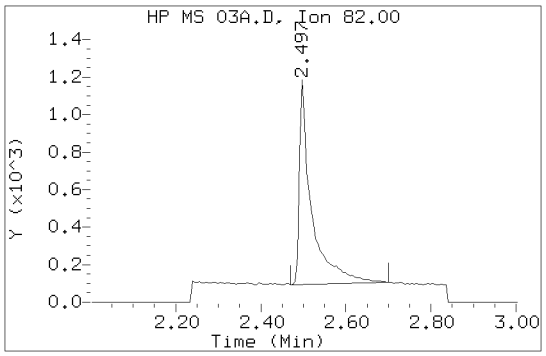
BEFORE

MASS
82
AREA
4330
HEIGHT
1185
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
82
AREA
2161
HEIGHT
1090
28-May-2024
13:05

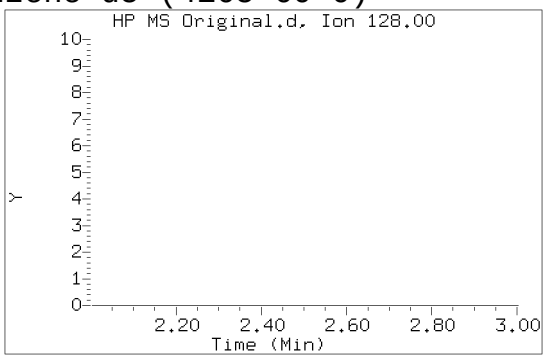


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

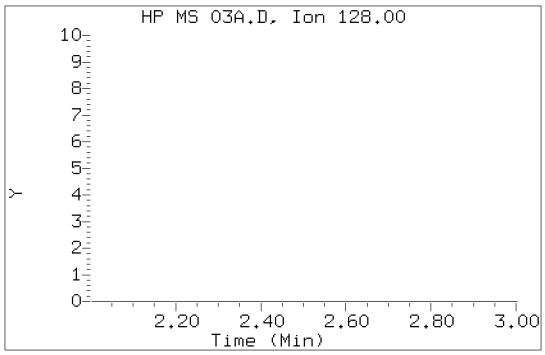
Nitrobenzene-d5 (4165-60-0)

Reason Code:

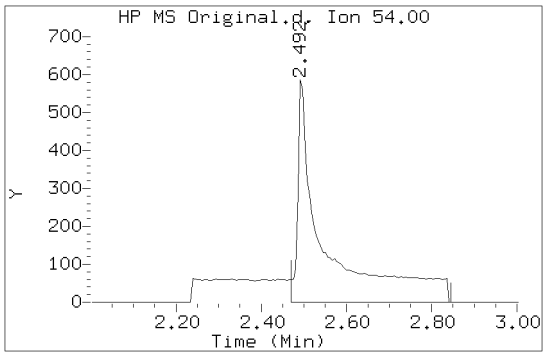
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



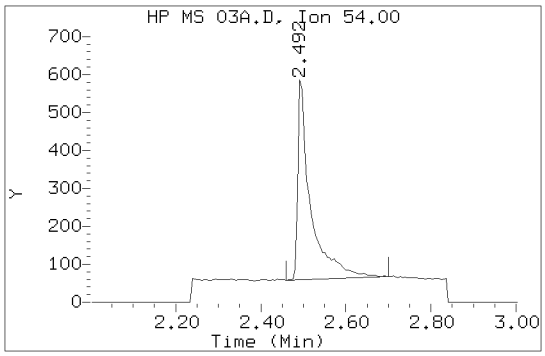
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
2489
HEIGHT
586
18-Apr-2024
12:42
ALSHS
Server



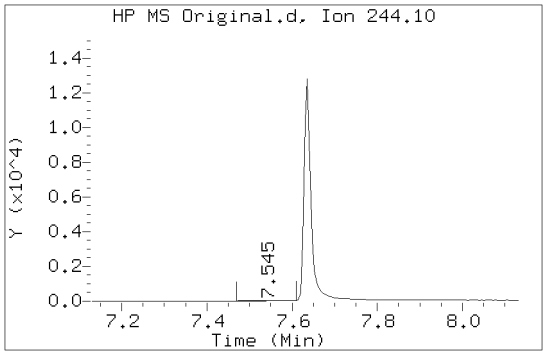
AFTER
MASS
54
AREA
1100
HEIGHT
526
28-May-2024
13:05



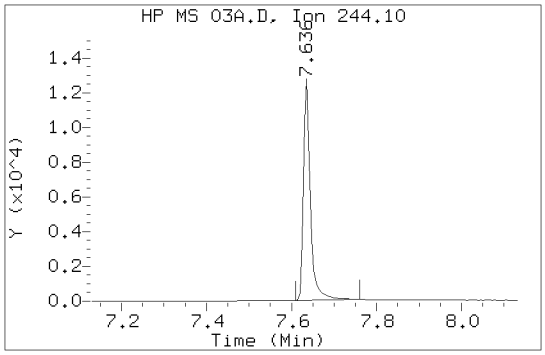
4-Terphenyl-d14 (1718-51-0)

Reason Code:

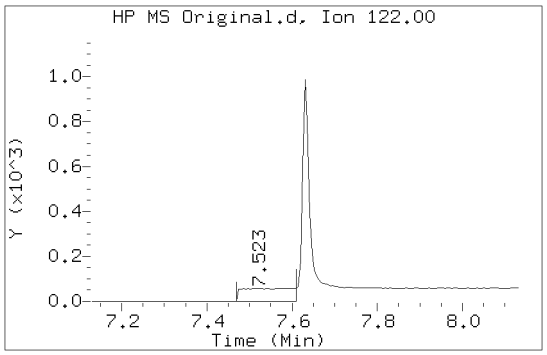
BEFORE
MASS
244.1
AREA
193
HEIGHT
23
18-Apr-2024
12:42
ALSHS
Server



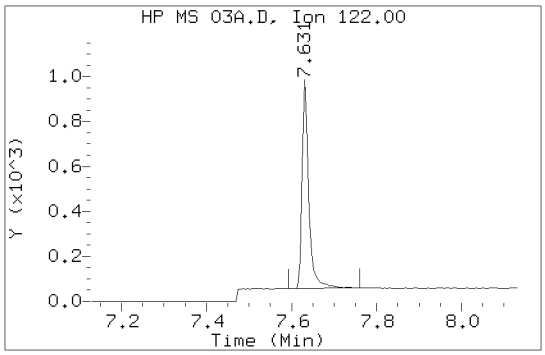
AFTER
MASS
244.1
AREA
14251
HEIGHT
12746
28-May-2024
13:05



BEFORE
MASS
122
AREA
473
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
122
AREA
1008
HEIGHT
928
28-May-2024
13:05



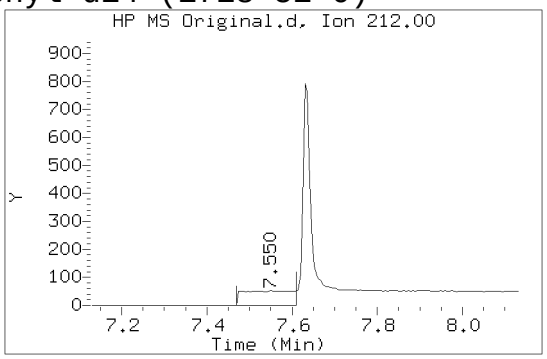
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

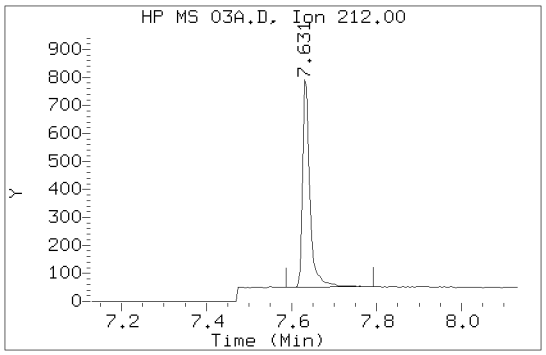
BEFORE

MASS
212
AREA
422
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
212
AREA
890
HEIGHT
741
28-May-2024
13:05

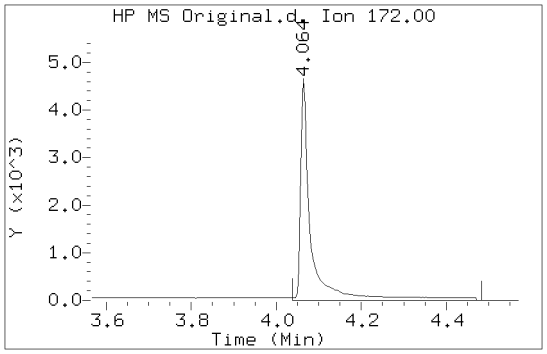


2-Fluorobiphenyl (321-60-8)

Reason Code:

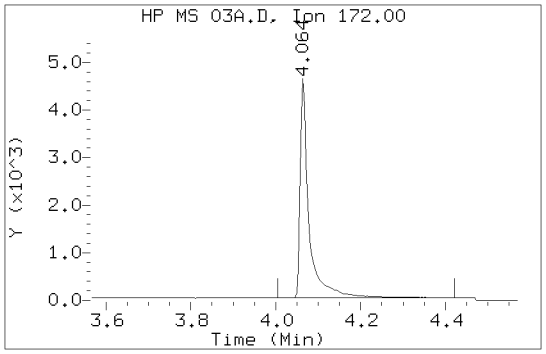
BEFORE

MASS
172
AREA
8151
HEIGHT
4659
18-Apr-2024
12:42
ALSHS
Server



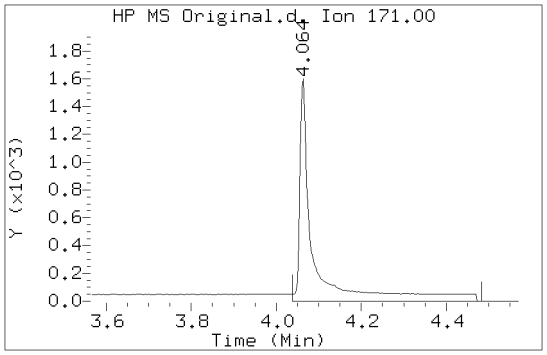
AFTER

MASS
172
AREA
6691
HEIGHT
4608
28-May-2024
13:05



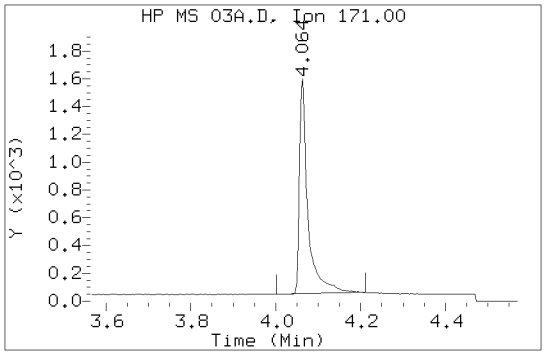
BEFORE

MASS
171
AREA
3618
HEIGHT
1599
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
171
AREA
2124
HEIGHT
1543
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Lab Smp Id: 14DX-0.01
Inj Date : 18-APR-2024 12:49
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:49 Cal File: 04.D
Als bottle: 4 Calibration Sample, Level: 1
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	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3248	0.10000	(aM)
* 45 Naphthalene-d8	136	3.073	3.076	(1.000)	10308	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.813)	262	0.01000	0.008466(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6420	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	1018	0.01000	0.01037(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	12867	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	11333	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	2521	0.01000	0.01092(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	12071	0.10000	(M)
1 1,4-Dioxane	58	0.838	0.820	(0.401)	87	0.01000	0.01250(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.

01304639

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D

Date : 18-APR-2024 12:49

Client ID:

Instrument: SV6.i

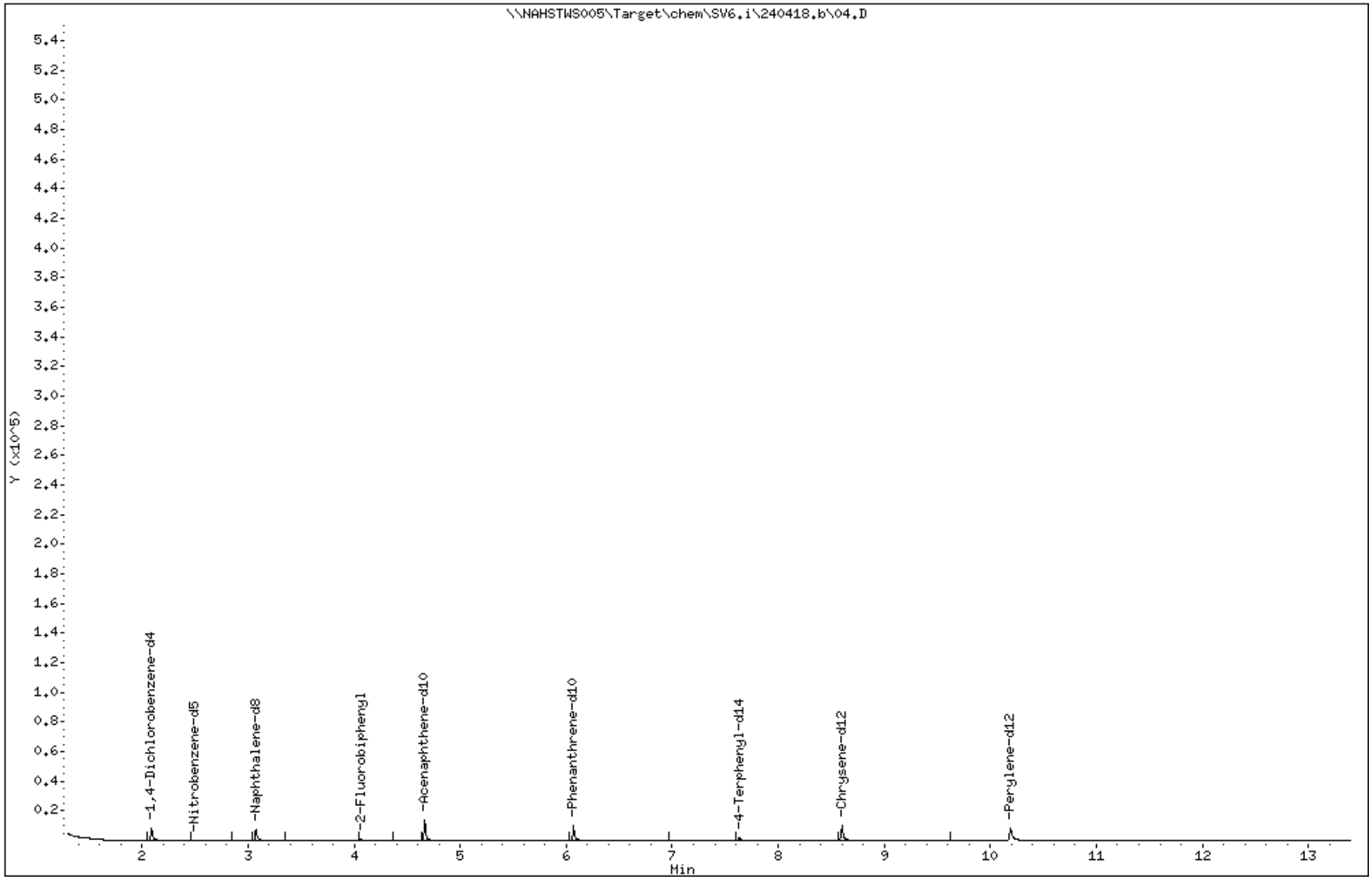
Sample Info: 14DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

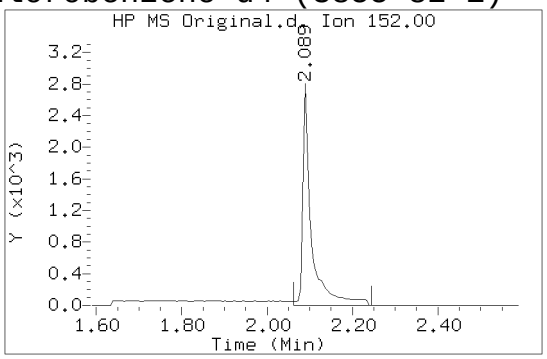


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

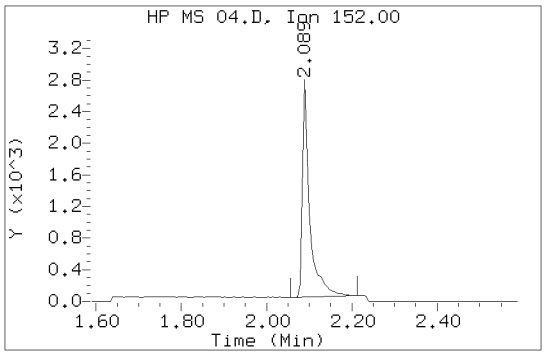
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

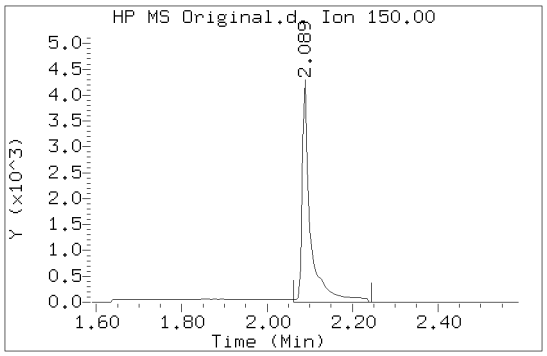
BEFORE
MASS
152
AREA
3912
HEIGHT
2804
18-Apr-2024
13:10
ALSHS
Server



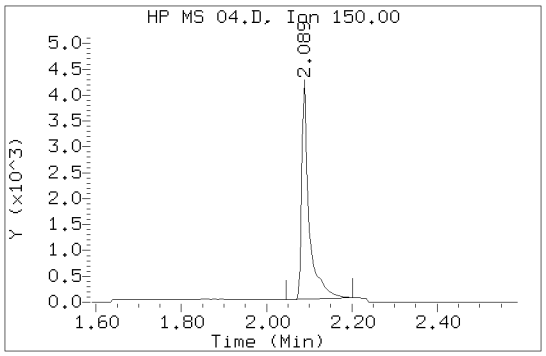
AFTER
MASS
152
AREA
3248
HEIGHT
2748
28-May-2024
13:05



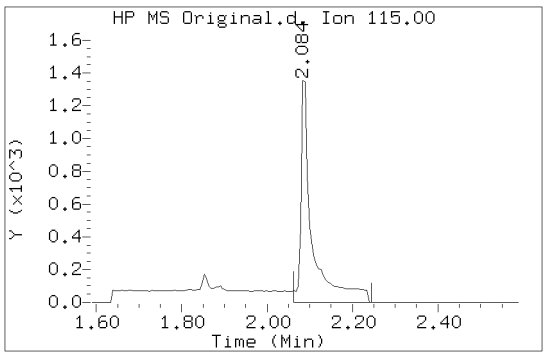
BEFORE
MASS
150
AREA
5830
HEIGHT
4294
18-Apr-2024
13:10
ALSHS
Server



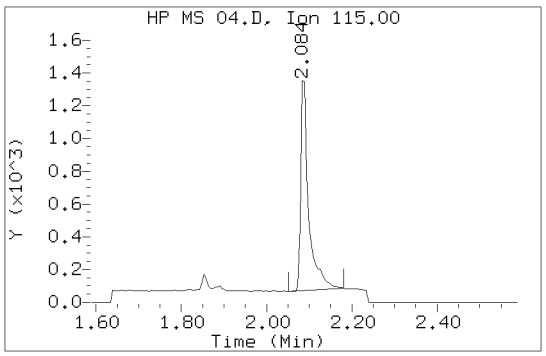
AFTER
MASS
150
AREA
5043
HEIGHT
4231
28-May-2024
13:05



BEFORE
MASS
115
AREA
2502
HEIGHT
1353
18-Apr-2024
13:10
ALSHS
Server



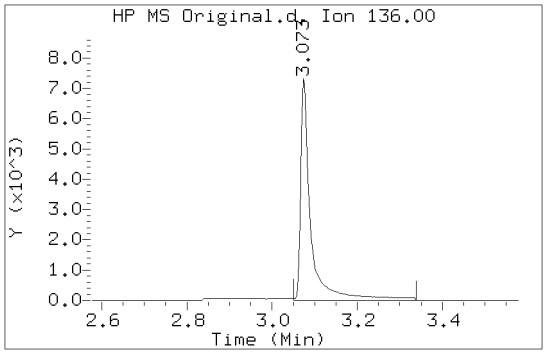
AFTER
MASS
115
AREA
1663
HEIGHT
1280
28-May-2024
13:05



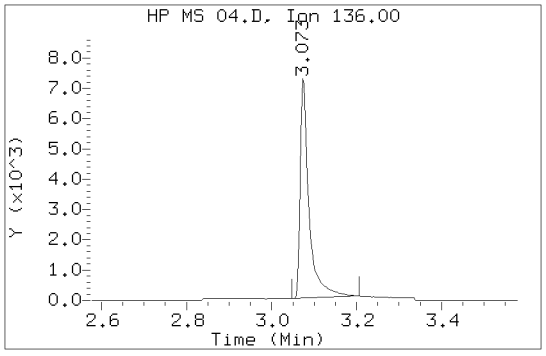
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
12033
HEIGHT
7318
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
136
AREA
10308
HEIGHT
7248
28-May-2024
13:05



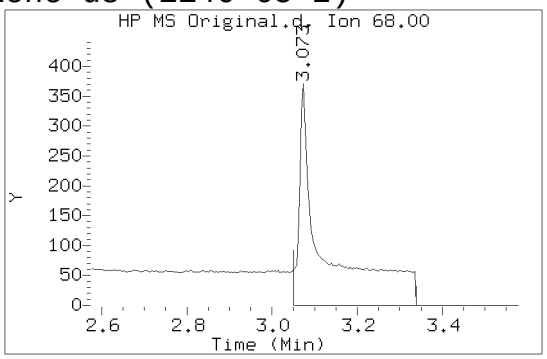
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Naphthalene-d8 (1146-65-2)

Reason Code:

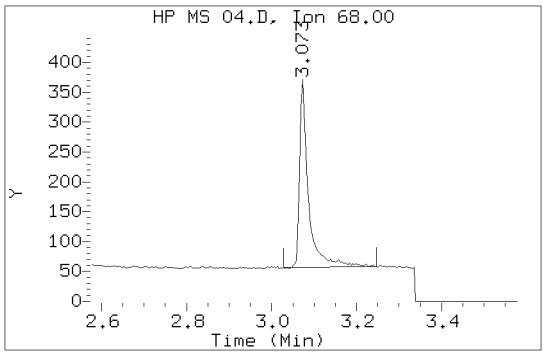
BEFORE

MASS
68
AREA
1444
HEIGHT
371
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
68
AREA
448
HEIGHT
313
28-May-2024
13:05

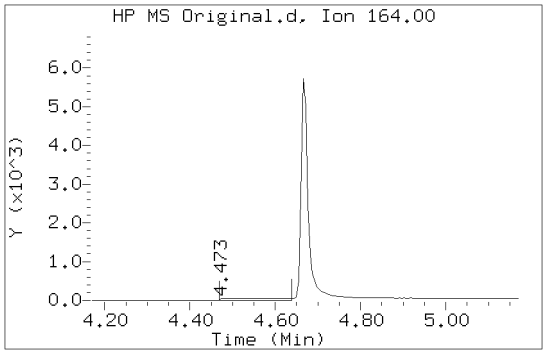


Acenaphthene-d10 (15067-26-2)

Reason Code:

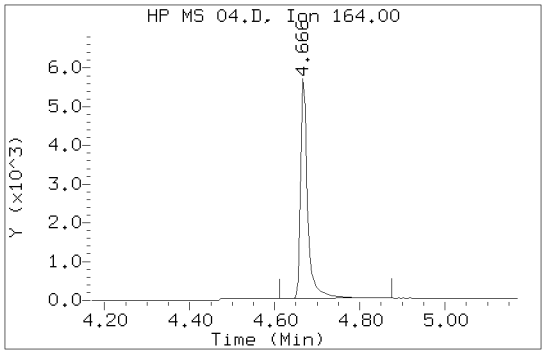
BEFORE

MASS
164
AREA
515
HEIGHT
52
18-Apr-2024
13:10
ALSHS
Server



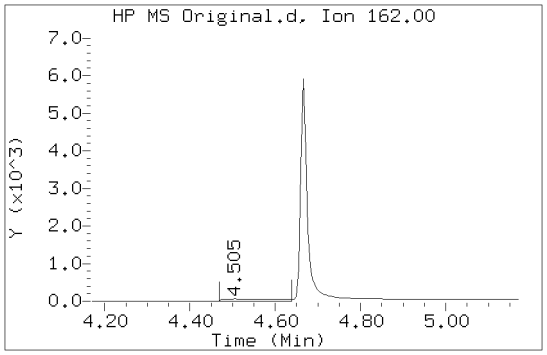
AFTER

MASS
164
AREA
6420
HEIGHT
5670
28-May-2024
13:05



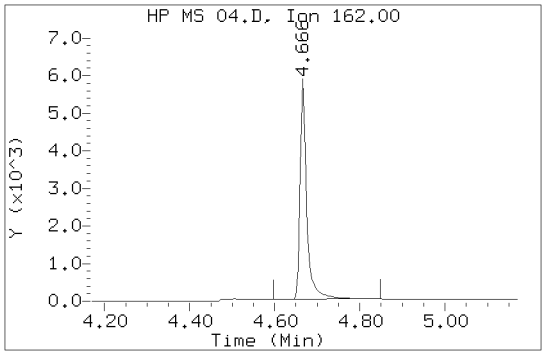
BEFORE

MASS
162
AREA
528
HEIGHT
60
18-Apr-2024
13:10
ALSHS
Server



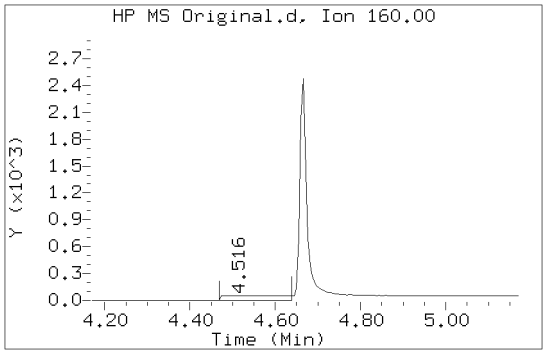
AFTER

MASS
162
AREA
6187
HEIGHT
5861
28-May-2024
13:05



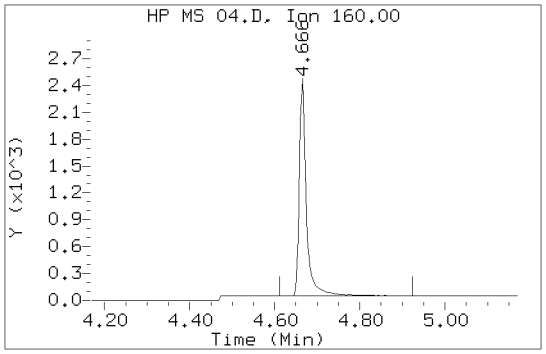
BEFORE

MASS
160
AREA
499
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
160
AREA
2756
HEIGHT
2428
28-May-2024
13:05



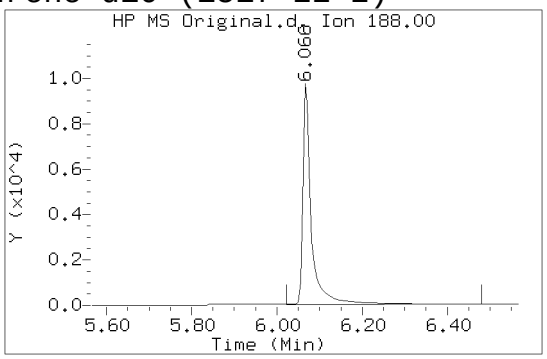
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Phenanthrene-d10 (1517-22-2)

Reason Code:

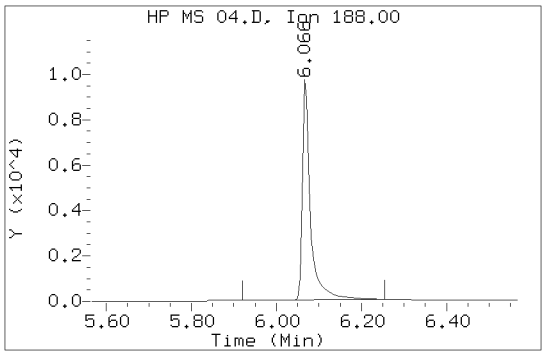
BEFORE

MASS
188
AREA
13965
HEIGHT
9748
18-Apr-2024
13:10
ALSHS
Server



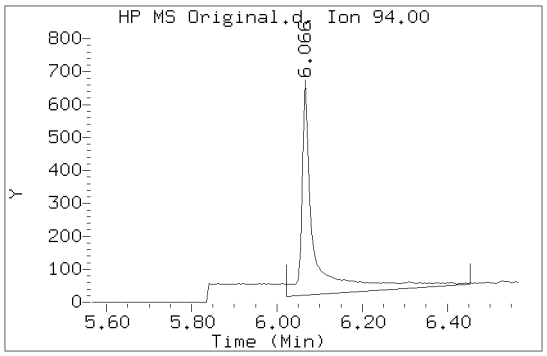
AFTER

MASS
188
AREA
12867
HEIGHT
9702
28-May-2024
13:05



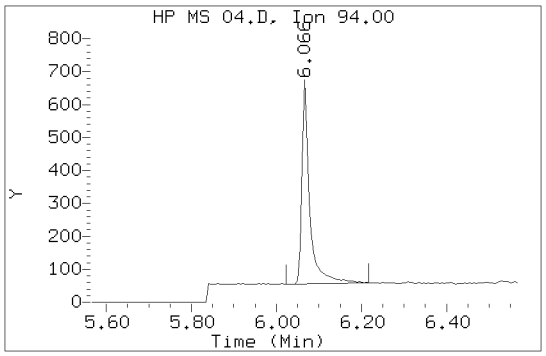
BEFORE

MASS
94
AREA
1364
HEIGHT
654
18-Apr-2024
13:10
ALSHS
Server



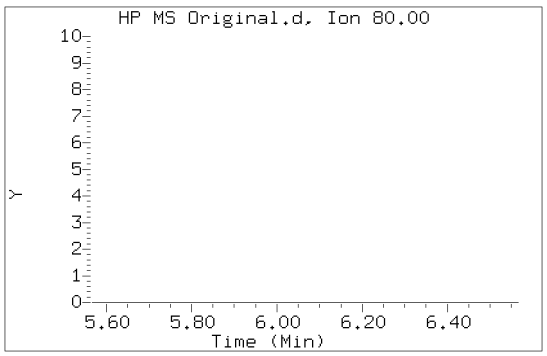
AFTER

MASS
94
AREA
793
HEIGHT
619
28-May-2024
13:05



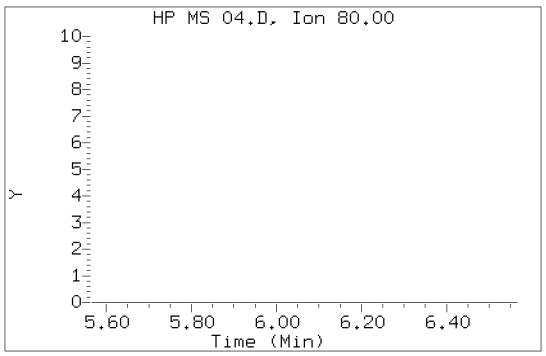
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

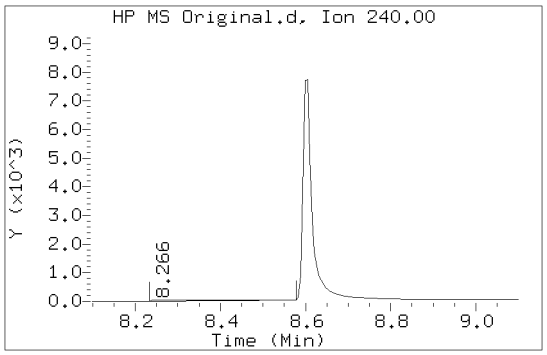


Chrysene-d12 (1719-03-5)

Reason Code:

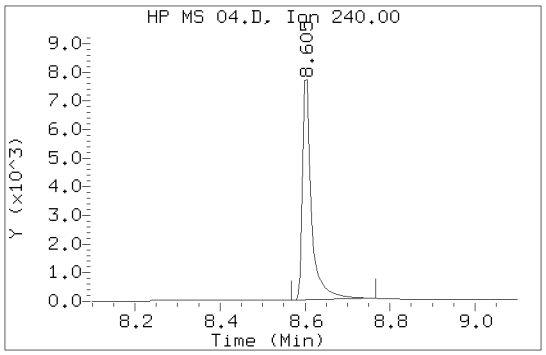
BEFORE

MASS
240
AREA
456
HEIGHT
48
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
240
AREA
11333
HEIGHT
7679
28-May-2024
13:05



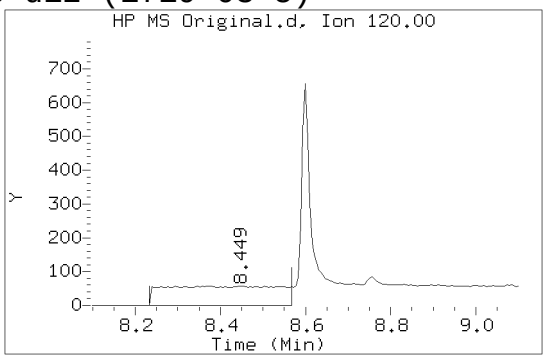
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Chrysene-d12 (1719-03-5)

Reason Code:

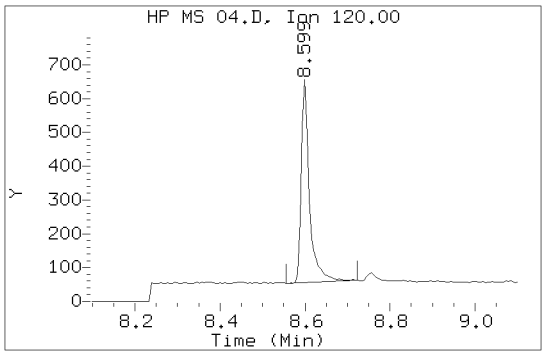
BEFORE

MASS
120
AREA
1092
HEIGHT
57
18-Apr-2024
13:10
ALSHS
Server



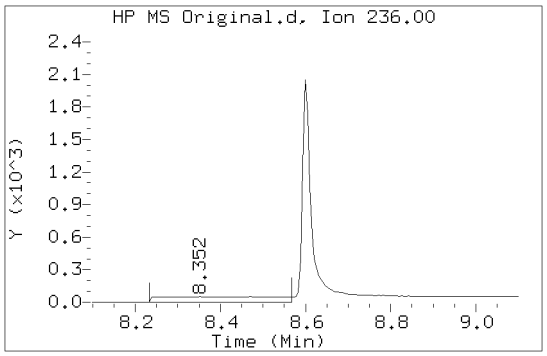
AFTER

MASS
120
AREA
786
HEIGHT
599
28-May-2024
13:05



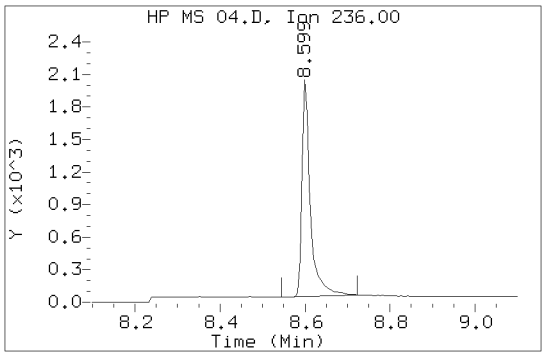
BEFORE

MASS
236
AREA
988
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
236
AREA
2680
HEIGHT
1995
28-May-2024
13:05

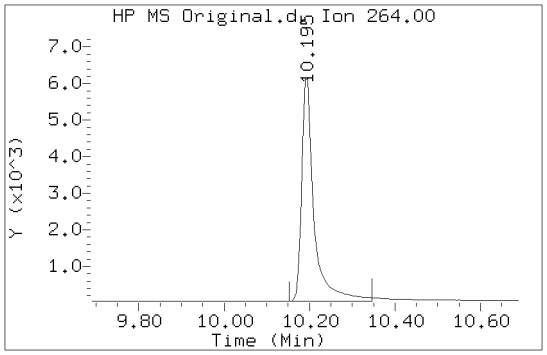


Perylene-d12 (1520-96-3)

Reason Code:

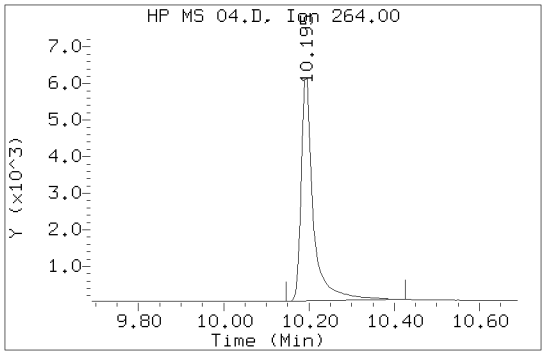
BEFORE

MASS
264
AREA
12161
HEIGHT
6073
18-Apr-2024
13:10
ALSHS
Server



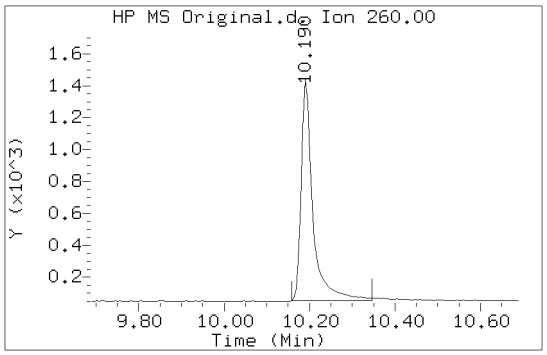
AFTER

MASS
264
AREA
12071
HEIGHT
6065
28-May-2024
13:05



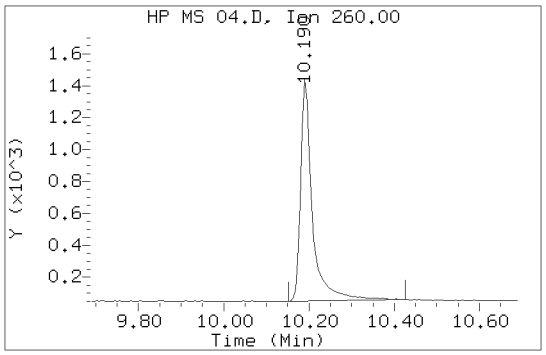
BEFORE

MASS
260
AREA
2633
HEIGHT
1385
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
260
AREA
2644
HEIGHT
1385
28-May-2024
13:05

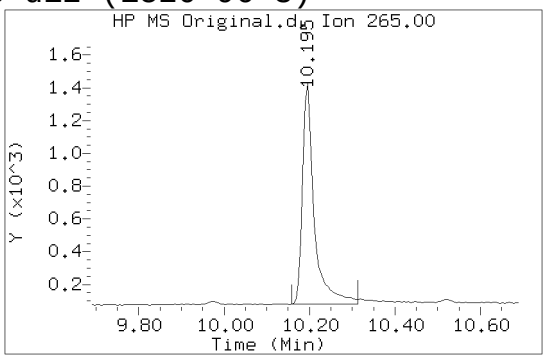


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

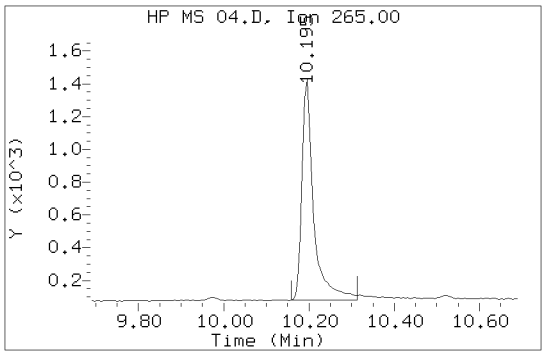
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
13:10
ALSHS
Server



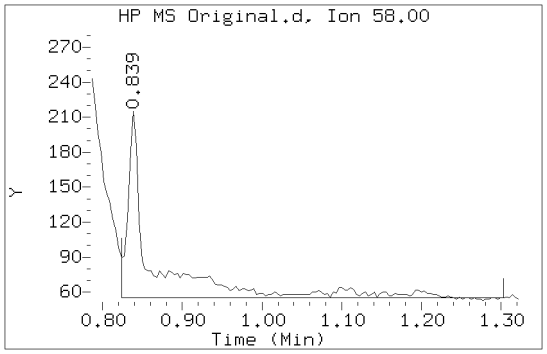
AFTER
MASS
265
AREA
2550
HEIGHT
1343
28-May-2024
13:05



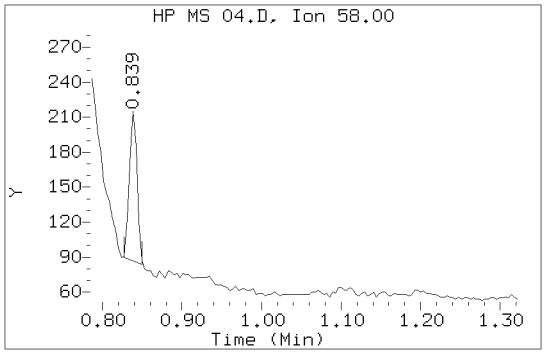
1,4-Dioxane ()

Reason Code:

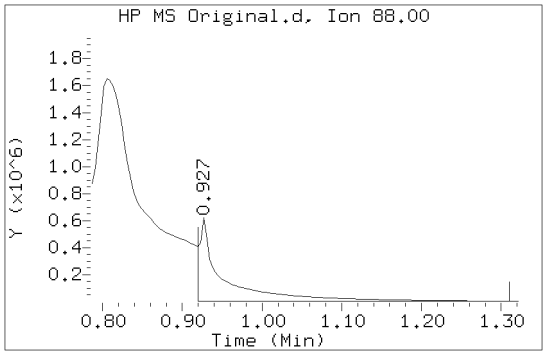
BEFORE
MASS
58
AREA
329
HEIGHT
160
18-Apr-2024
13:10
ALSHS
Server



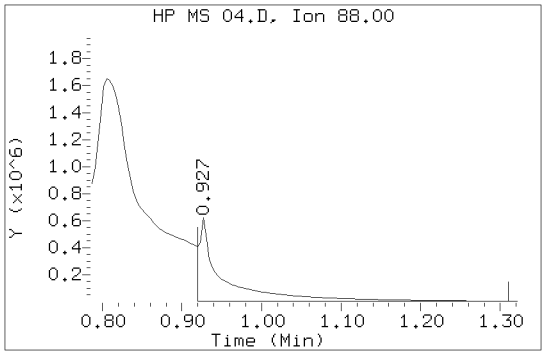
AFTER
MASS
58
AREA
87
HEIGHT
128
28-May-2024
13:05



BEFORE
MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
13:10
ALSHS
Server



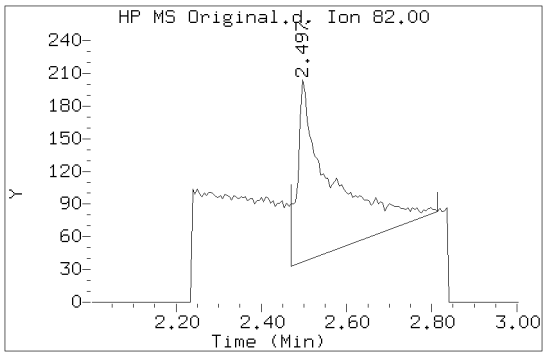
AFTER
MASS
88
AREA
1289287
HEIGHT
619255
28-May-2024
13:05



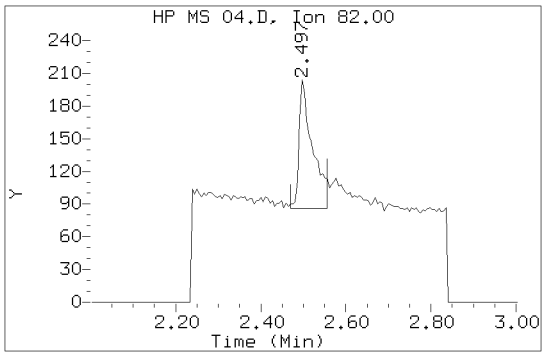
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
946
HEIGHT
167
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
82
AREA
262
HEIGHT
118
28-May-2024
13:05

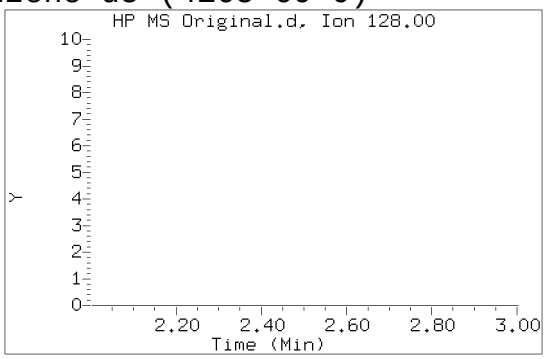


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

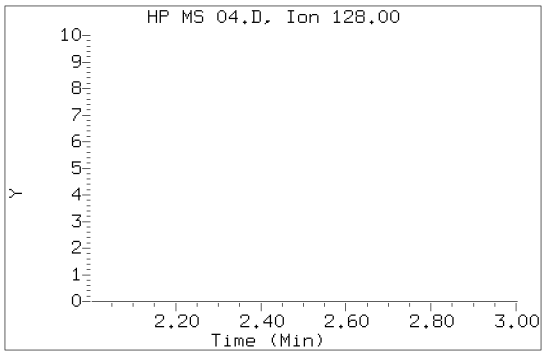
Nitrobenzene-d5 (4165-60-0)

Reason Code:

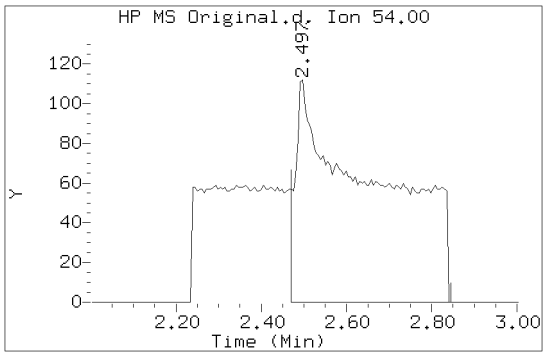
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



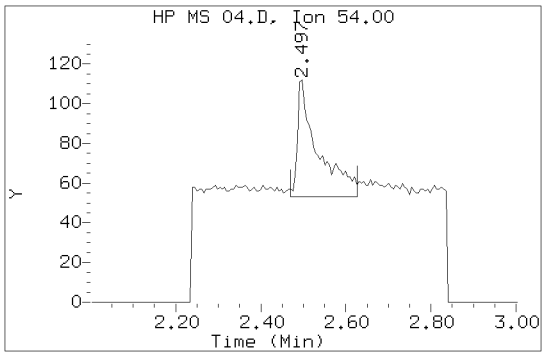
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1431
HEIGHT
112
18-Apr-2024
13:10
ALSHS
Server



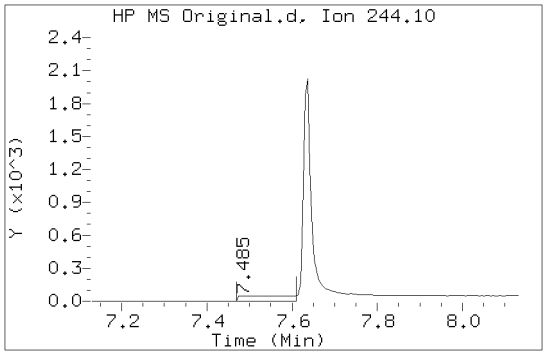
AFTER
MASS
54
AREA
197
HEIGHT
59
28-May-2024
13:05



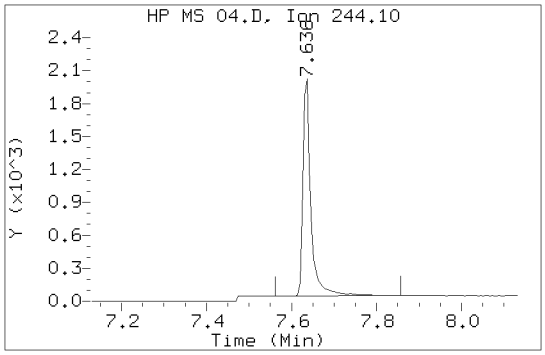
4-Terphenyl-d14 (1718-51-0)

Reason Code:

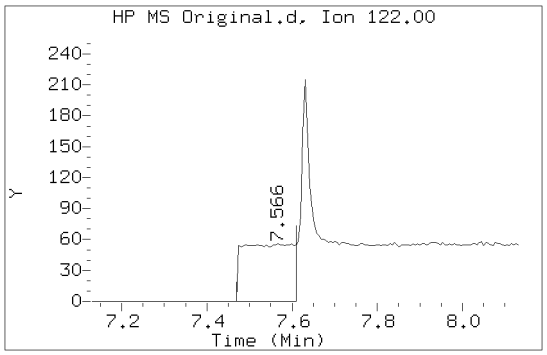
BEFORE
MASS
244.1
AREA
404
HEIGHT
49
18-Apr-2024
13:10
ALSHS
Server



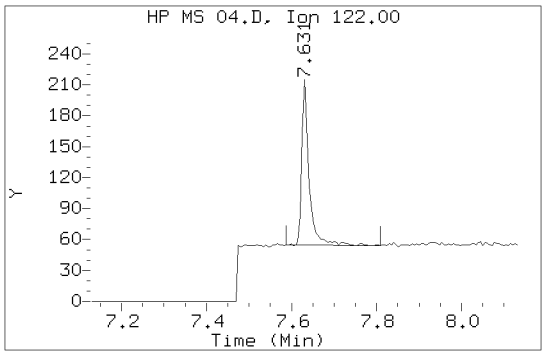
AFTER
MASS
244.1
AREA
2521
HEIGHT
1975
28-May-2024
13:05



BEFORE
MASS
122
AREA
456
HEIGHT
56
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
122
AREA
187
HEIGHT
160
28-May-2024
13:05



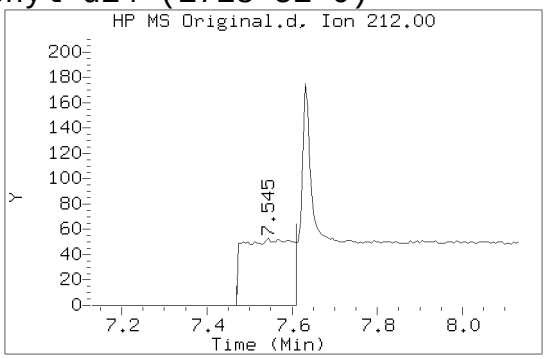
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

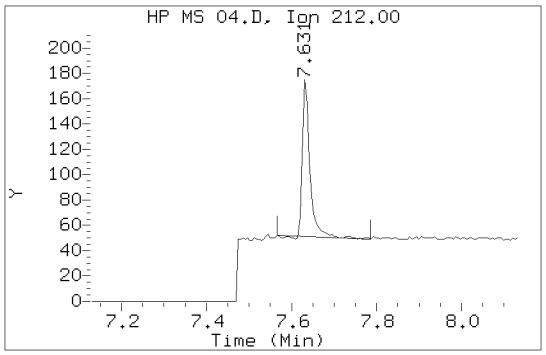
BEFORE

MASS
212
AREA
418
HEIGHT
53
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
212
AREA
146
HEIGHT
123
28-May-2024
13:05

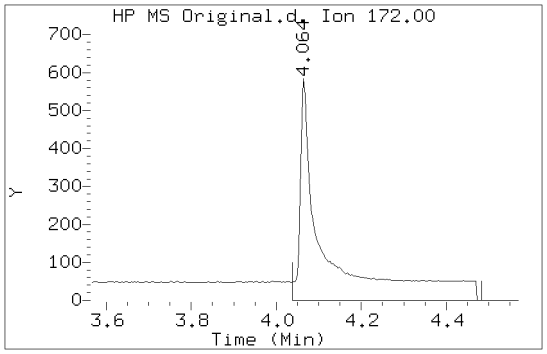


2-Fluorobiphenyl (321-60-8)

Reason Code:

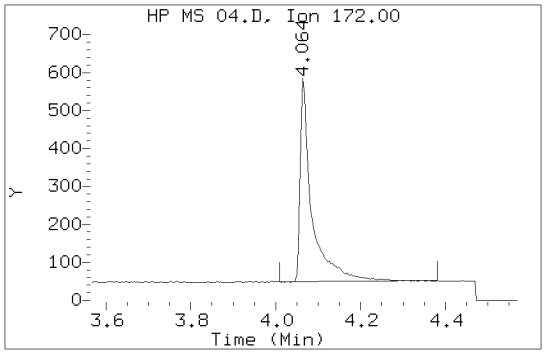
BEFORE

MASS
172
AREA
2355
HEIGHT
584
18-Apr-2024
13:10
ALSHS
Server



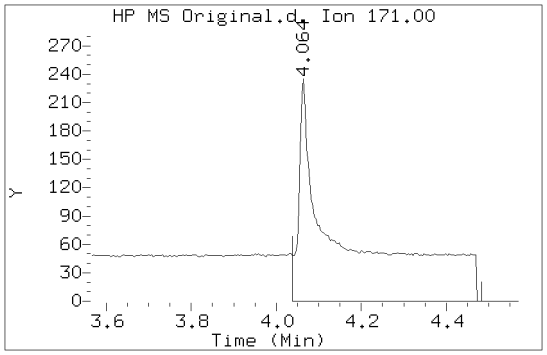
AFTER

MASS
172
AREA
1018
HEIGHT
534
28-May-2024
13:05



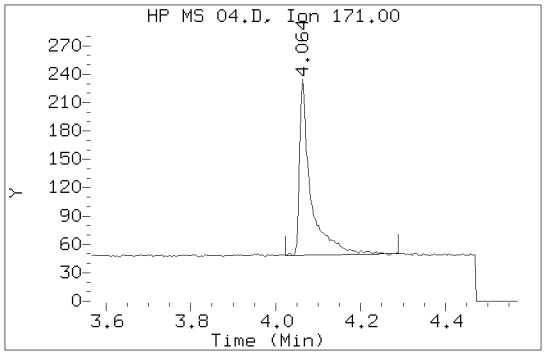
BEFORE

MASS
171
AREA
1637
HEIGHT
235
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
171
AREA
346
HEIGHT
186
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Lab Smp Id: 14DX-0.03
Inj Date : 18-APR-2024 13:07
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:07 Cal File: 05.D
Als bottle: 5 Calibration Sample, Level: 2
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.088	2.089	(1.000)	2278	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	6857	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	570	0.03000	0.02769(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	3891	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	1731	0.03000	0.02910(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	7578	0.10000	(M)
* 182 Chrysene-d12	240	8.598	8.599	(1.000)	6445	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	3857	0.03000	0.02938(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	6635	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	138	0.03000	0.02828(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.

01304648

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D

Date : 18-APR-2024 13:07

Client ID:

Instrument: SV6.i

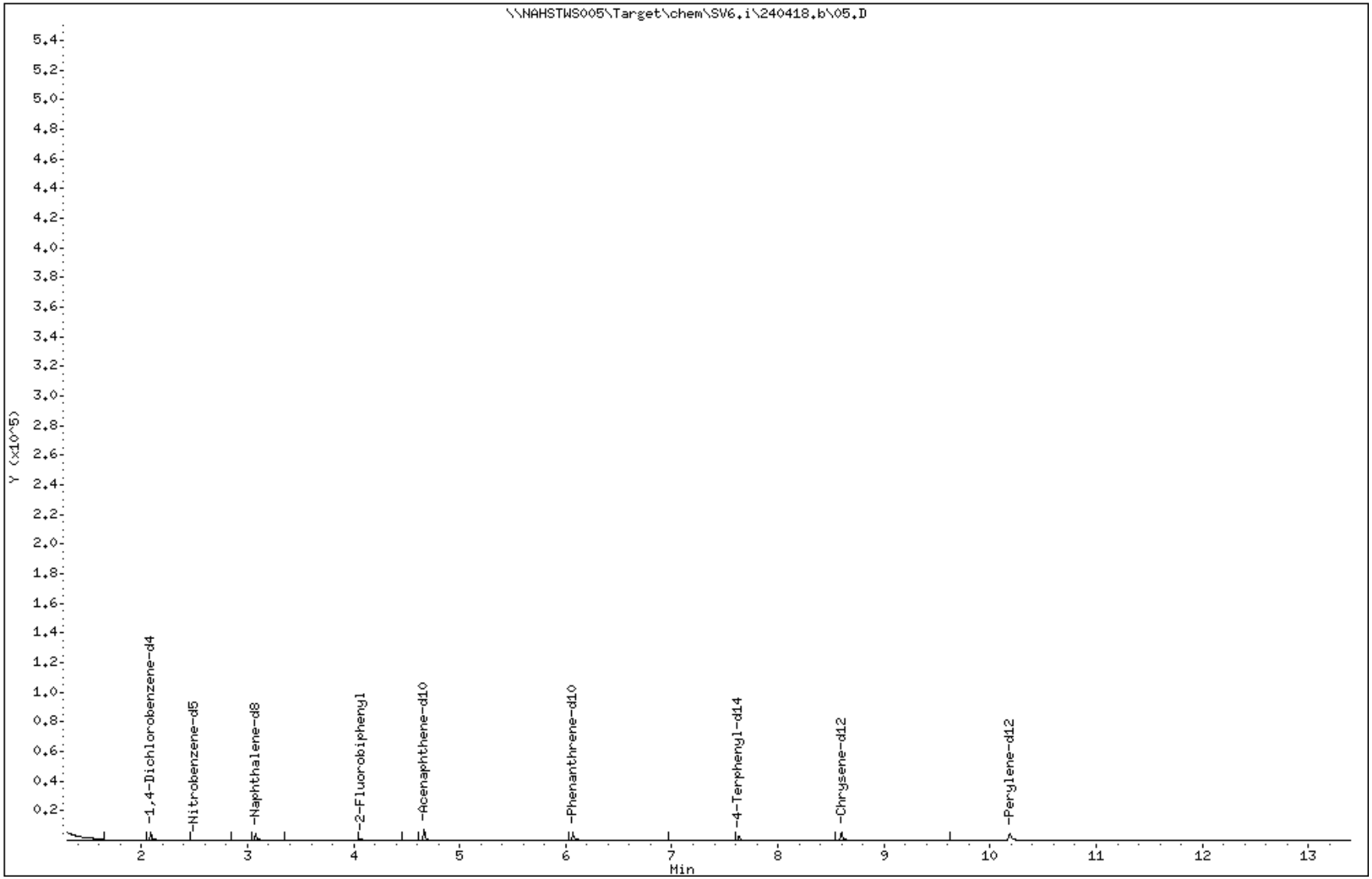
Sample Info: 14DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

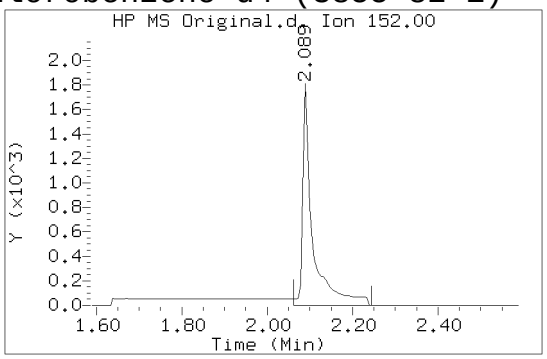


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

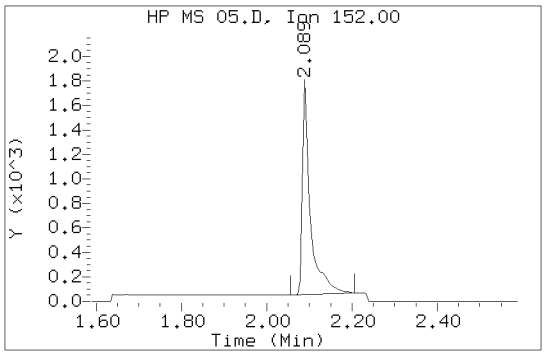
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

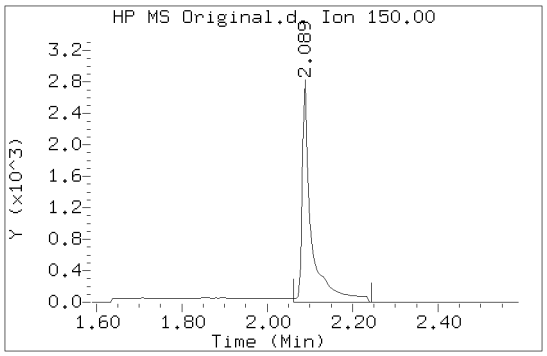
BEFORE
MASS
152
AREA
2919
HEIGHT
1810
18-Apr-2024
13:21
ALSHS
Server



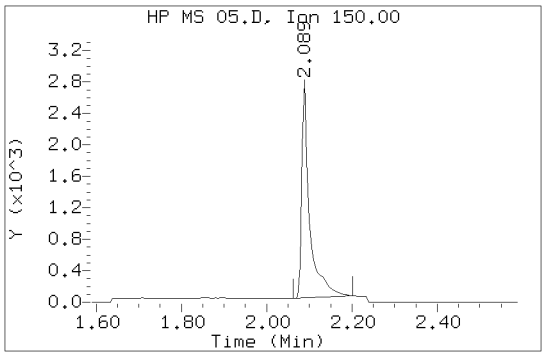
AFTER
MASS
152
AREA
2278
HEIGHT
1755
28-May-2024
13:05



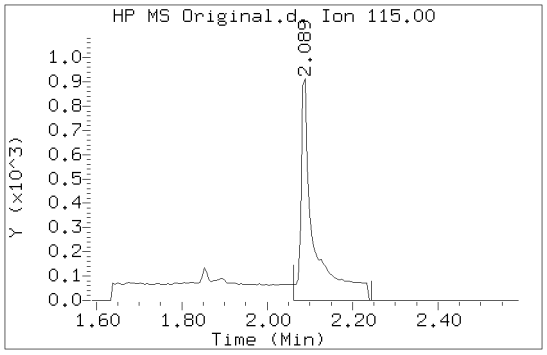
BEFORE
MASS
150
AREA
4252
HEIGHT
2826
18-Apr-2024
13:21
ALSHS
Server



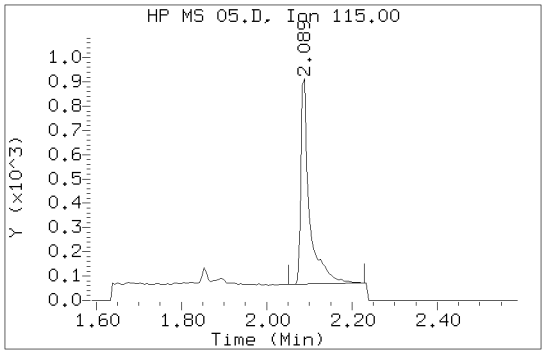
AFTER
MASS
150
AREA
3521
HEIGHT
2768
28-May-2024
13:05



BEFORE
MASS
115
AREA
1932
HEIGHT
913
18-Apr-2024
13:21
ALSHS
Server



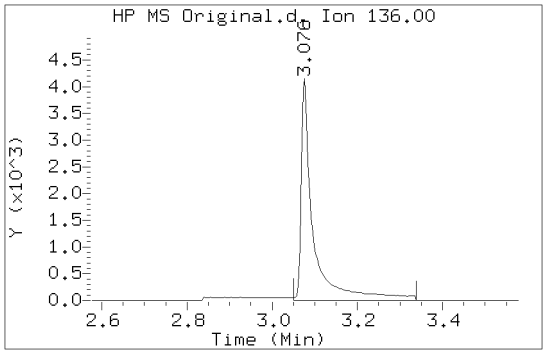
AFTER
MASS
115
AREA
1207
HEIGHT
846
28-May-2024
13:05



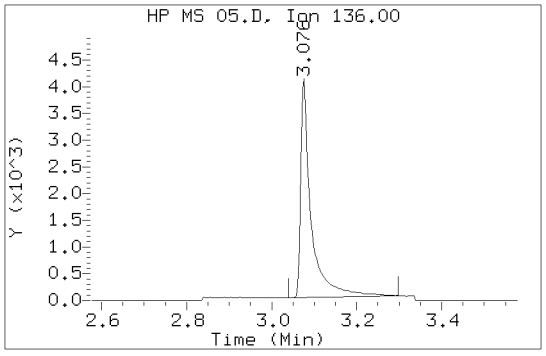
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8079
HEIGHT
4148
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
136
AREA
6857
HEIGHT
4091
28-May-2024
13:05



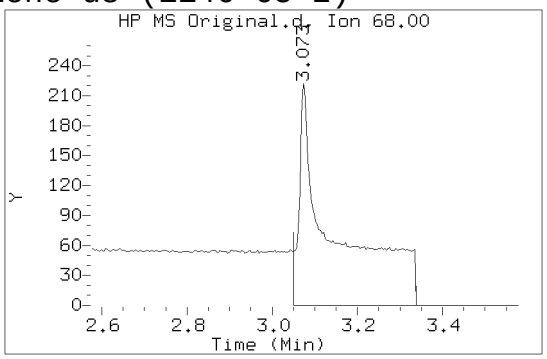
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

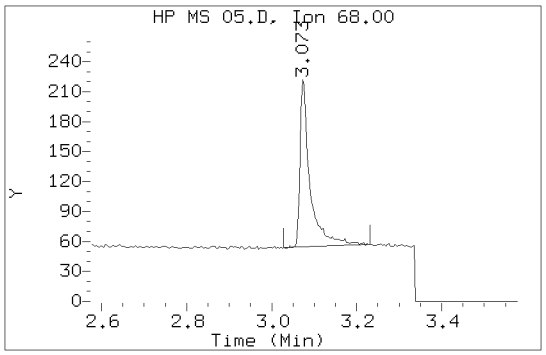
BEFORE

MASS
68
AREA
1234
HEIGHT
222
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
68
AREA
270
HEIGHT
167
28-May-2024
13:05

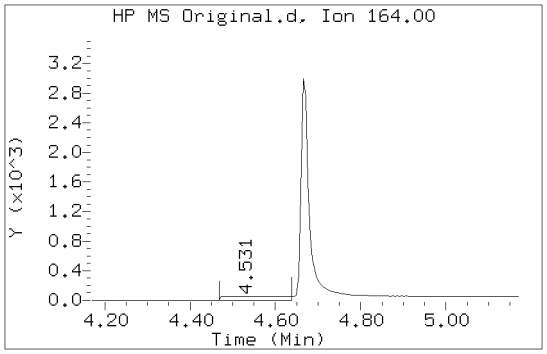


Acenaphthene-d10 (15067-26-2)

Reason Code:

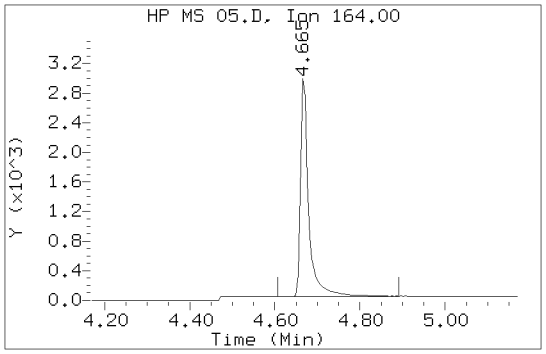
BEFORE

MASS
164
AREA
504
HEIGHT
51
18-Apr-2024
13:21
ALSHS
Server



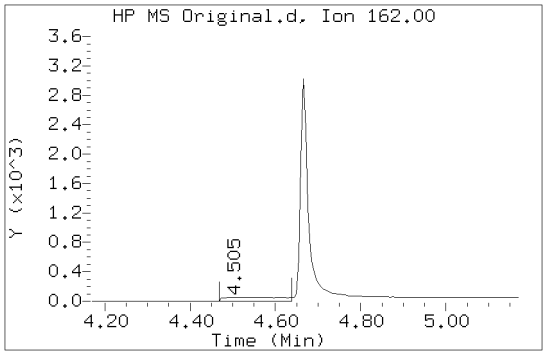
AFTER

MASS
164
AREA
3891
HEIGHT
2944
28-May-2024
13:05



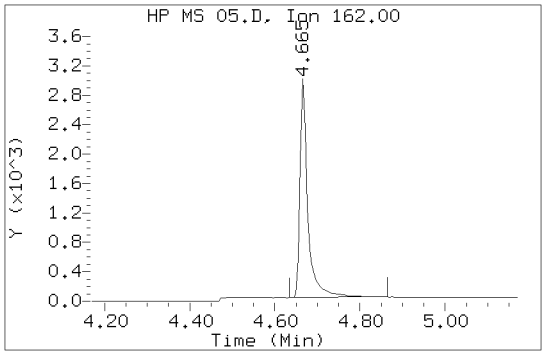
BEFORE

MASS
162
AREA
505
HEIGHT
54
18-Apr-2024
13:21
ALSHS
Server



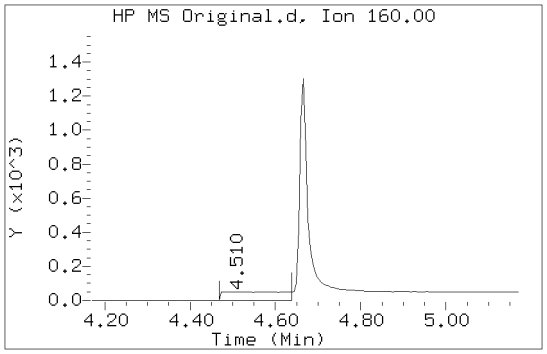
AFTER

MASS
162
AREA
3749
HEIGHT
2972
28-May-2024
13:05



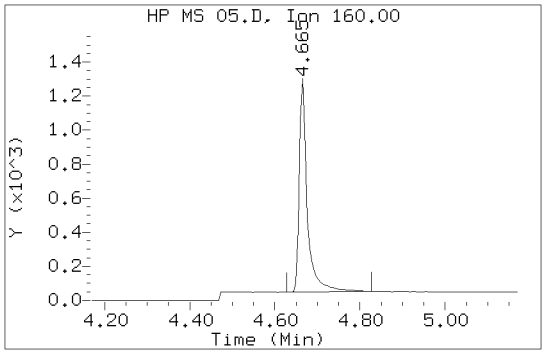
BEFORE

MASS
160
AREA
490
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
160
AREA
1625
HEIGHT
1253
28-May-2024
13:05



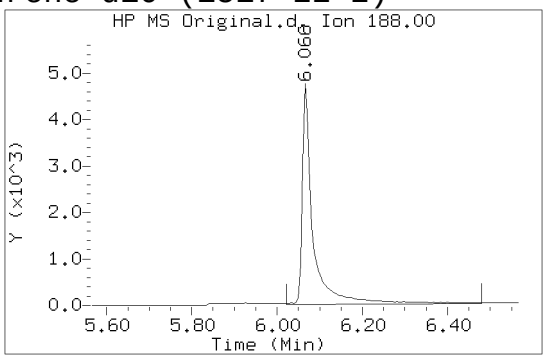
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Phenanthrene-d10 (1517-22-2)

Reason Code:

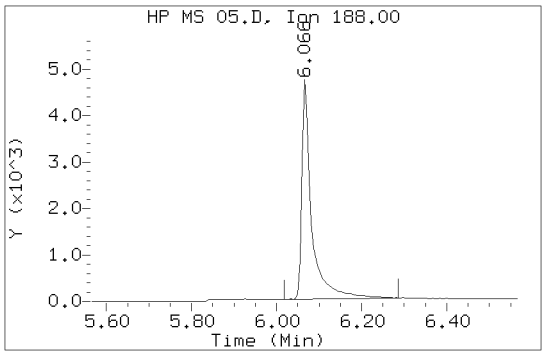
BEFORE

MASS
188
AREA
8422
HEIGHT
4756
18-Apr-2024
13:21
ALSHS
Server



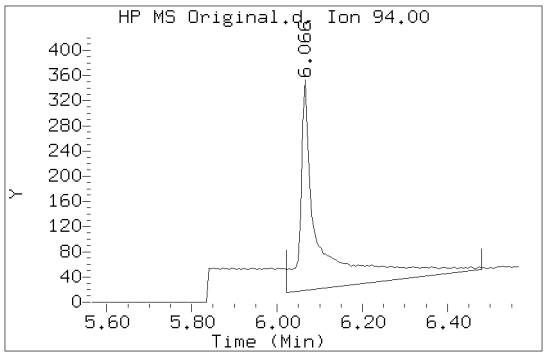
AFTER

MASS
188
AREA
7578
HEIGHT
4722
28-May-2024
13:05



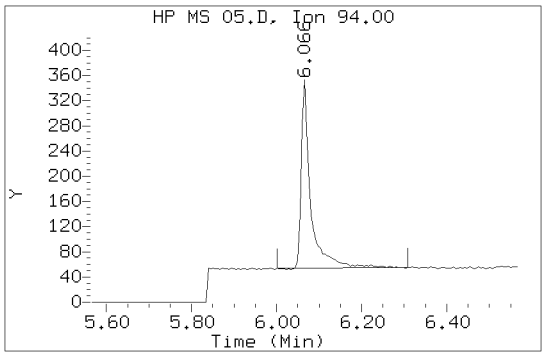
BEFORE

MASS
94
AREA
1045
HEIGHT
334
18-Apr-2024
13:21
ALSHS
Server



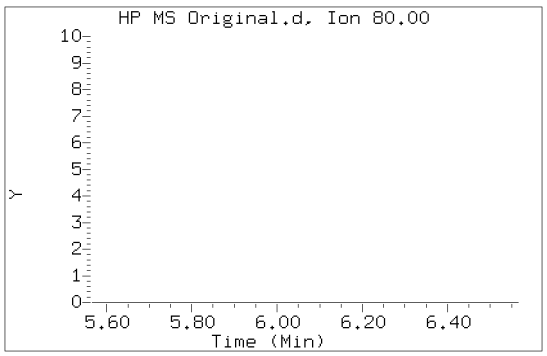
AFTER

MASS
94
AREA
460
HEIGHT
298
28-May-2024
13:05



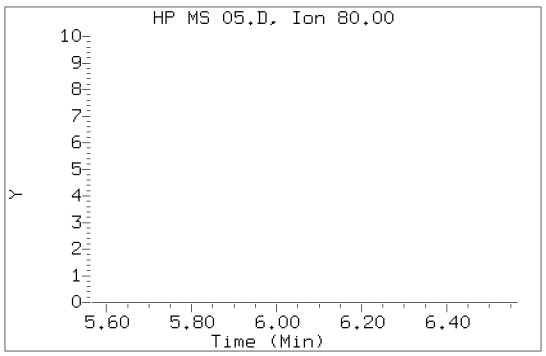
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

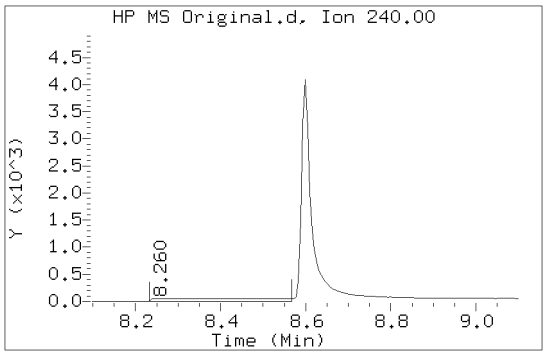


Chrysene-d12 (1719-03-5)

Reason Code:

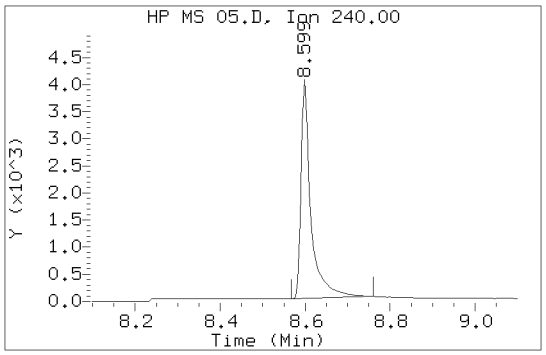
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
240
AREA
6445
HEIGHT
4036
28-May-2024
13:05



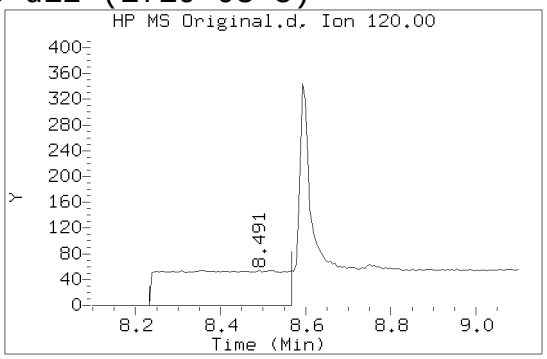
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Chrysene-d12 (1719-03-5)

Reason Code:

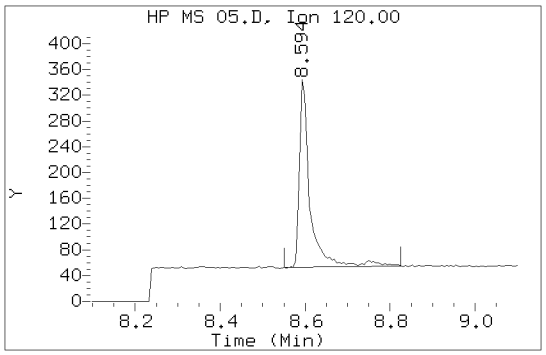
BEFORE

MASS
120
AREA
1053
HEIGHT
55
18-Apr-2024
13:21
ALSHS
Server



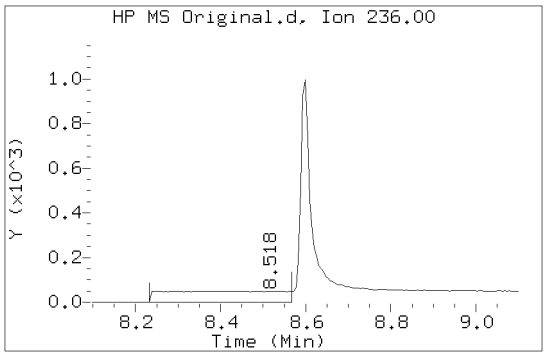
AFTER

MASS
120
AREA
500
HEIGHT
290
28-May-2024
13:05



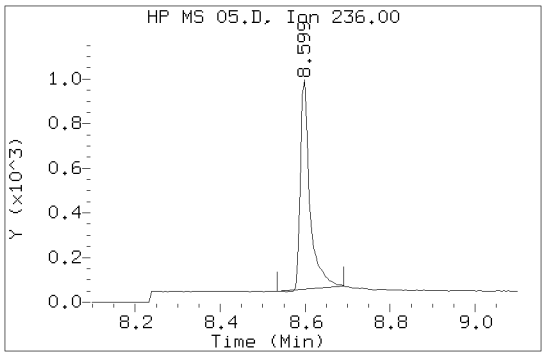
BEFORE

MASS
236
AREA
963
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
236
AREA
1446
HEIGHT
938
28-May-2024
13:05

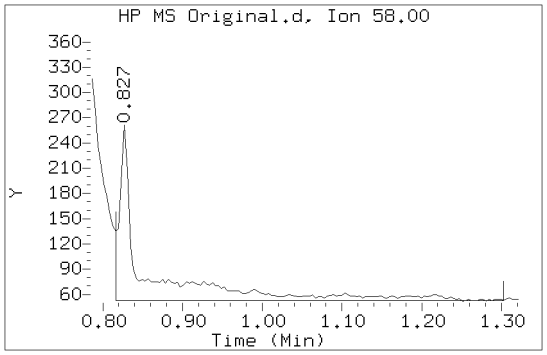


1,4-Dioxane ()

Reason Code:

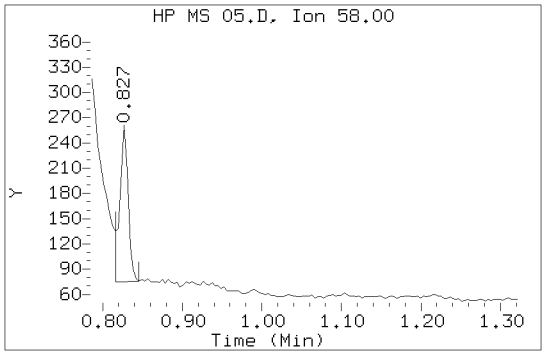
BEFORE

MASS
58
AREA
414
HEIGHT
208
18-Apr-2024
13:21
ALSHS
Server



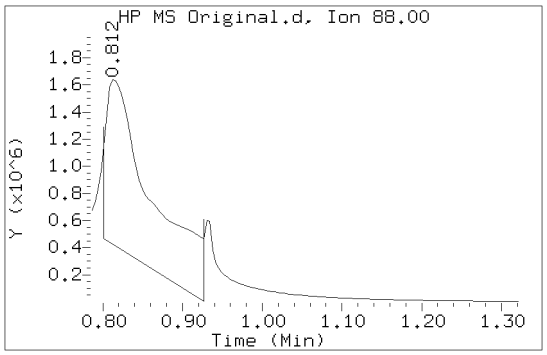
AFTER

MASS
58
AREA
138
HEIGHT
185
28-May-2024
13:05



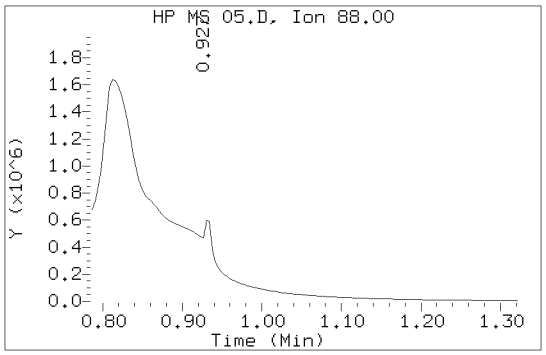
BEFORE

MASS
88
AREA
4998904
HEIGHT
1209480
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

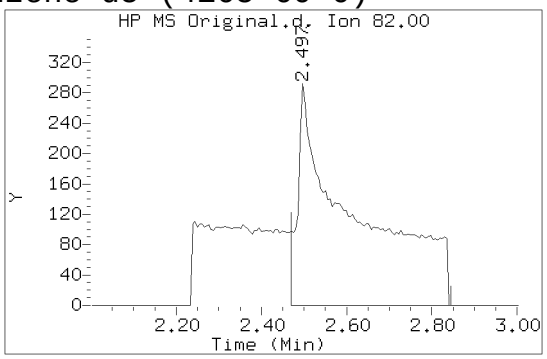


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

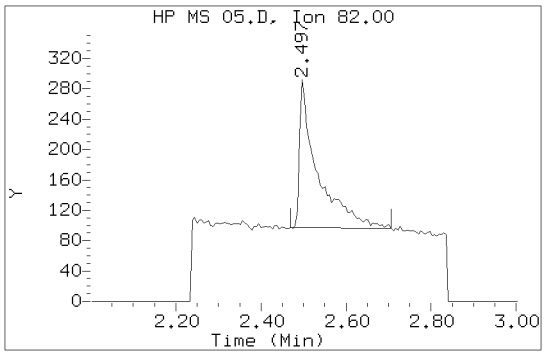
Nitrobenzene-d5 (4165-60-0)

Reason Code:

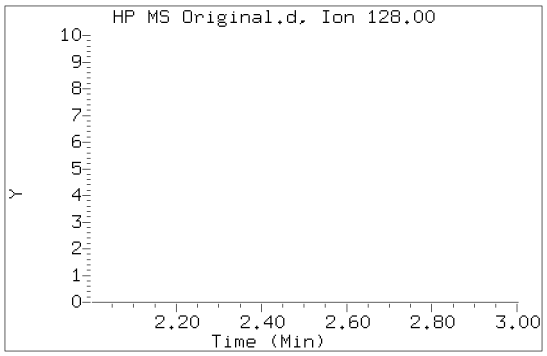
BEFORE
MASS
82
AREA
2662
HEIGHT
292
18-Apr-2024
13:21
ALSHS
Server



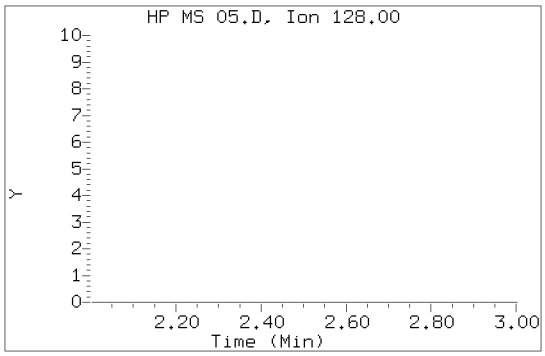
AFTER
MASS
82
AREA
570
HEIGHT
195
28-May-2024
13:05



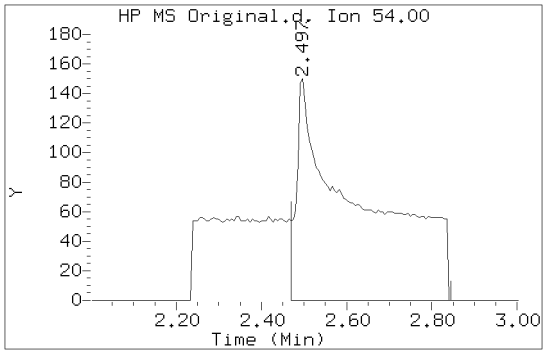
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



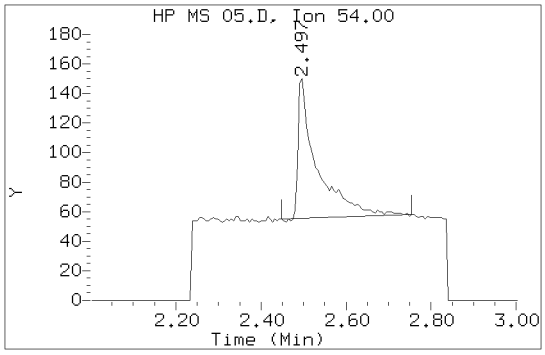
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1538
HEIGHT
150
18-Apr-2024
13:21
ALSHS
Server



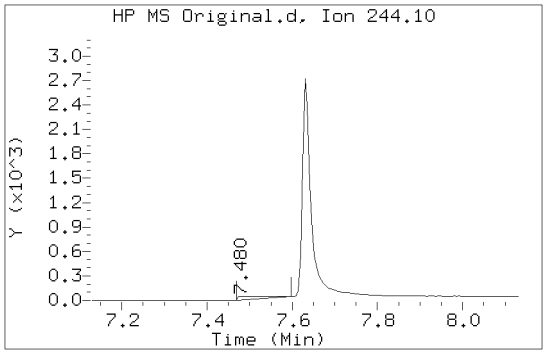
AFTER
MASS
54
AREA
289
HEIGHT
94
28-May-2024
13:05



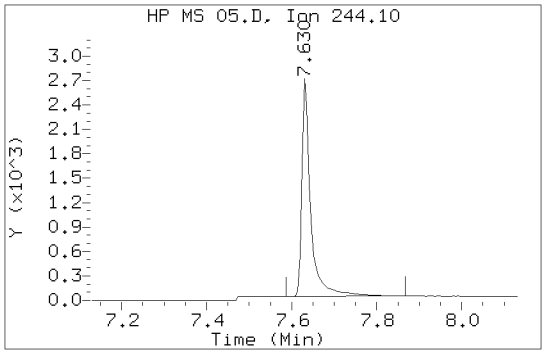
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
174
HEIGHT
44
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
244.1
AREA
3857
HEIGHT
2674
28-May-2024
13:05



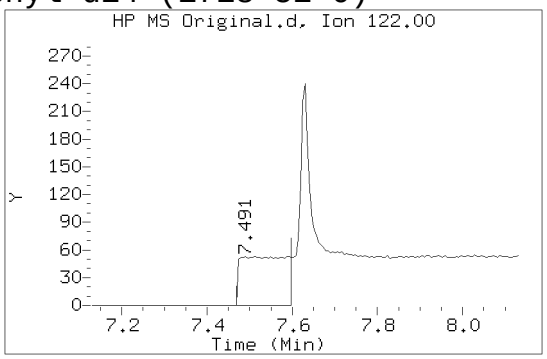
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

4-Terphenyl-d14 (1718-51-0)

Reason Code:

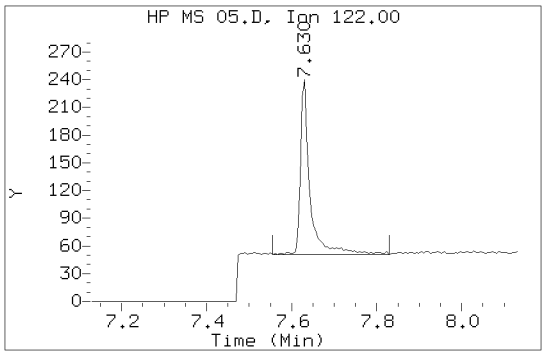
BEFORE

MASS
122
AREA
401
HEIGHT
53
18-Apr-2024
13:21
ALSHS
Server



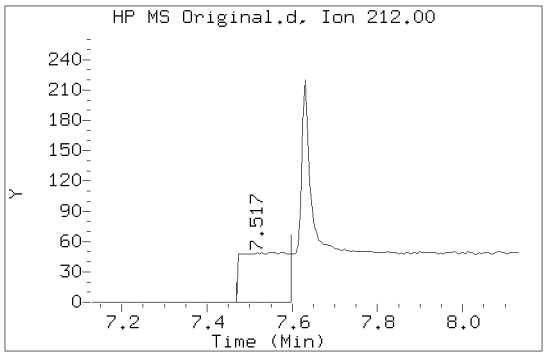
AFTER

MASS
122
AREA
296
HEIGHT
189
28-May-2024
13:05



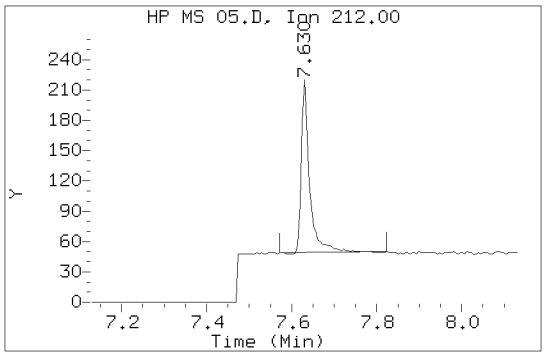
BEFORE

MASS
212
AREA
374
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
212
AREA
227
HEIGHT
170
28-May-2024
13:05

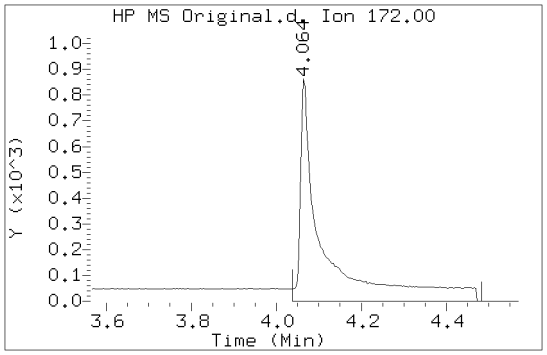


2-Fluorobiphenyl (321-60-8)

Reason Code:

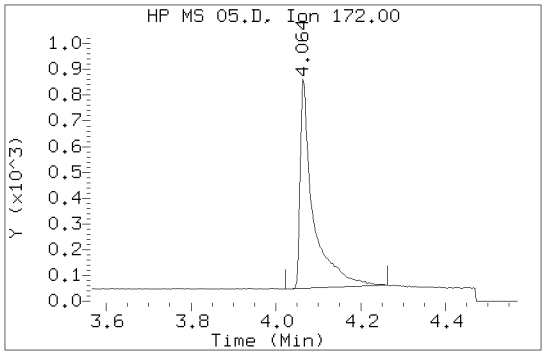
BEFORE

MASS
172
AREA
3193
HEIGHT
863
18-Apr-2024
13:21
ALSHS
Server



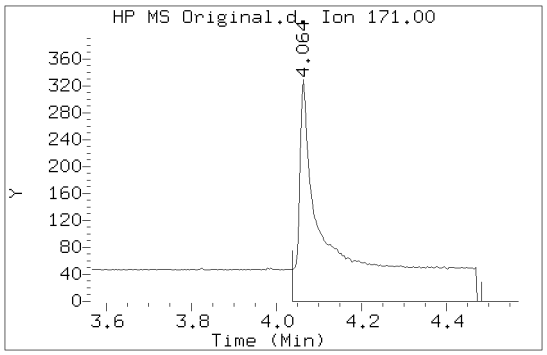
AFTER

MASS
172
AREA
1731
HEIGHT
812
28-May-2024
13:05



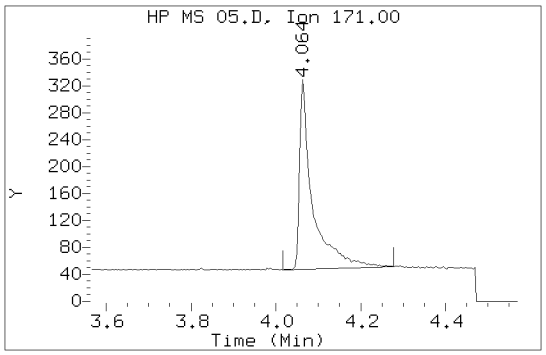
BEFORE

MASS
171
AREA
1906
HEIGHT
329
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
171
AREA
602
HEIGHT
281
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Lab Smp Id: 14DX-0.05
Inj Date : 18-APR-2024 13:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:25 Cal File: 06.D
Als bottle: 6 Calibration Sample, Level: 3
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3152	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9502	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	1589	0.05000	0.05570(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6015	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	4588	0.05000	0.04990(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	11597	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	10029	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	10047	0.05000	0.04918(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	10408	0.10000	(M)
1 1,4-Dioxane	58	0.849	0.820	(0.406)	339	0.05000	0.05021(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01304656

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D

Date : 18-APR-2024 13:25

Client ID:

Instrument: SV6.i

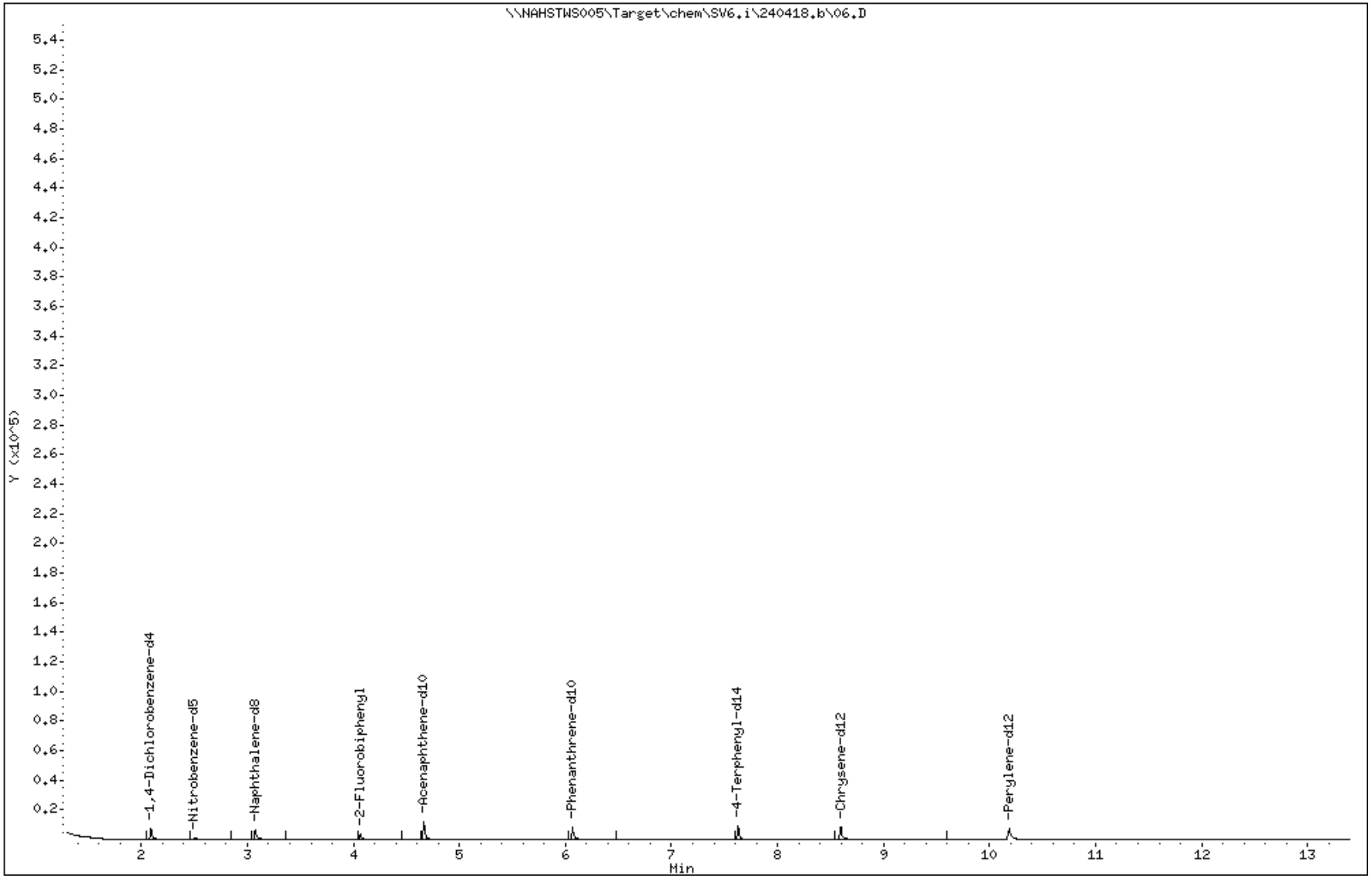
Sample Info: 14DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

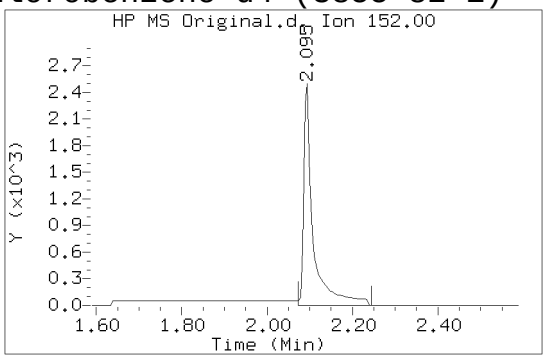


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

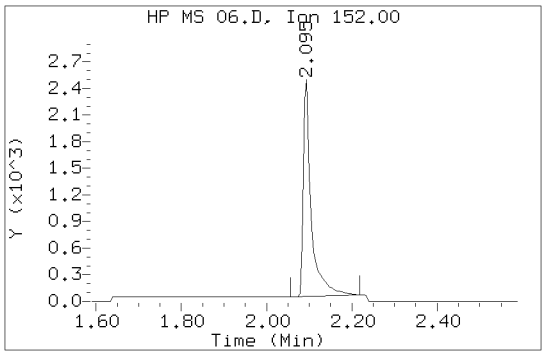
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

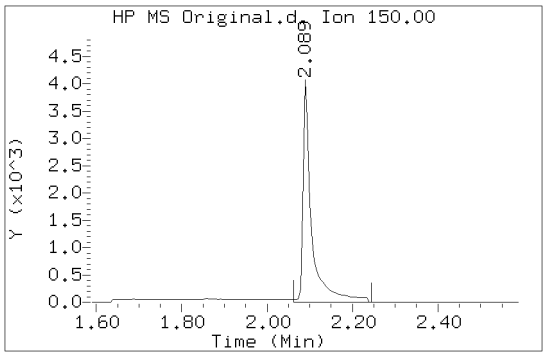
BEFORE
MASS
152
AREA
3790
HEIGHT
2499
18-Apr-2024
13:40
ALSHS
Server



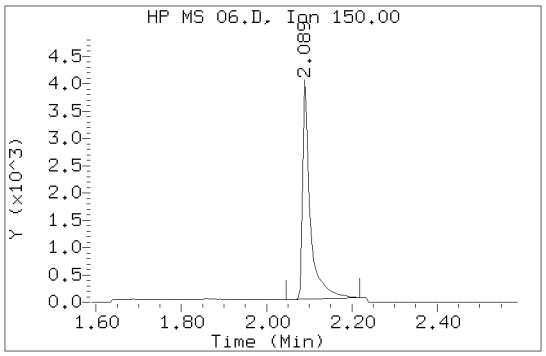
AFTER
MASS
152
AREA
3152
HEIGHT
2443
28-May-2024
13:05



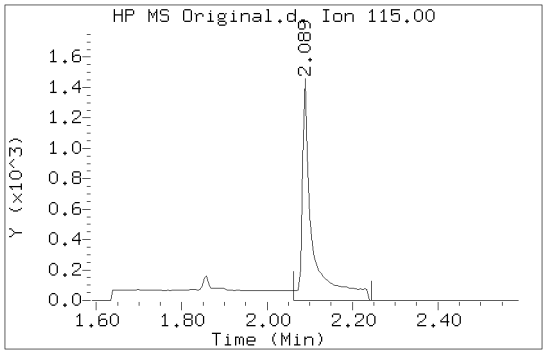
BEFORE
MASS
150
AREA
5683
HEIGHT
4072
18-Apr-2024
13:40
ALSHS
Server



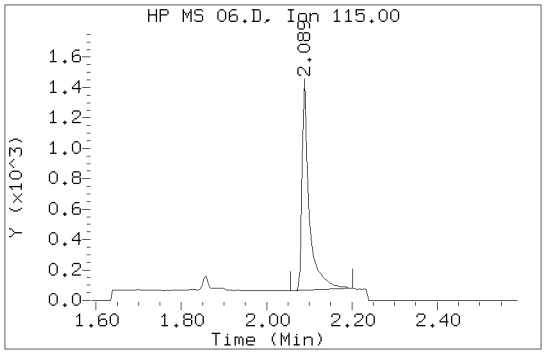
AFTER
MASS
150
AREA
4936
HEIGHT
4013
28-May-2024
13:05



BEFORE
MASS
115
AREA
2390
HEIGHT
1458
18-Apr-2024
13:40
ALSHS
Server



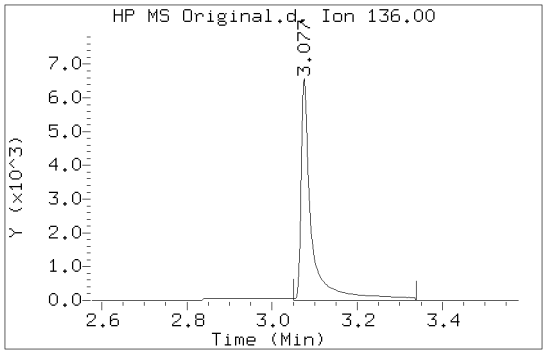
AFTER
MASS
115
AREA
1620
HEIGHT
1390
28-May-2024
13:05



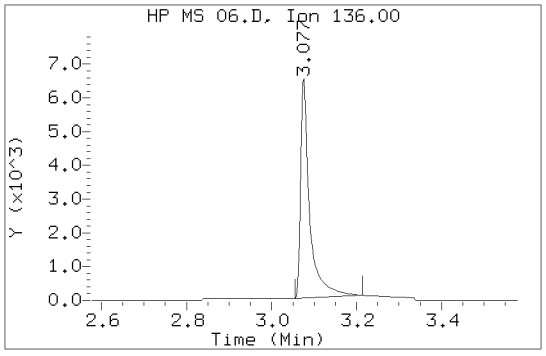
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11303
HEIGHT
6569
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
136
AREA
9502
HEIGHT
6499
28-May-2024
13:05

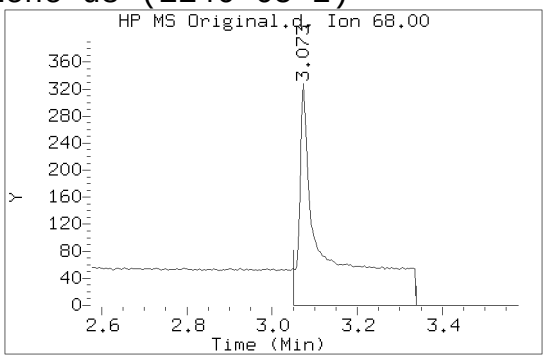


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

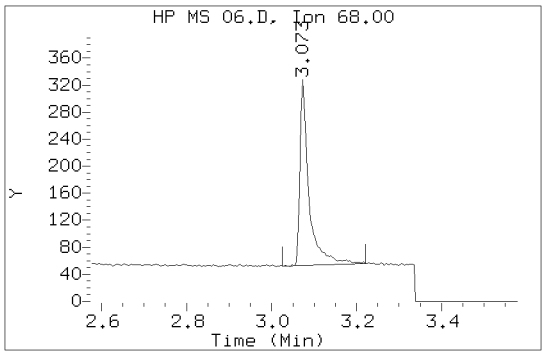
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1344
HEIGHT
328
18-Apr-2024
13:40
ALSHS
Server



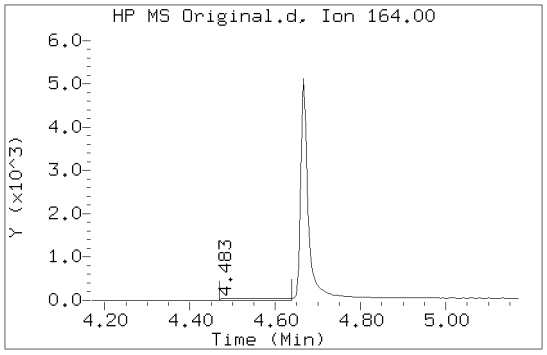
AFTER
MASS
68
AREA
401
HEIGHT
275
28-May-2024
13:05



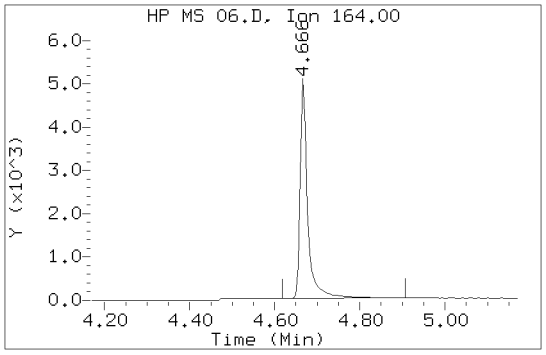
Acenaphthene-d10 (15067-26-2)

Reason Code:

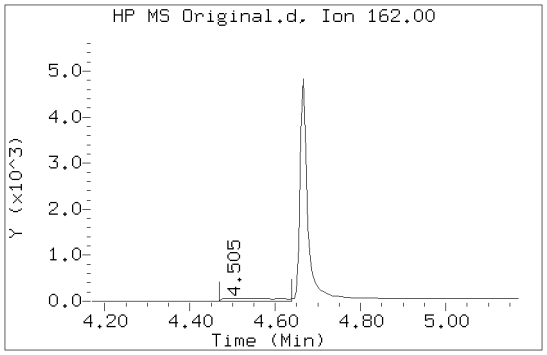
BEFORE
MASS
164
AREA
496
HEIGHT
51
18-Apr-2024
13:40
ALSHS
Server



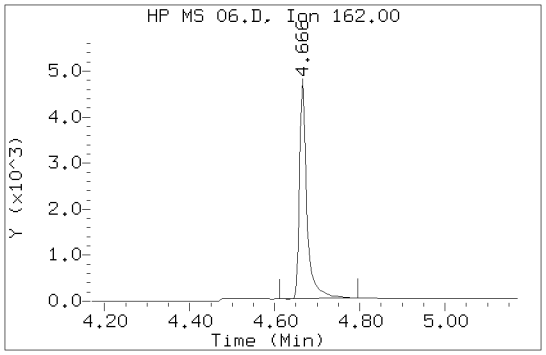
AFTER
MASS
164
AREA
6015
HEIGHT
5068
28-May-2024
13:05



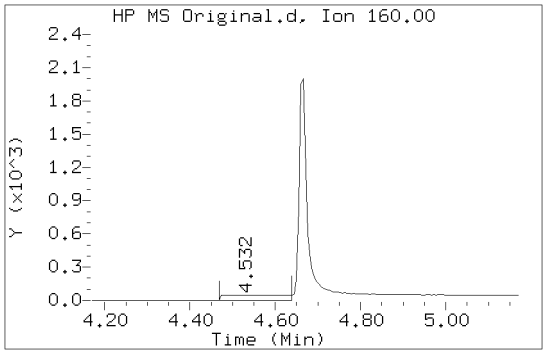
BEFORE
MASS
162
AREA
502
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



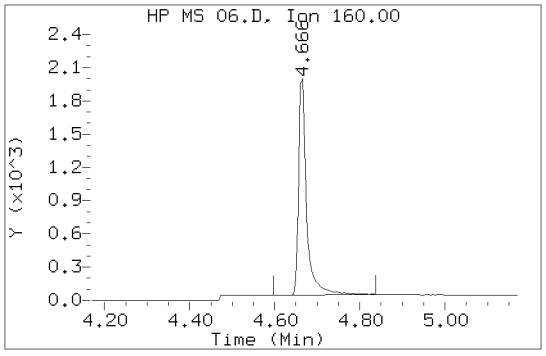
AFTER
MASS
162
AREA
5625
HEIGHT
4775
28-May-2024
13:05



BEFORE
MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
160
AREA
2508
HEIGHT
1951
28-May-2024
13:05



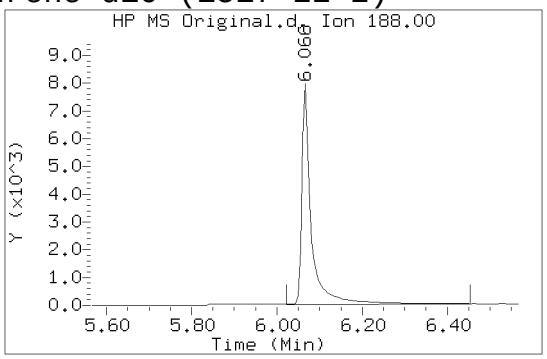
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Phenanthrene-d10 (1517-22-2)

Reason Code:

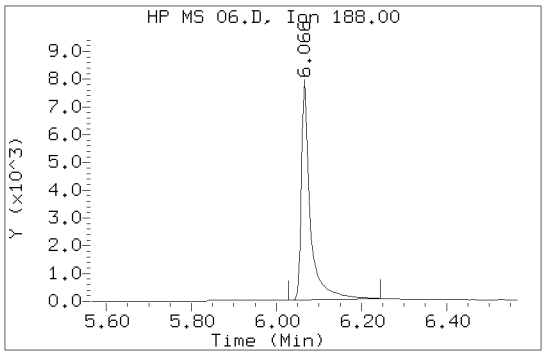
BEFORE

MASS
188
AREA
12630
HEIGHT
7964
18-Apr-2024
13:40
ALSHS
Server



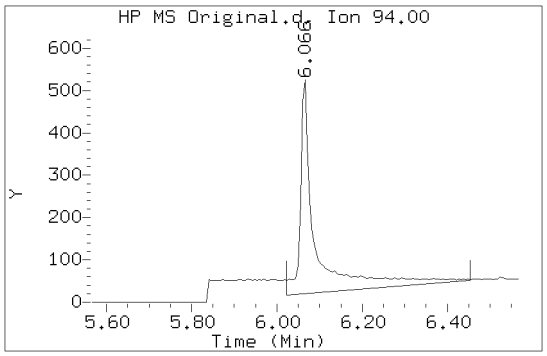
AFTER

MASS
188
AREA
11597
HEIGHT
7928
28-May-2024
13:05



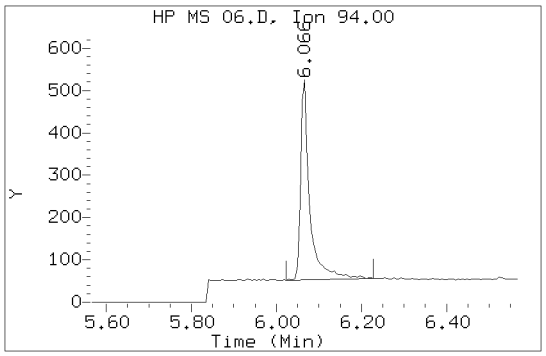
BEFORE

MASS
94
AREA
1254
HEIGHT
505
18-Apr-2024
13:40
ALSHS
Server



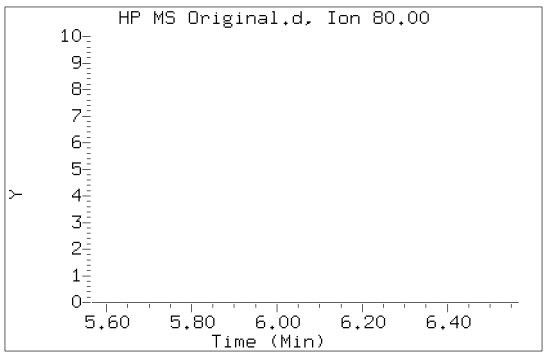
AFTER

MASS
94
AREA
716
HEIGHT
472
28-May-2024
13:05



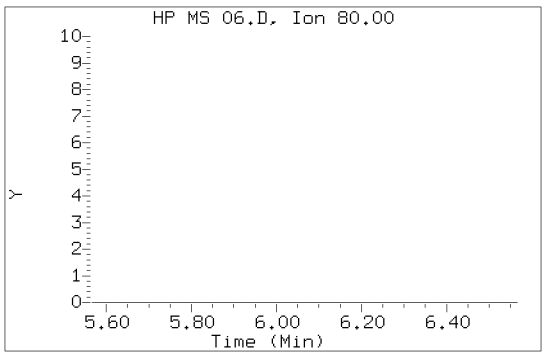
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

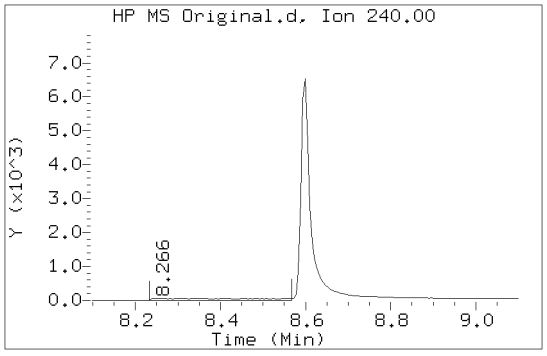


Chrysene-d12 (1719-03-5)

Reason Code:

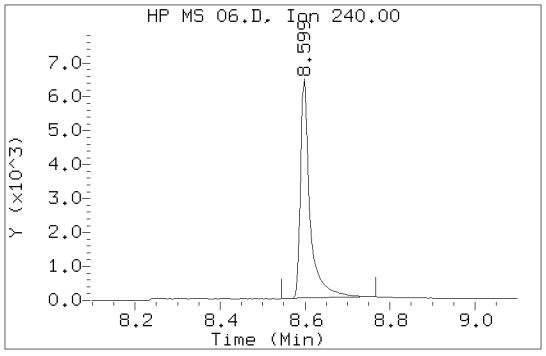
BEFORE

MASS
240
AREA
955
HEIGHT
50
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
240
AREA
10029
HEIGHT
6473
28-May-2024
13:05



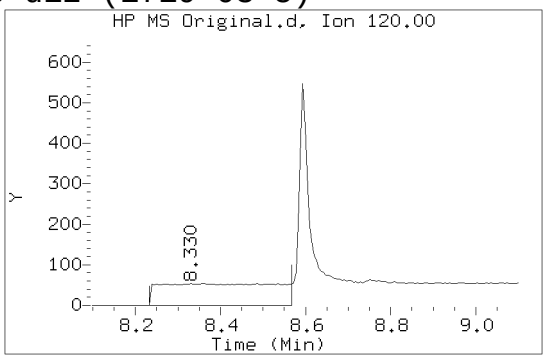
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Chrysene-d12 (1719-03-5)

Reason Code:

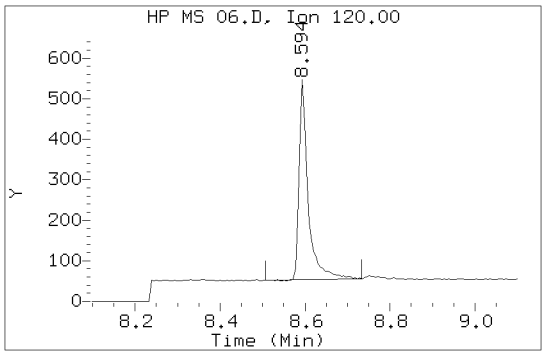
BEFORE

MASS
120
AREA
1034
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



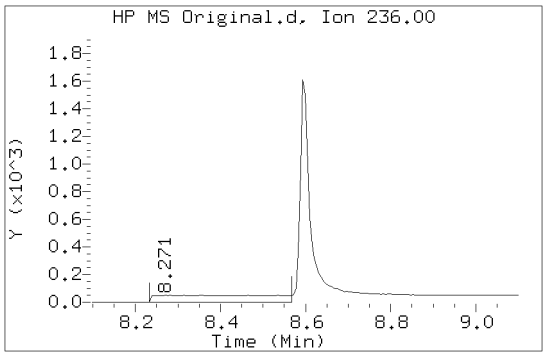
AFTER

MASS
120
AREA
729
HEIGHT
493
28-May-2024
13:05



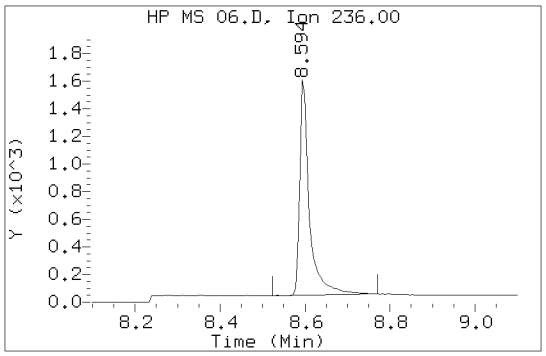
BEFORE

MASS
236
AREA
955
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
236
AREA
2416
HEIGHT
1557
28-May-2024
13:05

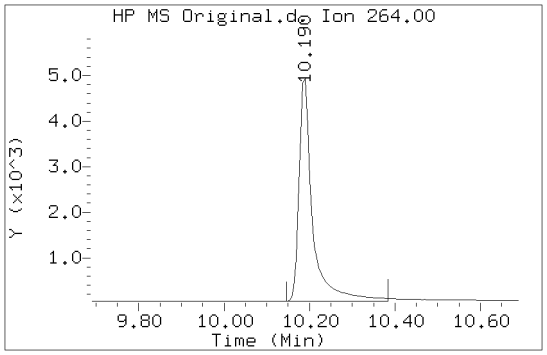


Perylene-d12 (1520-96-3)

Reason Code:

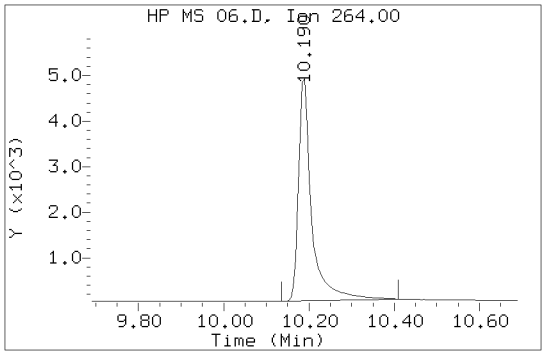
BEFORE

MASS
264
AREA
10683
HEIGHT
4875
18-Apr-2024
13:40
ALSHS
Server



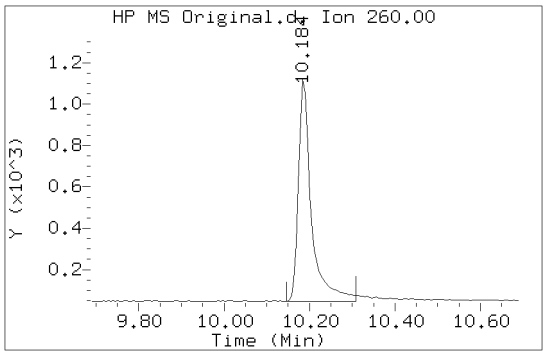
AFTER

MASS
264
AREA
10408
HEIGHT
4868
28-May-2024
13:05



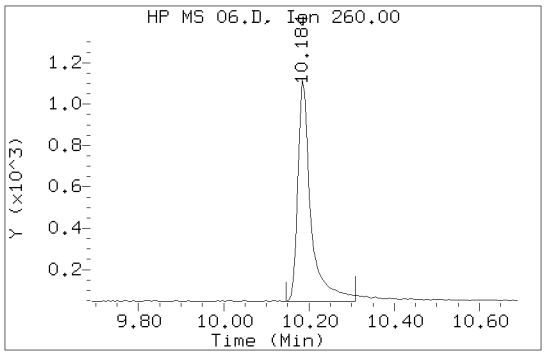
BEFORE

MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
260
AREA
2254
HEIGHT
1070
28-May-2024
13:05



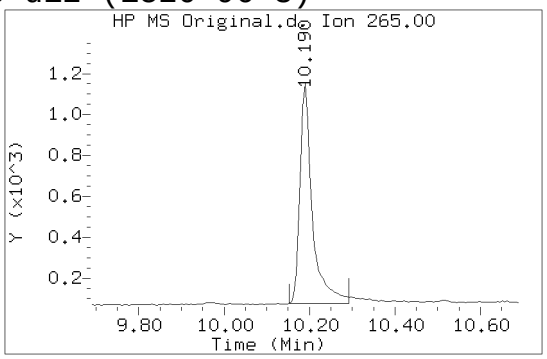
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Perylene-d12 (1520-96-3)

Reason Code:

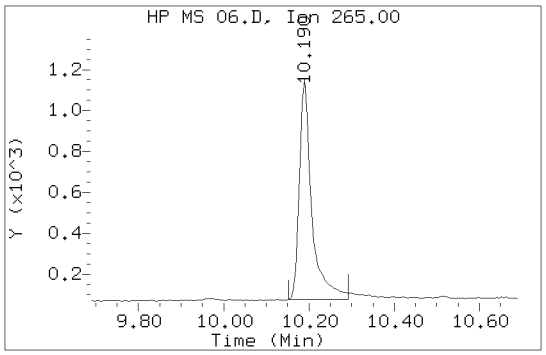
BEFORE

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
265
AREA
2161
HEIGHT
1074
28-May-2024
13:05

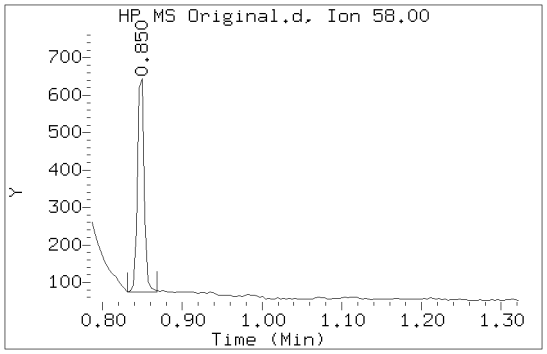


1,4-Dioxane ()

Reason Code:

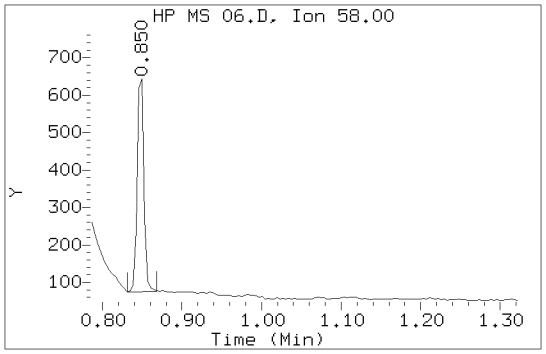
BEFORE

MASS
58
AREA
339
HEIGHT
569
18-Apr-2024
13:40
ALSHS
Server



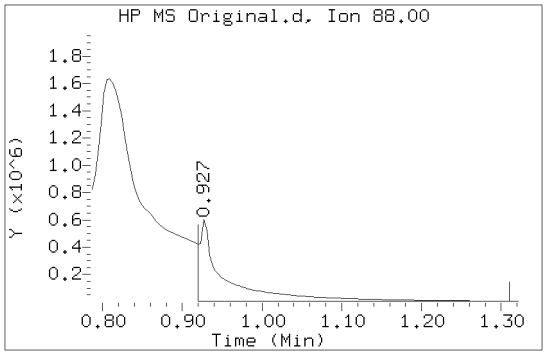
AFTER

MASS
58
AREA
339
HEIGHT
568
28-May-2024
13:05



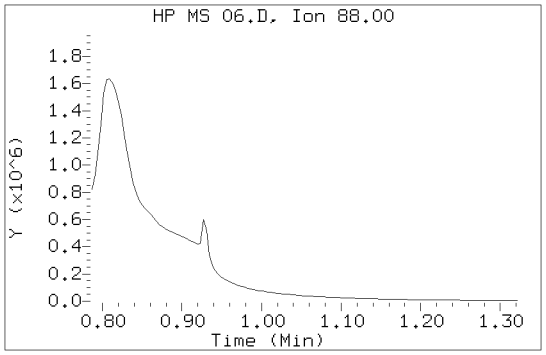
BEFORE

MASS
88
AREA
1337438
HEIGHT
596391
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

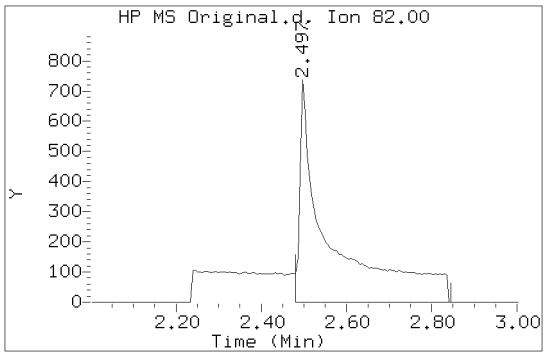


Nitrobenzene-d5 (4165-60-0)

Reason Code:

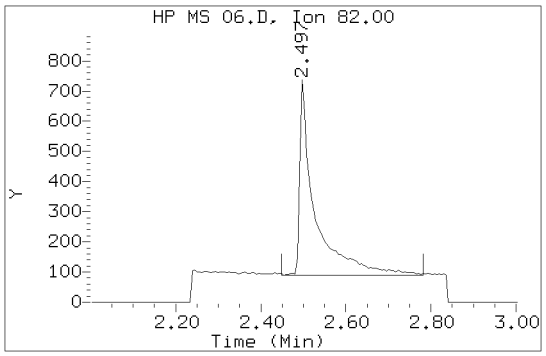
BEFORE

MASS
82
AREA
3516
HEIGHT
737
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
82
AREA
1589
HEIGHT
647
28-May-2024
13:05



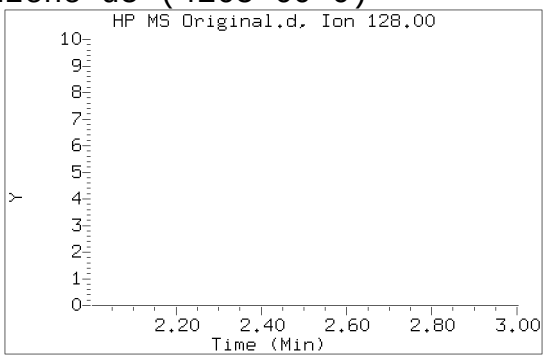
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

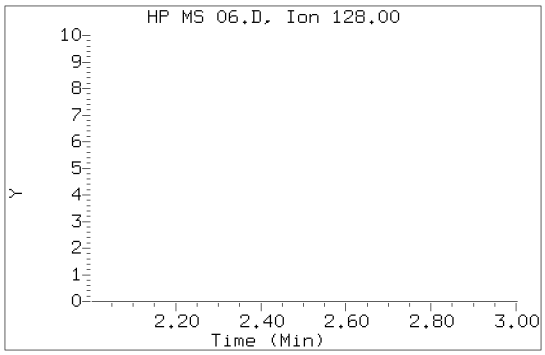
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



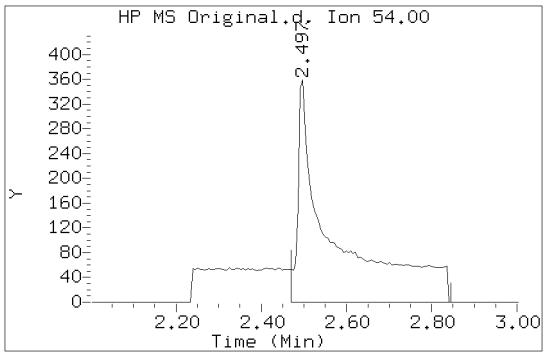
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



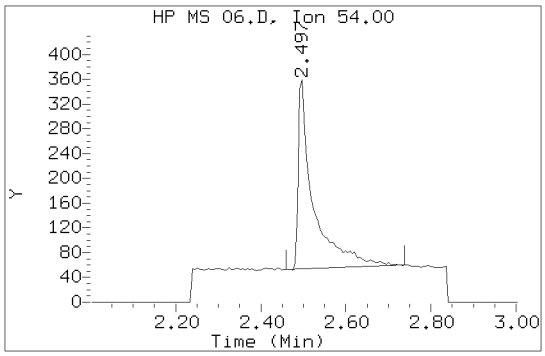
BEFORE

MASS
54
AREA
1999
HEIGHT
359
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
54
AREA
745
HEIGHT
305
28-May-2024
13:05

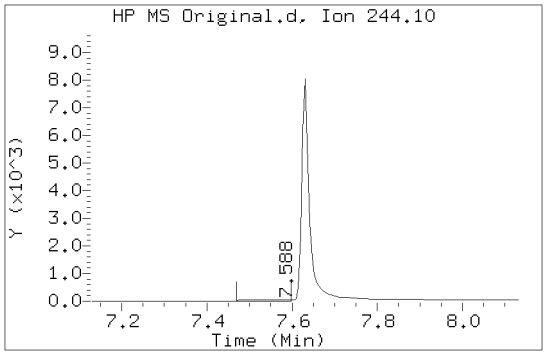


4-Terphenyl-d14 (1718-51-0)

Reason Code:

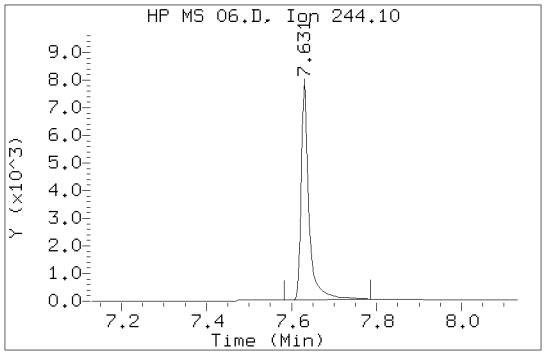
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
13:40
ALSHS
Server



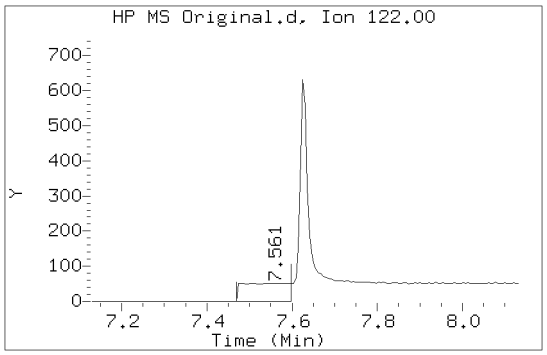
AFTER

MASS
244.1
AREA
10047
HEIGHT
7987
28-May-2024
13:05



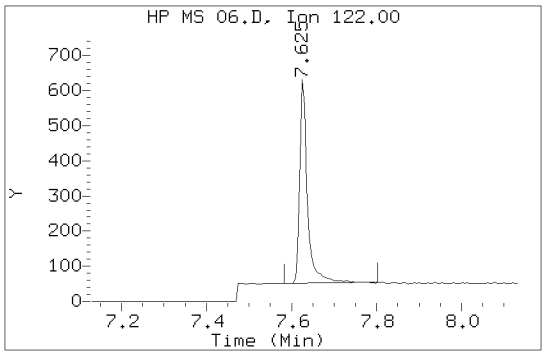
BEFORE

MASS
122
AREA
394
HEIGHT
52
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
122
AREA
741
HEIGHT
579
28-May-2024
13:05



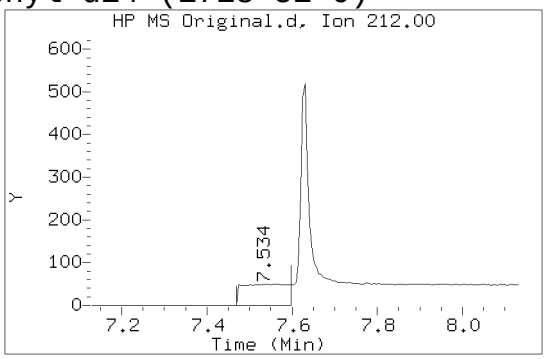
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

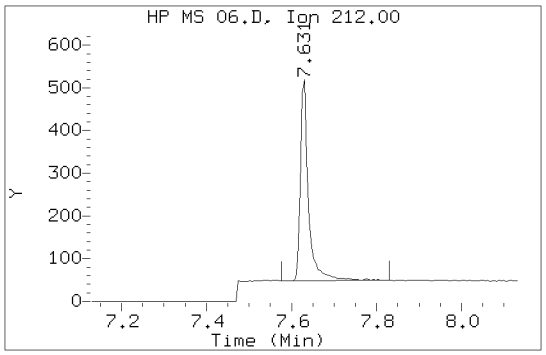
BEFORE

MASS
212
AREA
372
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
212
AREA
623
HEIGHT
470
28-May-2024
13:05

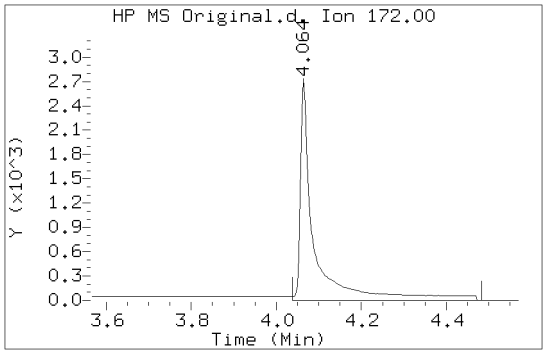


2-Fluorobiphenyl (321-60-8)

Reason Code:

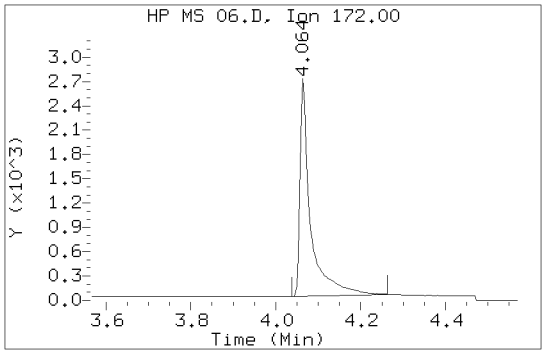
BEFORE

MASS
172
AREA
6214
HEIGHT
2735
18-Apr-2024
13:40
ALSHS
Server



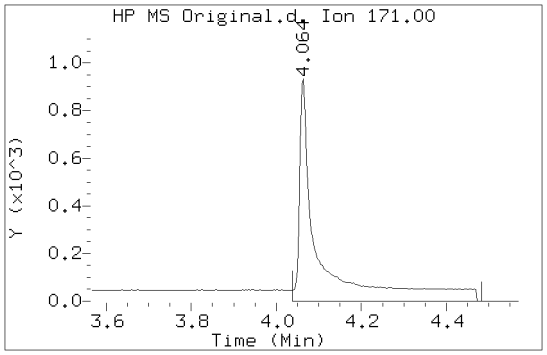
AFTER

MASS
172
AREA
4588
HEIGHT
2684
28-May-2024
13:05



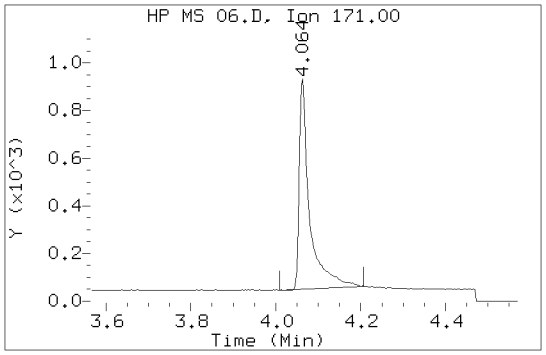
BEFORE

MASS
171
AREA
2920
HEIGHT
933
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
171
AREA
1481
HEIGHT
881
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Lab Smp Id: 14DX-0.10
Inj Date : 18-APR-2024 13:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:42 Cal File: 07.D
Als bottle: 7 Calibration Sample, Level: 5
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2318	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7718	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	2452	0.10000	0.1058(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	4530	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	7366	0.10000	0.1064(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	8772	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	7453	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	15672	0.10000	0.1032(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	7806	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	473	0.10000	0.09527(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.

01304665

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D

Date : 18-APR-2024 13:42

Client ID:

Instrument: SV6.i

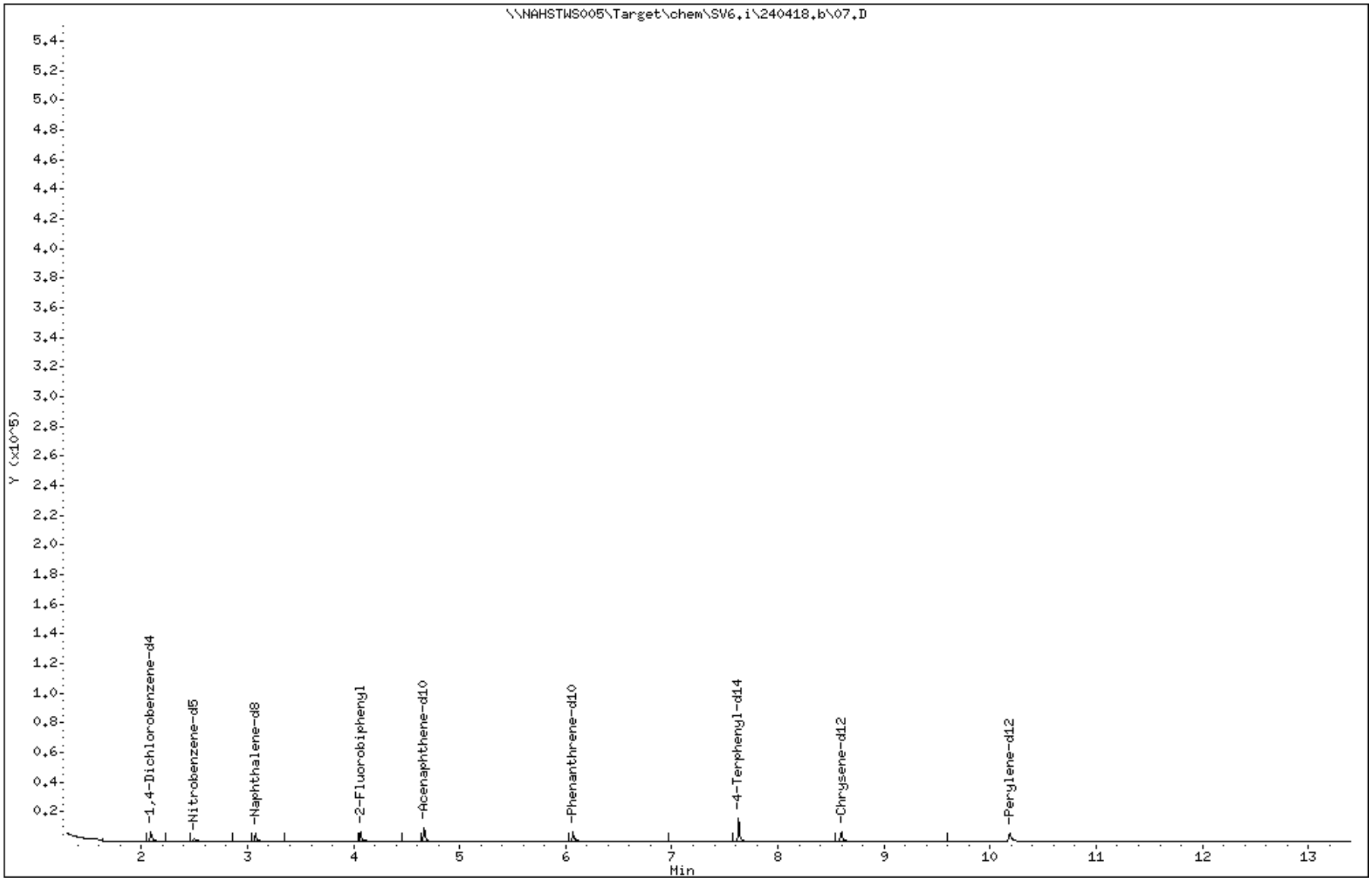
Sample Info: 14DX-0.10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

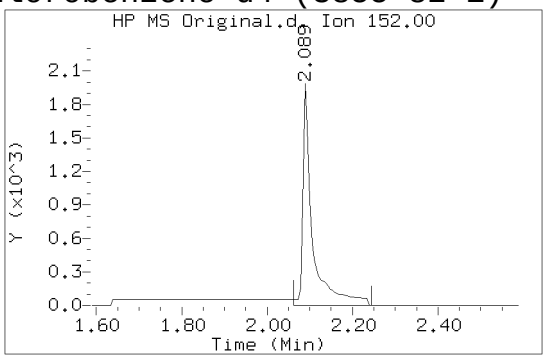


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

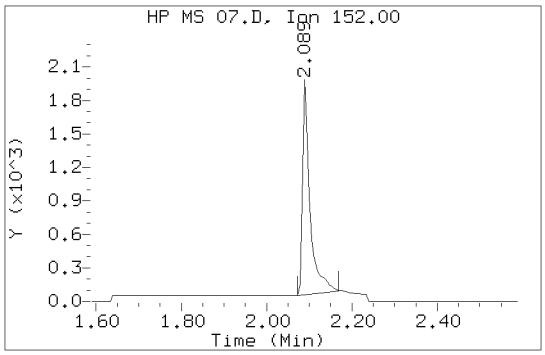
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

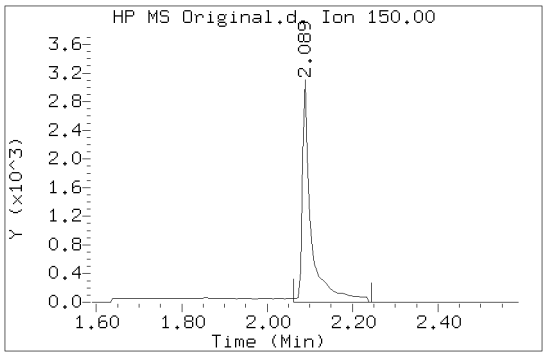
BEFORE
MASS
152
AREA
3091
HEIGHT
1986
18-Apr-2024
13:57
ALSHS
Server



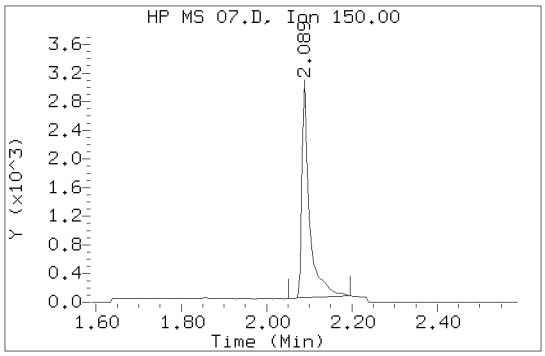
AFTER
MASS
152
AREA
2318
HEIGHT
1925
23-May-2024
08:54



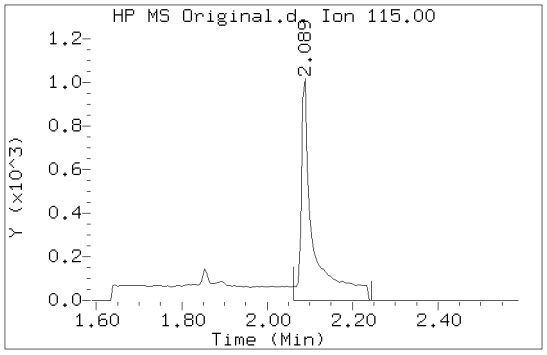
BEFORE
MASS
150
AREA
4519
HEIGHT
3105
18-Apr-2024
13:57
ALSHS
Server



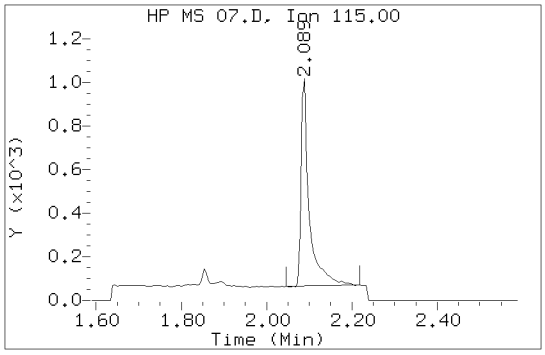
AFTER
MASS
150
AREA
3766
HEIGHT
3045
23-May-2024
08:54



BEFORE
MASS
115
AREA
1993
HEIGHT
1016
18-Apr-2024
13:57
ALSHS
Server



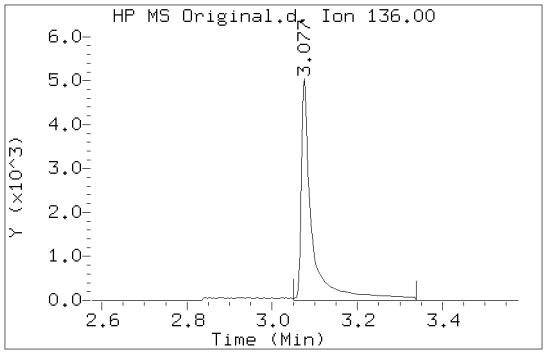
AFTER
MASS
115
AREA
1271
HEIGHT
950
23-May-2024
08:54



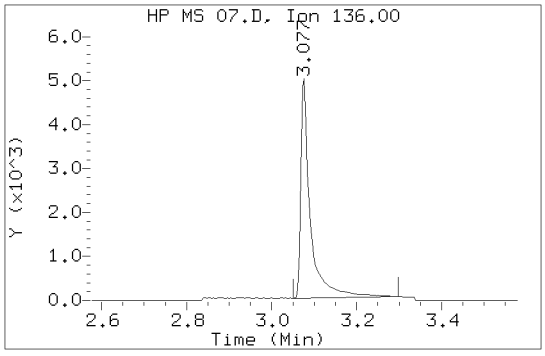
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8891
HEIGHT
5045
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
136
AREA
7718
HEIGHT
4990
23-May-2024
08:54



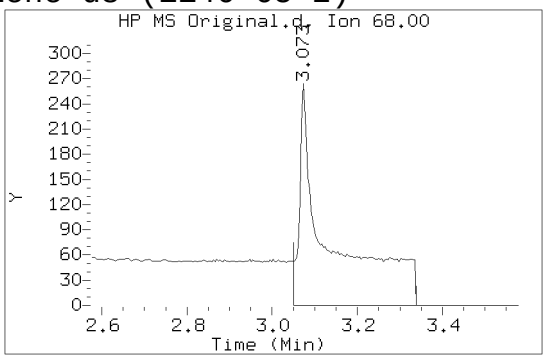
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

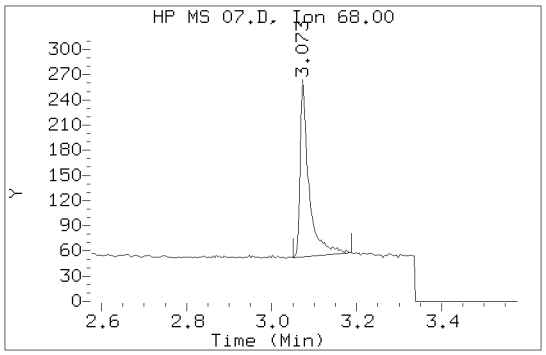
BEFORE

MASS
68
AREA
1251
HEIGHT
264
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
68
AREA
296
HEIGHT
211
23-May-2024
08:54

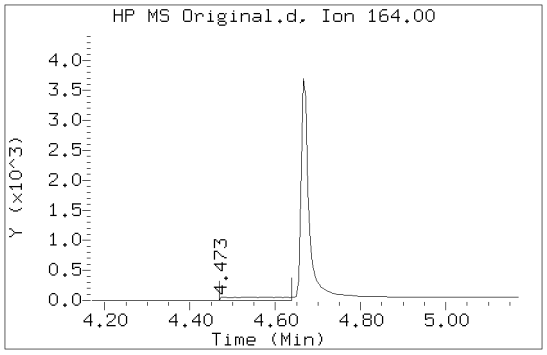


Acenaphthene-d10 (15067-26-2)

Reason Code:

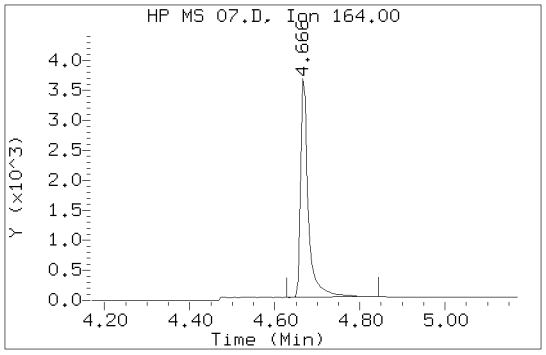
BEFORE

MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



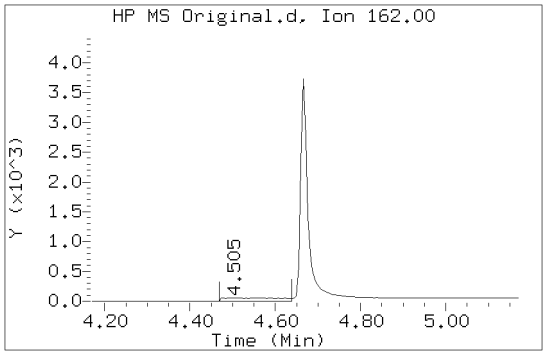
AFTER

MASS
164
AREA
4530
HEIGHT
3643
23-May-2024
08:54



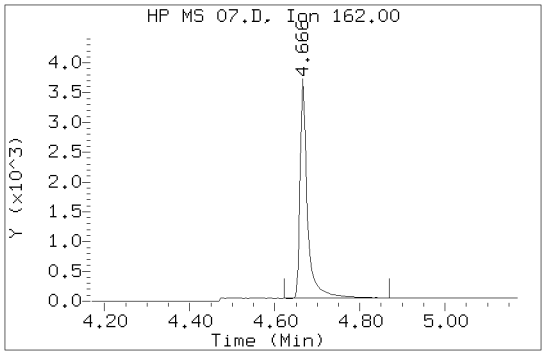
BEFORE

MASS
162
AREA
500
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



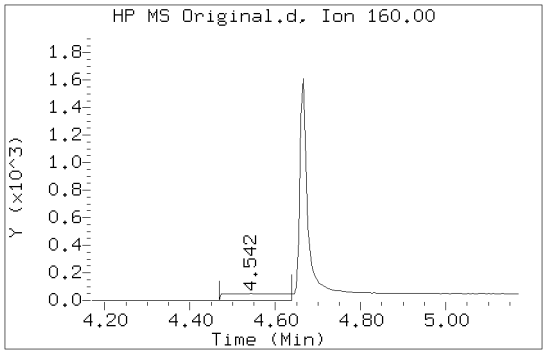
AFTER

MASS
162
AREA
4355
HEIGHT
3679
23-May-2024
08:54



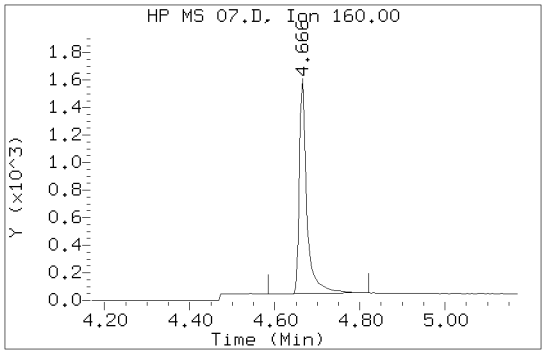
BEFORE

MASS
160
AREA
483
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
160
AREA
1883
HEIGHT
1560
23-May-2024
08:54



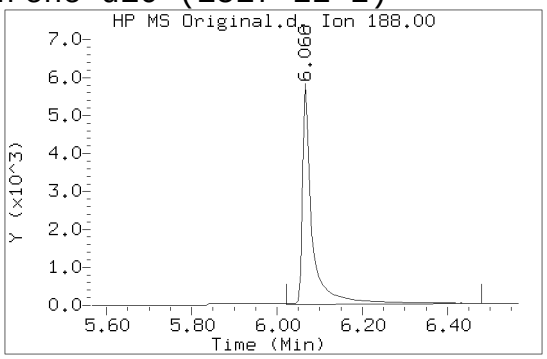
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Phenanthrene-d10 (1517-22-2)

Reason Code:

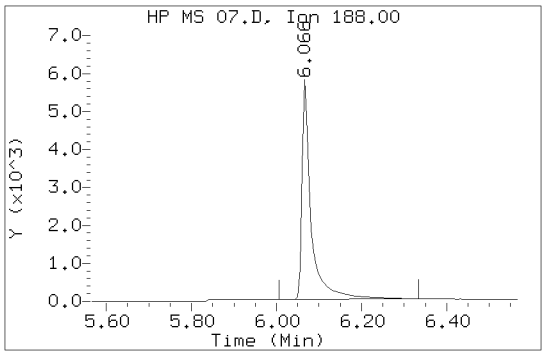
BEFORE

MASS
188
AREA
9529
HEIGHT
5821
18-Apr-2024
13:57
ALSHS
Server



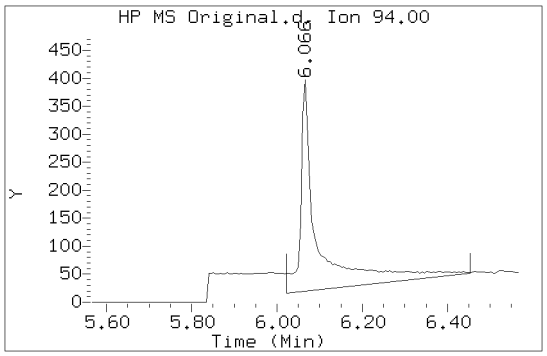
AFTER

MASS
188
AREA
8772
HEIGHT
5788
23-May-2024
08:54



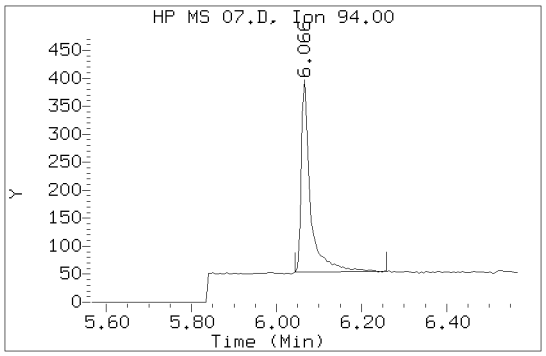
BEFORE

MASS
94
AREA
1042
HEIGHT
377
18-Apr-2024
13:57
ALSHS
Server



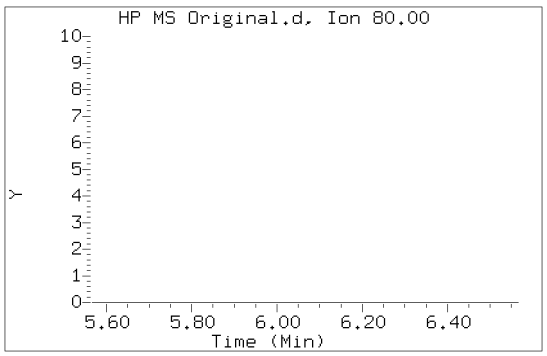
AFTER

MASS
94
AREA
518
HEIGHT
342
23-May-2024
08:54



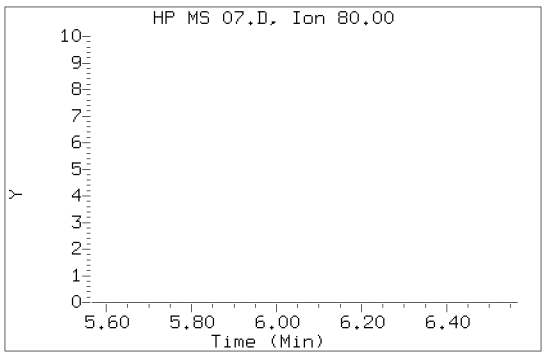
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

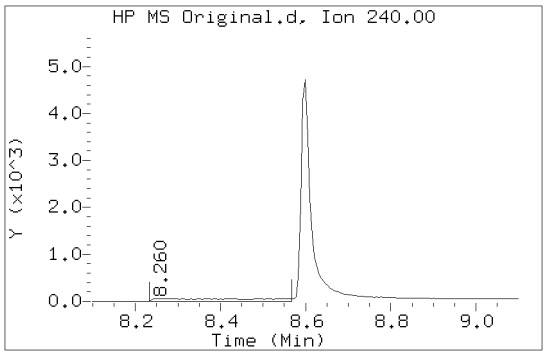


Chrysene-d12 (1719-03-5)

Reason Code:

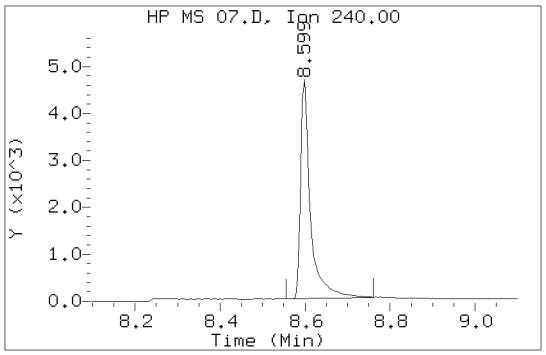
BEFORE

MASS
240
AREA
957
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
240
AREA
7453
HEIGHT
4662
23-May-2024
08:54



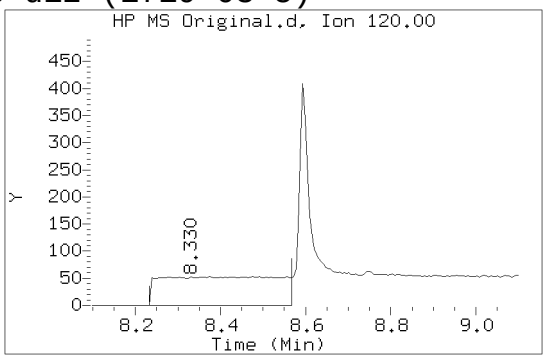
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Chrysene-d12 (1719-03-5)

Reason Code:

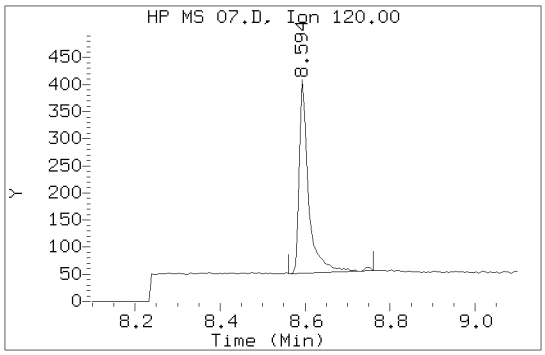
BEFORE

MASS
120
AREA
1029
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



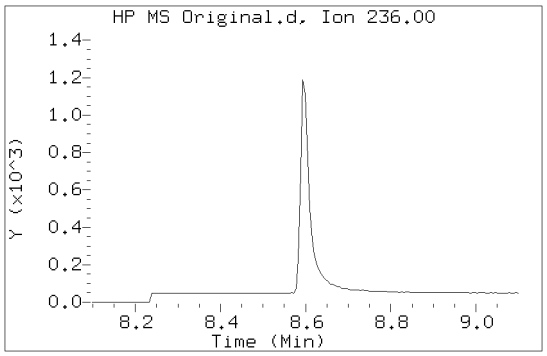
AFTER

MASS
120
AREA
541
HEIGHT
357
23-May-2024
08:54



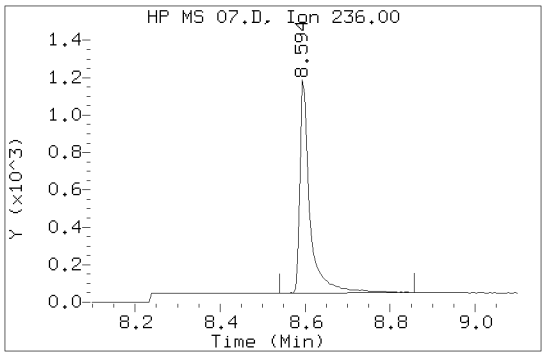
BEFORE

MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
236
AREA
1875
HEIGHT
1139
23-May-2024
08:54

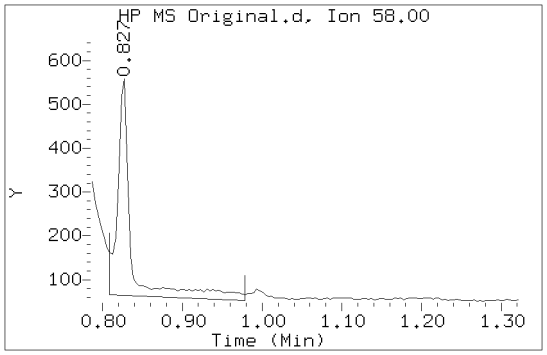


1,4-Dioxane ()

Reason Code:

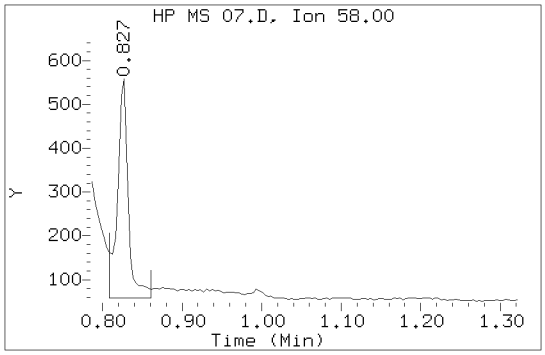
BEFORE

MASS
58
AREA
589
HEIGHT
493
18-Apr-2024
13:57
ALSHS
Server



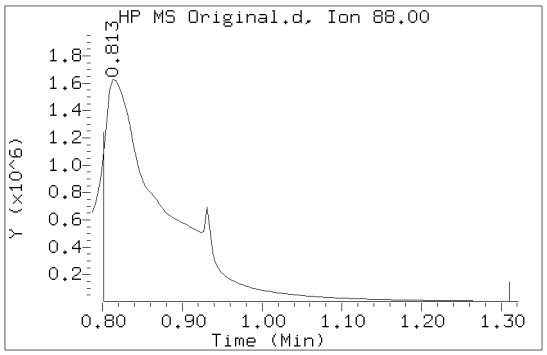
AFTER

MASS
58
AREA
473
HEIGHT
499
23-May-2024
08:54



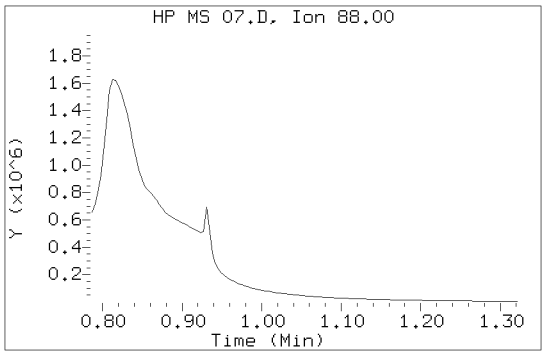
BEFORE

MASS
88
AREA
8266937
HEIGHT
1620371
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
88
AREA
8281553
HEIGHT
1620838
23-May-2024
08:54

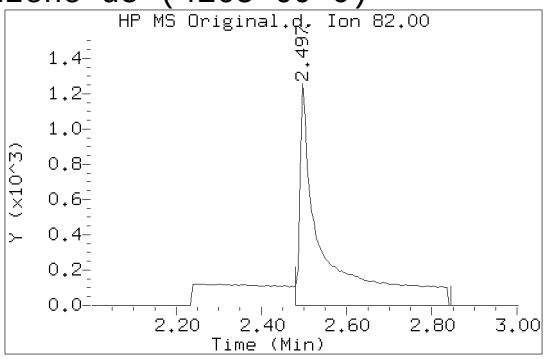


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

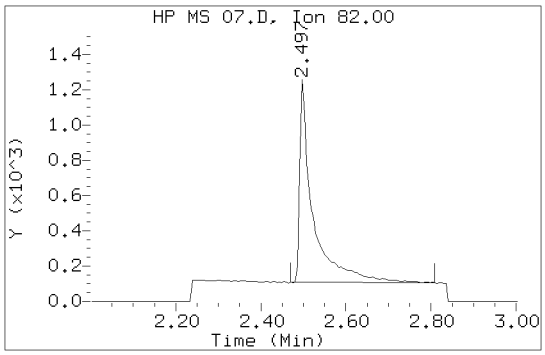
Nitrobenzene-d5 (4165-60-0)

Reason Code:

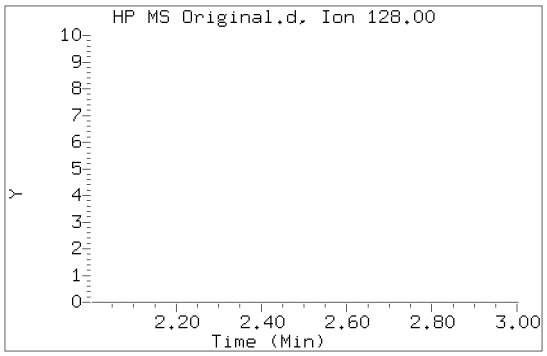
BEFORE
MASS
82
AREA
4733
HEIGHT
1257
18-Apr-2024
13:57
ALSHS
Server



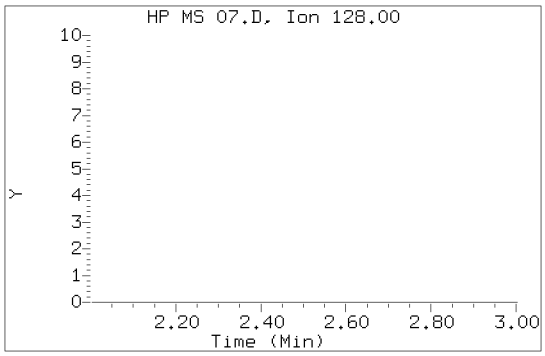
AFTER
MASS
82
AREA
2452
HEIGHT
1148
23-May-2024
08:54



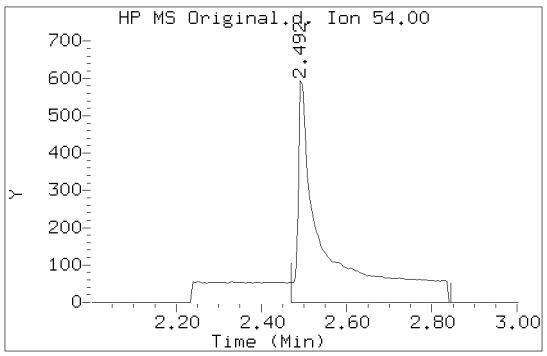
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



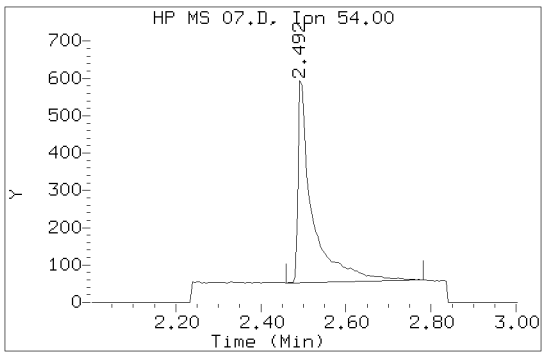
AFTER
MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



BEFORE
MASS
54
AREA
2506
HEIGHT
594
18-Apr-2024
13:57
ALSHS
Server



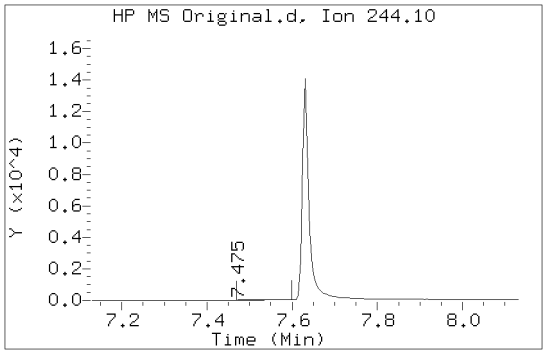
AFTER
MASS
54
AREA
1263
HEIGHT
541
23-May-2024
08:54



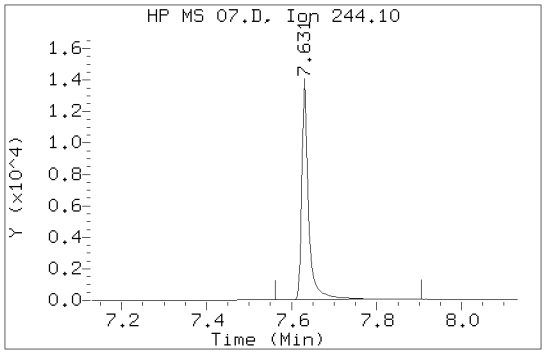
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
172
HEIGHT
45
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
244.1
AREA
15672
HEIGHT
14035
23-May-2024
08:54



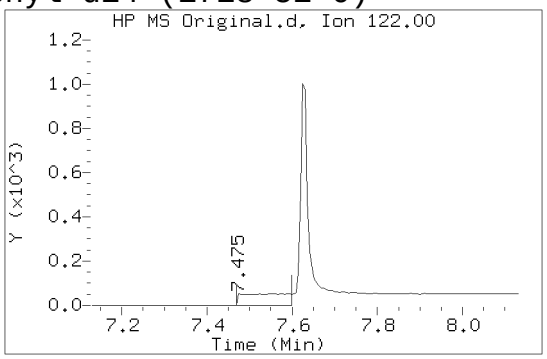
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

4-Terphenyl-d14 (1718-51-0)

Reason Code:

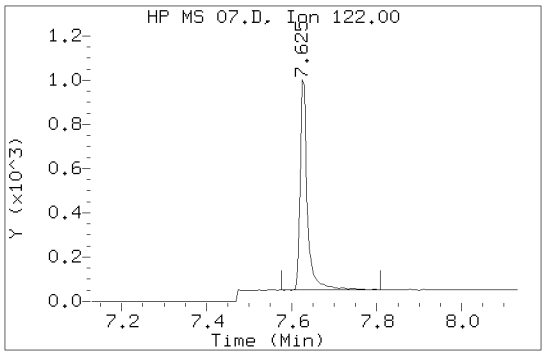
BEFORE

MASS
122
AREA
389
HEIGHT
51
18-Apr-2024
13:57
ALSHS
Server



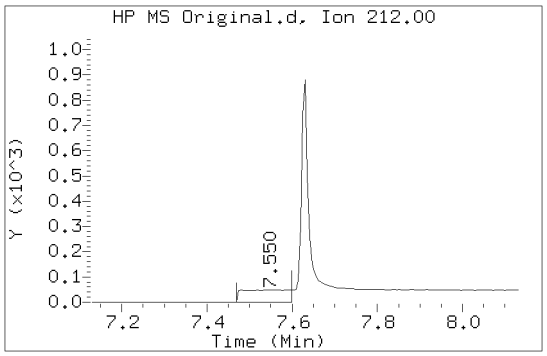
AFTER

MASS
122
AREA
1143
HEIGHT
950
23-May-2024
08:54



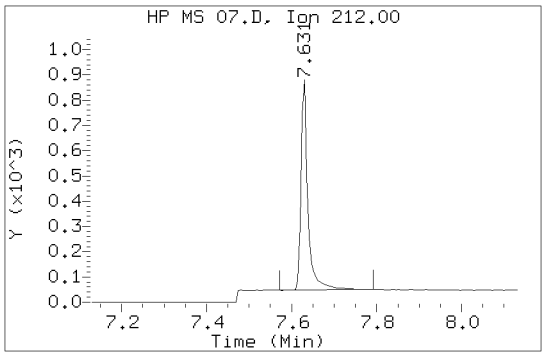
BEFORE

MASS
212
AREA
368
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
212
AREA
942
HEIGHT
831
23-May-2024
08:54

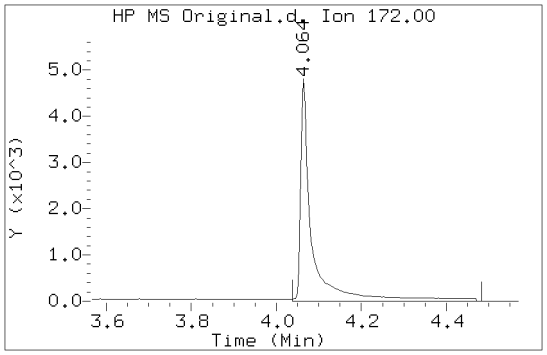


2-Fluorobiphenyl (321-60-8)

Reason Code:

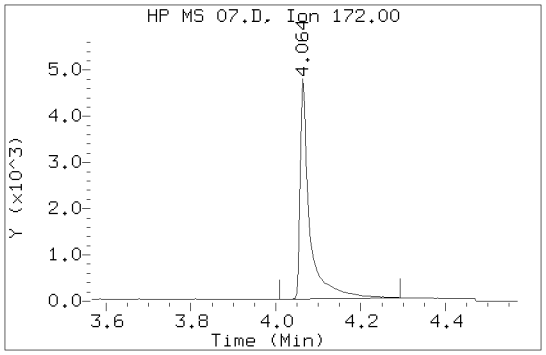
BEFORE

MASS
172
AREA
9042
HEIGHT
4809
18-Apr-2024
13:57
ALSHS
Server



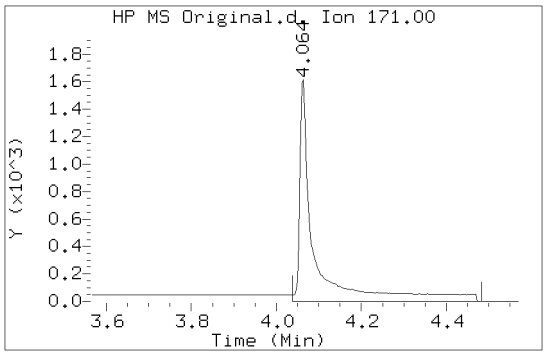
AFTER

MASS
172
AREA
7366
HEIGHT
4757
23-May-2024
08:54



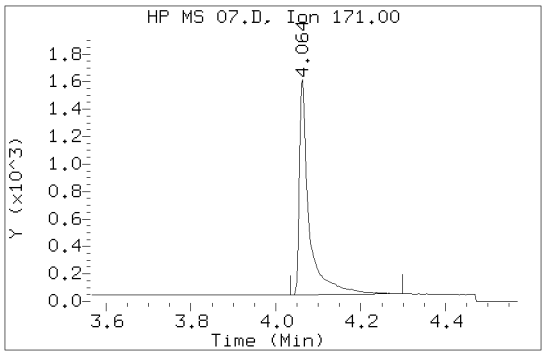
BEFORE

MASS
171
AREA
3879
HEIGHT
1615
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
171
AREA
2501
HEIGHT
1566
23-May-2024
08:54



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Lab Smp Id: 14DX-0.15
Inj Date : 18-APR-2024 14:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:00 Cal File: 08.D
Als bottle: 8 Calibration Sample, Level: 6
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3084	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9604	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	4499	0.15000	0.1560(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5448	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	13067	0.15000	0.1569(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	10645	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	8954	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	27519	0.15000	0.1509(AM)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	9228	0.10000	
1 1,4-Dioxane	58	0.842	0.820	(0.402)	984	0.15000	0.1490(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.

01304673

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D

Date : 18-APR-2024 14:00

Client ID:

Instrument: SV6.i

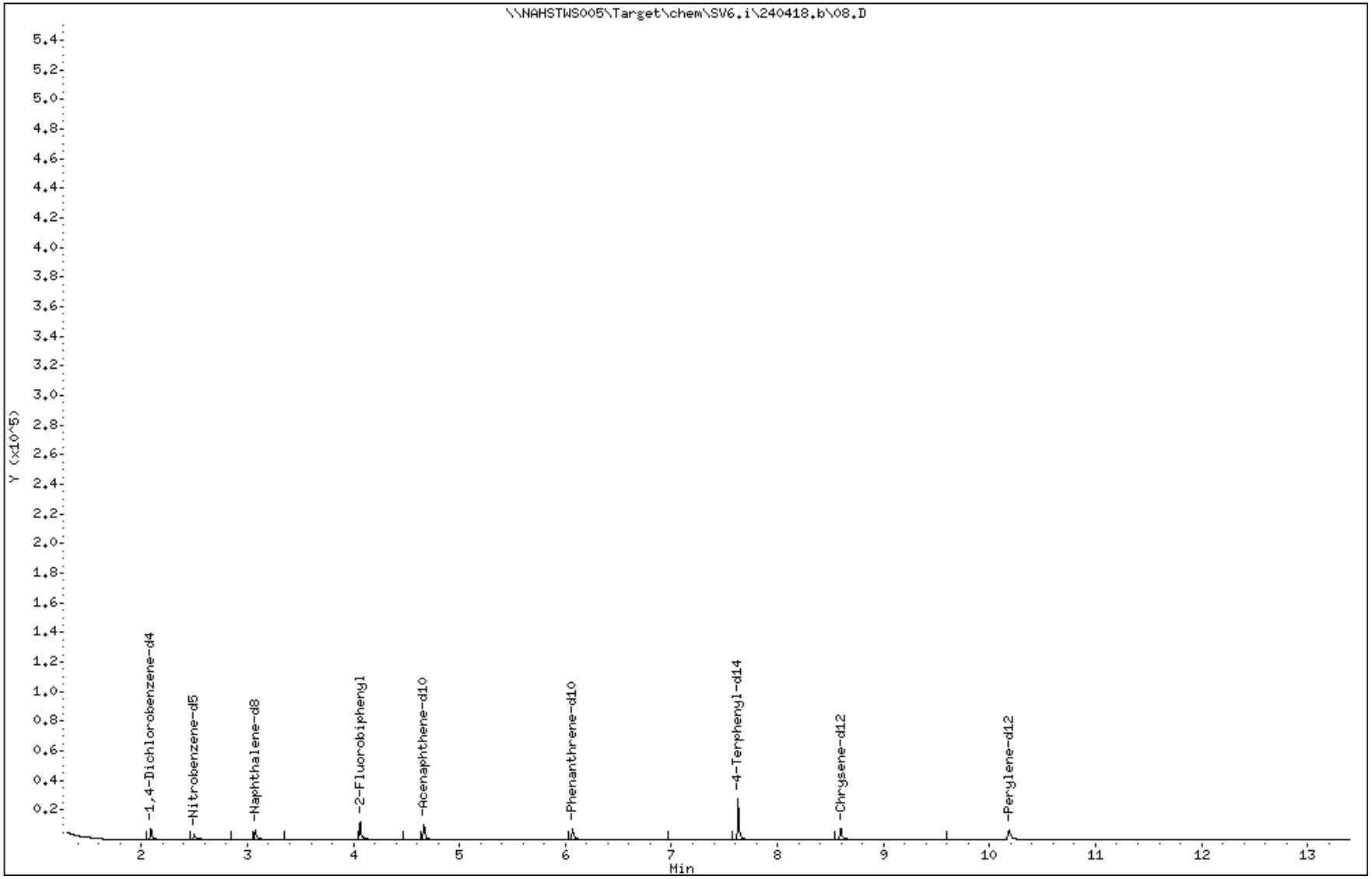
Sample Info: 14DX-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

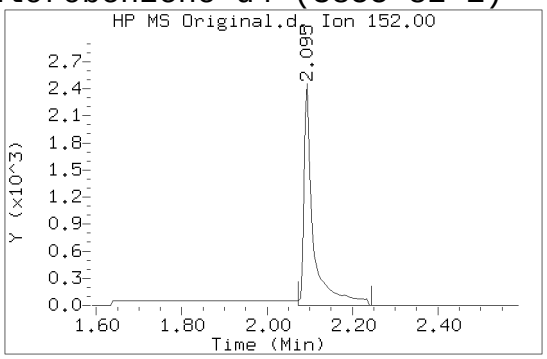


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

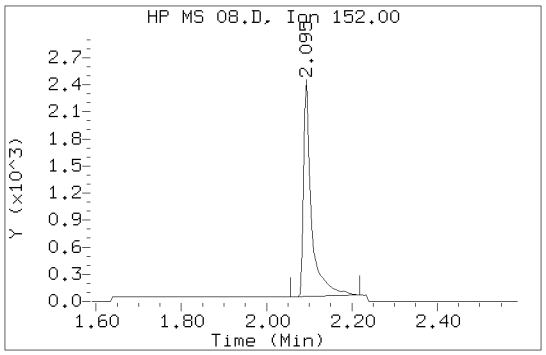
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

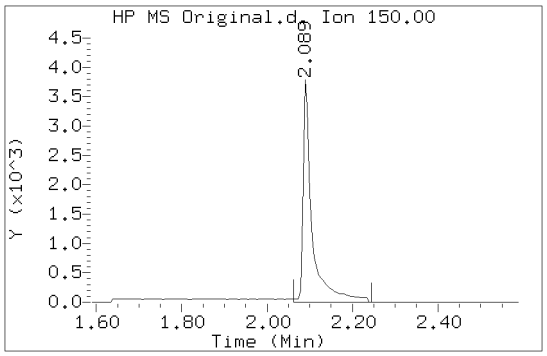
BEFORE
MASS
152
AREA
3705
HEIGHT
2456
18-Apr-2024
14:16
ALSHS
Server



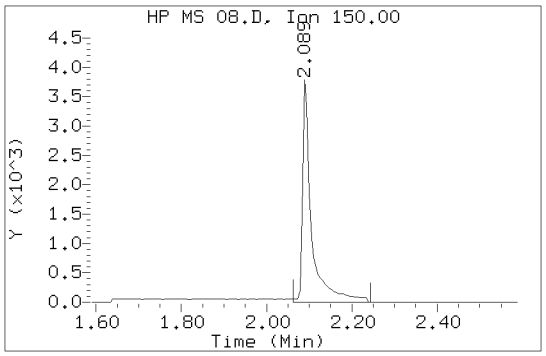
AFTER
MASS
152
AREA
3084
HEIGHT
2400
28-May-2024
13:05



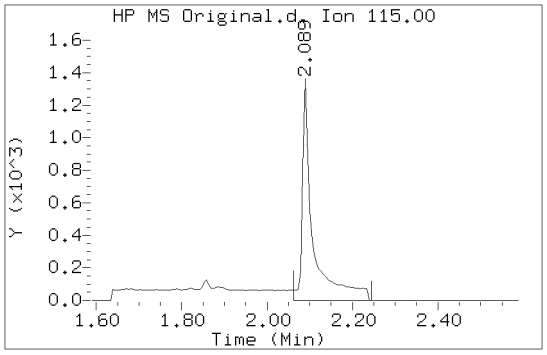
BEFORE
MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
14:16
ALSHS
Server



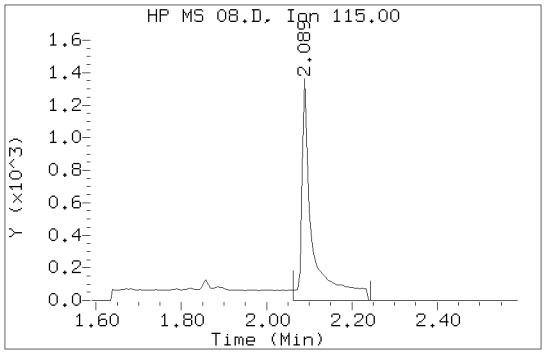
AFTER
MASS
150
AREA
5535
HEIGHT
3786
28-May-2024
13:05



BEFORE
MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
14:16
ALSHS
Server



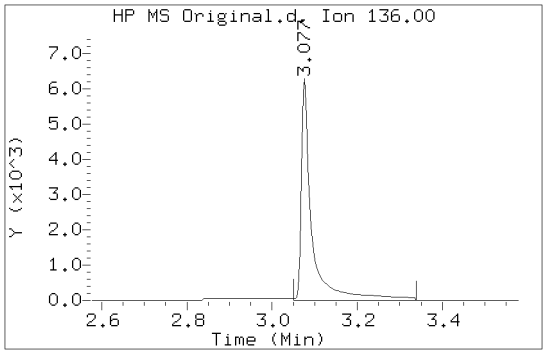
AFTER
MASS
115
AREA
2326
HEIGHT
1363
28-May-2024
13:05



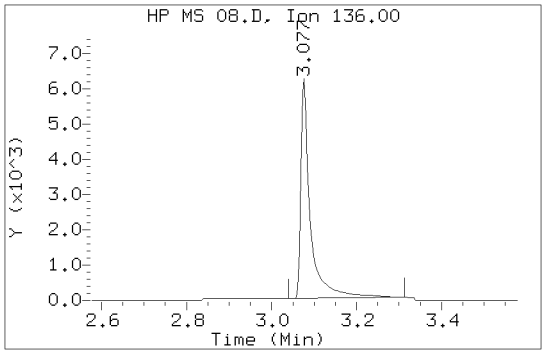
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10787
HEIGHT
6291
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
136
AREA
9604
HEIGHT
6235
28-May-2024
13:05



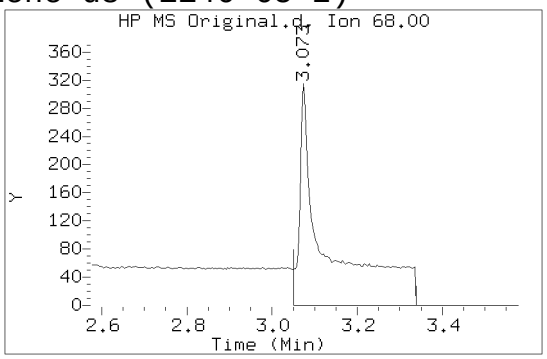
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

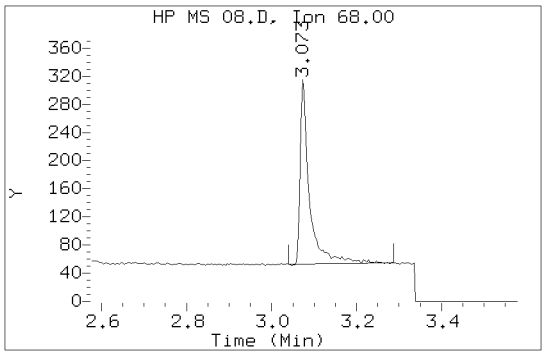
BEFORE

MASS
68
AREA
1324
HEIGHT
315
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
68
AREA
389
HEIGHT
261
28-May-2024
13:05

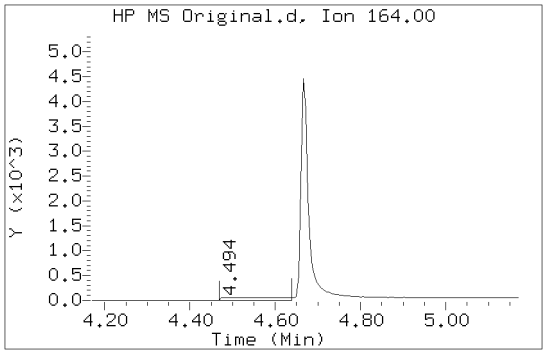


Acenaphthene-d10 (15067-26-2)

Reason Code:

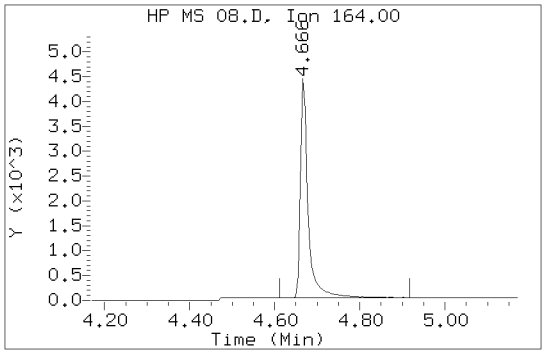
BEFORE

MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
14:16
ALSHS
Server



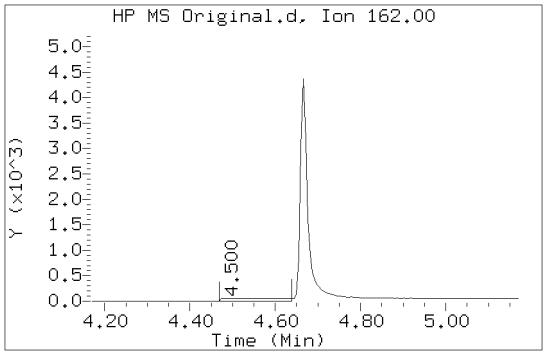
AFTER

MASS
164
AREA
5448
HEIGHT
4411
28-May-2024
13:05



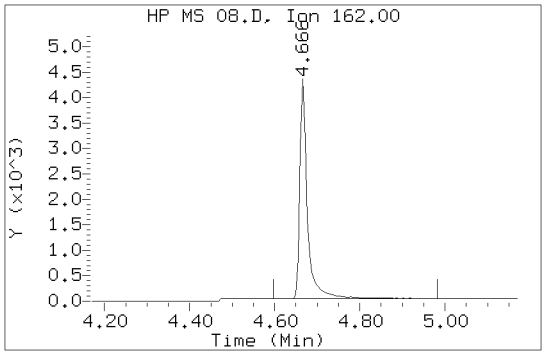
BEFORE

MASS
162
AREA
496
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



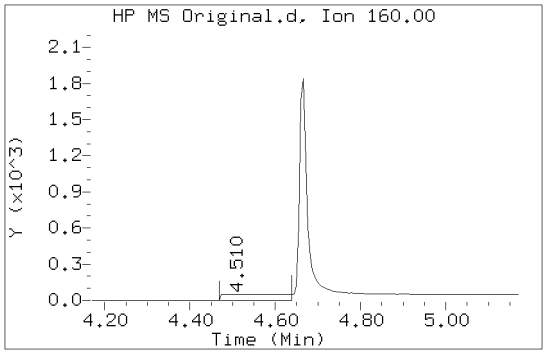
AFTER

MASS
162
AREA
5277
HEIGHT
4319
28-May-2024
13:05



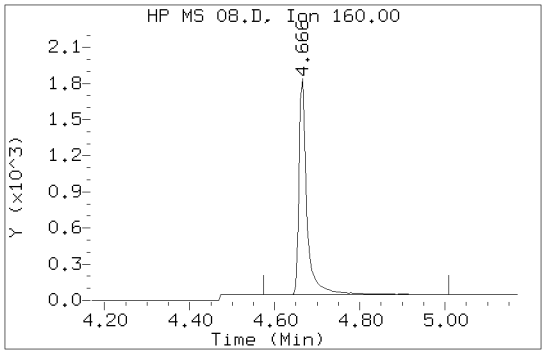
BEFORE

MASS
160
AREA
482
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
160
AREA
2305
HEIGHT
1792
28-May-2024
13:05



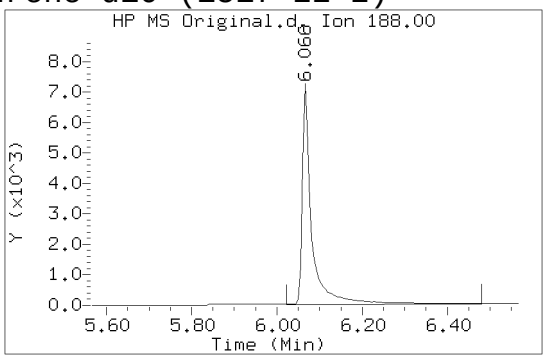
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Phenanthrene-d10 (1517-22-2)

Reason Code:

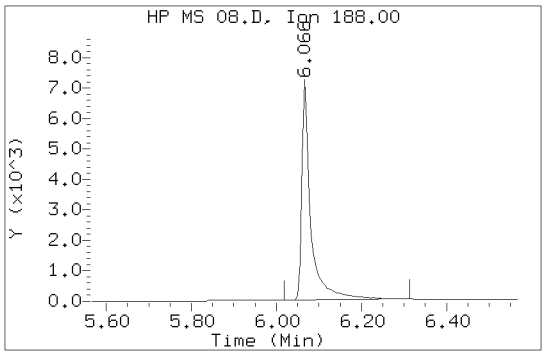
BEFORE

MASS
188
AREA
11494
HEIGHT
7257
18-Apr-2024
14:16
ALSHS
Server



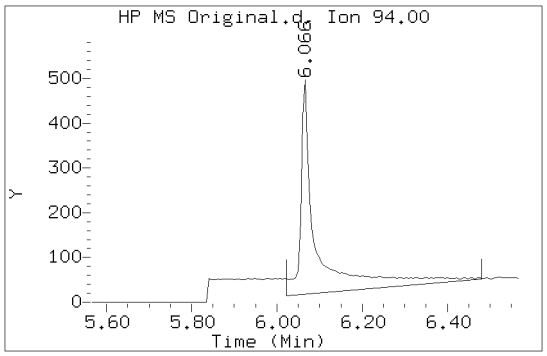
AFTER

MASS
188
AREA
10645
HEIGHT
7224
28-May-2024
13:05



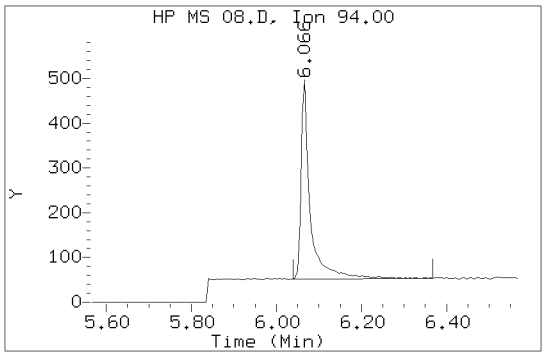
BEFORE

MASS
94
AREA
1207
HEIGHT
478
18-Apr-2024
14:16
ALSHS
Server



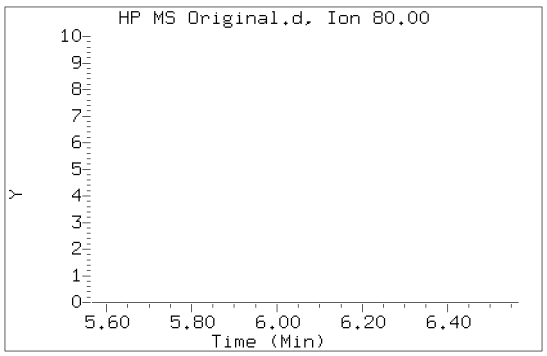
AFTER

MASS
94
AREA
674
HEIGHT
444
28-May-2024
13:05



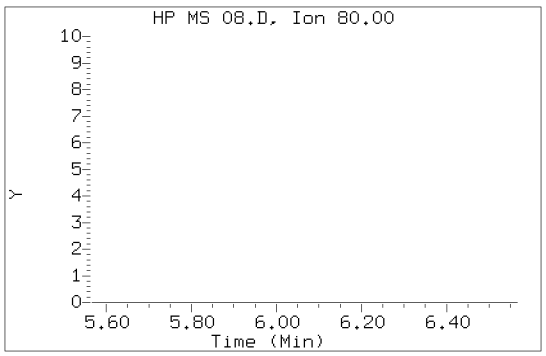
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

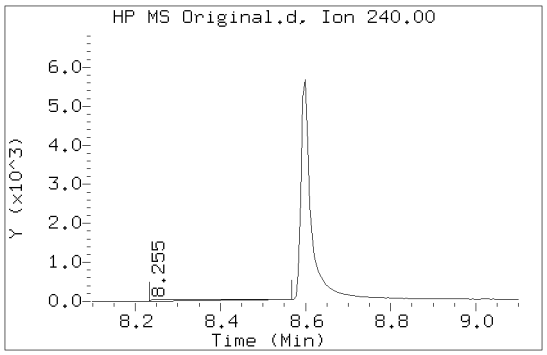


Chrysene-d12 (1719-03-5)

Reason Code:

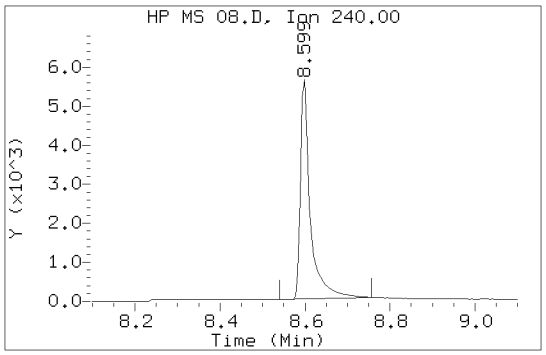
BEFORE

MASS
240
AREA
453
HEIGHT
46
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
240
AREA
8954
HEIGHT
5618
28-May-2024
13:05



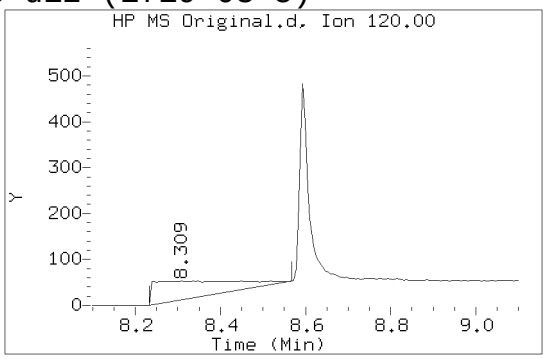
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

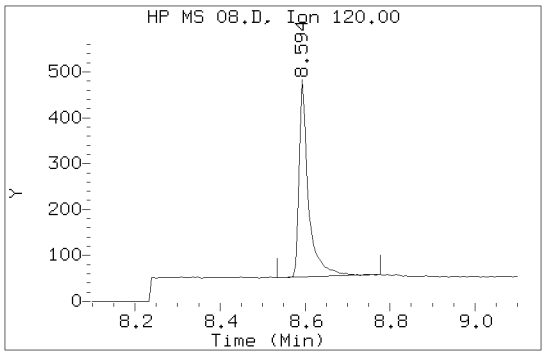
BEFORE

MASS
120
AREA
491
HEIGHT
41
18-Apr-2024
14:16
ALSHS
Server



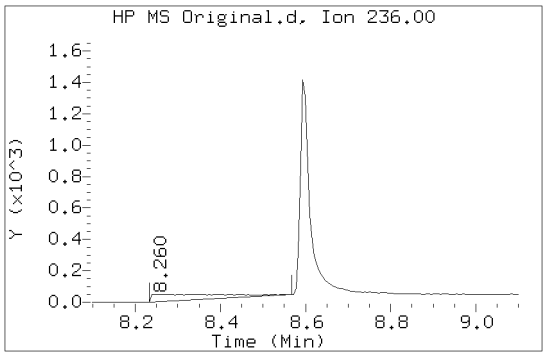
AFTER

MASS
120
AREA
640
HEIGHT
429
28-May-2024
13:05



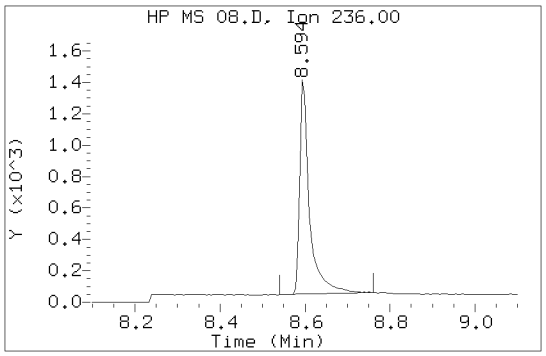
BEFORE

MASS
236
AREA
459
HEIGHT
45
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
236
AREA
2175
HEIGHT
1364
28-May-2024
13:05

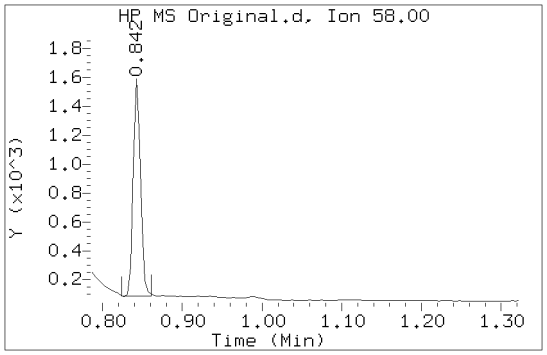


1,4-Dioxane ()

Reason Code:

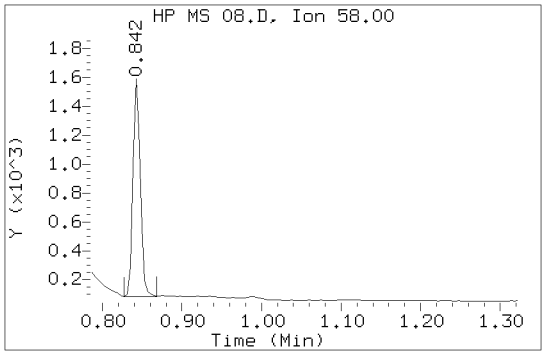
BEFORE

MASS
58
AREA
972
HEIGHT
1502
18-Apr-2024
14:16
ALSHS
Server



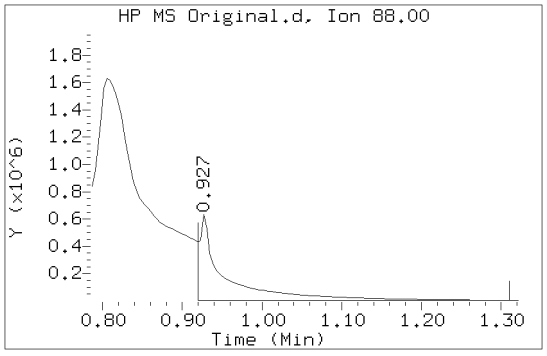
AFTER

MASS
58
AREA
984
HEIGHT
1506
28-May-2024
13:05



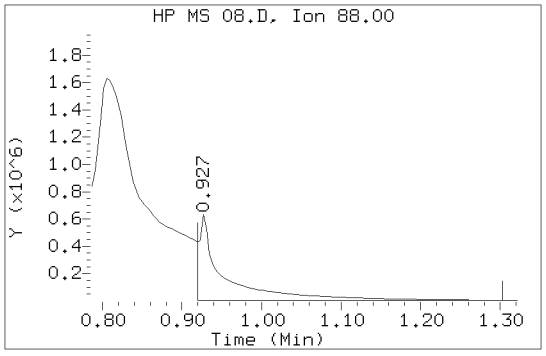
BEFORE

MASS
88
AREA
1391687
HEIGHT
630804
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
88
AREA
1385982
HEIGHT
630559
28-May-2024
13:05



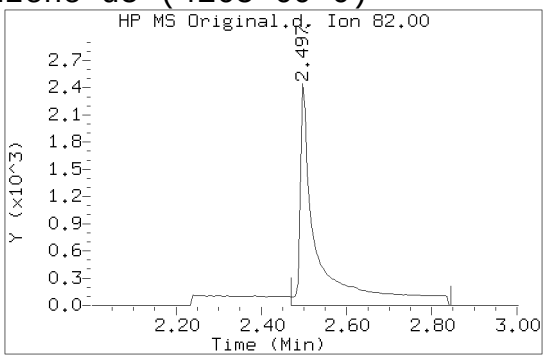
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Nitrobenzene-d5 (4165-60-0)

Reason Code:

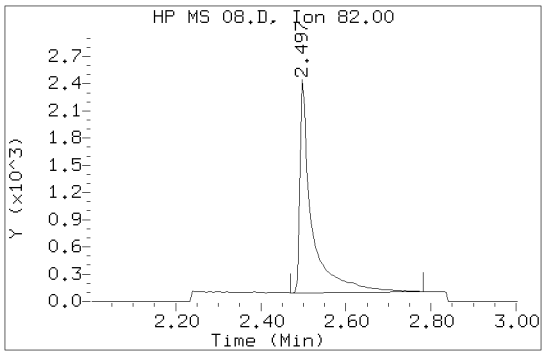
BEFORE

MASS
82
AREA
6726
HEIGHT
2444
18-Apr-2024
14:16
ALSHS
Server



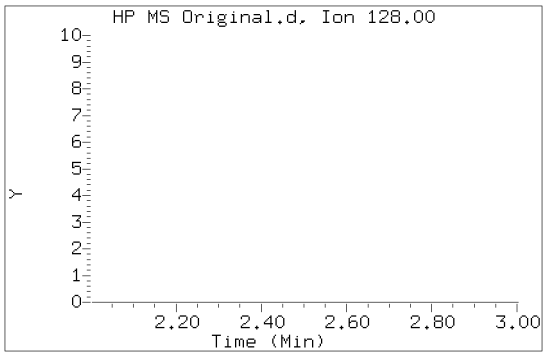
AFTER

MASS
82
AREA
4499
HEIGHT
2348
28-May-2024
13:05



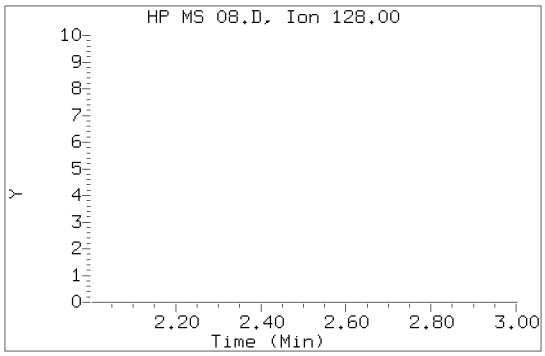
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



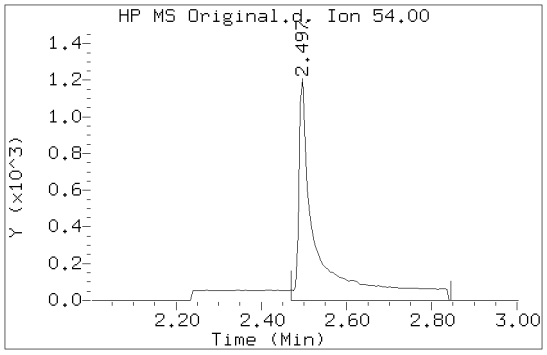
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



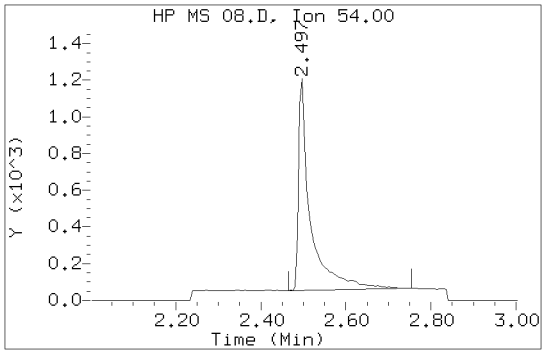
BEFORE

MASS
54
AREA
3552
HEIGHT
1208
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
54
AREA
2217
HEIGHT
1153
28-May-2024
13:05

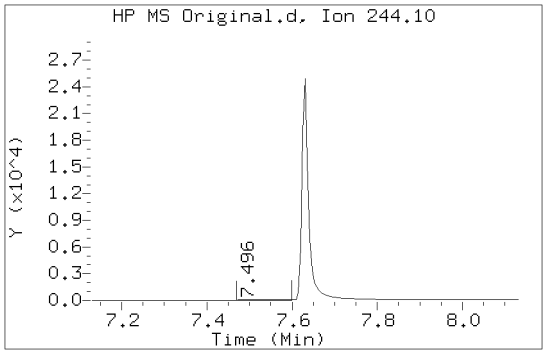


4-Terphenyl-d14 (1718-51-0)

Reason Code:

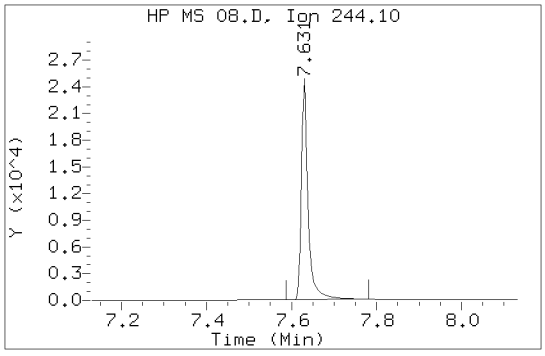
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
244.1
AREA
27519
HEIGHT
24848
28-May-2024
13:05



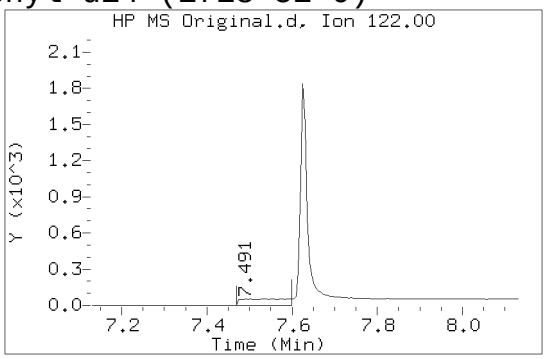
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

4-Terphenyl-d14 (1718-51-0)

Reason Code:

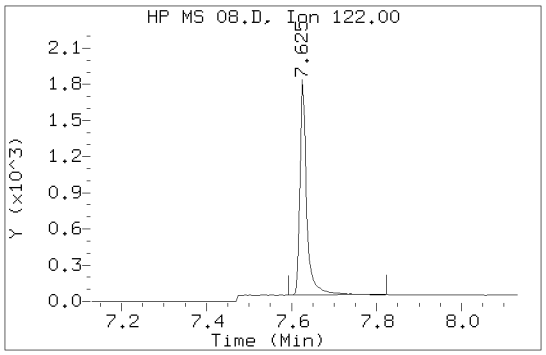
BEFORE

MASS
122
AREA
391
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



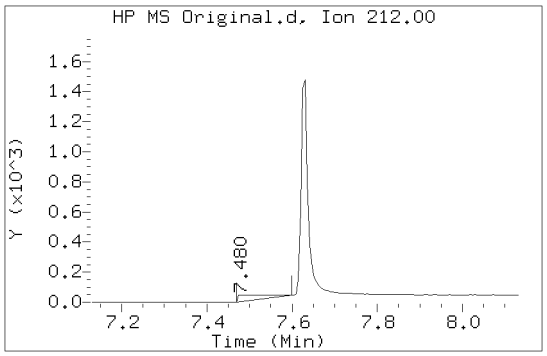
AFTER

MASS
122
AREA
2002
HEIGHT
1786
28-May-2024
13:05



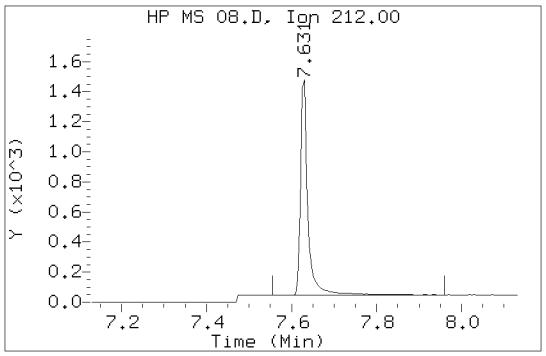
BEFORE

MASS
212
AREA
175
HEIGHT
44
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
212
AREA
1733
HEIGHT
1429
28-May-2024
13:05

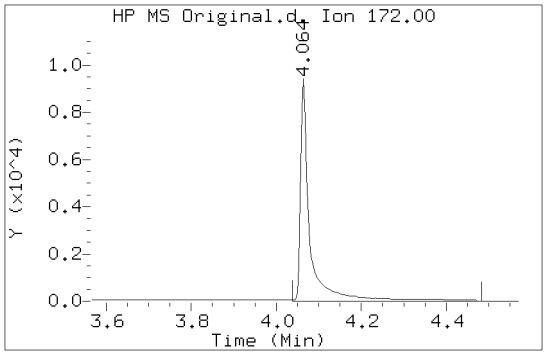


2-Fluorobiphenyl (321-60-8)

Reason Code:

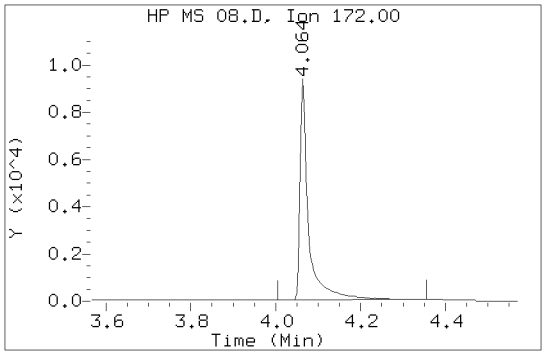
BEFORE

MASS
172
AREA
14843
HEIGHT
9413
18-Apr-2024
14:16
ALSHS
Server



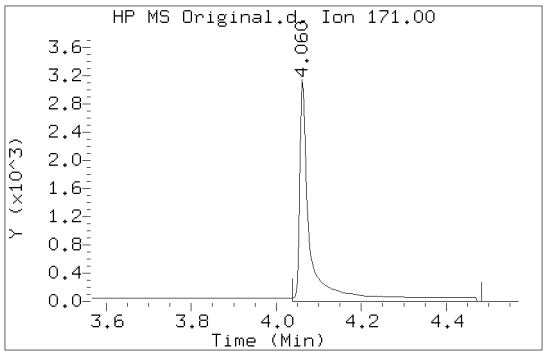
AFTER

MASS
172
AREA
13067
HEIGHT
9360
28-May-2024
13:05



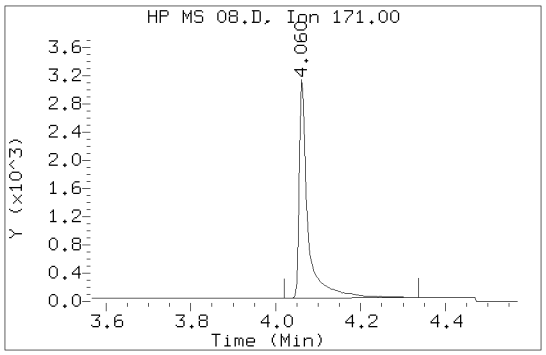
BEFORE

MASS
171
AREA
5828
HEIGHT
3145
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
171
AREA
4411
HEIGHT
3096
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Lab Smp Id: 14DX-0.20
Inj Date : 18-APR-2024 14:18
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:18 Cal File: 09.D
Als bottle: 9 Calibration Sample, Level: 7
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2896	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9147	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	5927	0.20000	0.2158(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5593	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	17331	0.20000	0.2027(AM)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10775	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9063	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	39718	0.20000	0.2151(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8962	0.10000	(M)
1 1,4-Dioxane	58	0.845	0.820	(0.404)	1268	0.20000	0.2044(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.

01304681

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D

Date : 18-APR-2024 14:18

Client ID:

Instrument: SV6.i

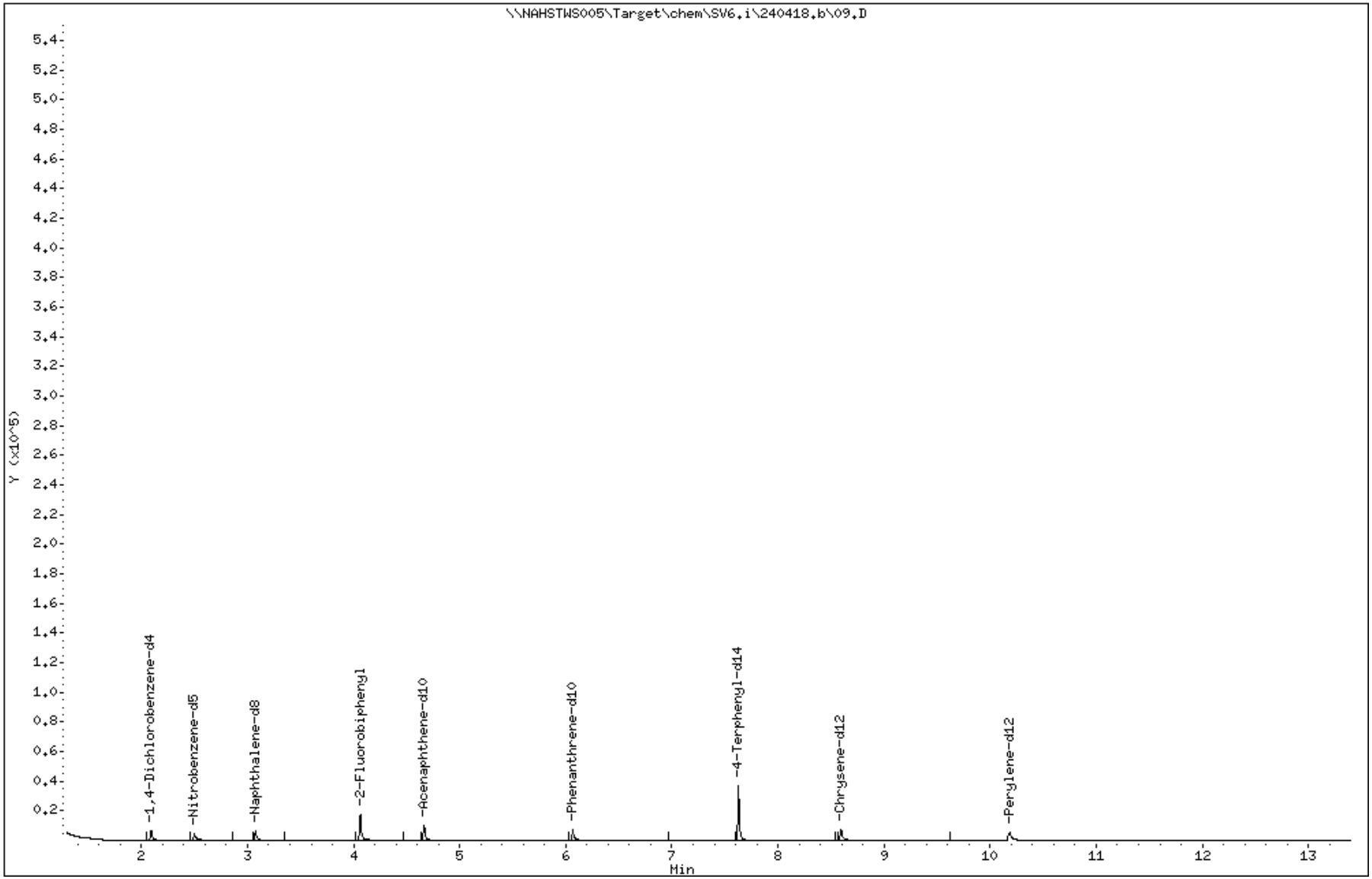
Sample Info: 14DX-0.20

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



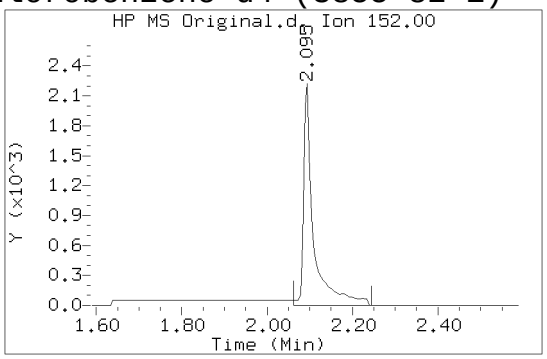
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

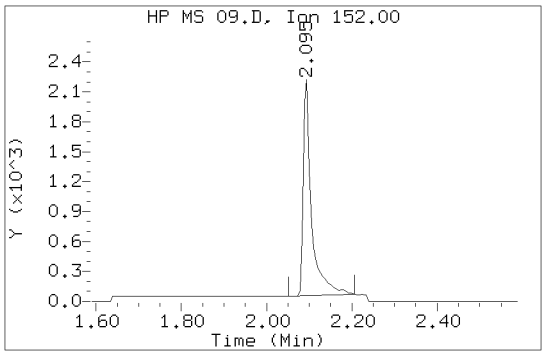
BEFORE

MASS
152
AREA
3565
HEIGHT
2222
18-Apr-2024
14:31
ALSHS
Server



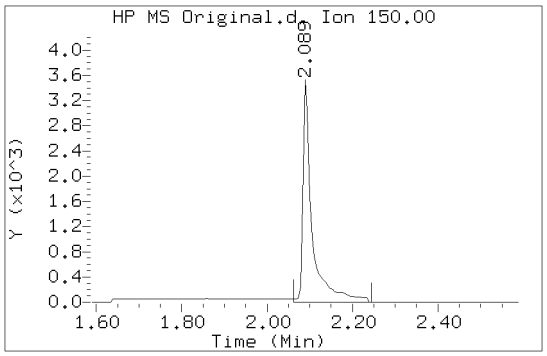
AFTER

MASS
152
AREA
2896
HEIGHT
2165
23-May-2024
08:54



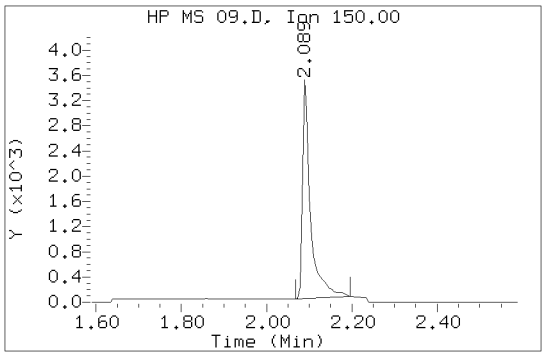
BEFORE

MASS
150
AREA
5268
HEIGHT
3527
18-Apr-2024
14:31
ALSHS
Server



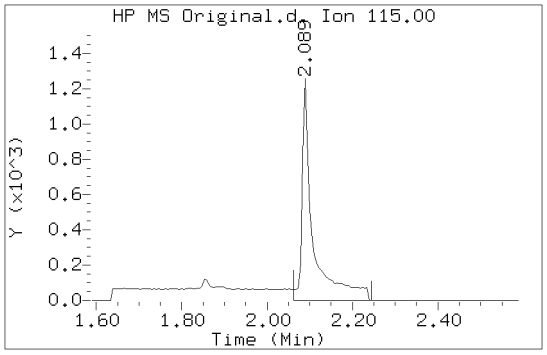
AFTER

MASS
150
AREA
4498
HEIGHT
3469
23-May-2024
08:54



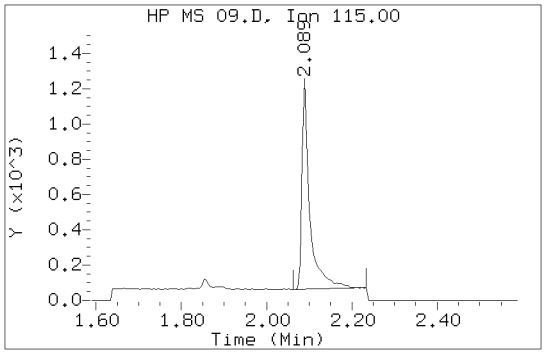
BEFORE

MASS
115
AREA
2227
HEIGHT
1257
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
115
AREA
1525
HEIGHT
1194
23-May-2024
08:54

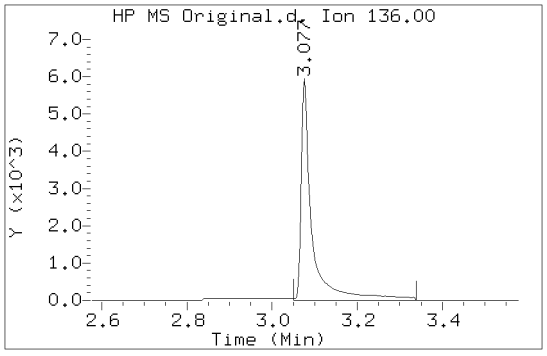


Naphthalene-d8 (1146-65-2)

Reason Code:

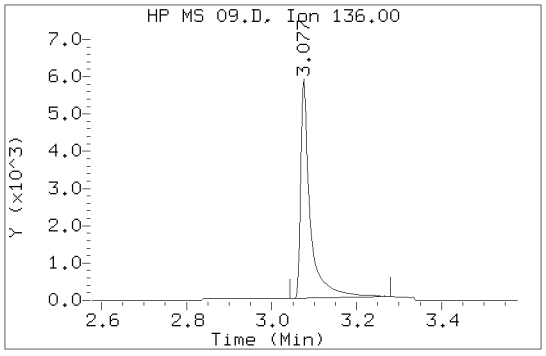
BEFORE

MASS
136
AREA
10466
HEIGHT
5947
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
136
AREA
9147
HEIGHT
5889
23-May-2024
08:54



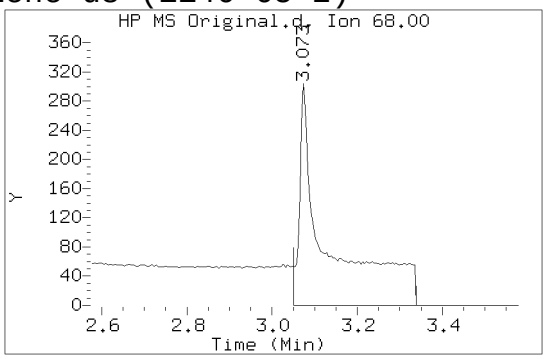
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Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Naphthalene-d8 (1146-65-2)

Reason Code:

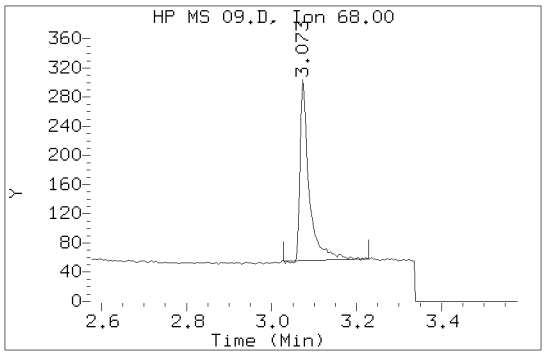
BEFORE

MASS
68
AREA
1344
HEIGHT
304
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
68
AREA
362
HEIGHT
248
23-May-2024
08:54

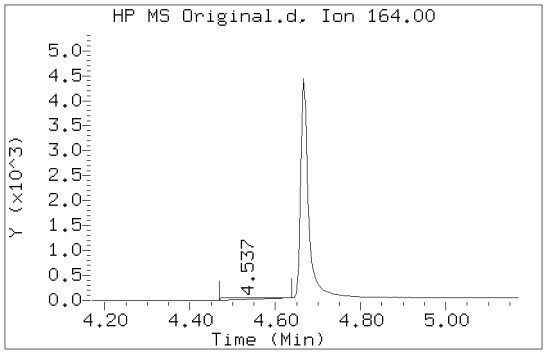


Acenaphthene-d10 (15067-26-2)

Reason Code:

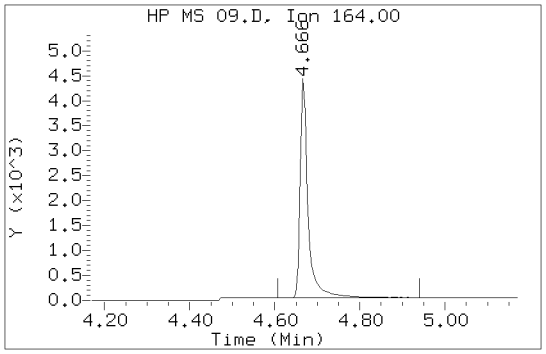
BEFORE

MASS
164
AREA
238
HEIGHT
29
18-Apr-2024
14:31
ALSHS
Server



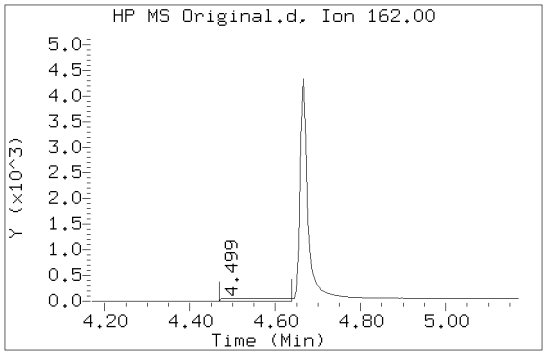
AFTER

MASS
164
AREA
5593
HEIGHT
4390
23-May-2024
08:54



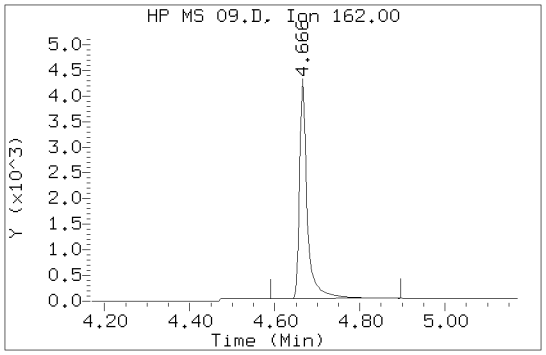
BEFORE

MASS
162
AREA
503
HEIGHT
51
18-Apr-2024
14:31
ALSHS
Server



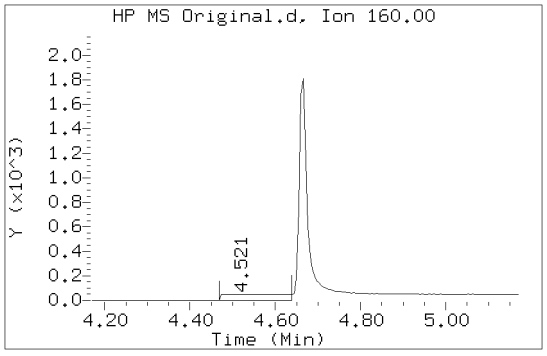
AFTER

MASS
162
AREA
5314
HEIGHT
4281
23-May-2024
08:54



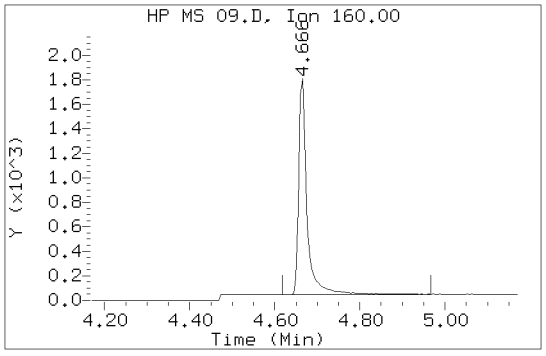
BEFORE

MASS
160
AREA
485
HEIGHT
49
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
160
AREA
2365
HEIGHT
1761
23-May-2024
08:54



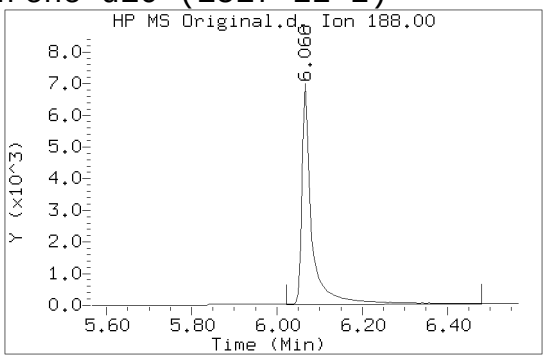
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Phenanthrene-d10 (1517-22-2)

Reason Code:

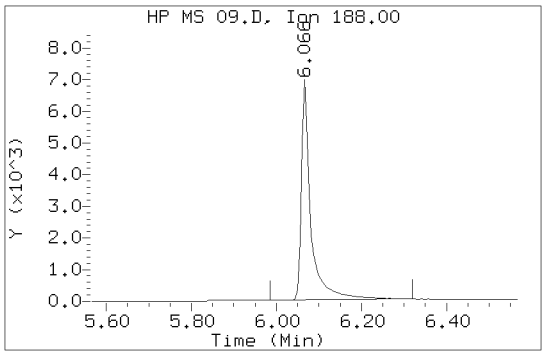
BEFORE

MASS
188
AREA
11617
HEIGHT
6980
18-Apr-2024
14:31
ALSHS
Server



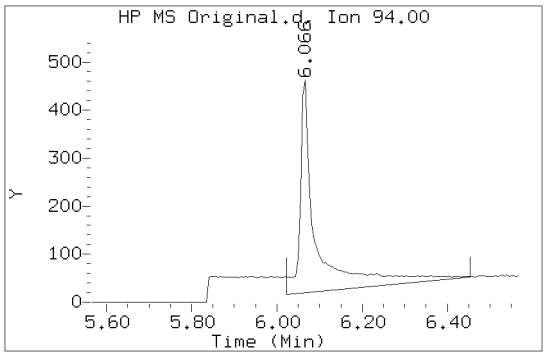
AFTER

MASS
188
AREA
10775
HEIGHT
6945
23-May-2024
08:54



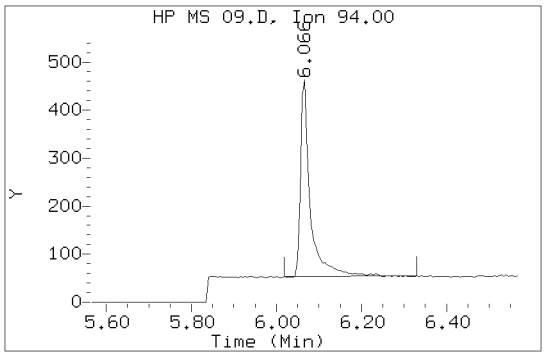
BEFORE

MASS
94
AREA
1175
HEIGHT
443
18-Apr-2024
14:31
ALSHS
Server



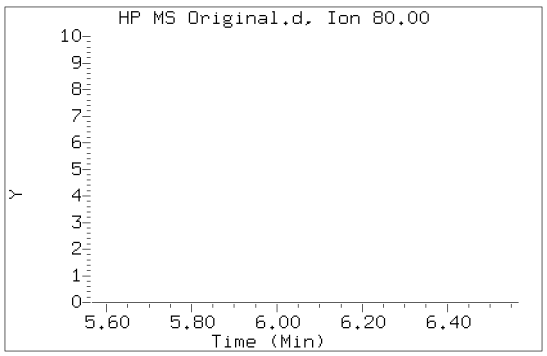
AFTER

MASS
94
AREA
655
HEIGHT
409
23-May-2024
08:54



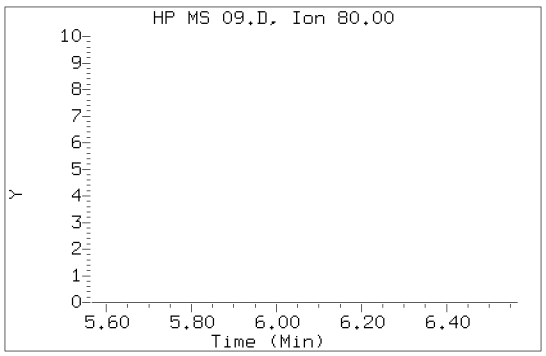
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

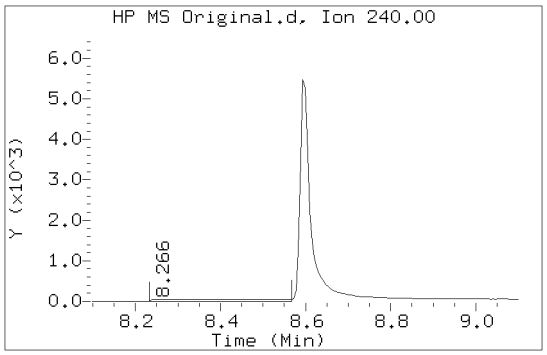


Chrysene-d12 (1719-03-5)

Reason Code:

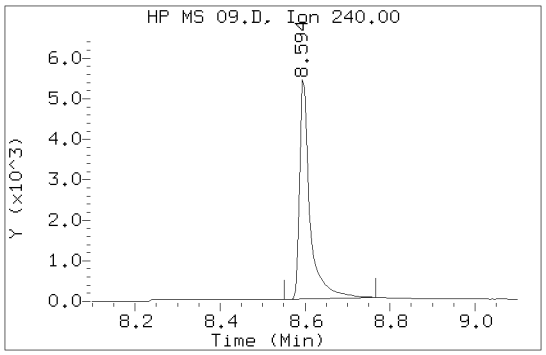
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
240
AREA
9063
HEIGHT
5411
23-May-2024
08:54

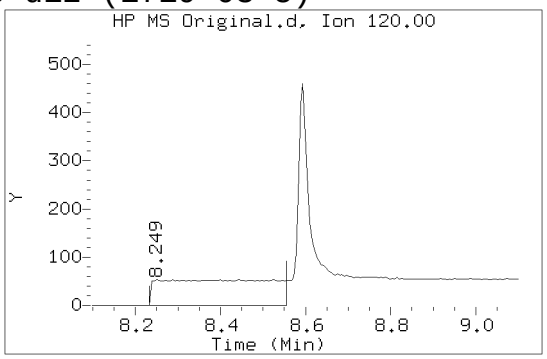


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

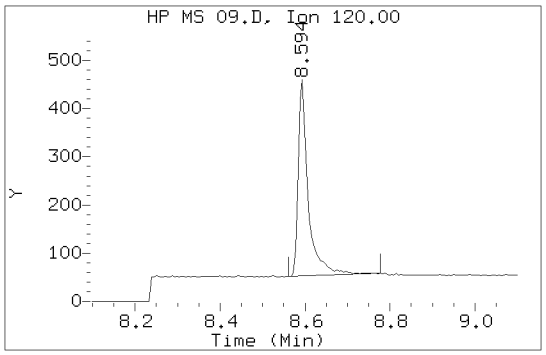
Chrysene-d12 (1719-03-5)

Reason Code:

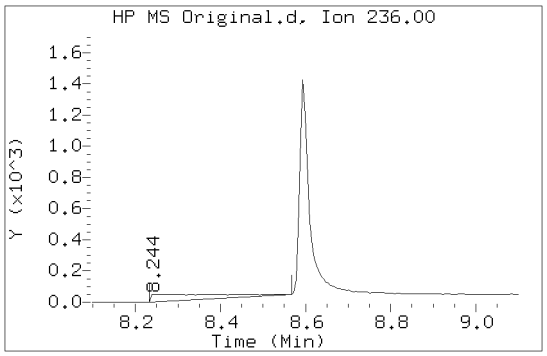
BEFORE
MASS
120
AREA
1000
HEIGHT
53
18-Apr-2024
14:31
ALSHS
Server



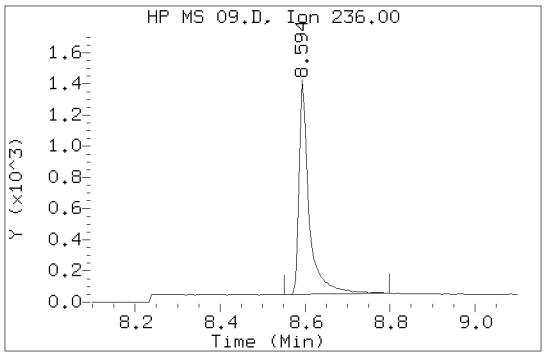
AFTER
MASS
120
AREA
651
HEIGHT
406
23-May-2024
08:54



BEFORE
MASS
236
AREA
466
HEIGHT
47
18-Apr-2024
14:31
ALSHS
Server



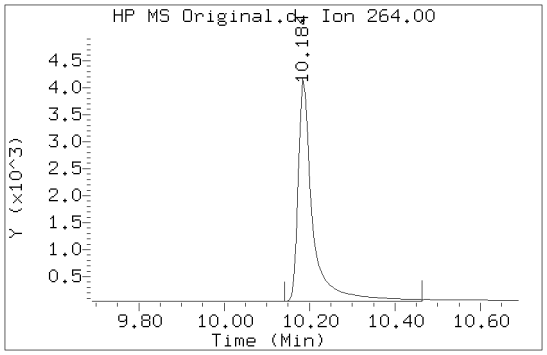
AFTER
MASS
236
AREA
2242
HEIGHT
1376
23-May-2024
08:54



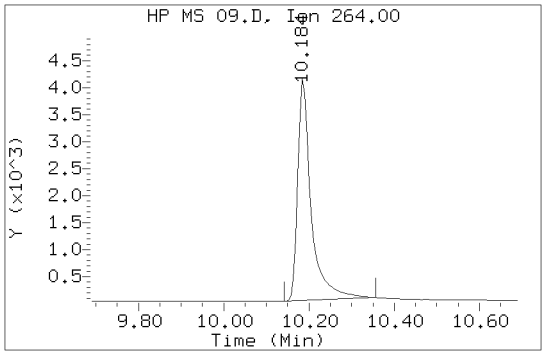
Perylene-d12 (1520-96-3)

Reason Code:

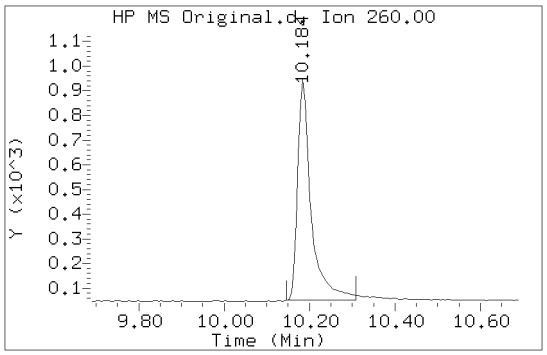
BEFORE
MASS
264
AREA
9658
HEIGHT
4112
18-Apr-2024
14:31
ALSHS
Server



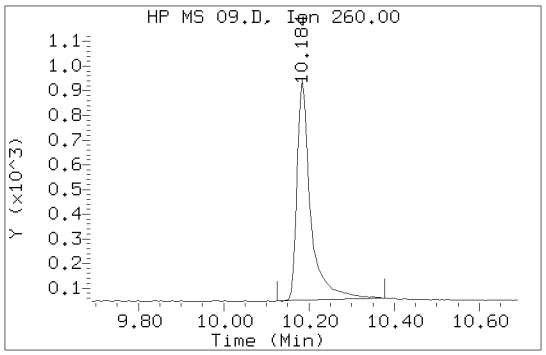
AFTER
MASS
264
AREA
8962
HEIGHT
4099
23-May-2024
08:54



BEFORE
MASS
260
AREA
1972
HEIGHT
894
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
260
AREA
1963
HEIGHT
893
23-May-2024
08:54



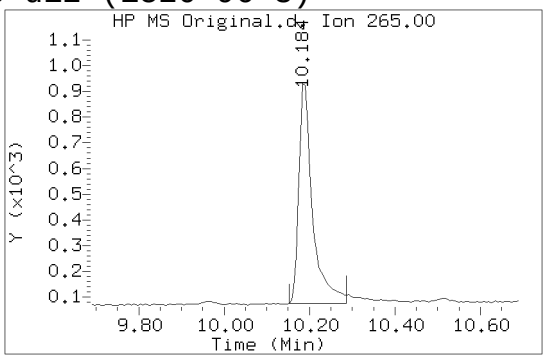
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Perylene-d12 (1520-96-3)

Reason Code:

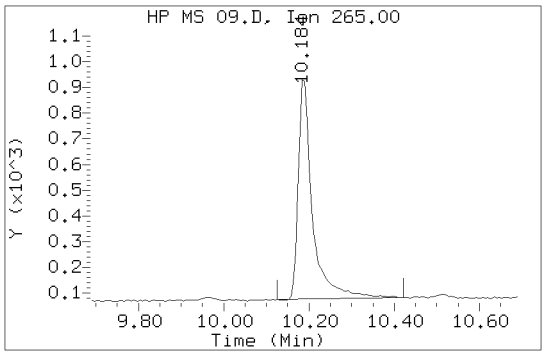
BEFORE

MASS
265
AREA
1909
HEIGHT
854
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
265
AREA
1984
HEIGHT
853
23-May-2024
08:54

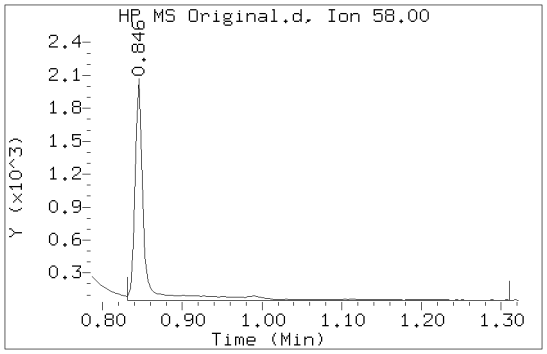


1,4-Dioxane ()

Reason Code:

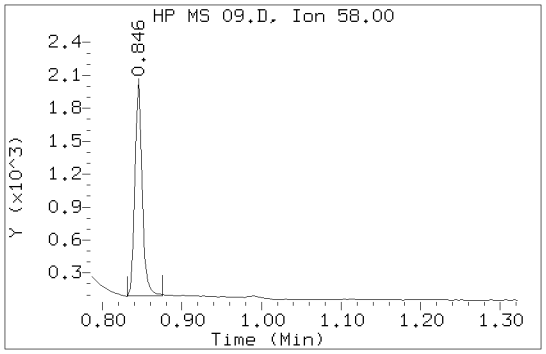
BEFORE

MASS
58
AREA
1746
HEIGHT
2018
18-Apr-2024
14:31
ALSHS
Server



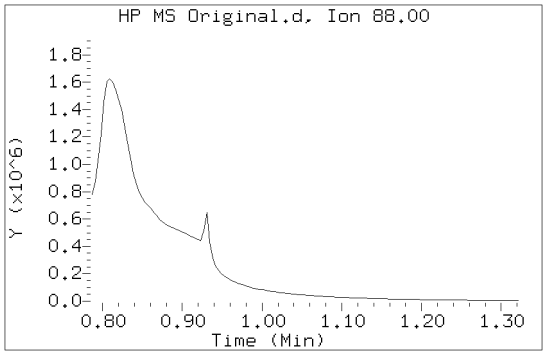
AFTER

MASS
58
AREA
1268
HEIGHT
1979
23-May-2024
08:54



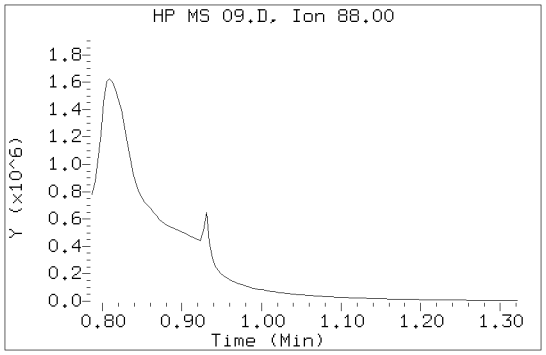
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
08:54

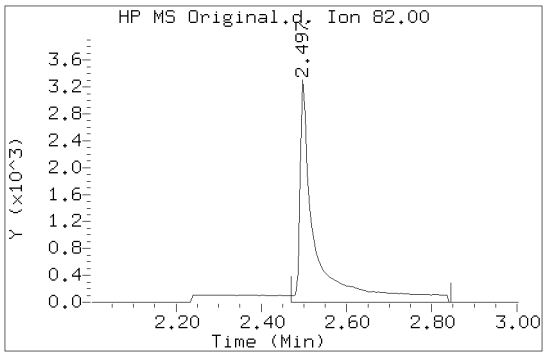


Nitrobenzene-d5 (4165-60-0)

Reason Code:

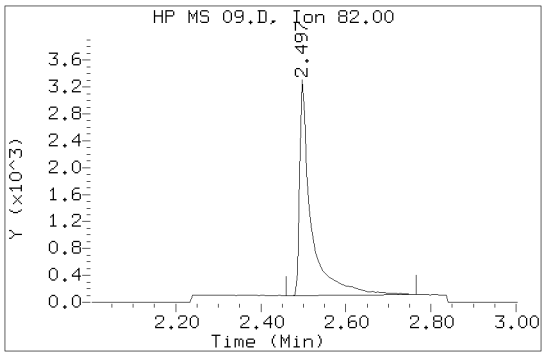
BEFORE

MASS
82
AREA
8325
HEIGHT
3305
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
82
AREA
5927
HEIGHT
3202
23-May-2024
08:54



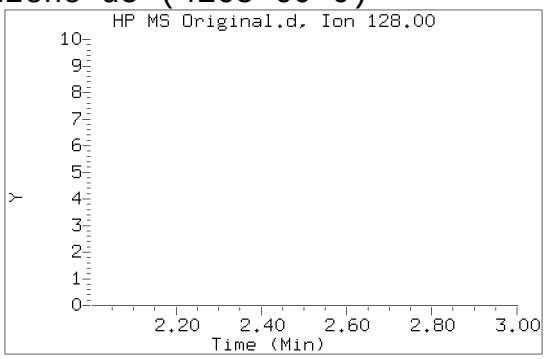
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Nitrobenzene-d5 (4165-60-0)

Reason Code:

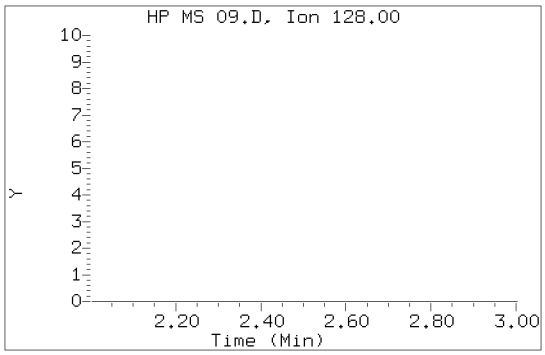
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



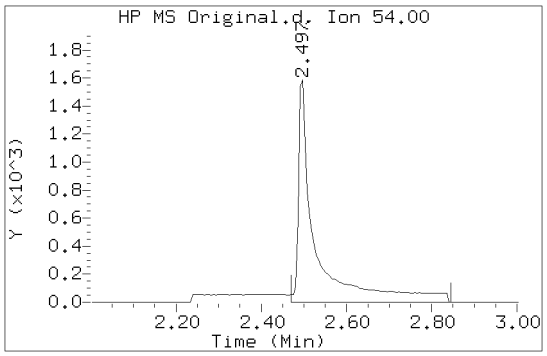
AFTER

MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



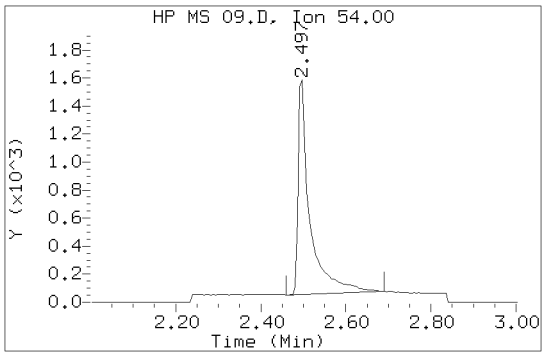
BEFORE

MASS
54
AREA
4354
HEIGHT
1586
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
54
AREA
2914
HEIGHT
1530
23-May-2024
08:54

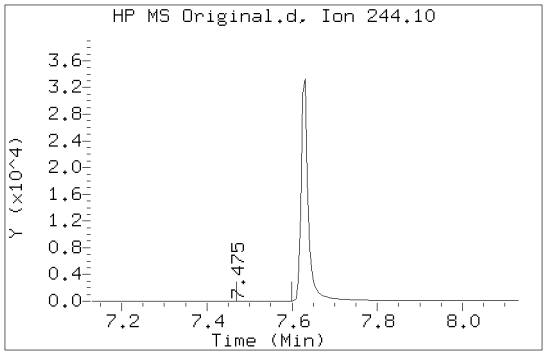


4-Terphenyl-d14 (1718-51-0)

Reason Code:

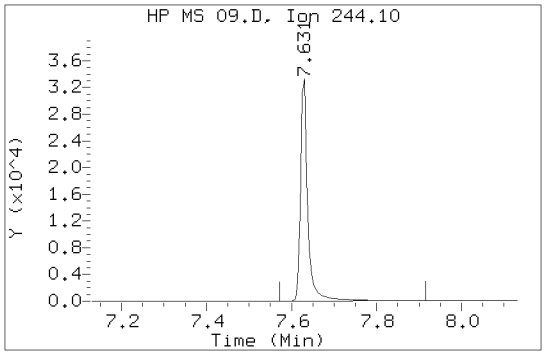
BEFORE

MASS
244.1
AREA
171
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



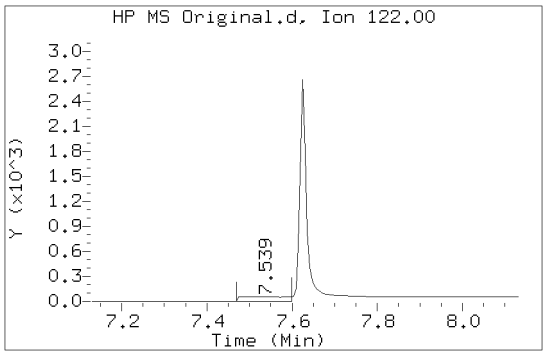
AFTER

MASS
244.1
AREA
39718
HEIGHT
33227
23-May-2024
08:54



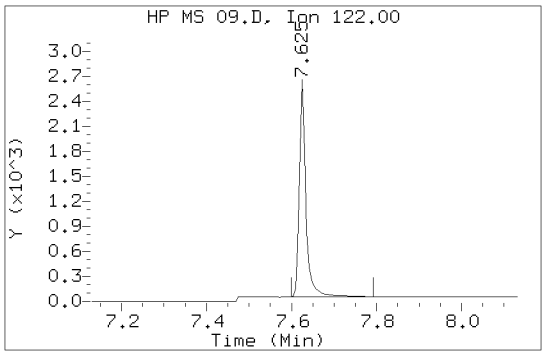
BEFORE

MASS
122
AREA
392
HEIGHT
52
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
122
AREA
2843
HEIGHT
2606
23-May-2024
08:54



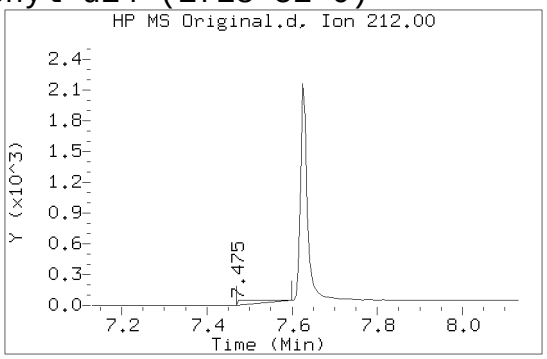
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

4-Terphenyl-d14 (1718-51-0)

Reason Code:

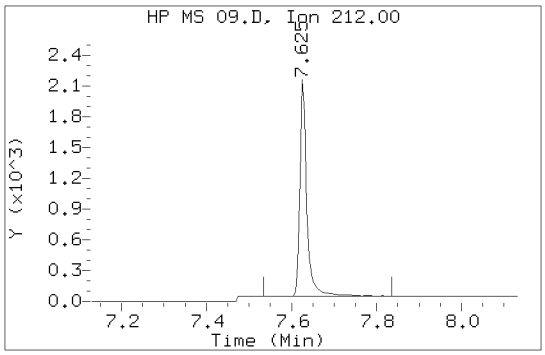
BEFORE

MASS
212
AREA
176
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
212
AREA
2426
HEIGHT
2111
23-May-2024
08:54

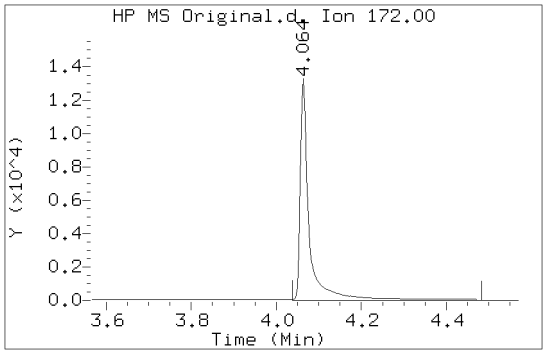


2-Fluorobiphenyl (321-60-8)

Reason Code:

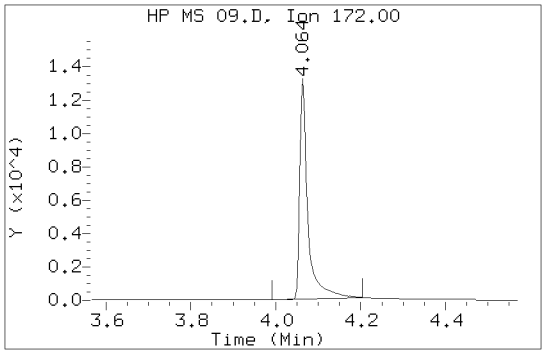
BEFORE

MASS
172
AREA
20172
HEIGHT
13283
18-Apr-2024
14:31
ALSHS
Server



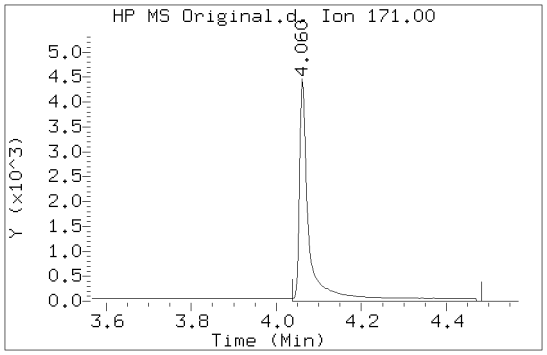
AFTER

MASS
172
AREA
17331
HEIGHT
13194
23-May-2024
08:54



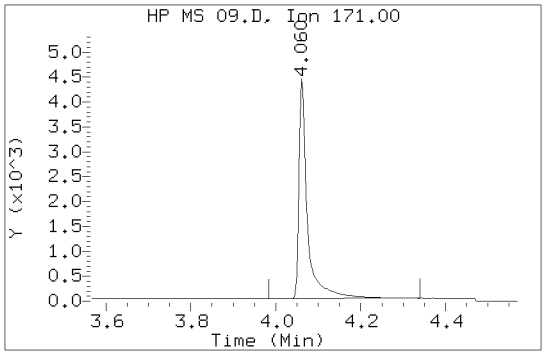
BEFORE

MASS
171
AREA
7647
HEIGHT
4464
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
171
AREA
6174
HEIGHT
4414
23-May-2024
08:54



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Lab Smp Id: 14DX-0.50
Inj Date : 18-APR-2024 14:35
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 Calibration Sample, Level: 8
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	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2819	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9772	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	15956	0.50000	0.5439(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5911	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	47534	0.50000	0.5260(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	11325	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9856	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	111493	0.50000	0.5553(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	10138	0.10000	
1 1,4-Dioxane	58	0.831	0.820	(0.398)	2813	0.50000	0.4659(M)

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.

01304690

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Date : 18-APR-2024 14:35

Client ID:

Instrument: SV6.i

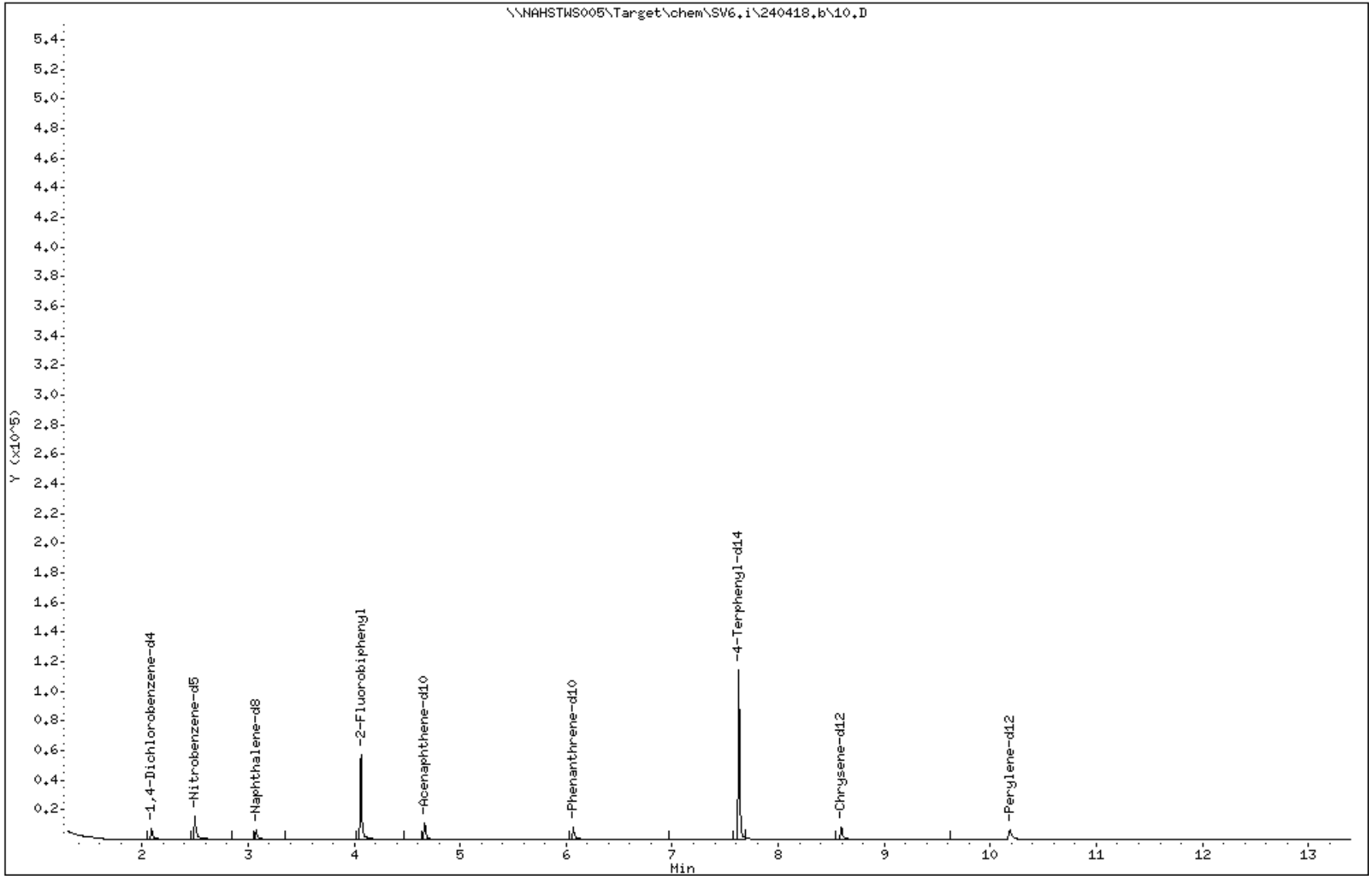
Sample Info: 14DX-0.50

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

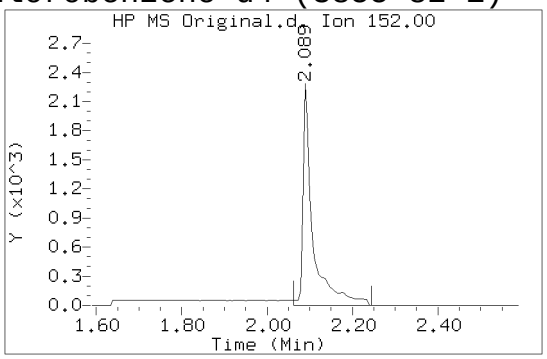


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

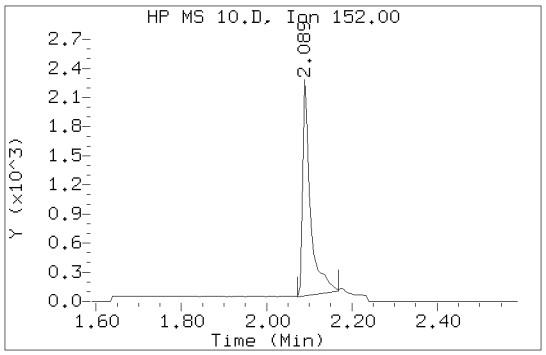
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

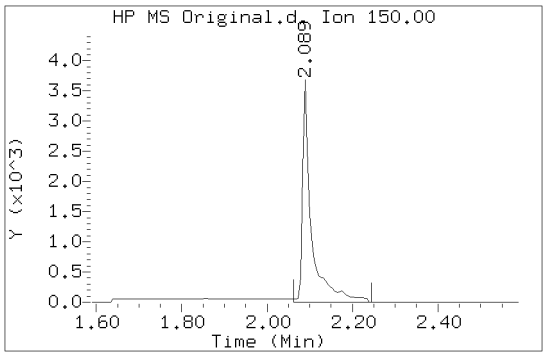
BEFORE
MASS
152
AREA
3637
HEIGHT
2284
18-Apr-2024
14:51
ALSHS
Server



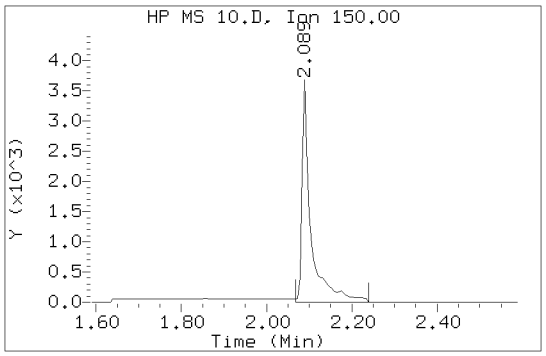
AFTER
MASS
152
AREA
2819
HEIGHT
2227
28-May-2024
13:05



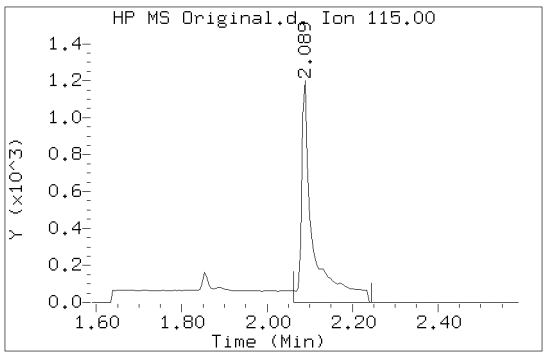
BEFORE
MASS
150
AREA
5370
HEIGHT
3682
18-Apr-2024
14:51
ALSHS
Server



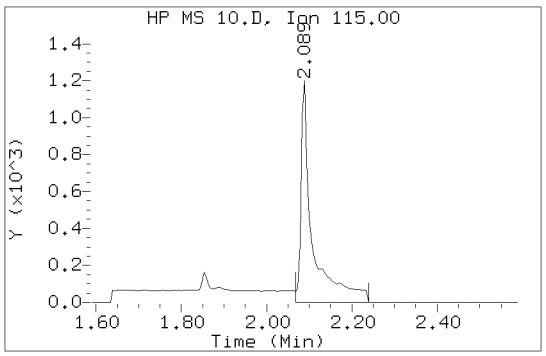
AFTER
MASS
150
AREA
5355
HEIGHT
3682
28-May-2024
13:05



BEFORE
MASS
115
AREA
2255
HEIGHT
1200
18-Apr-2024
14:51
ALSHS
Server



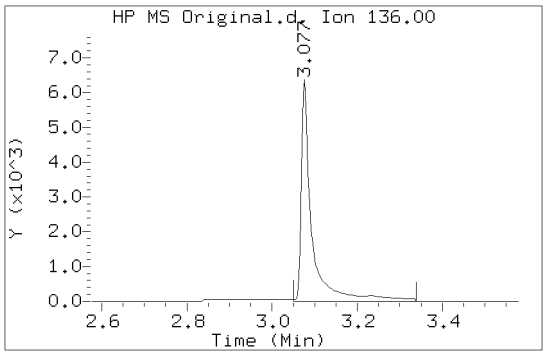
AFTER
MASS
115
AREA
2236
HEIGHT
1200
28-May-2024
13:05



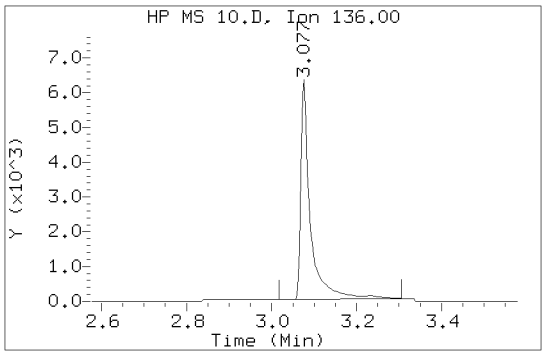
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10944
HEIGHT
6372
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
136
AREA
9772
HEIGHT
6315
28-May-2024
13:05



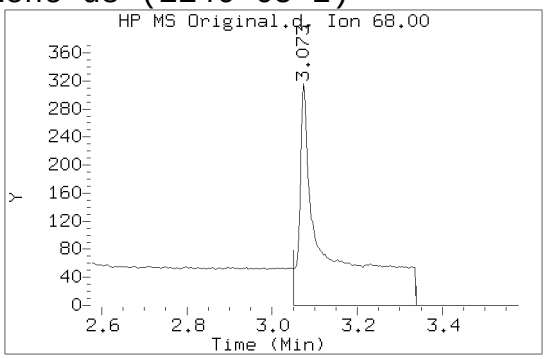
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Naphthalene-d8 (1146-65-2)

Reason Code:

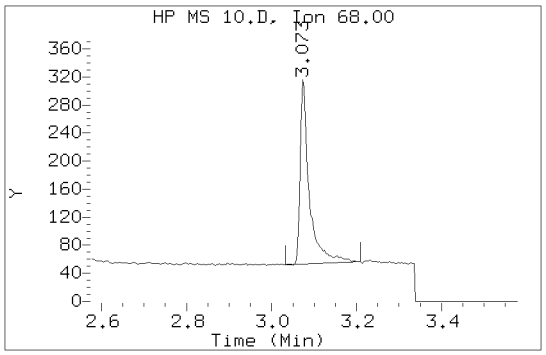
BEFORE

MASS
68
AREA
1337
HEIGHT
316
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
68
AREA
385
HEIGHT
262
28-May-2024
13:05

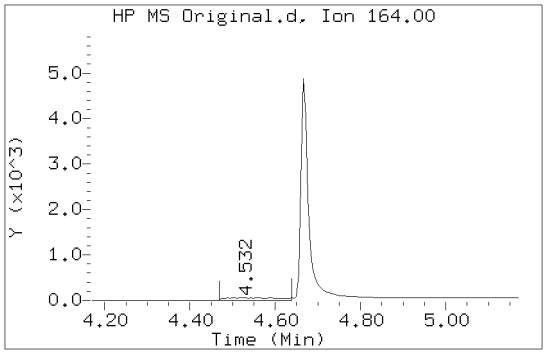


Acenaphthene-d10 (15067-26-2)

Reason Code:

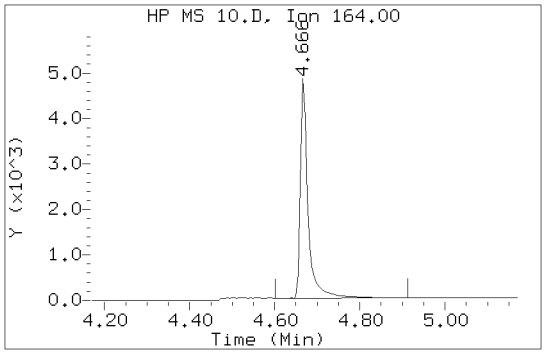
BEFORE

MASS
164
AREA
504
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



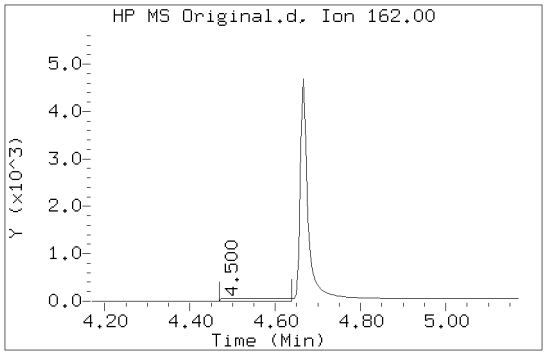
AFTER

MASS
164
AREA
5911
HEIGHT
4828
28-May-2024
13:05



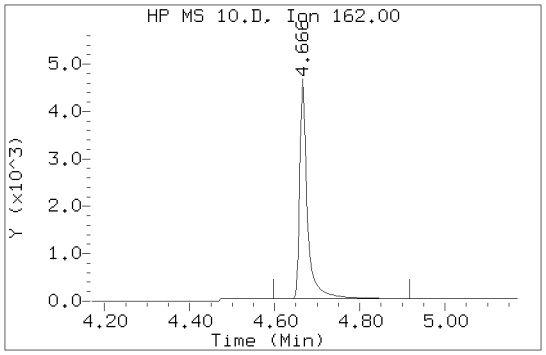
BEFORE

MASS
162
AREA
499
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



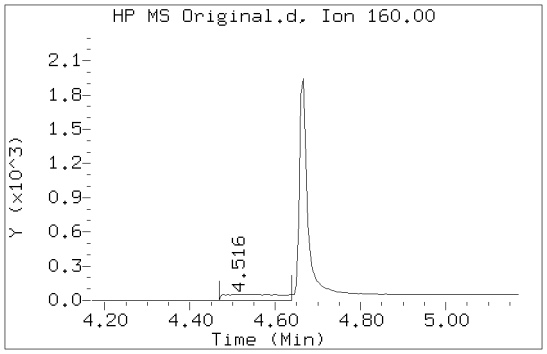
AFTER

MASS
162
AREA
5684
HEIGHT
4637
28-May-2024
13:05



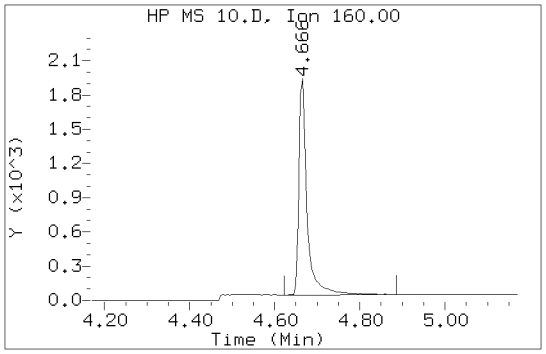
BEFORE

MASS
160
AREA
487
HEIGHT
49
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
160
AREA
2489
HEIGHT
1895
28-May-2024
13:05



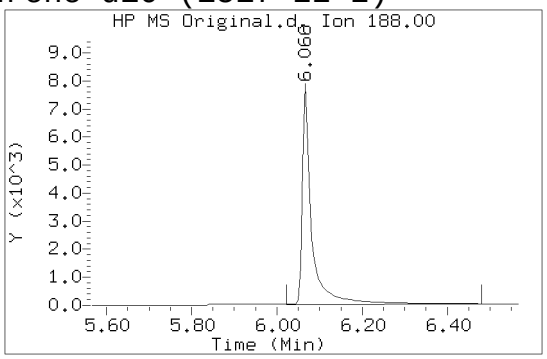
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Phenanthrene-d10 (1517-22-2)

Reason Code:

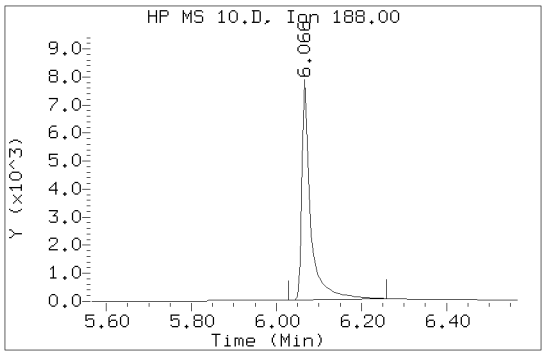
BEFORE

MASS
188
AREA
12429
HEIGHT
7885
18-Apr-2024
14:51
ALSHS
Server



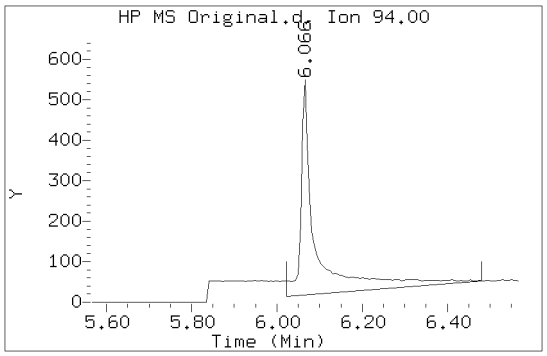
AFTER

MASS
188
AREA
11325
HEIGHT
7848
28-May-2024
13:05



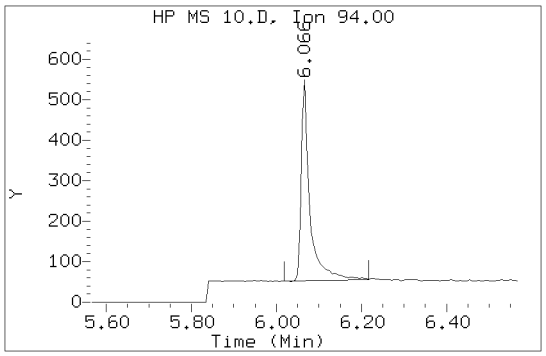
BEFORE

MASS
94
AREA
1281
HEIGHT
530
18-Apr-2024
14:51
ALSHS
Server



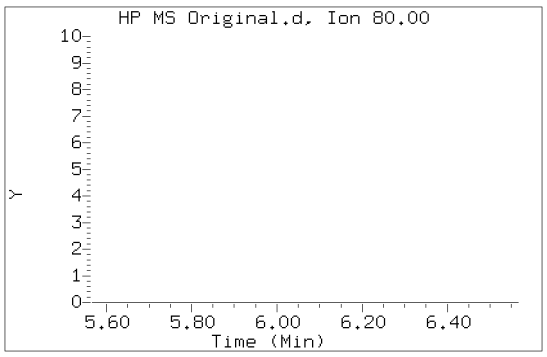
AFTER

MASS
94
AREA
704
HEIGHT
496
28-May-2024
13:05



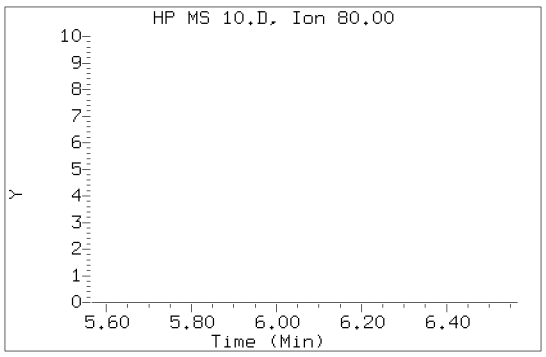
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

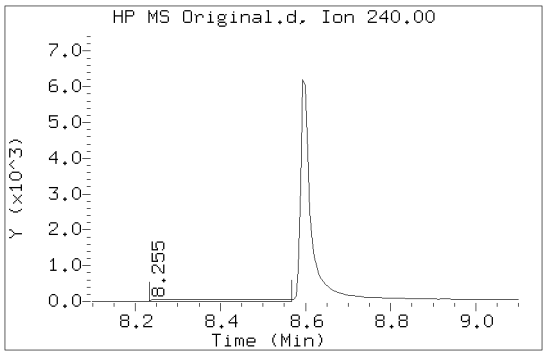


Chrysene-d12 (1719-03-5)

Reason Code:

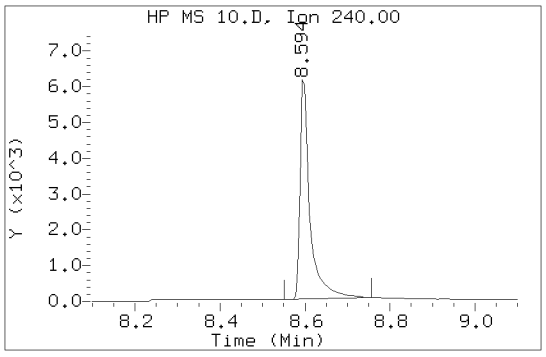
BEFORE

MASS
240
AREA
983
HEIGHT
51
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
240
AREA
9856
HEIGHT
6137
28-May-2024
13:05



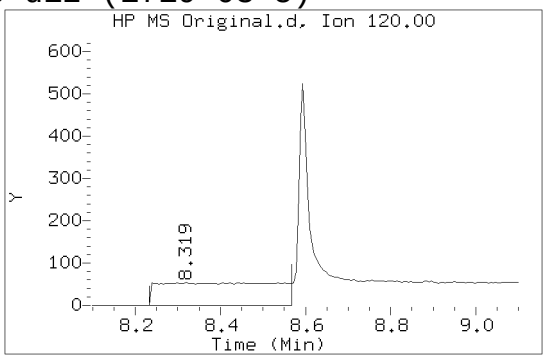
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Chrysene-d12 (1719-03-5)

Reason Code:

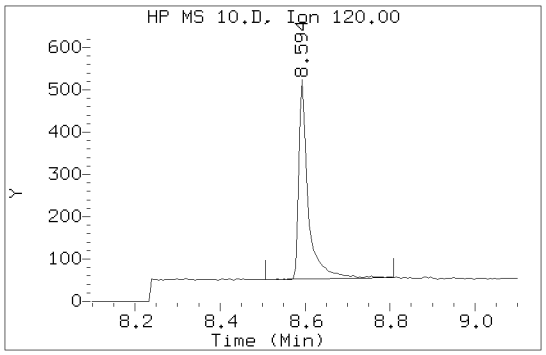
BEFORE

MASS
120
AREA
1034
HEIGHT
54
18-Apr-2024
14:51
ALSHS
Server



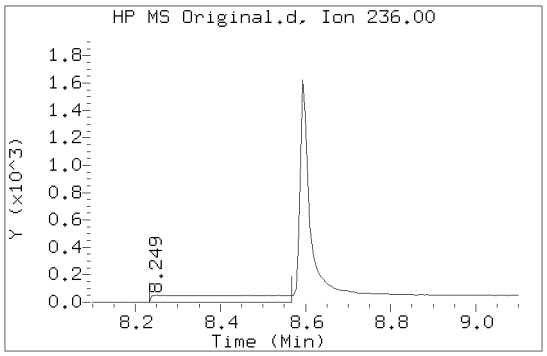
AFTER

MASS
120
AREA
718
HEIGHT
470
28-May-2024
13:05



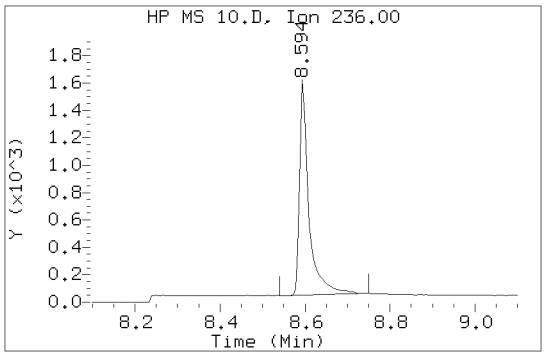
BEFORE

MASS
236
AREA
972
HEIGHT
50
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
236
AREA
2369
HEIGHT
1570
28-May-2024
13:05

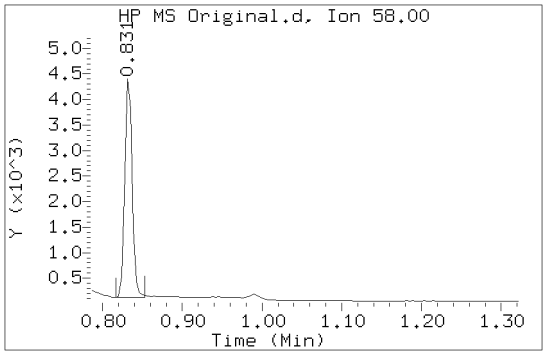


1,4-Dioxane ()

Reason Code:

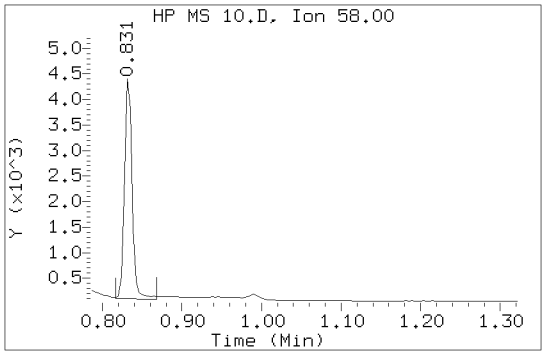
BEFORE

MASS
58
AREA
2715
HEIGHT
4282
18-Apr-2024
14:51
ALSHS
Server



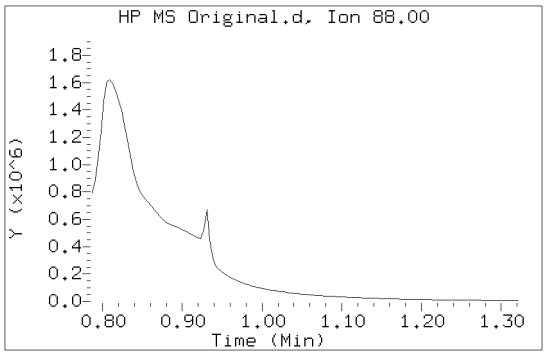
AFTER

MASS
58
AREA
2813
HEIGHT
4303
28-May-2024
13:05



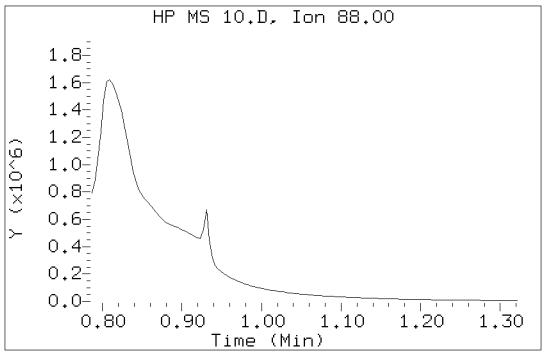
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05



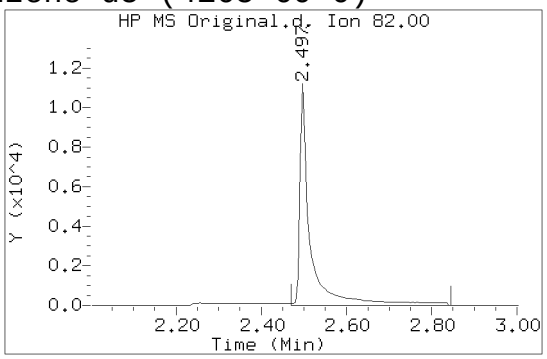
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Nitrobenzene-d5 (4165-60-0)

Reason Code:

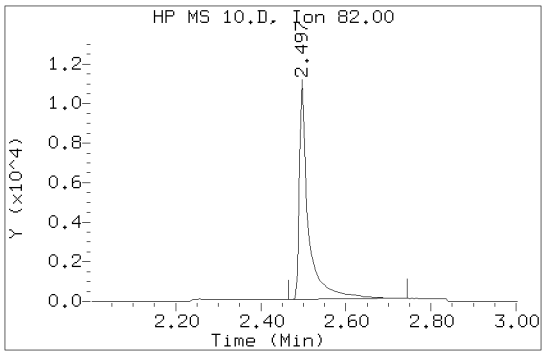
BEFORE

MASS
82
AREA
18735
HEIGHT
11209
18-Apr-2024
14:51
ALSHS
Server



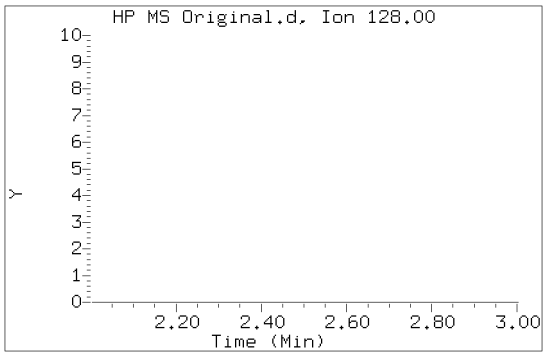
AFTER

MASS
82
AREA
15956
HEIGHT
11102
28-May-2024
13:05



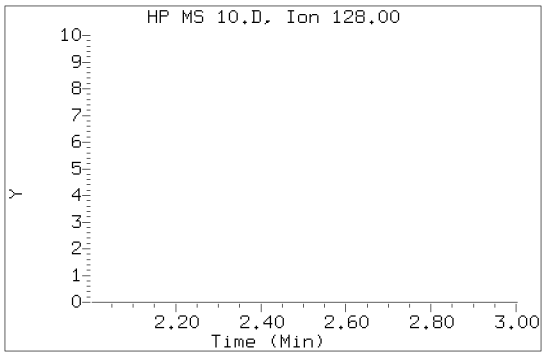
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



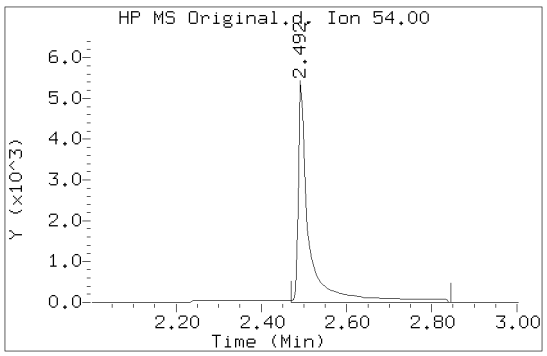
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



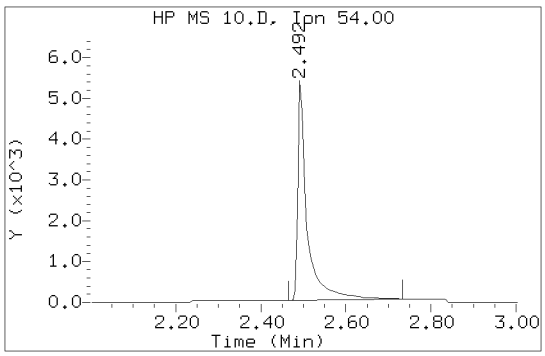
BEFORE

MASS
54
AREA
9543
HEIGHT
5435
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
54
AREA
8025
HEIGHT
5379
28-May-2024
13:05

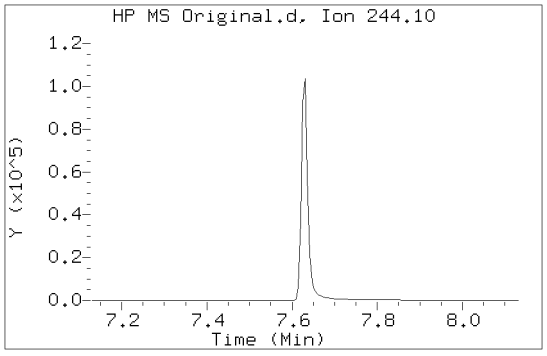


4-Terphenyl-d14 (1718-51-0)

Reason Code:

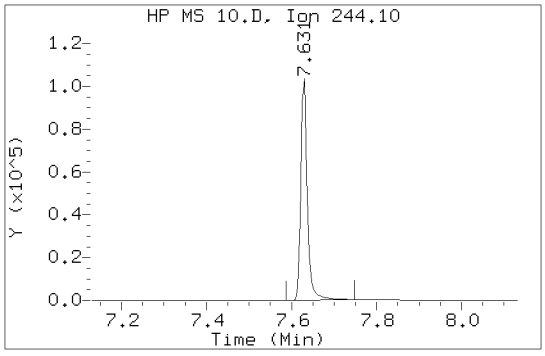
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
244.1
AREA
111493
HEIGHT
103434
28-May-2024
13:05



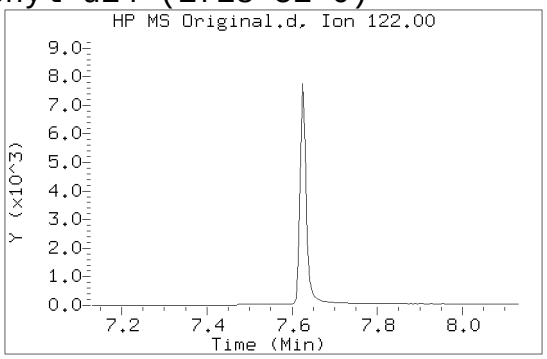
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

4-Terphenyl-d14 (1718-51-0)

Reason Code:

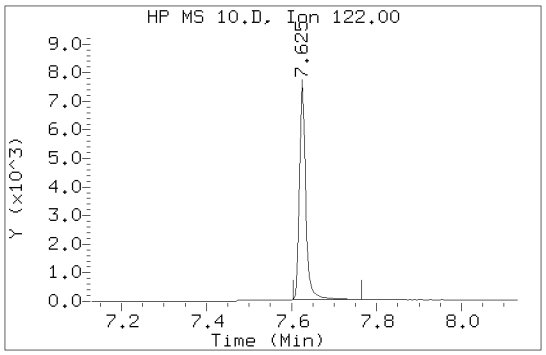
BEFORE

MASS
122
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



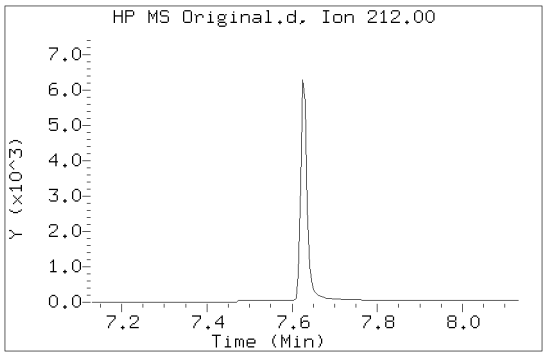
AFTER

MASS
122
AREA
7961
HEIGHT
7695
28-May-2024
13:05



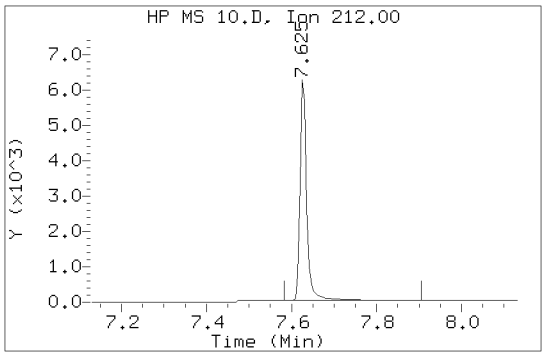
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
212
AREA
6900
HEIGHT
6243
28-May-2024
13:05

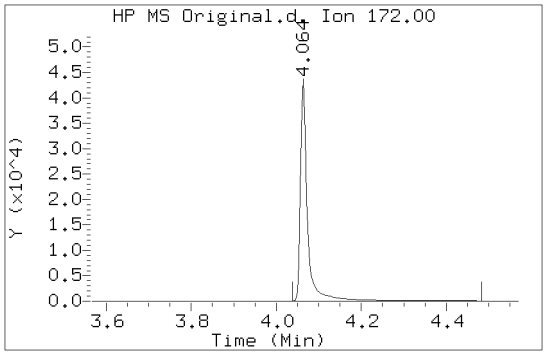


2-Fluorobiphenyl (321-60-8)

Reason Code:

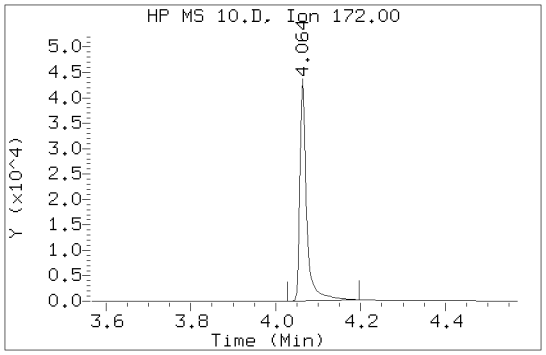
BEFORE

MASS
172
AREA
51564
HEIGHT
43720
18-Apr-2024
14:51
ALSHS
Server



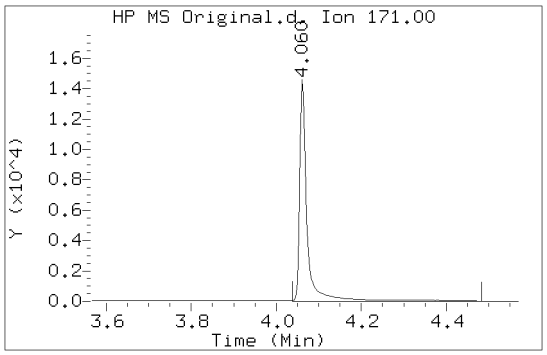
AFTER

MASS
172
AREA
47534
HEIGHT
43625
28-May-2024
13:05



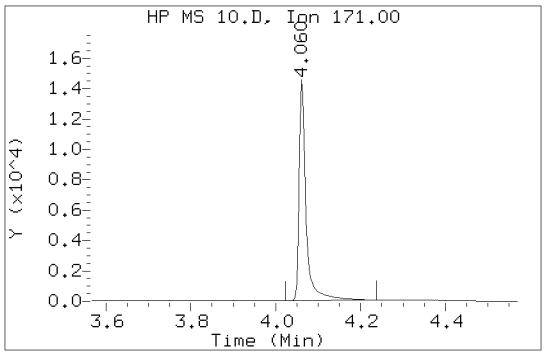
BEFORE

MASS
171
AREA
18313
HEIGHT
14592
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
171
AREA
16377
HEIGHT
14537
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Lab Smp Id: 14DX ICV-0.08 Client Smp ID: 14DX ICV-0.08
Inj Date : 18-APR-2024 14:53
Operator : LG Inst ID: SV6.i
Smp Info : 14DX ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 25-Jul-2024 11:38 donna.brou Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7019

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	2.094	2.089	(1.000)	2645	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7708	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	1691	0.07308	0.07308(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5072	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	5460	0.07042	0.07042(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10292	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	7884	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	11331	0.07055	0.07055(M)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8007	0.10000	
1 1,4-Dioxane	58	0.838	0.820	(0.400)	429	0.07572	0.07572

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01304698

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D

Date : 18-APR-2024 14:53

Client ID: 14DX ICV-0.08

Instrument: SV6.i

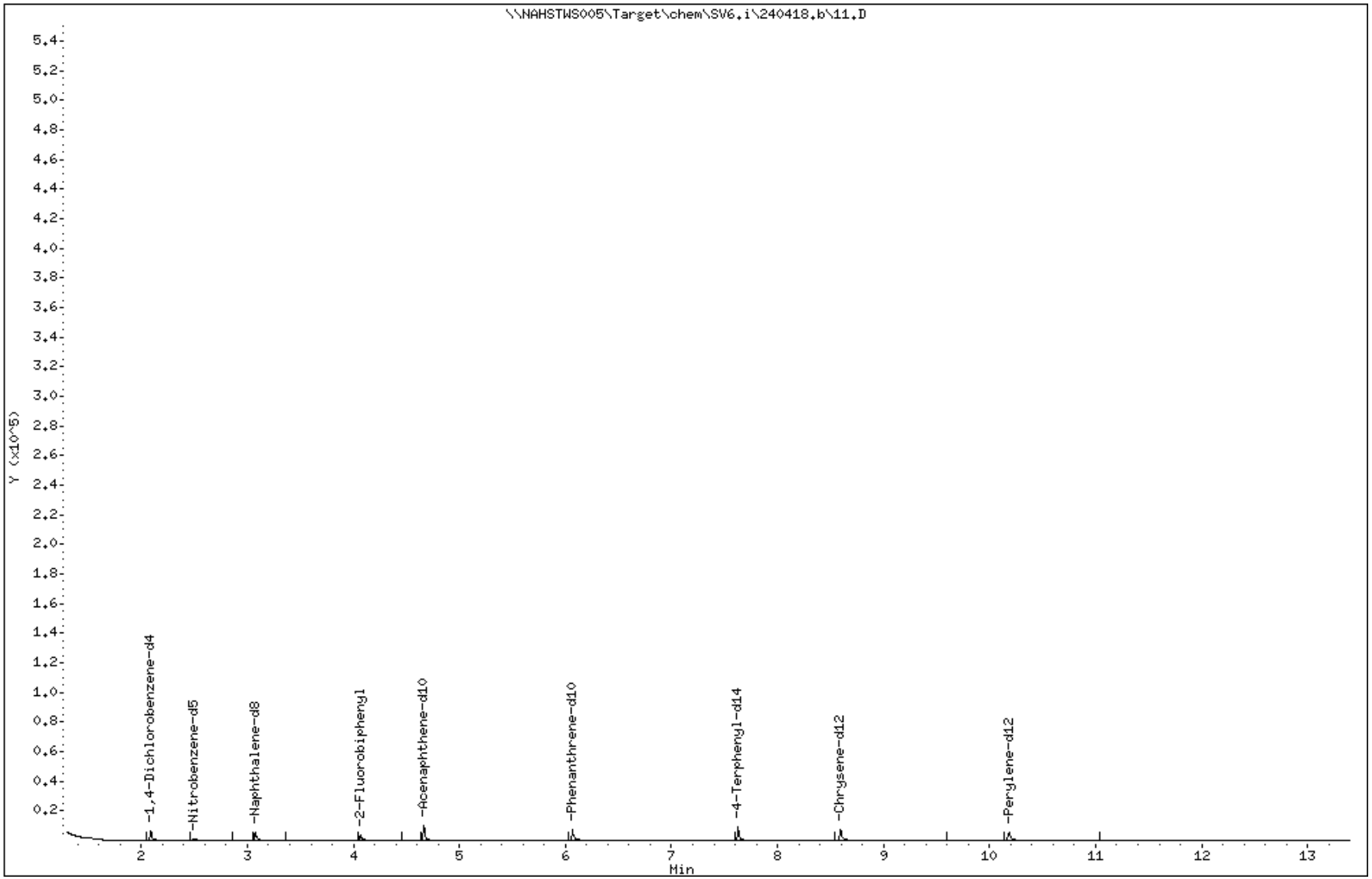
Sample Info: 14DX ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

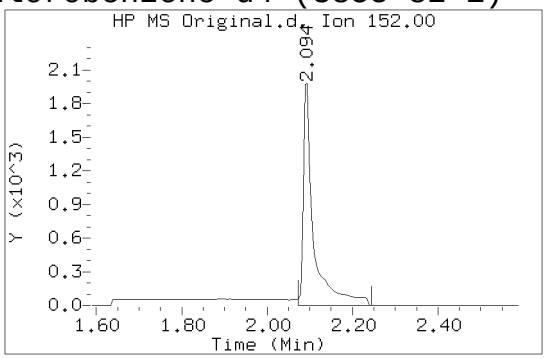


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

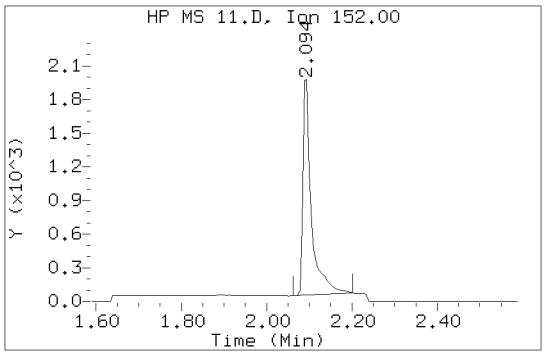
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

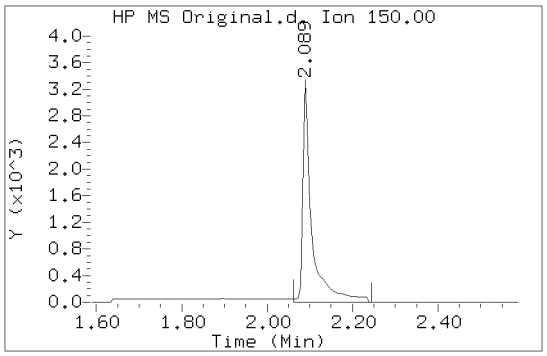
BEFORE
MASS
152
AREA
3284
HEIGHT
1978
18-Apr-2024
15:08
ALSHS
Server



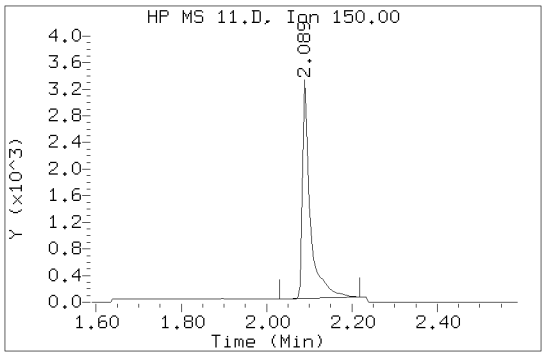
AFTER
MASS
152
AREA
2645
HEIGHT
1921
25-Jul-2024
11:39



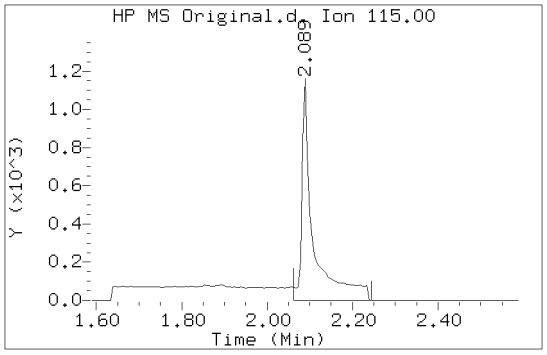
BEFORE
MASS
150
AREA
4880
HEIGHT
3340
18-Apr-2024
15:08
ALSHS
Server



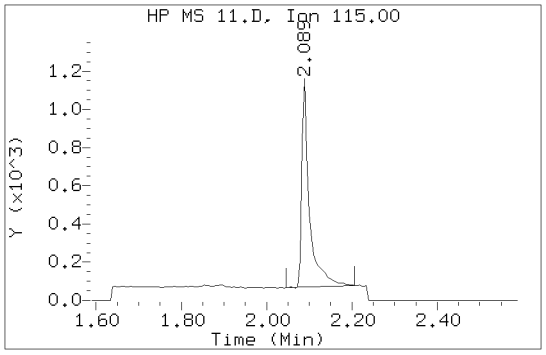
AFTER
MASS
150
AREA
4160
HEIGHT
3281
25-Jul-2024
11:39



BEFORE
MASS
115
AREA
2134
HEIGHT
1161
18-Apr-2024
15:08
ALSHS
Server



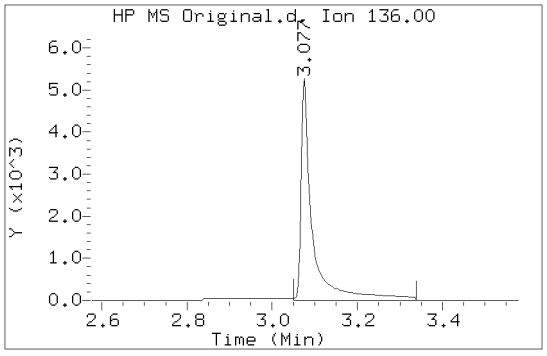
AFTER
MASS
115
AREA
1363
HEIGHT
1092
25-Jul-2024
11:39



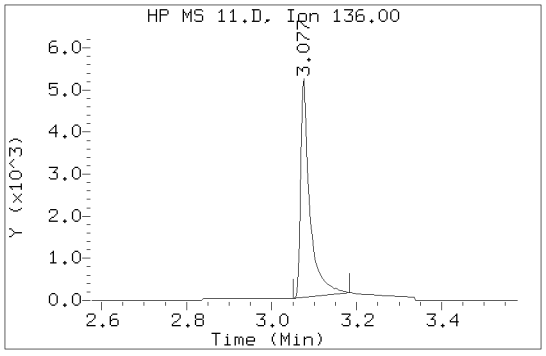
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9692
HEIGHT
5268
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
136
AREA
7708
HEIGHT
5193
25-Jul-2024
11:39

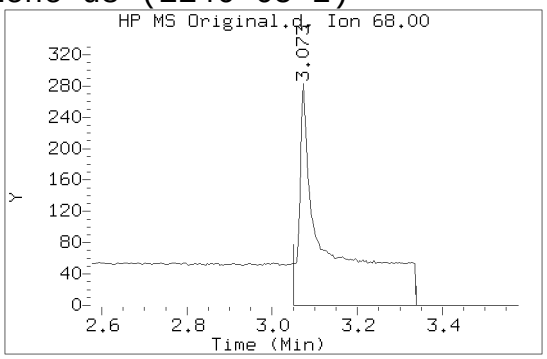


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

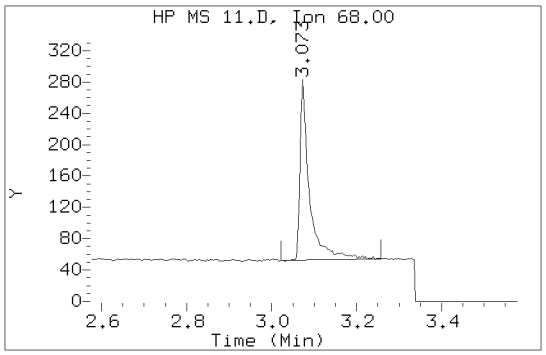
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1275
HEIGHT
283
18-Apr-2024
15:08
ALSHS
Server



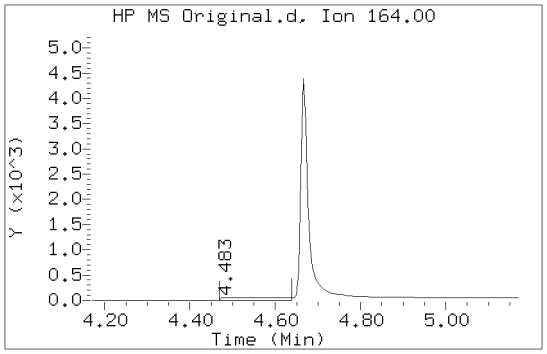
AFTER
MASS
68
AREA
353
HEIGHT
230
25-Jul-2024
11:39



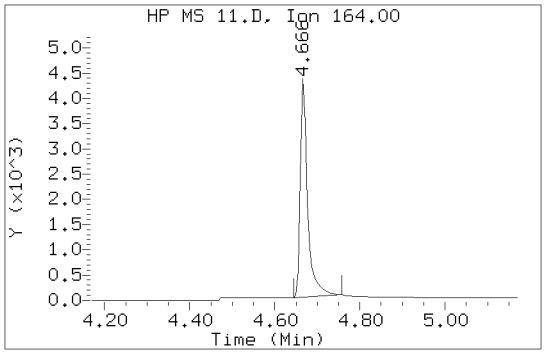
Acenaphthene-d10 (15067-26-2)

Reason Code:

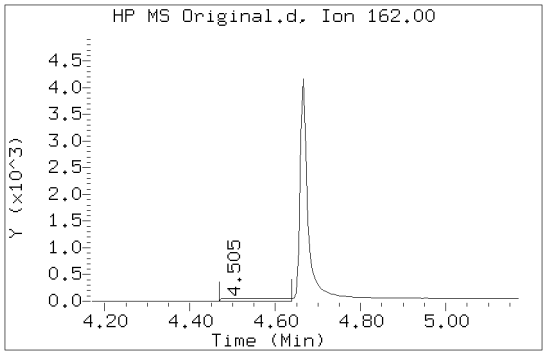
BEFORE
MASS
164
AREA
510
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



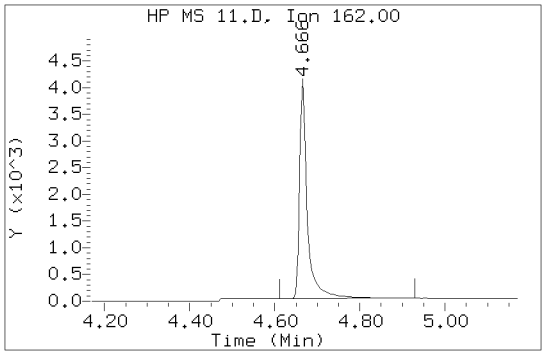
AFTER
MASS
164
AREA
5072
HEIGHT
4329
25-Jul-2024
11:39



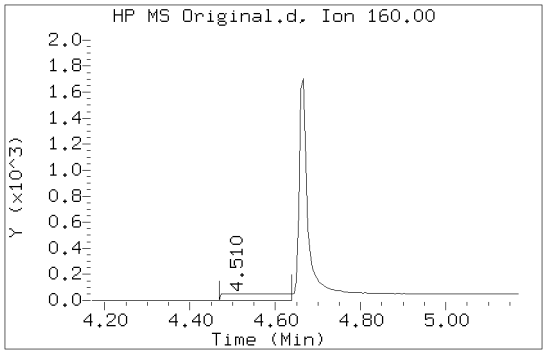
BEFORE
MASS
162
AREA
503
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



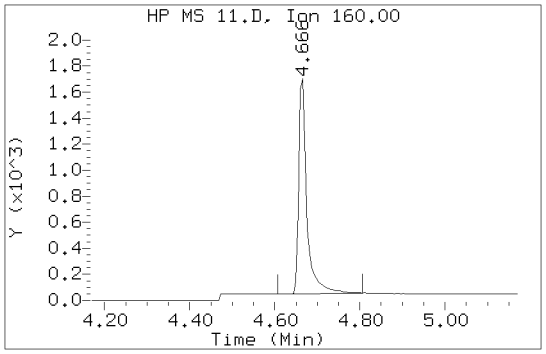
AFTER
MASS
162
AREA
5122
HEIGHT
4113
25-Jul-2024
11:39



BEFORE
MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
160
AREA
2174
HEIGHT
1653
25-Jul-2024
11:39



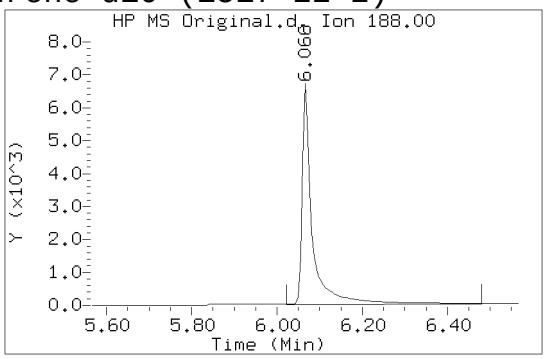
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

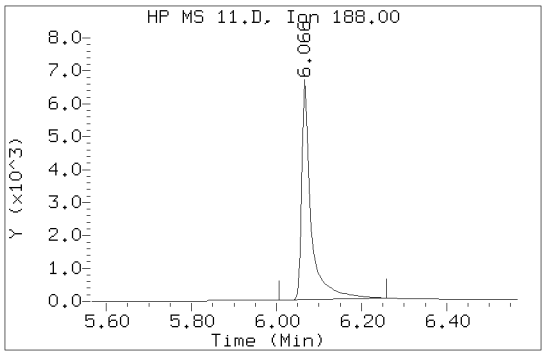
BEFORE

MASS
188
AREA
11412
HEIGHT
6713
18-Apr-2024
15:08
ALSHS
Server



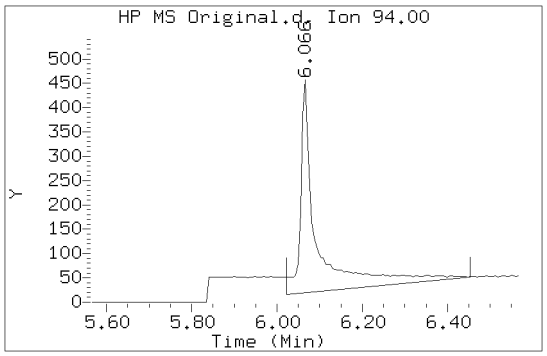
AFTER

MASS
188
AREA
10292
HEIGHT
6674
25-Jul-2024
11:39



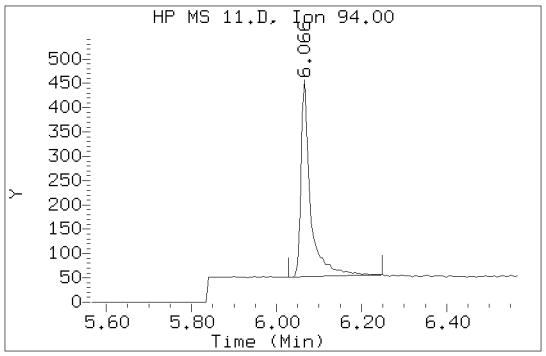
BEFORE

MASS
94
AREA
1149
HEIGHT
437
18-Apr-2024
15:08
ALSHS
Server



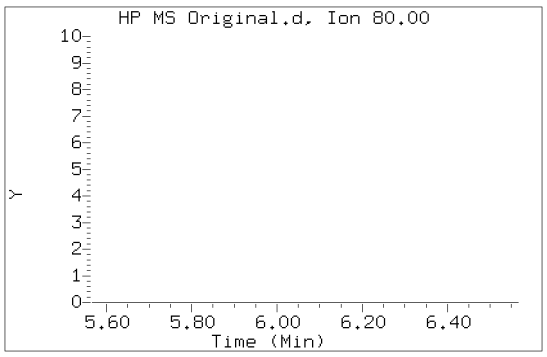
AFTER

MASS
94
AREA
624
HEIGHT
404
25-Jul-2024
11:39



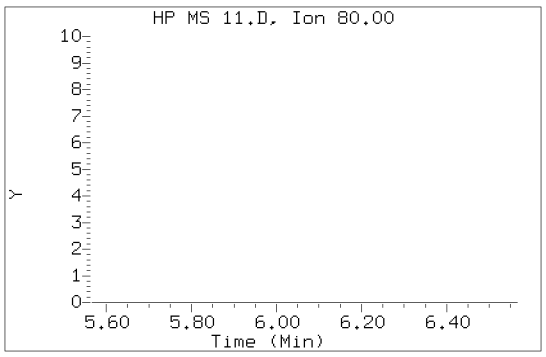
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
25-Jul-2024
11:39

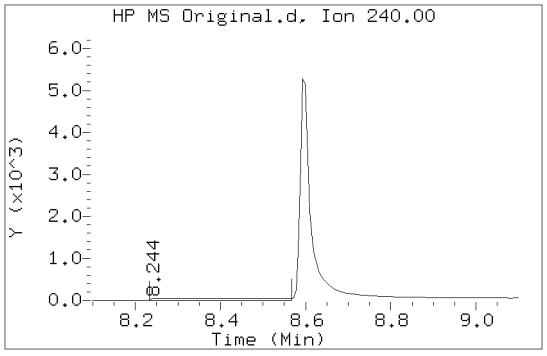


Chrysene-d12 (1719-03-5)

Reason Code:

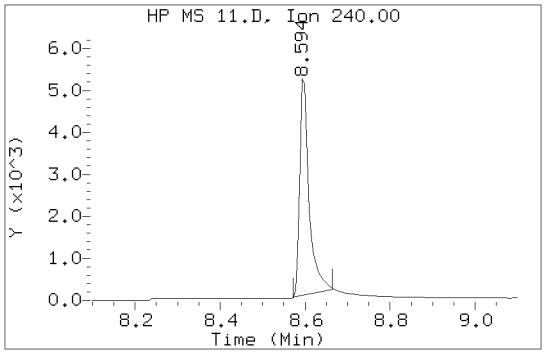
BEFORE

MASS
240
AREA
945
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
240
AREA
7884
HEIGHT
5168
25-Jul-2024
11:39

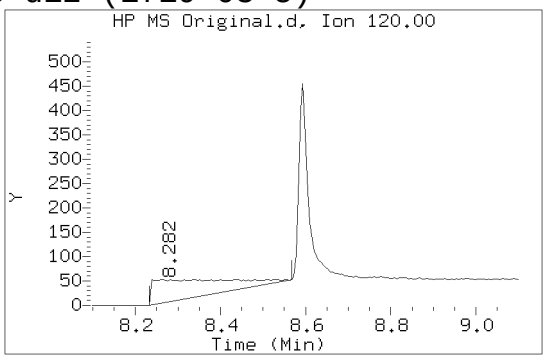


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

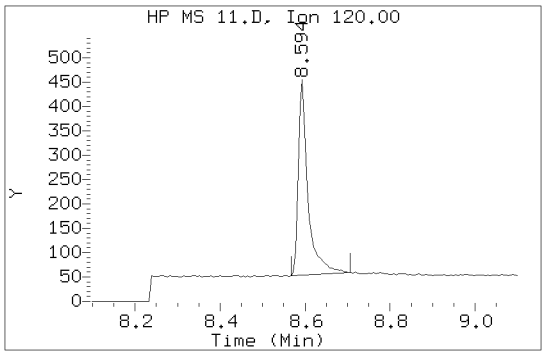
Chrysene-d12 (1719-03-5)

Reason Code:

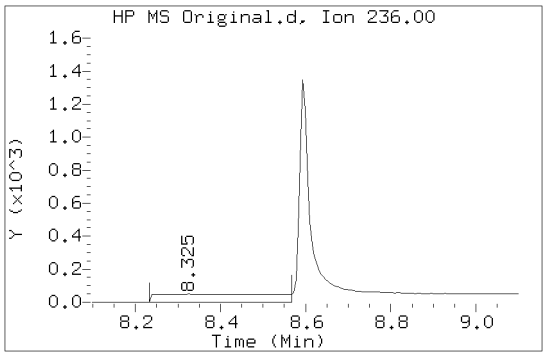
BEFORE
MASS
120
AREA
488
HEIGHT
45
18-Apr-2024
15:08
ALSHS
Server



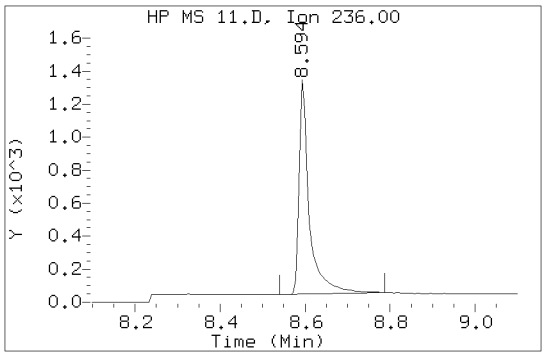
AFTER
MASS
120
AREA
625
HEIGHT
400
25-Jul-2024
11:39



BEFORE
MASS
236
AREA
948
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



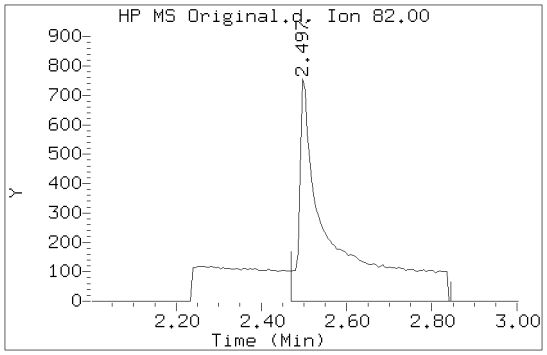
AFTER
MASS
236
AREA
2142
HEIGHT
1296
25-Jul-2024
11:39



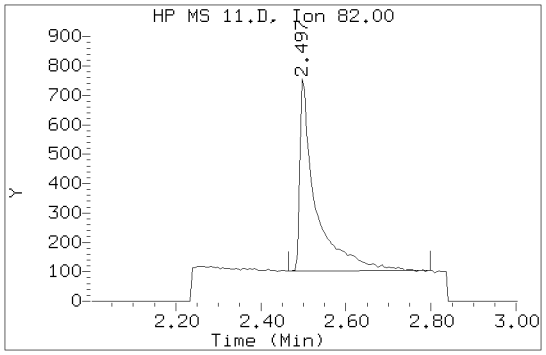
Nitrobenzene-d5 (4165-60-0)

Reason Code:

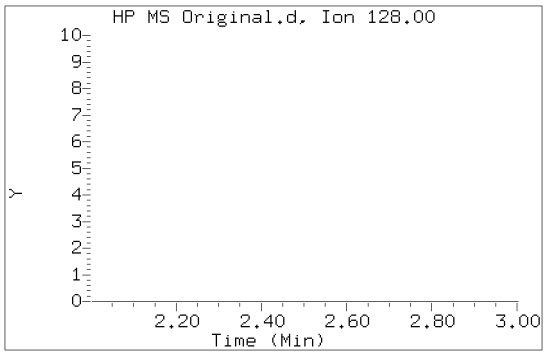
BEFORE
MASS
82
AREA
3957
HEIGHT
756
18-Apr-2024
15:08
ALSHS
Server



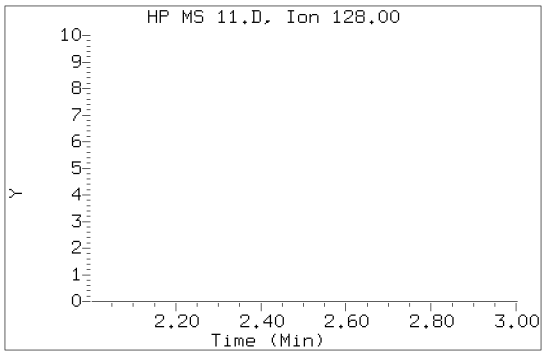
AFTER
MASS
82
AREA
1691
HEIGHT
653
25-Jul-2024
11:39



BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
25-Jul-2024
11:39

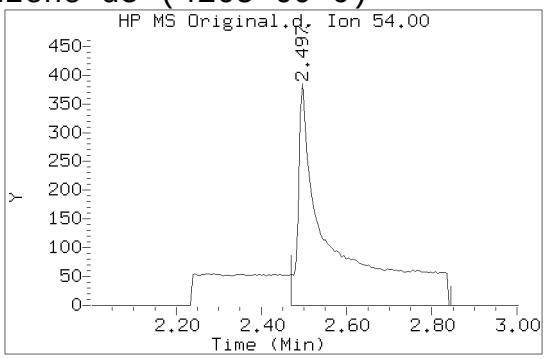


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Nitrobenzene-d5 (4165-60-0)

BEFORE

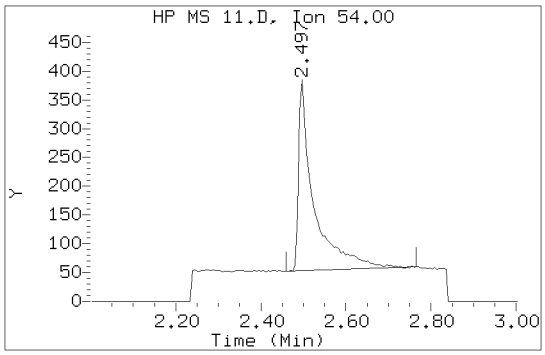
MASS
54
AREA
2061
HEIGHT
385
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
54
AREA
818
HEIGHT
332
25-Jul-2024
11:39

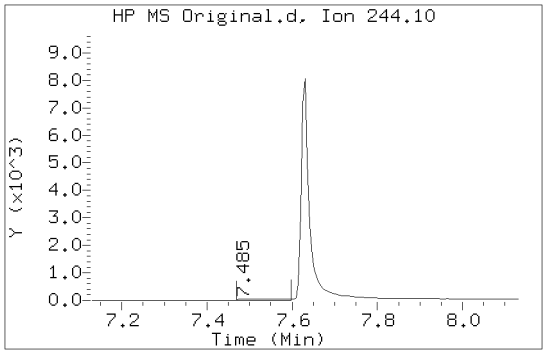
Reason Code:



4-Terphenyl-d14 (1718-51-0)

BEFORE

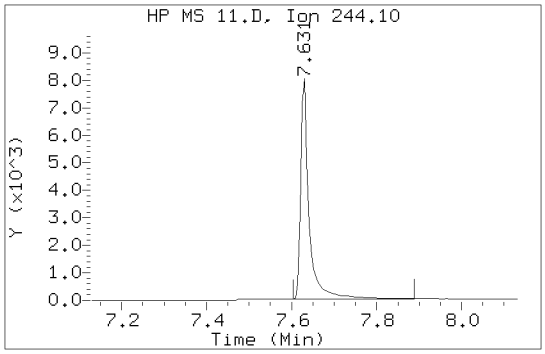
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

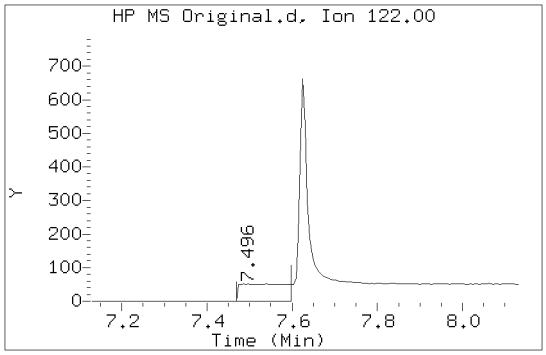
MASS
244.1
AREA
11331
HEIGHT
8023
25-Jul-2024
11:39

Reason Code:



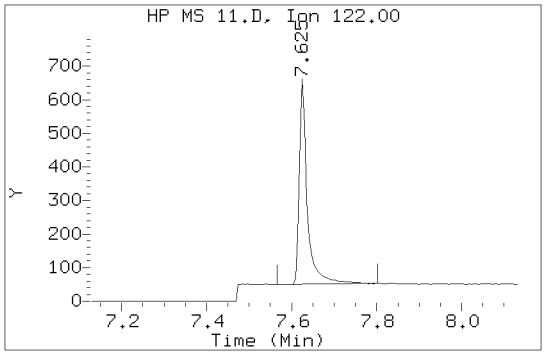
BEFORE

MASS
122
AREA
387
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



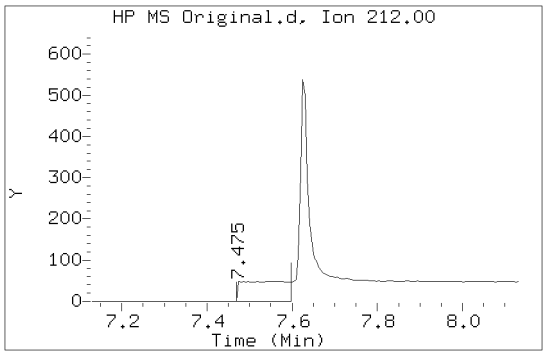
AFTER

MASS
122
AREA
801
HEIGHT
611
25-Jul-2024
11:39



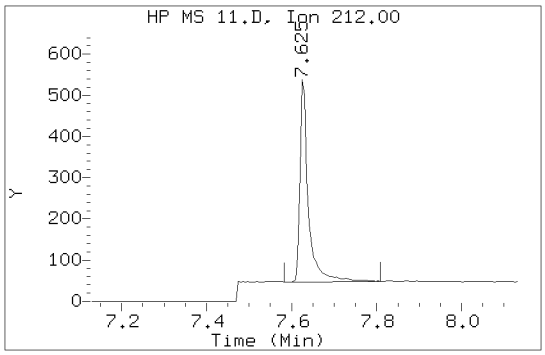
BEFORE

MASS
212
AREA
367
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
212
AREA
675
HEIGHT
490
25-Jul-2024
11:39



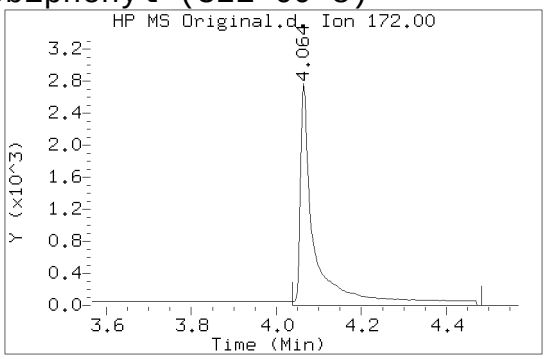
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

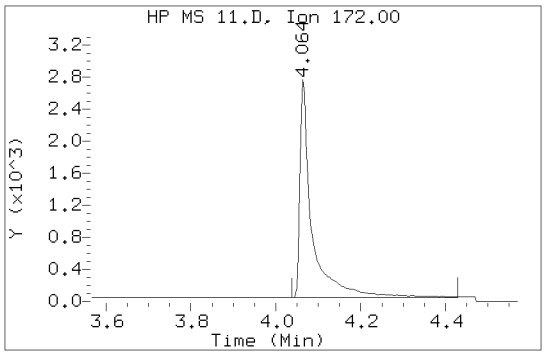
BEFORE

MASS
172
AREA
6739
HEIGHT
2770
18-Apr-2024
15:08
ALSHS
Server



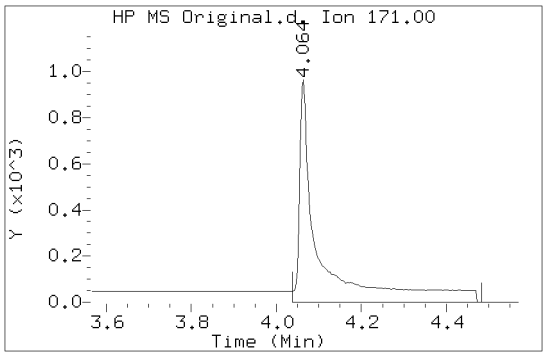
AFTER

MASS
172
AREA
5460
HEIGHT
2724
25-Jul-2024
11:39



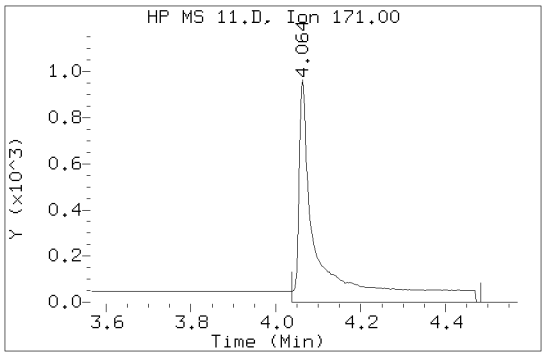
BEFORE

MASS
171
AREA
3102
HEIGHT
964
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
171
AREA
3102
HEIGHT
964
25-Jul-2024
11:39



HS24061313 - ME - HG_W_DODICP_W_DOD REV01

ALS WO# HS24061313

ALS Houston, US

Date: 13-Sep-24

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Instrument:ICPMS05

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: 13-Sep-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313
Start Date: 01-Jul-2024 End Date: 01-Jul-2024

Run ID:HG04_470995
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	01-Jul-2024 11:35	HG04_470995 Raw Data_8117491	HG
ICB	1	01-Jul-2024 11:37	_8117492	HG
CRA	1	01-Jul-2024 11:39	_8117493	HG
CCV 1	1	01-Jul-2024 11:45	_8117494	HG
CCB 1	1	01-Jul-2024 11:46	_8117495	HG
CCV 2	1	01-Jul-2024 12:10	_8117506	HG
CCB 2	1	01-Jul-2024 12:12	_8117507	HG
CCV 3	1	01-Jul-2024 12:31	_8117518	HG
CCB 3	1	01-Jul-2024 12:33	_8117519	HG
CCV 4	1	01-Jul-2024 13:00	_8117650	HG
CCB 4	1	01-Jul-2024 13:02	_8117651	HG
CCV 5	1	01-Jul-2024 13:30	_8117662	HG
CCB 5	1	01-Jul-2024 13:32	_8117663	HG
CCV 6	1	01-Jul-2024 13:51	_8117674	HG
CCB 6	1	01-Jul-2024 13:53	_8117675	HG
CCV 7	1	01-Jul-2024 14:15	_8117690	HG
CCB 7	1	01-Jul-2024 14:17	_8117691	HG
CCV 8	1	01-Jul-2024 14:40	_8117702	HG
CCB 8	1	01-Jul-2024 14:41	_8117703	HG
CCV 9	1	01-Jul-2024 14:56	_8117708	HG
CCB 9	1	01-Jul-2024 14:58	_8117709	HG
CCV 10	1	01-Jul-2024 16:35	_8117710	HG
CCB 10	1	01-Jul-2024 16:36	_8117711	HG
CCV 11	1	01-Jul-2024 17:01	_8117722	HG
CCB 11	1	01-Jul-2024 17:03	_8117723	HG
CCV 12	1	01-Jul-2024 17:23	_8117734	HG
CCB 12	1	01-Jul-2024 17:24	_8117735	HG
MBLK-214374	1	01-Jul-2024 17:38	_8117742	HG
LCS-214374	1	01-Jul-2024 17:39	_8117743	HG
CCV 13	1	01-Jul-2024 17:46	_8117746	HG
CCB 13	1	01-Jul-2024 17:48	_8117747	HG
18WW19_061924	1	01-Jul-2024 18:05	_8117757	HG
CCV 14	1	01-Jul-2024 18:08	_8117758	HG
CCB 14	1	01-Jul-2024 18:10	_8117759	HG
18WW19_061924MS	1	01-Jul-2024 18:13	_8117760	HG
18WW19_061924MSD	1	01-Jul-2024 18:15	_8117761	HG
18WW20_061924	1	01-Jul-2024 18:17	_8117762	HG
18WW25_061924	1	01-Jul-2024 18:19	_8117763	HG
125_061924	1	01-Jul-2024 18:20	_8117764	HG
CCV 15	1	01-Jul-2024 18:29	_8117765	HG
CCB 15	1	01-Jul-2024 18:31	_8117766	HG
CRA	1	01-Jul-2024 18:35	_8117767	HG

ALS Houston, US

Date: 13-Sep-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313
Start Date: 04-Jul-2024 End Date: 05-Jul-2024

Run ID:ICPMS05_471259
Instrument:ICPMS05
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS05_471259_Tune	1	04-Jul-2024 00:00	ICPMS05_471259_Tune_1	
CAL BLK	1	04-Jul-2024 10:00	011CALB.d_8123829	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	04-Jul-2024 10:02	012CALS.d_8123830	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	04-Jul-2024 10:04	013CALS.d_8123831	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/1000	1	04-Jul-2024 10:06	014CALS.d_8123832	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	04-Jul-2024 10:08	015CALS.d_8123833	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	04-Jul-2024 10:10	016CALS.d_8123834	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	04-Jul-2024 10:16	018_ICV.d_8123836	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	04-Jul-2024 10:20	020LCV2.d_8123838	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	04-Jul-2024 10:23	021LCV5.d_8123839	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	04-Jul-2024 10:27	023_ICB.d_8123841	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	04-Jul-2024 10:31	024ICSA.d_8123842	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	04-Jul-2024 10:33	025ICSB.d_8123843	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CAL BLK	1	04-Jul-2024 13:34	105CALB.d_8123929	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	04-Jul-2024 13:36	106CALS.d_8123930	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	04-Jul-2024 13:38	107CALS.d_8123931	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/1000	1	04-Jul-2024 13:40	108CALS.d_8123932	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	04-Jul-2024 13:42	109CALS.d_8123933	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	04-Jul-2024 13:45	110CALS.d_8123934	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	04-Jul-2024 13:52	112_ICV.d_8123936	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	04-Jul-2024 13:56	114LCV2.d_8123938	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	04-Jul-2024 13:58	115LCV5.d_8123939	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCB 1	1	04-Jul-2024 14:02	117_ICB.d_8123941	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CAL BLK	1	04-Jul-2024 18:10	216CALB.d_8124115	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	04-Jul-2024 18:12	217CALS.d_8124116	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	04-Jul-2024 18:14	218CALS.d_8124117	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/1000	1	04-Jul-2024 18:16	219CALS.d_8124118	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	04-Jul-2024 18:18	220CALS.d_8124119	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	04-Jul-2024 18:20	221CALS.d_8124120	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	04-Jul-2024 18:25	223_ICV.d_8124122	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	04-Jul-2024 18:29	225LCV2.d_8124124	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: 13-Sep-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313
Start Date: 04-Jul-2024 End Date: 05-Jul-2024

Run ID:ICPMS05_471259
Instrument:ICPMS05
Method:

Sample No.	D/F	Time	FileID	Analytes
LLCCV5	1	04-Jul-2024 18:31	226LCV5.d_8124125	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCB 2	1	04-Jul-2024 18:33	227_ICB.d_8124126	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	04-Jul-2024 20:00	266_CCV.d_8124129	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	04-Jul-2024 20:02	267_CCB.d_8124130	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 2	1	04-Jul-2024 21:05	276_CCV.d_8124135	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	04-Jul-2024 21:08	277_CCB.d_8124136	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	04-Jul-2024 21:27	284_CCV.d_8124143	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	04-Jul-2024 21:29	285_CCB.d_8124144	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	04-Jul-2024 21:52	295_CCV.d_8124165	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 6	1	04-Jul-2024 21:55	296_CCB.d_8124166	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	04-Jul-2024 22:21	307_CCV.d_8124153	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 7	1	04-Jul-2024 22:23	308_CCB.d_8124154	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-214353	1	04-Jul-2024 22:37	314SMPL.d_8124173	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	04-Jul-2024 22:42	316_CCV.d_8124175	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 8	1	04-Jul-2024 22:45	317_CCB.d_8124176	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZSD	5	04-Jul-2024 22:49	319SMPL.d_8124178	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZPDS	1	04-Jul-2024 22:57	322SMPL.d_8124181	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 7	1	04-Jul-2024 22:59	323_CCV.d_8124182	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 9	1	04-Jul-2024 23:02	324_CCB.d_8124183	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	04-Jul-2024 23:04	325ICSA.d_8124184	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	04-Jul-2024 23:06	326ICSB.d_8124185	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 8	1	04-Jul-2024 23:19	331_CCV.d_8124190	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 10	1	04-Jul-2024 23:21	332_CCB.d_8124191	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW19_061924	1	04-Jul-2024 23:24	333SMPL.d_8124192	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW19_061924SD	5	04-Jul-2024 23:26	334SMPL.d_8124193	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW19_061924PDS	1	04-Jul-2024 23:33	337SMPL.d_8124196	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 9	1	04-Jul-2024 23:36	338_CCV.d_8124197	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 11	1	04-Jul-2024 23:38	339_CCB.d_8124198	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW25_061924	10	04-Jul-2024 23:43	341SMPL.d_8124200	MN
CCV 10	1	04-Jul-2024 23:58	347_CCV.d_8124242	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 12	1	05-Jul-2024 00:01	348_CCB.d_8124243	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: 13-Sep-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313
Start Date: 04-Jul-2024 End Date: 05-Jul-2024

Run ID:ICPMS05_471259
Instrument:ICPMS05
Method:

Sample No.	D/F	Time	FileID	Analytes
18WW20_061924	1	05-Jul-2024 00:03	349SMPL.d_8124244	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW25_061924	1	05-Jul-2024 00:06	350SMPL.d_8124245	AG AL AS BA BE CA CD CO CR CU FE K MG NA NI PB SB SE TL V ZN
125_061924	1	05-Jul-2024 00:08	351SMPL.d_8124246	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 11	1	05-Jul-2024 00:21	356_CCV.d_8124251	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 13	1	05-Jul-2024 00:23	357_CCB.d_8124252	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 12	1	05-Jul-2024 00:39	363_CCV.d_8124265	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 14	1	05-Jul-2024 00:41	364_CCB.d_8124266	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 13	1	05-Jul-2024 01:03	372_CCV.d_8124254	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 15	1	05-Jul-2024 01:05	373_CCB.d_8124255	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	05-Jul-2024 01:08	374LCV2.d_8124256	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	05-Jul-2024 01:11	375LCV5.d_8124257	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	05-Jul-2024 01:13	376ICSA.d_8124258	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	05-Jul-2024 01:16	377ICSB.d_8124259	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: 13-Sep-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313
Start Date: 05-Jul-2024 End Date: 05-Jul-2024

Run ID:ICPMS05_471291
Instrument:ICPMS05
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS05_471291_Tune	1	05-Jul-2024 00:00	ICPMS05_471291_Tune_1	
CAL BLK	1	05-Jul-2024 09:55	011CALB.d_8124660	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	05-Jul-2024 09:57	012CALS.d_8124661	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	05-Jul-2024 09:59	013CALS.d_8124662	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/1000	1	05-Jul-2024 10:01	014CALS.d_8124645	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	05-Jul-2024 10:03	015CALS.d_8124646	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	05-Jul-2024 10:05	016CALS.d_8124647	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	05-Jul-2024 10:25	021_ICV.d_8124652	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	05-Jul-2024 10:29	023LCV2.d_8124654	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	05-Jul-2024 10:31	024LCV5.d_8124655	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	05-Jul-2024 10:36	026_ICB.d_8124657	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	05-Jul-2024 10:38	027ICSA.d_8124658	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	05-Jul-2024 10:40	028ICSB.d_8124659	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	05-Jul-2024 11:03	031_CCV.d_8124832	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	05-Jul-2024 11:05	032_CCB.d_8124833	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 2	1	05-Jul-2024 11:28	043_CCV.d_8124843	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	05-Jul-2024 11:30	044_CCB.d_8124844	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	05-Jul-2024 12:22	067_CCV.d_8124957	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	05-Jul-2024 12:24	068_CCB.d_8124958	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-214353	1	05-Jul-2024 12:28	070SMPL.d_8124960	AG AL AS BA CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMS	1	05-Jul-2024 12:34	073SMPL.d_8124963	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMSD	1	05-Jul-2024 12:37	074SMPL.d_8124964	AG AL AS BA BE CD CO CR CU MG MN NA NI SB SE TL
18WW19_061924MS	1	05-Jul-2024 12:41	076SMPL.d_8124966	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW19_061924MSD	1	05-Jul-2024 12:43	077SMPL.d_8124967	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	05-Jul-2024 12:47	079_CCV.d_8124969	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	05-Jul-2024 12:49	080_CCB.d_8124970	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMSD	1	05-Jul-2024 13:09	089SMPL.d_8125000	CD FE K PB V ZN
CCV 5	1	05-Jul-2024 13:13	091_CCV.d_8125002	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	05-Jul-2024 13:15	092_CCB.d_8125003	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-214353	1	05-Jul-2024 13:36	102SMPL.d_8125075	BE
CCV 6	1	05-Jul-2024 13:38	103_CCV.d_8125076	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 6	1	05-Jul-2024 13:40	104_CCB.d_8125077	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: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

ICV	Date: 01-Jul-2024 11:35		Seq: 8117491	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.04	101	90-110	

CCV1	Date: 01-Jul-2024 11:45		Seq: 8117494	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV2	Date: 01-Jul-2024 12:10		Seq: 8117506	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV3	Date: 01-Jul-2024 12:31		Seq: 8117518	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV4	Date: 01-Jul-2024 13:00		Seq: 8117650	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.99	100	90-110	

CCV5	Date: 01-Jul-2024 13:30		Seq: 8117662	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.74	95	90-110	

CCV6	Date: 01-Jul-2024 13:51		Seq: 8117674	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.99	100	90-110	

CCV7	Date: 01-Jul-2024 14:15		Seq: 8117690	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.98	100	90-110	

CCV8	Date: 01-Jul-2024 14:40		Seq: 8117702	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.99	100	90-110	

CCV9	Date: 01-Jul-2024 14:56		Seq: 8117708	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.03	101	90-110	

CCV10	Date: 01-Jul-2024 16:35		Seq: 8117710	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.97	99	90-110	

CCV11	Date: 01-Jul-2024 17:01		Seq: 8117722	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.94	99	90-110	

CCV12	Date: 01-Jul-2024 17:23		Seq: 8117734	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.95	99	90-110	

CCV13	Date: 01-Jul-2024 17:46		Seq: 8117746	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.98	100	90-110	

ALS Houston, US

Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

CCV14 Date: 01-Jul-2024 18:08 Seq: 8117758 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.91	98	90-110	

CCV15 Date: 01-Jul-2024 18:29 Seq: 8117765 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.83	97	90-110	

ALS Houston, US Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

ICV Date: 04-Jul-2024 10:16 Seq: 8123836 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.338	101	90-110	
Antimony	100	101.186	101	90-110	
Arsenic	100	100.487	100	90-110	
Barium	100	98.879	99	90-110	
Beryllium	100	100.241	100	90-110	
Cadmium	100	98.944	99	90-110	
Calcium	10000	9929.097	99	90-110	
Chromium	100	99.756	100	90-110	
Cobalt	100	100.792	101	90-110	
Copper	100	101.525	102	90-110	
Iron	10000	10015.584	100	90-110	
Lead	100	97.686	98	90-110	
Magnesium	10000	10093.572	101	90-110	
Manganese	100	101.207	101	90-110	
Nickel	100	101.838	102	90-110	
Potassium	10000	10097.162	101	90-110	
Selenium	100	99.95	100	90-110	
Silver	100	106.776	107	90-110	
Sodium	10000	9939.74	99	90-110	
Thallium	100	97.995	98	90-110	
Vanadium	100	98.636	99	90-110	
Zinc	100	100.824	101	90-110	

ICV Date: 04-Jul-2024 13:52 Seq: 8123936 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.275	101	90-110	
Antimony	100	103.294	103	90-110	
Arsenic	100	102.316	102	90-110	
Barium	100	100.86	101	90-110	
Beryllium	100	101.018	101	90-110	
Cadmium	100	101.692	102	90-110	
Calcium	10000	10108.986	101	90-110	
Chromium	100	101.875	102	90-110	
Cobalt	100	102.392	102	90-110	
Copper	100	102.194	102	90-110	
Iron	10000	10128.543	101	90-110	
Lead	100	99.381	99	90-110	
Magnesium	10000	10327.391	103	90-110	
Manganese	100	102.044	102	90-110	
Nickel	100	102.749	103	90-110	
Potassium	10000	10175.834	102	90-110	
Selenium	100	101.2	101	90-110	
Silver	100	109.017	109	90-110	
Sodium	10000	10180.742	102	90-110	
Thallium	100	95.605	96	90-110	
Vanadium	100	102.69	103	90-110	
Zinc	100	101.535	102	90-110	

ICV Date: 04-Jul-2024 18:25 Seq: 8124122 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	100.691	101	90-110	
Antimony	100	103.735	104	90-110	
Arsenic	100	103.816	104	90-110	
Barium	100	101.572	102	90-110	
Beryllium	100	96.454	97	90-110	

ALS Houston, US Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

ICV Date: 04-Jul-2024 18:25 Seq: 8124122 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	101.245	101	90-110	
Calcium	10000	10159.001	102	90-110	
Chromium	100	102.839	103	90-110	
Cobalt	100	104.12	104	90-110	
Copper	100	104.489	104	90-110	
Iron	10000	10340.94	103	90-110	
Lead	100	100.98	101	90-110	
Magnesium	10000	10182.219	102	90-110	
Manganese	100	103.634	104	90-110	
Nickel	100	103.839	104	90-110	
Potassium	10000	10370.018	104	90-110	
Selenium	100	105.248	105	90-110	
Silver	100	108.144	108	90-110	
Sodium	10000	10061.114	101	90-110	
Thallium	100	104.663	105	90-110	
Vanadium	100	102.595	103	90-110	
Zinc	100	103.783	104	90-110	

CCV1 Date: 04-Jul-2024 20:00 Seq: 8124129 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.146	101	90-110	
Antimony	100	98.83	99	90-110	
Arsenic	100	98.037	98	90-110	
Barium	100	97.381	97	90-110	
Beryllium	100	91.236	91	90-110	
Cadmium	100	97.264	97	90-110	
Calcium	10000	9749.158	98	90-110	
Chromium	100	98.833	99	90-110	
Cobalt	100	99.832	100	90-110	
Copper	100	98.676	99	90-110	
Iron	10000	10175.046	102	90-110	
Lead	100	96.878	97	90-110	
Magnesium	10000	9770.096	98	90-110	
Manganese	100	100.033	100	90-110	
Nickel	100	100.169	100	90-110	
Potassium	10000	9897.656	99	90-110	
Selenium	100	98.389	98	90-110	
Silver	100	104.478	104	90-110	
Sodium	10000	9757.065	98	90-110	
Thallium	100	99.227	99	90-110	
Vanadium	100	97.932	98	90-110	
Zinc	100	98.35	98	90-110	

CCV2 Date: 04-Jul-2024 21:05 Seq: 8124135 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	103.565	104	90-110	
Antimony	100	98.424	98	90-110	
Arsenic	100	99.291	99	90-110	
Barium	100	98.812	99	90-110	
Beryllium	100	92.676	93	90-110	
Cadmium	100	97.328	97	90-110	
Calcium	10000	10036.024	100	90-110	
Chromium	100	100.4	100	90-110	
Cobalt	100	99.976	100	90-110	
Copper	100	100.255	100	90-110	

ALS Houston, US Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCV2 Date: 04-Jul-2024 21:05 Seq: 8124135 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	10071.554	101	90-110	
Lead	100	95.813	96	90-110	
Magnesium	10000	9936.833	99	90-110	
Manganese	100	100.141	100	90-110	
Nickel	100	100.694	101	90-110	
Potassium	10000	10186.292	102	90-110	
Selenium	100	99.206	99	90-110	
Silver	100	107.764	108	90-110	
Sodium	10000	9965.626	100	90-110	
Thallium	100	97.216	97	90-110	
Vanadium	100	99.383	99	90-110	
Zinc	100	99.394	99	90-110	

CCV3 Date: 04-Jul-2024 21:27 Seq: 8124143 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.991	102	90-110	
Antimony	100	97.298	97	90-110	
Arsenic	100	98.127	98	90-110	
Barium	100	97.392	97	90-110	
Beryllium	100	93.019	93	90-110	
Cadmium	100	95.923	96	90-110	
Calcium	10000	9807.117	98	90-110	
Chromium	100	98.036	98	90-110	
Cobalt	100	99.109	99	90-110	
Copper	100	98.177	98	90-110	
Iron	10000	10095.315	101	90-110	
Lead	100	97.651	98	90-110	
Magnesium	10000	9748.417	98	90-110	
Manganese	100	100.819	101	90-110	
Nickel	100	99.094	99	90-110	
Potassium	10000	9992.43	100	90-110	
Selenium	100	100.403	100	90-110	
Silver	100	106.167	106	90-110	
Sodium	10000	9778.014	98	90-110	
Thallium	100	98.884	99	90-110	
Vanadium	100	97.88	98	90-110	
Zinc	100	99.284	99	90-110	

CCV4 Date: 04-Jul-2024 21:52 Seq: 8124165 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.082	101	90-110	
Antimony	100	95.664	96	90-110	
Arsenic	100	97.047	97	90-110	
Barium	100	98.085	98	90-110	
Beryllium	100	94.457	95	90-110	
Cadmium	100	97.96	98	90-110	
Calcium	10000	9716.784	97	90-110	
Chromium	100	97.273	97	90-110	
Cobalt	100	98.661	99	90-110	
Copper	100	98.821	99	90-110	
Iron	10000	9959.382	100	90-110	
Lead	100	96.813	97	90-110	
Magnesium	10000	9773.228	98	90-110	
Manganese	100	99.533	100	90-110	
Nickel	100	99.409	99	90-110	

ALS Houston, US Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCV4 Date: 04-Jul-2024 21:52 Seq: 8124165 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	10012.936	100	90-110	
Selenium	100	98.182	98	90-110	
Silver	100	106.078	106	90-110	
Sodium	10000	9604.954	96	90-110	
Thallium	100	99.223	99	90-110	
Vanadium	100	96.512	97	90-110	
Zinc	100	97.533	98	90-110	

CCV5 Date: 04-Jul-2024 22:21 Seq: 8124153 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.638	103	90-110	
Antimony	100	98.356	98	90-110	
Arsenic	100	97.971	98	90-110	
Barium	100	99.73	100	90-110	
Beryllium	100	91.676	92	90-110	
Cadmium	100	97.6	98	90-110	
Calcium	10000	9790.454	98	90-110	
Chromium	100	99.659	100	90-110	
Cobalt	100	100.001	100	90-110	
Copper	100	100.014	100	90-110	
Iron	10000	10031.373	100	90-110	
Lead	100	97.803	98	90-110	
Magnesium	10000	9815.898	98	90-110	
Manganese	100	100.243	100	90-110	
Nickel	100	100.802	101	90-110	
Potassium	10000	10120.978	101	90-110	
Selenium	100	98.741	99	90-110	
Silver	100	107.216	107	90-110	
Sodium	10000	9647.472	97	90-110	
Thallium	100	99.804	100	90-110	
Vanadium	100	99.075	99	90-110	
Zinc	100	98.163	98	90-110	

CCV6 Date: 04-Jul-2024 22:42 Seq: 8124175 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.505	103	90-110	
Antimony	100	97.923	98	90-110	
Arsenic	100	97.652	98	90-110	
Barium	100	98.4	98	90-110	
Beryllium	100	94.528	95	90-110	
Cadmium	100	97.785	98	90-110	
Calcium	10000	9791.31	98	90-110	
Chromium	100	99.053	99	90-110	
Cobalt	100	99.243	99	90-110	
Copper	100	100.002	100	90-110	
Iron	10000	10021.616	100	90-110	
Lead	100	97.564	98	90-110	
Magnesium	10000	9721.134	97	90-110	
Manganese	100	99.685	100	90-110	
Nickel	100	101.003	101	90-110	
Potassium	10000	10062.183	101	90-110	
Selenium	100	98.794	99	90-110	
Silver	100	107.795	108	90-110	
Sodium	10000	9772.635	98	90-110	
Thallium	100	98.947	99	90-110	

ALS Houston, US Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCV6 Date: 04-Jul-2024 22:42 Seq: 8124175 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Vanadium	100	99.249	99	90-110	
Zinc	100	98.784	99	90-110	

CCV7 Date: 04-Jul-2024 22:59 Seq: 8124182 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	103.277	103	90-110	
Antimony	100	97.685	98	90-110	
Arsenic	100	97.243	97	90-110	
Barium	100	98.238	98	90-110	
Beryllium	100	94.103	94	90-110	
Cadmium	100	97.582	98	90-110	
Calcium	10000	9798.956	98	90-110	
Chromium	100	98.808	99	90-110	
Cobalt	100	99.527	100	90-110	
Copper	100	99.815	100	90-110	
Iron	10000	10036.811	100	90-110	
Lead	100	97.436	97	90-110	
Magnesium	10000	9832.94	98	90-110	
Manganese	100	99.876	100	90-110	
Nickel	100	101.348	101	90-110	
Potassium	10000	10120.746	101	90-110	
Selenium	100	98.079	98	90-110	
Silver	100	107.268	107	90-110	
Sodium	10000	9745.026	98	90-110	
Thallium	100	99.623	100	90-110	
Vanadium	100	98.058	98	90-110	
Zinc	100	98.762	99	90-110	

CCV8 Date: 04-Jul-2024 23:19 Seq: 8124190 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.764	103	90-110	
Antimony	100	97.643	98	90-110	
Arsenic	100	96.949	97	90-110	
Barium	100	98.058	98	90-110	
Beryllium	100	95.236	95	90-110	
Cadmium	100	97.968	98	90-110	
Calcium	10000	9653.939	97	90-110	
Chromium	100	97.754	98	90-110	
Cobalt	100	98.119	98	90-110	
Copper	100	98.056	98	90-110	
Iron	10000	9961.918	100	90-110	
Lead	100	97.513	98	90-110	
Magnesium	10000	9548.768	96	90-110	
Manganese	100	97.592	98	90-110	
Nickel	100	98.311	98	90-110	
Potassium	10000	9911.72	99	90-110	
Selenium	100	97.56	98	90-110	
Silver	100	106.424	106	90-110	
Sodium	10000	9482.102	95	90-110	
Thallium	100	99.418	99	90-110	
Vanadium	100	97.427	97	90-110	
Zinc	100	97.514	98	90-110	

ALS Houston, US

Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCV9 Date: 04-Jul-2024 23:36 Seq: 8124197 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.824	103	90-110	
Antimony	100	97.811	98	90-110	
Arsenic	100	98.426	98	90-110	
Barium	100	98.048	98	90-110	
Beryllium	100	94.694	95	90-110	
Cadmium	100	96.837	97	90-110	
Calcium	10000	9747.528	98	90-110	
Chromium	100	99.355	99	90-110	
Cobalt	100	99.945	100	90-110	
Copper	100	99.468	100	90-110	
Iron	10000	10234.157	102	90-110	
Lead	100	97.429	97	90-110	
Magnesium	10000	9874.26	99	90-110	
Manganese	100	100.165	100	90-110	
Nickel	100	99.904	100	90-110	
Potassium	10000	10160.719	102	90-110	
Selenium	100	95.943	96	90-110	
Silver	100	106.064	106	90-110	
Sodium	10000	9788.041	98	90-110	
Thallium	100	99.785	100	90-110	
Vanadium	100	98.767	99	90-110	
Zinc	100	98.497	99	90-110	

CCV10 Date: 04-Jul-2024 23:58 Seq: 8124242 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.708	102	90-110	
Antimony	100	95.836	96	90-110	
Arsenic	100	96.476	97	90-110	
Barium	100	96.951	97	90-110	
Beryllium	100	94.615	95	90-110	
Cadmium	100	96.669	97	90-110	
Calcium	10000	9689.132	97	90-110	
Chromium	100	98.292	98	90-110	
Cobalt	100	99.085	99	90-110	
Copper	100	99.135	99	90-110	
Iron	10000	10074.28	101	90-110	
Lead	100	95.925	96	90-110	
Magnesium	10000	9883.253	99	90-110	
Manganese	100	98.567	99	90-110	
Nickel	100	99.149	99	90-110	
Potassium	10000	10008.905	100	90-110	
Selenium	100	96.83	97	90-110	
Silver	100	106.132	106	90-110	
Sodium	10000	9686.168	97	90-110	
Thallium	100	96.636	97	90-110	
Vanadium	100	97.425	97	90-110	
Zinc	100	97.514	98	90-110	

CCV11 Date: 05-Jul-2024 00:21 Seq: 8124251 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	100.314	100	90-110	
Antimony	100	95.182	95	90-110	
Arsenic	100	96.2	96	90-110	
Barium	100	99.231	99	90-110	
Beryllium	100	94.163	94	90-110	

ALS Houston, US Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCV11 Date: 05-Jul-2024 00:21 Seq: 8124251 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	96.312	96	90-110	
Calcium	10000	9635.588	96	90-110	
Chromium	100	97.576	98	90-110	
Cobalt	100	98.507	99	90-110	
Copper	100	99.465	100	90-110	
Iron	10000	10013.39	100	90-110	
Lead	100	96.7	97	90-110	
Magnesium	10000	9619.771	96	90-110	
Manganese	100	98.128	98	90-110	
Nickel	100	99.59	100	90-110	
Potassium	10000	9984.452	100	90-110	
Selenium	100	97.169	97	90-110	
Silver	100	105.369	105	90-110	
Sodium	10000	9599.232	96	90-110	
Thallium	100	97.825	98	90-110	
Vanadium	100	97.024	97	90-110	
Zinc	100	97.357	97	90-110	

CCV12 Date: 05-Jul-2024 00:39 Seq: 8124265 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.324	97	90-110	
Antimony	100	96.829	97	90-110	
Arsenic	100	98.365	98	90-110	
Barium	100	98.529	99	90-110	
Beryllium	100	96.648	97	90-110	
Cadmium	100	98.141	98	90-110	
Calcium	10000	9824.552	98	90-110	
Chromium	100	100.058	100	90-110	
Cobalt	100	100.898	101	90-110	
Copper	100	101.29	101	90-110	
Iron	10000	10219.717	102	90-110	
Lead	100	98.251	98	90-110	
Magnesium	10000	10051.943	101	90-110	
Manganese	100	99.754	100	90-110	
Nickel	100	100.874	101	90-110	
Potassium	10000	10179.555	102	90-110	
Selenium	100	97.802	98	90-110	
Silver	100	104.602	105	90-110	
Sodium	10000	9849.517	99	90-110	
Thallium	100	99.822	100	90-110	
Vanadium	100	99.114	99	90-110	
Zinc	100	98.854	99	90-110	

CCV13 Date: 05-Jul-2024 01:03 Seq: 8124254 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.318	98	90-110	
Antimony	100	99.639	100	90-110	
Arsenic	100	98.725	99	90-110	
Barium	100	98.755	99	90-110	
Beryllium	100	92.524	93	90-110	
Cadmium	100	96.65	97	90-110	
Calcium	10000	9862.818	99	90-110	
Chromium	100	99.859	100	90-110	
Cobalt	100	100.744	101	90-110	
Copper	100	100.627	101	90-110	

ALS Houston, US Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCV13 Date: 05-Jul-2024 01:03 Seq: 8124254 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	10309.387	103	90-110	
Lead	100	95.126	95	90-110	
Magnesium	10000	10073.882	101	90-110	
Manganese	100	100.687	101	90-110	
Nickel	100	101.598	102	90-110	
Potassium	10000	10091.23	101	90-110	
Selenium	100	97.582	98	90-110	
Silver	100	102.375	102	90-110	
Sodium	10000	9877.003	99	90-110	
Thallium	100	97.122	97	90-110	
Vanadium	100	99.365	99	90-110	
Zinc	100	98.68	99	90-110	

ALS Houston, US

Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471291
Instrument: ICPMS05
Method: SW6020A

ICV | Date: 05-Jul-2024 10:25 | Seq: 8124652 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.474	102	90-110	
Antimony	100	100.9	101	90-110	
Arsenic	100	101.938	102	90-110	
Barium	100	99.15	99	90-110	
Beryllium	100	97.121	97	90-110	
Cadmium	100	99.959	100	90-110	
Calcium	10000	10229.122	102	90-110	
Chromium	100	101.305	101	90-110	
Cobalt	100	101.862	102	90-110	
Copper	100	101.579	102	90-110	
Iron	10000	10196.773	102	90-110	
Lead	100	98.658	99	90-110	
Magnesium	10000	10324.495	103	90-110	
Manganese	100	100.916	101	90-110	
Nickel	100	102.04	102	90-110	
Potassium	10000	10294.027	103	90-110	
Selenium	100	103.308	103	90-110	
Silver	100	99.674	100	90-110	
Sodium	10000	10155.898	102	90-110	
Thallium	100	99.664	100	90-110	
Vanadium	100	101.346	101	90-110	
Zinc	100	103.727	104	90-110	

CCV1 | Date: 05-Jul-2024 11:03 | Seq: 8124832 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.869	103	90-110	
Antimony	100	105.68	106	90-110	
Arsenic	100	103.798	104	90-110	
Barium	100	104.643	105	90-110	
Beryllium	100	101.226	101	90-110	
Cadmium	100	106.703	107	90-110	
Calcium	10000	9866.957	99	90-110	
Chromium	100	105.818	106	90-110	
Cobalt	100	105.681	106	90-110	
Copper	100	106.148	106	90-110	
Iron	10000	10060.917	101	90-110	
Lead	100	105.475	105	90-110	
Magnesium	10000	9994.9	100	90-110	
Manganese	100	104.594	105	90-110	
Nickel	100	106.522	107	90-110	
Potassium	10000	10021.596	100	90-110	
Selenium	100	105.706	106	90-110	
Silver	100	102.72	103	90-110	
Sodium	10000	9735.074	97	90-110	
Thallium	100	109.812	110	90-110	
Vanadium	100	105.378	105	90-110	
Zinc	100	102.558	103	90-110	

CCV2 | Date: 05-Jul-2024 11:28 | Seq: 8124843 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	105.453	105	90-110	
Antimony	100	107.139	107	90-110	
Arsenic	100	104.496	104	90-110	
Barium	100	104.436	104	90-110	
Beryllium	100	101.622	102	90-110	

ALS Houston, US Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471291
Instrument: ICPMS05
Method: SW6020A

CCV2 Date: 05-Jul-2024 11:28 Seq: 8124843 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	107.202	107	90-110	
Calcium	10000	9981.613	100	90-110	
Chromium	100	106.39	106	90-110	
Cobalt	100	106.331	106	90-110	
Copper	100	107.891	108	90-110	
Iron	10000	10039.249	100	90-110	
Lead	100	105.576	106	90-110	
Magnesium	10000	10168.615	102	90-110	
Manganese	100	104.75	105	90-110	
Nickel	100	106.979	107	90-110	
Potassium	10000	10074.423	101	90-110	
Selenium	100	104.597	105	90-110	
Silver	100	103.048	103	90-110	
Sodium	10000	10020.69	100	90-110	
Thallium	100	108.944	109	90-110	
Vanadium	100	106.378	106	90-110	
Zinc	100	103.072	103	90-110	

CCV3 Date: 05-Jul-2024 12:22 Seq: 8124957 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	100.708	101	90-110	
Antimony	100	108.511	109	90-110	
Arsenic	100	104.683	105	90-110	
Barium	100	103.317	103	90-110	
Beryllium	100	99.969	100	90-110	
Cadmium	100	103.38	103	90-110	
Calcium	10000	9631.848	96	90-110	
Chromium	100	102.456	102	90-110	
Cobalt	100	103.593	104	90-110	
Copper	100	104.229	104	90-110	
Iron	10000	9865.711	99	90-110	
Lead	100	104.225	104	90-110	
Magnesium	10000	9763.05	98	90-110	
Manganese	100	102.193	102	90-110	
Nickel	100	103.275	103	90-110	
Potassium	10000	9693.662	97	90-110	
Selenium	100	104.736	105	90-110	
Silver	100	99.64	100	90-110	
Sodium	10000	9549.73	96	90-110	
Thallium	100	107.6	108	90-110	
Vanadium	100	103.037	103	90-110	
Zinc	100	102.925	103	90-110	

CCV4 Date: 05-Jul-2024 12:47 Seq: 8124969 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	100.887	101	90-110	
Antimony	100	109.228	109	90-110	
Arsenic	100	103.857	104	90-110	
Barium	100	104.262	104	90-110	
Beryllium	100	100.679	101	90-110	
Cadmium	100	104.771	105	90-110	
Calcium	10000	9615.523	96	90-110	
Chromium	100	102.267	102	90-110	
Cobalt	100	102.713	103	90-110	
Copper	100	103.277	103	90-110	

ALS Houston, US Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471291
Instrument: ICPMS05
Method: SW6020A

CCV4 Date: 05-Jul-2024 12:47 Seq: 8124969 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	9709.793	97	90-110	
Lead	100	104.985	105	90-110	
Magnesium	10000	9658.1	97	90-110	
Manganese	100	101.231	101	90-110	
Nickel	100	102.033	102	90-110	
Potassium	10000	9749.993	98	90-110	
Selenium	100	104.332	104	90-110	
Silver	100	100.238	100	90-110	
Sodium	10000	9444.749	94	90-110	
Thallium	100	107.754	108	90-110	
Vanadium	100	101.682	102	90-110	
Zinc	100	101.51	102	90-110	

CCV5 Date: 05-Jul-2024 13:13 Seq: 8125002 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	103.287	103	90-110	
Antimony	100	100.683	101	90-110	
Arsenic	100	98.623	99	90-110	
Barium	100	100.222	100	90-110	
Beryllium	100	94.809	95	90-110	
Cadmium	100	99.018	99	90-110	
Calcium	10000	9576.124	96	90-110	
Chromium	100	97.404	97	90-110	
Cobalt	100	98.086	98	90-110	
Copper	100	98.933	99	90-110	
Iron	10000	9723.785	97	90-110	
Lead	100	99.839	100	90-110	
Magnesium	10000	9637.197	96	90-110	
Manganese	100	97.712	98	90-110	
Nickel	100	98.848	99	90-110	
Potassium	10000	9589.158	96	90-110	
Selenium	100	99.113	99	90-110	
Silver	100	93.207	93	90-110	
Sodium	10000	9560.044	96	90-110	
Thallium	100	101.143	101	90-110	
Vanadium	100	97.356	97	90-110	
Zinc	100	96.87	97	90-110	

CCV6 Date: 05-Jul-2024 13:38 Seq: 8125076 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	105.018	105	90-110	
Antimony	100	103.999	104	90-110	
Arsenic	100	99.097	99	90-110	
Barium	100	100.567	101	90-110	
Beryllium	100	94.51	95	90-110	
Cadmium	100	99.428	99	90-110	
Calcium	10000	9676.986	97	90-110	
Chromium	100	97.658	98	90-110	
Cobalt	100	98.152	98	90-110	
Copper	100	99.31	99	90-110	
Iron	10000	9915.423	99	90-110	
Lead	100	102.129	102	90-110	
Magnesium	10000	9887.571	99	90-110	
Manganese	100	99.115	99	90-110	
Nickel	100	99.468	100	90-110	

ALS Houston, US Date: 13-Sep-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471291
Instrument: ICPMS05
Method: SW6020A

CCV6 Date: 05-Jul-2024 13:38 Seq: 8125076 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9992.777	100	90-110	
Selenium	100	99.348	99	90-110	
Silver	100	92.946	93	90-110	
Sodium	10000	9704.176	97	90-110	
Thallium	100	103.302	103	90-110	
Vanadium	100	98.602	99	90-110	
Zinc	100	100.042	100	90-110	

ALS Houston, US

Date: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

ICB	Date: 01-Jul-2024 11:37		Seq: 8117492	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB1	Date: 01-Jul-2024 11:46		Seq: 8117495	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	-0.033	0.03	0.2	J	
CCB2	Date: 01-Jul-2024 12:12		Seq: 8117507	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB3	Date: 01-Jul-2024 12:33		Seq: 8117519	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB4	Date: 01-Jul-2024 13:02		Seq: 8117651	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB5	Date: 01-Jul-2024 13:32		Seq: 8117663	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB6	Date: 01-Jul-2024 13:53		Seq: 8117675	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB7	Date: 01-Jul-2024 14:17		Seq: 8117691	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB8	Date: 01-Jul-2024 14:41		Seq: 8117703	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB9	Date: 01-Jul-2024 14:58		Seq: 8117709	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB10	Date: 01-Jul-2024 16:36		Seq: 8117711	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB11	Date: 01-Jul-2024 17:03		Seq: 8117723	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB12	Date: 01-Jul-2024 17:24		Seq: 8117735	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
MBLK-214374	Date: 01-Jul-2024 17:38		Seq: 8117742	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB13	Date: 01-Jul-2024 17:48		Seq: 8117747	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

ALS Houston, US Date: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: HG04_470995
Instrument: HG04
Method: SW7470A

CCB14	Date: 01-Jul-2024 18:10		Seq: 8117759	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB15	Date: 01-Jul-2024 18:31		Seq: 8117766	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

ALS Houston, US Date: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

ICB	Date: 04-Jul-2024 10:27		Seq: 8123841	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-1.892	1.8	10	J	
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	-0.545	0.4	5	J	
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	5	0.7	5	U	
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	

ICCB1	Date: 04-Jul-2024 14:02		Seq: 8123941	CCB	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	-0.581	0.4	5	J	
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	5	0.7	5	U	
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	

ICCB2	Date: 04-Jul-2024 18:33		Seq: 8124126	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-1.987	1.8	10	J	
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: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

ICCB2	Date: 04-Jul-2024 18:33		Seq: 8124126	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.447	0.4	5	J	
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	5	0.7	5	U	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	-49.76	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB3	Date: 04-Jul-2024 20:02		Seq: 8124130	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.536	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	-0.425	0.4	4	J	
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	-28.94	14	200	J	
Thallium	0.399	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 04-Jul-2024 21:08		Seq: 8124136	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.456	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	-0.445	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

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Date: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCB4	Date: 04-Jul-2024 21:08		Seq: 8124136	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	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-40.11	14	200	J	
Thallium	0.402	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 04-Jul-2024 21:29		Seq: 8124144	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.636	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	-0.412	0.4	4	J	
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	43.58	14	200	J	
Thallium	0.451	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB6	Date: 04-Jul-2024 21:55		Seq: 8124166	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.707	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	-0.412	0.4	4	J	
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: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCB6	Date: 04-Jul-2024 21:55		Seq: 8124166	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	-68.26	14	200	J	
Thallium	0.469	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB7	Date: 04-Jul-2024 22:23		Seq: 8124154	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.525	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	-0.469	0.4	4	J	
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	-40.99	14	200	J	
Thallium	0.436	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-214353	Date: 04-Jul-2024 22:37		Seq: 8124173	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.412	0.4	5	J	
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	5	0.7	5	U	
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	

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Date: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

MBLK-214353	Date: 04-Jul-2024 22:37		Seq: 8124173	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB8	Date: 04-Jul-2024 22:45		Seq: 8124176	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-1.955	1.8	10	J	
Antimony	0.691	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	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-80.84	14	200	J	
Thallium	0.48	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB9	Date: 04-Jul-2024 23:02		Seq: 8124183	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.804	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	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-89.11	14	200	J	
Thallium	0.503	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

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Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCB10	Date: 04-Jul-2024 23:21		Seq: 8124191	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.884	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	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-108.6	14	200	J	
Thallium	0.48	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB11	Date: 04-Jul-2024 23:38		Seq: 8124198	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.821	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	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-107.3	14	200	J	
Thallium	0.491	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB12	Date: 05-Jul-2024 00:01		Seq: 8124243	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-1.852	1.8	10	J	
Antimony	0.468	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	

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Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCB12	Date: 05-Jul-2024 00:01		Seq: 8124243	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
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	-112.3	14	200	J	
Thallium	0.473	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB13	Date: 05-Jul-2024 00:23		Seq: 8124252	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.432	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	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-102.8	14	200	J	
Thallium	0.482	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB14	Date: 05-Jul-2024 00:41		Seq: 8124266	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-1.815	1.8	10	J	
Antimony	0.471	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	

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Date: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

CCB14	Date: 05-Jul-2024 00:41		Seq: 8124266	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	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-84.25	14	200	J	
Thallium	0.392	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB15	Date: 05-Jul-2024 01:05		Seq: 8124255	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-1.946	1.8	10	J	
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	-49.96	14	200	J	
Thallium	0.389	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

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Date: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471291
Instrument: ICPMS05
Method: SW6020A

ICB	Date: 05-Jul-2024 10:36		Seq: 8124657	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	-0.534	0.4	5	J	
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	5	0.7	5	U	
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: 05-Jul-2024 11:05		Seq: 8124833	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	200	14	200	U	
Thallium	0.378	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB2	Date: 05-Jul-2024 11:30		Seq: 8124844	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	

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Date: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471291
Instrument: ICPMS05
Method: SW6020A

CCB2	Date: 05-Jul-2024 11:30		Seq: 8124844	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
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	200	14	200	U	
Thallium	0.361	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB3	Date: 05-Jul-2024 12:24		Seq: 8124958	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	14.87	14	200	J	
Thallium	0.402	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 05-Jul-2024 12:49		Seq: 8124970	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: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471291
Instrument: ICPMS05
Method: SW6020A

CCB4	Date: 05-Jul-2024 12:49		Seq: 8124970	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	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	14.46	14	200	J	
Thallium	0.417	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 05-Jul-2024 13:15		Seq: 8125003	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.662	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	-0.452	0.4	4	J	
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	200	14	200	U	
Thallium	0.369	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB6	Date: 05-Jul-2024 13:40		Seq: 8125077	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	0.628	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	

ALS Houston, US Date: 13-Sep-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471291
Instrument: ICPMS05
Method: SW6020A

CCB6 | Date: 05-Jul-2024 13:40 | Seq: 8125077 | 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	15.72	14	200	J
Thallium	0.413	0.2	2	J
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US Date: 13-Sep-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS05_471259
Project: LHAAP 18 24 Instrument:ICPMS05
WorkOrder: HS24061313 Method:SW6020A

ICSA	Date: 04-Jul-2024 10:31	Seq: 8123842	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	104800	105	
Antimony		0.185	0	
Arsenic		0.444	0	
Barium		0.664	0	
Beryllium		0.038	0	
Cadmium		0.73	0	
Calcium	100000	103700	104	
Chromium		0.877	0	
Cobalt		1.047	0	
Copper		0.879	0	
Iron	100000	103800	104	
Lead		0.965	0	
Magnesium	100000	105300	105	
Manganese		1.538	0	
Nickel		1.173	0	
Potassium	100000	107300	107	
Selenium		-0.009	0	
Silver		0.045	0	
Sodium	100000	106300	106	
Thallium		0.018	0	
Vanadium		0.202	0	
Zinc		3.434	0	

ICSAB	Date: 04-Jul-2024 10:33	Seq: 8123843	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	102600	102	
Antimony	100	99.66	99.7	
Arsenic	100	101.4	101	
Barium	100	103.8	104	
Beryllium	100	93.87	93.9	
Cadmium	100	100.3	100	
Calcium	110000	112100	102	
Chromium	100	96.98	97.0	
Cobalt	100	96.18	96.2	
Copper	100	92.72	92.7	
Iron	110000	112300	102	
Lead	100	101.7	102	
Magnesium	110000	112200	102	
Manganese	100	99.6	99.6	
Nickel	100	94.83	94.8	
Potassium	110000	113800	103	
Selenium	100	99.29	99.3	
Silver	100	108.9	109	
Sodium	110000	113700	103	
Thallium	100	99.7	99.7	
Vanadium	100	98.58	98.6	
Zinc	100	99.44	99.4	

ICSA	Date: 04-Jul-2024 23:04	Seq: 8124184	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	107500	108	
Antimony		0.477	0	
Arsenic		0.449	0	
Barium		0.749	0	

ALS Houston, US Date: 13-Sep-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS05_471259
Project: LHAAP 18 24 Instrument:ICPMS05
WorkOrder: HS24061313 Method:SW6020A

ICSA	Date: 04-Jul-2024 23:04	Seq: 8124184	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Beryllium		0.039	0	
Cadmium		0.737	0	
Calcium	100000	107200	107	
Chromium		0.853	0	
Cobalt		1.095	0	
Copper		0.8	0	
Iron	100000	106900	107	
Lead		0.912	0	
Magnesium	100000	105100	105	
Manganese		1.511	0	
Nickel		1.247	0	
Potassium	100000	109700	110	
Selenium		0.279	0	
Silver		0.043	0	
Sodium	100000	107500	107	
Thallium		0.052	0	
Vanadium		0.354	0	
Zinc		3.367	0	

ICSAB	Date: 04-Jul-2024 23:06	Seq: 8124185	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	103700	103	
Antimony	100	97.36	97.4	
Arsenic	100	99.73	99.7	
Barium	100	101	101	
Beryllium	100	93.02	93.0	
Cadmium	100	97.94	97.9	
Calcium	110000	120500	110	
Chromium	100	96.3	96.3	
Cobalt	100	95.24	95.2	
Copper	100	92.3	92.3	
Iron	110000	112000	102	
Lead	100	98.96	99.0	
Magnesium	110000	109600	99.6	
Manganese	100	98.18	98.2	
Nickel	100	93.06	93.1	
Potassium	110000	114600	104	
Selenium	100	101.8	102	
Silver	100	108.6	109	
Sodium	110000	112200	102	
Thallium	100	100.2	100	
Vanadium	100	98.28	98.3	
Zinc	100	97.03	97.0	

ICSA	Date: 05-Jul-2024 01:13	Seq: 8124258	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	105400	105	
Antimony		0.107	0	
Arsenic		0.38	0	
Barium		0.751	0	
Beryllium		0.033	0	
Cadmium		0.877	0	
Calcium	100000	101400	101	
Chromium		0.665	0	

ALS Houston, US

Date: 13-Sep-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Run ID: ICPMS05_471259
Instrument: ICPMS05
Method: SW6020A

ICSA	Date: 05-Jul-2024 01:13	Seq: 8124258	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Cobalt		1.034	0	
Copper		0.815	0	
Iron	100000	105100	105	
Lead		0.846	0	
Magnesium	100000	103100	103	
Manganese		1.497	0	
Nickel		1.199	0	
Potassium	100000	106300	106	
Selenium		0.11	0	
Silver		0.023	0	
Sodium	100000	105100	105	
Thallium		0.035	0	
Vanadium		0.184	0	
Zinc		3.203	0	

ICSAB	Date: 05-Jul-2024 01:16	Seq: 8124259	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	103600	103	
Antimony	100	97.65	97.6	
Arsenic	100	100.5	101	
Barium	100	99.87	99.9	
Beryllium	100	94.01	94.0	
Cadmium	100	97.6	97.6	
Calcium	110000	122600	111	
Chromium	100	96.7	96.7	
Cobalt	100	95.28	95.3	
Copper	100	93.18	93.2	
Iron	110000	113300	103	
Lead	100	96.24	96.2	
Magnesium	110000	110900	101	
Manganese	100	98.76	98.8	
Nickel	100	94.12	94.1	
Potassium	110000	115400	105	
Selenium	100	98.72	98.7	
Silver	100	108	108	
Sodium	110000	112800	103	
Thallium	100	96.38	96.4	
Vanadium	100	98.2	98.2	
Zinc	100	98.08	98.1	

ALS Houston, US Date: 13-Sep-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS05_471291
Project: LHAAP 18 24 Instrument:ICPMS05
WorkOrder: HS24061313 Method:SW6020A

ICSA	Date: 05-Jul-2024 10:38	Seq: 8124658	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	96150	96.2	
Antimony		0.064	0	
Arsenic		0.401	0	
Barium		0.484	0	
Beryllium		0.015	0	
Cadmium		0.894	0	
Calcium	100000	94620	94.6	
Chromium		0.752	0	
Cobalt		1.028	0	
Copper		0.969	0	
Iron	100000	96010	96.0	
Lead		0.932	0	
Magnesium	100000	96880	96.9	
Manganese		1.531	0	
Nickel		1.163	0	
Potassium	100000	97590	97.6	
Selenium		-0.064	0	
Silver		0.053	0	
Sodium	100000	97030	97.0	
Thallium		0.013	0	
Vanadium		0.225	0	
Zinc		3.317	0	

ICSAB	Date: 05-Jul-2024 10:40	Seq: 8124659	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	99080	98.6	
Antimony	100	98.3	98.3	
Arsenic	100	100.1	100	
Barium	100	101.3	101	
Beryllium	100	90.41	90.4	
Cadmium	100	100.9	101	
Calcium	110000	108100	98.3	
Chromium	100	95.77	95.8	
Cobalt	100	94.72	94.7	
Copper	100	93.08	93.1	
Iron	110000	108600	98.7	
Lead	100	101.6	102	
Magnesium	110000	109100	99.2	
Manganese	100	96.66	96.7	
Nickel	100	93.3	93.3	
Potassium	110000	110700	101	
Selenium	100	100.2	100	
Silver	100	97.3	97.3	
Sodium	110000	110300	100	
Thallium	100	100.5	101	
Vanadium	100	96.5	96.5	
Zinc	100	98.75	98.8	

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Date: 13-Sep-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Date Analyzed: 01-Jul-2024 18:15
Date Extracted: 01-Jul-2024 09:30
Units: ug/L

Matrix Spike: HS24061313-01MS
Client Sample ID: 18WW19_061924

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.630	5.000	92.6	4.440	5.000	88.8	82-119	4.19	20

ALS Houston, US Date: 13-Sep-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Date Analyzed: 05-Jul-2024 12:37
Date Extracted: 02-Jul-2024 08:00
Units: ug/L

Matrix Spike: HS24061247-01MS
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	163.5	224.5	100.0	60.9	213.5	100.0	50.0	84-117	5.01	20
Antimony	5.000	46.50	50.00	92.4	45.32	50.00	90.1	85-117	2.56	20
Arsenic	0.4330	45.52	50.00	90.2	43.71	50.00	86.6	84-116	4.05	20
Barium	17.09	62.67	50.00	91.2	60.24	50.00	86.3	86-114	3.95	20
Beryllium	2.000	41.35	50.00	82.7	39.46	50.00	78.9	83-121	4.70	20
Cadmium	0.4560	46.30	50.00	91.7	44.03	50.00	87.2	87-115	5.02	20
Chromium	0.4460	44.54	50.00	88.2	43.30	50.00	85.7	85-116	2.81	20
Cobalt	0.1360	45.70	50.00	91.1	43.63	50.00	87.0	86-115	4.64	20
Copper	5.000	46.06	50.00	90.9	43.88	50.00	86.6	85-118	4.84	20
Magnesium	406.7	4786	5000	87.6	4579	5000	83.4	83-118	4.43	20
Manganese	56.71	98.78	50.00	84.2	95.24	50.00	77.1	87-115	3.65	20
Nickel	5.000	45.18	50.00	89.9	44.26	50.00	88.1	85-117	2.07	20
Selenium	5.000	45.86	50.00	91.2	43.98	50.00	87.4	80-120	4.19	20
Silver	5.000	45.20	50.00	90.4	43.83	50.00	87.6	85-116	3.08	20
Sodium	18900	22310	5000	68.3	21730	5000	56.6	85-117	2.66	20
Thallium	2.000	46.05	50.00	92.0	44.16	50.00	88.2	82-116	4.19	20
Cadmium	0.4560	46.30	50.00	91.7	46.21	50.00	91.5	87-115	0.201	20
Iron	1714	6157	5000	88.9	6328	5000	92.3	87-118	2.74	20
Lead	0.6340	46.48	50.00	91.7	46.53	50.00	91.8	88-115	0.101	20
Potassium	3699	8269	5000	91.4	8348	5000	93.0	87-115	0.956	20
Vanadium	5.000	44.74	50.00	88.7	44.94	50.00	89.9	86-115	0.439	20
Zinc	3.548	47.74	50.00	88.4	47.86	50.00	88.6	83-119	0.259	20

Matrix Spike: HS24061313-01MS
Client Sample ID: 18WW19_061924
Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	29.68	114.4	100.0	84.7	120.7	100.0	91.0	84-117	5.39	20
Antimony	0.6000	46.10	50.00	91.0	47.46	50.00	93.7	85-117	2.91	20
Arsenic	5.000	44.38	50.00	88.0	45.87	50.00	91.0	84-116	3.29	20
Barium	110.2	152.6	50.00	84.7	156.7	50.00	92.9	86-114	2.65	20
Beryllium	2.000	40.34	50.00	80.6	41.20	50.00	82.3	83-121	2.09	20
Cadmium	2.000	44.29	50.00	88.3	45.15	50.00	90.0	87-115	1.92	20
Calcium	6318	10560	5000	84.7	10840	5000	90.4	87-118	2.63	20
Chromium	113.3	50.47	50.00	-126	51.85	50.00	-123	85-116	2.71	20
Cobalt	0.3950	44.08	50.00	87.4	45.38	50.00	90.0	86-115	2.89	20
Copper	1.011	44.75	50.00	87.5	46.01	50.00	90.0	85-118	2.77	20
Iron	7503	11190	5000	73.8	11520	5000	80.4	87-118	2.91	20
Lead	5.000	44.74	50.00	89.0	46.10	50.00	91.7	88-115	3.00	20
Magnesium	3262	7630	5000	87.3	7913	5000	93.0	83-118	3.65	20
Manganese	98.49	135.9	50.00	74.9	142.2	50.00	87.4	87-115	4.49	20
Nickel	21.43	54.89	50.00	66.9	57.27	50.00	71.7	85-117	4.23	20
Potassium	2138	6536	5000	88.0	6670	5000	90.6	87-115	2.03	20
Selenium	5.000	43.74	50.00	87.0	45.94	50.00	91.4	80-120	4.91	20
Silver	5.000	43.77	50.00	87.5	44.14	50.00	88.2	85-116	0.833	20
Sodium	24730	27850	5000	62.4	28700	5000	79.4	85-117	3.01	20
Thallium	2.000	43.81	50.00	87.2	45.66	50.00	90.9	82-116	4.14	20
Vanadium	5.000	43.08	50.00	88.8	44.92	50.00	92.5	86-115	4.18	20
Zinc	3.463	46.45	50.00	86.0	48.58	50.00	90.2	83-119	4.48	20

ALS Houston, US

Date: 13-Sep-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Date Analyzed: 04-Jul-2024 22:57
Date Extracted: 02-Jul-2024 08:00
Units: ug/L

Lab Sample ID: HS24061247-01PDS
Client Sample ID:
Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	140.1	231.9	100	92	80-120
Antimony	0	96.36	100	96	80-120
Arsenic	0	98.26	100	98	80-120
Barium	17.98	117.5	100	100	80-120
Beryllium	0	89.56	100	90	80-120
Cadmium	0.572	98.86	100	98	80-120
Calcium	1462	11360	10000	99	80-120
Chromium	0.719	101.6	100	101	80-120
Cobalt	0.15	100.4	100	100	80-120
Copper	0	102.2	100	102	80-120
Iron	1821	12140	10000	103	80-120
Lead	0	99.56	100	99	80-120
Magnesium	416.8	10560	10000	101	80-120
Manganese	60.98	159	100	98	80-120
Nickel	0	100.8	100	101	80-120
Potassium	3683	14400	10000	107	80-120
Selenium	0	99.62	100	99	80-120
Silver	0	113.2	100	113	80-120
Sodium	19840	29360	10000	95	80-120
Thallium	0	100.9	100	101	80-120
Vanadium	0	100.7	100	100	80-120
Zinc	3.412	99.59	100	96	80-120

Lab Sample ID: HS24061313-01PDS
Client Sample ID: 18WW19_061924
Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	25.65	112.2	100	87	80-120
Antimony	0.501	92.19	100	92	80-120
Arsenic	0	94.45	100	94	80-120
Barium	109.2	203.4	100	94	80-120
Beryllium	0	89.33	100	89	80-120
Cadmium	0	95.1	100	95	80-120
Calcium	6463	15510	10000	91	80-120
Chromium	7.358	103.1	100	96	80-120
Cobalt	0.196	95.2	100	95	80-120
Copper	0	96.47	100	96	80-120
Iron	7083	16710	10000	96	80-120
Lead	0	96.33	100	96	80-120
Magnesium	3221	13020	10000	98	80-120
Manganese	94.13	184	100	90	80-120
Nickel	12.27	107.2	100	95	80-120
Potassium	2127	12210	10000	101	80-120
Selenium	0	92.29	100	92	80-120
Silver	0	108.8	100	109	80-120
Sodium	25870	34030	10000	82	80-120
Thallium	0	96.83	100	97	80-120
Vanadium	0	95.49	100	95	80-120
Zinc	4.486	96.07	100	92	80-120

ALS Houston, US

Date: 13-Sep-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Date Analyzed: 01-Jul-2024 17:39
Date Extracted: 01-Jul-2024 09:30
Units: ug/L

Lab Sample ID: LCS-214374

Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.6	92	82-119

ALS Houston, US Date: 13-Sep-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Date Analyzed: 05-Jul-2024 12:28
Date Extracted: 02-Jul-2024 08:00
Units: ug/L

Lab Sample ID: LCS-214353 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	99.35	99	84-117
Antimony	50	47.67	95	85-117
Arsenic	50	46.51	93	84-116
Barium	50	47.16	94	86-114
Cadmium	50	46.64	93	87-115
Calcium	5000	4795	96	87-118
Chromium	50	46.3	93	85-116
Cobalt	50	46.99	94	86-115
Copper	50	47.63	95	85-118
Iron	5000	4794	96	87-118
Lead	50	45.08	90	88-115
Magnesium	5000	4541	91	83-118
Manganese	50	46.73	94	87-115
Nickel	50	46.33	93	85-117
Potassium	5000	4470	89	87-115
Selenium	50	45.86	92	80-120
Silver	50	47.06	94	85-116
Sodium	5000	4605	92	85-117
Thallium	50	44.77	90	82-116
Vanadium	50	45.62	91	86-115
Zinc	50	46.46	93	83-119
Beryllium	50	45.62	91	83-121

ALS Houston, US Date: 13-Sep-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24061313

Date Analyzed: 04-Jul-2024 22:49
Date Extracted: 02-Jul-2024 08:00
Units: ug/L

Lab Sample ID: HS24061247-01SD
Client Sample ID:
Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	140.1		138.2		1	
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	17.98		18.06	J	0	
Beryllium	0	U	0	U	0	
Cadmium	0.572	J	0	U	0	
Calcium	1462		1384	J	5	
Chromium	0.719	J	0	U	0	
Cobalt	0.15	J	0	U	0	
Copper	0	U	0	U	0	
Iron	1821		1667		8	
Lead	0	U	0	U	0	
Magnesium	416.8		421.2	J	1	
Manganese	60.98		61.92		2	
Nickel	0	U	0	U	0	
Potassium	3683		3696		0	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Sodium	19840		20020		1	
Thallium	0	U	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	3.412	J	0	U	0	

Lab Sample ID: HS24061313-01SD
Client Sample ID:18WW19_061924
Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	25.65		19.23	J	25	
Antimony	0.501	J	0	U	0	
Arsenic	0	U	0	U	0	
Barium	109.2		108.6		1	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	6463		6433		0	
Chromium	7.358		5.607	J	24	
Cobalt	0.196	J	0	U	0	
Copper	0	U	0	U	0	
Iron	7083		7300		3	
Lead	0	U	0	U	0	
Magnesium	3221		3225		0	
Manganese	94.13		95.52		1	
Nickel	12.27		13.38	J	9	
Potassium	2127		2074		2	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Sodium	25870		25450		2	
Thallium	0	U	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	4.486	J	0	U	0	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\070124AW.wszf

Creation Date: 7/1/2024 10:47:49 AM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank	STD	07/01/24 11:11:58 am	0.000	36	66.63		
Replicates	26.3	19.0	27.5	71.8			
Standard #1 (0.2 ppb)	STD	07/01/24 11:16:42 am	0.200	1096	1.71	-11.37%	
Replicates	1087.4	1097.6	1077.8	1121.4			
Standard #2 (0.5 ppb)	STD	07/01/24 11:20:16 am	0.500	2881	1.45	-1.27%	
Replicates	2834.6	2890.6	2933.8	2865.6			
Standard #3 (2.0 ppb)	STD	07/01/24 11:21:59 am	2.000	11494	0.11	1.01%	
Replicates	11498.8	11486.2	11481.0	11510.2			
Standard #4 (5.0 ppb)	STD	07/01/24 11:23:42 am	5.000	28472	0.10	0.59%	
Replicates	28452.2	28446.3	28483.2	28504.3			
Standard #5 (10.0 ppb)	STD	07/01/24 11:25:25 am	10.000	56150	0.14	-0.65%	
Replicates	56074.9	56106.3	56161.9	56256.1			

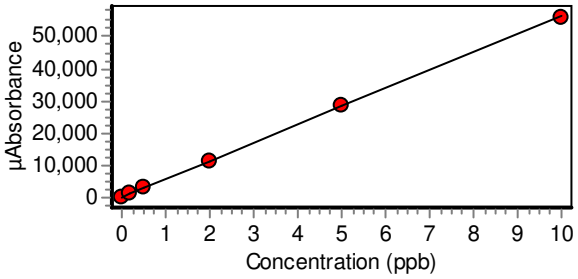
Calibration

Equation: Abs = 5641.977x + 95.961

R2: 0.99992 RSE: 6.65%

SEE: 221.2025

Flags:



ICCV	UNK	07/01/24 11:33:56 am	4.990	28266	0.25		
Replicates	28198.9	28250.0	28249.4	28367.2			
ICV	UNK	07/01/24 11:35:37 am	5.040	28506	0.17		
Replicates	28453.0	28486.7	28521.8	28563.7			
ICB	UNK	07/01/24 11:37:19 am	-0.028	-60	8.15		
Replicates	-71.1	-47.5	-50.7	-70.9			
CRA	UNK	07/01/24 11:39:01 am	0.170	1056	1.23		
Replicates	1040.3	1068.8	1055.0	1058.4			
CCV	UNK	07/01/24 11:45:08 am	4.960	28088	0.80		
Replicates	27837.7	27983.4	28182.4	28347.8			
CCB	UNK	07/01/24 11:46:52 am	-0.033	-88	8.20		
Replicates	-91.5	-67.8	-104.2	-88.6			
MBLK-214325	UNK	07/01/24 11:51:29 am	-0.005	70	100.44		
Replicates	61.2	37.5	86.4	95.1			

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-214325					UNK	07/01/24 11:53:11 am	4.690	26542	0.26		
	Replicates	26457.1	26524.9	26562.3	26622.6						
HS24061137-01					UNK	07/01/24 11:54:53 am	0.007	137	38.83		
	Replicates	153.4	136.4	141.9	115.6						
HS24061155-01					UNK	07/01/24 11:56:35 am	0.008	142	23.82		
	Replicates	127.6	147.8	153.2	140.8						
HS24061155-01MS					UNK	07/01/24 11:58:18 am	4.520	25589	0.14		
	Replicates	25548.4	25584.7	25588.9	25635.9						
HS24061155-01MSD					UNK	07/01/24 12:00:01 pm	4.500	25487	0.38		
	Replicates	25344.6	25516.2	25541.8	25543.6						
HS24061155-02					UNK	07/01/24 12:01:44 pm	0.014	176	22.85		
	Replicates	156.8	171.3	200.6	174.6						
HS24061155-03					UNK	07/01/24 12:03:27 pm	0.017	189	12.79		
	Replicates	204.9	177.1	183.6	190.6						
HS24061155-04					UNK	07/01/24 12:05:08 pm	0.013	172	3.47		
	Replicates	170.9	175.1	168.9	172.8						
HS24061155-05					UNK	07/01/24 12:06:49 pm	0.002	106	344.10		
	Replicates	67.0	88.2	129.2	139.0						
CCV					UNK	07/01/24 12:10:47 pm	4.960	28103	0.29		
	Replicates	27998.4	28084.0	28146.6	28182.8						
CCB					UNK	07/01/24 12:12:31 pm	-0.018	-6	11.33		
	Replicates	-10.3	2.5	-20.9	3.5						
HS24061155-06					UNK	07/01/24 12:14:12 pm	0.003	114	100.63		
	Replicates	120.7	103.1	136.3	95.9						
HS24061155-07					UNK	07/01/24 12:15:54 pm	0.007	136	18.79		
	Replicates	131.7	141.9	142.9	127.7						
HS24061332-01					UNK	07/01/24 12:17:36 pm	0.015	182	8.58		
	Replicates	187.2	188.1	178.6	172.6						
HS24061332-02					UNK	07/01/24 12:19:18 pm	-0.006	64	77.43		
	Replicates	82.3	57.3	85.1	32.9						
HS24061332-02MS					UNK	07/01/24 12:21:01 pm	4.640	26252	0.21		
	Replicates	26231.3	26225.8	26215.3	26335.7						
HS24061332-02MSD					UNK	07/01/24 12:22:43 pm	4.510	25515	0.18		
	Replicates	25473.6	25479.3	25535.2	25570.6						
HS24061332-04					UNK	07/01/24 12:24:26 pm	0.009	145	14.27		
	Replicates	154.3	145.8	144.8	137.0						
HS24061332-05					UNK	07/01/24 12:26:08 pm	0.010	154	10.63		
	Replicates	147.9	160.7	157.9	149.9						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24061332-06					UNK	07/01/24 12:27:51 pm	0.010	155	39.44		
	Replicates	149.8	133.4	187.6	147.8						
HS24061335-01					UNK	07/01/24 12:29:34 pm	0.008	138	22.97		
	Replicates	128.0	148.9	144.1	132.4						
CCV					UNK	07/01/24 12:31:39 pm	4.960	28099	0.18		
	Replicates	28046.3	28079.3	28103.8	28166.8						
CCB					UNK	07/01/24 12:33:23 pm	-0.015	11	4.22		
	Replicates	15.7	11.9	8.3	8.1						
HS24061335-02					UNK	07/01/24 12:37:51 pm	0.001	99	177.37		
	Replicates	107.1	94.5	100.7	94.9						
HS24061335-03					UNK	07/01/24 12:39:32 pm	0.016	186	24.28		
	Replicates	153.9	193.8	203.0	193.6						
HS24061335-04					UNK	07/01/24 12:41:14 pm	0.010	151	17.29		
	Replicates	142.0	159.4	142.9	158.1						
HS24061335-05					UNK	07/01/24 12:42:56 pm	0.014	174	32.52		
	Replicates	200.1	191.5	160.5	145.9						
HS24061335-06					UNK	07/01/24 12:44:38 pm	-0.006	64	32.12		
	Replicates	68.2	62.7	51.5	75.5						
HS24061346-01					UNK	07/01/24 12:46:20 pm	0.007	137	41.50		
	Replicates	132.3	116.7	157.3	143.4						
MBLK-214346					UNK	07/01/24 12:48:02 pm	0.002	107	110.97		
	Replicates	108.8	122.8	95.8	99.8						
LCS-214346					UNK	07/01/24 12:49:45 pm	4.800	27167	0.28		
	Replicates	27080.3	27148.4	27179.1	27260.4						
MBLKT1-214282					UNK	07/01/24 12:51:27 pm	-0.004	73	28.09		
	Replicates	76.0	70.3	80.9	66.5						
MBLKT2-214212					UNK	07/01/24 12:53:10 pm	-0.002	86	108.76		
	Replicates	72.3	82.4	97.7	91.1						
CCV					UNK	07/01/24 01:00:51 pm	4.990	28258	0.23		
	Replicates	28174.5	28254.5	28273.9	28330.7						
CCB					UNK	07/01/24 01:02:35 pm	-0.015	14	8.39		
	Replicates	21.8	13.9	13.9	4.9						
MBLKT3-213903					UNK	07/01/24 01:05:58 pm	0.010	151	7.42		
	Replicates	152.6	147.1	147.3	155.3						
MBLKT4-214284					UNK	07/01/24 01:07:41 pm	0.013	170	6.05		
	Replicates	170.2	170.7	175.7	164.7						
MBLKT5-213952					UNK	07/01/24 01:09:23 pm	-0.003	76	68.42		
	Replicates	62.9	69.0	93.0	81.0						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24061177-01				UNK	07/01/24 01:11:05 pm	-0.005	65	44.15		
Replicates	58.2	68.5	51.1	82.5						
HS24061231-01				UNK	07/01/24 01:12:46 pm	0.002	110	79.28		
Replicates	111.3	98.7	123.7	104.4						
HS24061231-02				UNK	07/01/24 01:14:28 pm	0.037	307	3.68		
Replicates	314.3	304.7	296.7	311.1						
HS24061231-03				UNK	07/01/24 01:16:10 pm	0.107	697	3.06		
Replicates	724.0	683.9	694.3	686.7						
HS24061536-01				UNK	07/01/24 01:17:52 pm	-0.003	77	44.37		
Replicates	75.8	73.3	89.3	70.4						
HS24061544-01				UNK	07/01/24 01:19:35 pm	0.022	219	14.91		
Replicates	198.4	212.4	221.8	242.1						
HS24061544-01MS				UNK	07/01/24 01:25:06 pm	4.550	25767	0.23		
Replicates	25825.9	25720.8	25711.8	25807.8						
CCV				UNK	07/01/24 01:30:53 pm	4.740	26867	0.11		
Replicates	26829.8	26869.7	26863.8	26903.7						
CCB				UNK	07/01/24 01:32:37 pm	-0.025	-42	10.28		
Replicates	-47.5	-21.3	-52.1	-48.9						
HS24061544-01MSSD				UNK	07/01/24 01:34:20 pm	4.240	24010	0.57		
Replicates	23854.2	23971.0	24037.6	24178.6						
HS24061544-02				UNK	07/01/24 01:36:02 pm	-0.002	85	88.86		
Replicates	81.5	78.4	99.6	79.0						
HS24061613-01				UNK	07/01/24 01:37:45 pm	0.015	182	13.42		
Replicates	171.4	172.0	193.4	189.4						
HS24061628-01				UNK	07/01/24 01:39:28 pm	0.010	150	45.06		
Replicates	149.0	136.0	129.6	183.8						
HS24061628-02				UNK	07/01/24 01:41:10 pm	0.006	128	40.25		
Replicates	134.1	121.9	113.8	143.1						
HS24061628-03				UNK	07/01/24 01:42:52 pm	0.015	181	22.18		
Replicates	156.8	194.9	176.4	197.6						
HS24061628-04				UNK	07/01/24 01:44:34 pm	-0.004	72	112.93		
Replicates	102.7	45.0	54.4	86.2						
HS24061628-05				UNK	07/01/24 01:46:16 pm	-0.012	30	25.12		
Replicates	7.0	34.8	30.2	46.8						
HS24061628-06				UNK	07/01/24 01:47:58 pm	-0.002	86	92.96		
Replicates	92.7	93.8	74.3	84.3						
HS24061628-07				UNK	07/01/24 01:49:41 pm	0.006	130	53.15		
Replicates	115.9	131.7	154.3	116.9						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCV					UNK	07/01/24 01:51:50 pm	4.990	28240	0.36		
	Replicates	28120.0	28219.2	28258.8	28363.2						
CCB					UNK	07/01/24 01:53:34 pm	-0.011	32	23.49		
	Replicates	24.3	19.1	53.1	32.5						
HS24061628-08					UNK	07/01/24 01:57:17 pm	0.005	124	28.15		
	Replicates	123.2	112.9	129.1	129.9						
HS24061628-09					UNK	07/01/24 01:58:59 pm	0.007	137	28.94		
	Replicates	121.2	141.6	136.9	149.6						
HS24061628-10					UNK	07/01/24 02:00:42 pm	0.013	167	22.83		
	Replicates	158.6	148.9	177.1	184.1						
HS24061628-11					UNK	07/01/24 02:02:25 pm	0.004	117	36.26		
	Replicates	113.0	110.9	128.3	117.3						
HS24061674-01					UNK	07/01/24 02:04:07 pm	-0.010	41	32.73		
	Replicates	26.0	64.9	45.5	29.1						
MBLK-214354					UNK	07/01/24 02:05:50 pm	0.031	271	7.57		
	Replicates	285.1	265.5	255.7	279.1						
LCS-214354					UNK	07/01/24 02:07:33 pm	4.710	26657	0.32		
	Replicates	26553.1	26642.0	26676.0	26755.4						
HS24061170-02					UNK	07/01/24 02:09:15 pm	0.021	215	14.74		
	Replicates	195.1	211.6	214.4	237.6						
HS24061170-03					UNK	07/01/24 02:10:57 pm	-0.006	61	42.40		
	Replicates	48.4	65.5	51.3	80.3						
HS24061170-04					UNK	07/01/24 02:12:40 pm	0.005	123	61.38		
	Replicates	113.1	111.1	146.9	120.4						
CCV					UNK	07/01/24 02:15:39 pm	4.980	28206	0.38		
	Replicates	28057.3	28211.8	28250.8	28303.4						
CCB					UNK	07/01/24 02:17:23 pm	-0.018	-8	10.08		
	Replicates	4.5	-17.4	-15.2	-2.4						
HS24061170-05					UNK	07/01/24 02:19:05 pm	0.018	197	5.80		
	Replicates	188.9	195.1	201.1	201.1						
HS24061170-06					UNK	07/01/24 02:20:47 pm	0.012	164	22.60		
	Replicates	155.6	186.9	153.5	160.9						
HS24061236-02					UNK	07/01/24 02:22:30 pm	0.005	125	49.44		
	Replicates	107.2	133.1	140.1	120.7						
HS24061236-02MS					UNK	07/01/24 02:24:12 pm	3.340	18939	2.04		
	Replicates	18486.8	18792.8	19101.4	19375.8						
HS24061236-02MSD					UNK	07/01/24 02:27:50 pm	4.490	25419	0.46		
	Replicates	25269.3	25394.7	25465.7	25546.4						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24061236-02MS					UNK	07/01/24 02:30:36 pm	4.460	25242	0.36		
	Replicates	25124.9	25237.8	25258.8	25344.7						
HS24061236-03					UNK	07/01/24 02:32:18 pm	-0.014	15	39.42		
	Replicates	-21.3	18.5	7.1	55.8						
HS24061236-04					UNK	07/01/24 02:34:01 pm	-0.004	74	62.88		
	Replicates	53.7	77.8	75.8	86.9						
HS24061236-05					UNK	07/01/24 02:35:44 pm	-0.004	71	48.65		
	Replicates	62.3	85.5	60.1	76.7						
HS24061236-06					UNK	07/01/24 02:37:26 pm	0.003	112	97.67		
	Replicates	101.4	111.4	135.6	101.4						
CCV					UNK	07/01/24 02:40:11 pm	4.990	28267	0.25		
	Replicates	28179.1	28256.4	28288.4	28345.6						
CCB					UNK	07/01/24 02:41:55 pm	-0.019	-12	13.73		
	Replicates	8.4	-12.4	-26.5	-17.9						
HS24061236-07					UNK	07/01/24 02:43:37 pm	0.004	119	56.93		
	Replicates	134.1	118.7	123.1	101.9						
HS24061247-01					UNK	07/01/24 02:45:20 pm	-0.007	55	22.58		
	Replicates	66.6	59.0	47.0	48.8						
HS24061247-01MS					UNK	07/01/24 02:49:19 pm	4.690	26557	0.32		
	Replicates	26455.8	26527.1	26591.3	26654.7						
HS24061247-01MSD					UNK	07/01/24 02:53:28 pm	4.790	27143	0.27		
	Replicates	27052.6	27133.3	27158.7	27226.7						
CCV					UNK	07/01/24 02:56:41 pm	5.030	28463	0.30		
	Replicates	28353.2	28443.4	28517.4	28538.4						
CCB					UNK	07/01/24 02:58:25 pm	-0.018	-6	20.22		
	Replicates	4.3	-35.8	11.0	-5.0						
CCV					UNK	07/01/24 04:35:15 pm	4.970	28115	0.29		
	Replicates	27998.4	28116.5	28157.3	28185.9						
CCB					UNK	07/01/24 04:36:59 pm	-0.021	-20	14.14		
	Replicates	-28.5	-38.0	-6.6	-5.0						
MBLK-214367					UNK	07/01/24 04:41:13 pm	0.007	137	27.98		
	Replicates	123.1	149.2	143.4	133.0						
LCS-214367					UNK	07/01/24 04:42:55 pm	4.700	26630	0.34		
	Replicates	26508.3	26613.7	26697.3	26699.3						
HS234061289-01					UNK	07/01/24 04:44:38 pm	-0.006	61	92.66		
	Replicates	20.5	48.5	93.3	80.3						
HS234061289-01MS					UNK	07/01/24 04:46:20 pm	4.600	26022	1.22		
	Replicates	25596.4	25986.4	26175.4	26327.8						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS234061289-01MSD					UNK	07/01/24 04:50:05 pm	4.680	26484	0.48		
	Replicates	26323.3	26459.3	26530.3	26624.9						
HS24061332-03					UNK	07/01/24 04:51:48 pm	0.008	143	17.78		
	Replicates	130.6	145.9	148.3	147.6						
HS24061482-01					UNK	07/01/24 04:53:31 pm	0.004	116	92.03		
	Replicates	101.7	102.8	118.3	141.1						
HS24061482-02					UNK	07/01/24 04:55:13 pm	-0.001	91	371.27		
	Replicates	110.6	73.5	81.1	100.3						
HS24061482-03					UNK	07/01/24 04:56:56 pm	0.010	152	32.15		
	Replicates	155.6	155.9	126.7	169.3						
HS24061482-04					UNK	07/01/24 04:58:38 pm	0.010	151	38.59		
	Replicates	135.6	167.0	170.4	129.4						
CCV					UNK	07/01/24 05:01:47 pm	4.940	27993	0.16		
	Replicates	27933.8	28018.5	27983.3	28038.3						
CCB					UNK	07/01/24 05:03:31 pm	-0.017	-2	25.28		
	Replicates	-2.1	22.9	-36.0	6.7						
HS24061482-05					UNK	07/01/24 05:05:14 pm	0.015	178	10.60		
	Replicates	179.3	172.6	190.2	171.0						
HS24061482-06					UNK	07/01/24 05:06:56 pm	0.007	133	41.70		
	Replicates	129.7	139.4	112.8	148.6						
HS24061486-01					UNK	07/01/24 05:08:39 pm	-0.001	92	238.83		
	Replicates	91.7	102.0	94.4	81.3						
HS24061486-01MS					UNK	07/01/24 05:10:21 pm	2.920	16575	0.65		
	Replicates	16437.6	16568.7	16596.9	16696.1						
HS24061486-01MSD					UNK	07/01/24 05:12:04 pm	3.050	17302	1.43		
	Replicates	17010.7	17214.4	17398.6	17584.8						
HS24061486-02					UNK	07/01/24 05:13:47 pm	0.001	101	342.01		
	Replicates	77.1	108.1	119.1	100.4						
HS24061486-03					UNK	07/01/24 05:15:30 pm	0.005	123	41.91		
	Replicates	132.3	120.3	107.8	129.9						
HS24061486-04					UNK	07/01/24 05:17:12 pm	-0.003	77	38.43		
	Replicates	74.2	83.6	67.4	81.6						
HS24061486-05					UNK	07/01/24 05:18:55 pm	0.012	165	21.08		
	Replicates	153.9	167.9	153.3	184.1						
HS24061486-06					UNK	07/01/24 05:20:38 pm	0.008	141	17.38		
	Replicates	151.9	141.9	135.9	134.7						
CCV					UNK	07/01/24 05:23:12 pm	4.950	28027	0.22		
	Replicates	27948.6	28008.8	28057.4	28092.8						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCB					UNK	07/01/24 05:24:56 pm	-0.014	18	14.49		
	Replicates	23.5	8.0	30.6	8.0						
HS24061489-01					UNK	07/01/24 05:26:39 pm	-0.010	41	10.21		
	Replicates	45.7	40.2	44.0	33.0						
HS24061489-02					UNK	07/01/24 05:28:21 pm	0.007	133	13.03		
	Replicates	128.9	137.6	129.4	137.6						
HS24061489-03					UNK	07/01/24 05:30:04 pm	-0.015	9	15.22		
	Replicates	15.0	7.7	-9.5	21.3						
HS24061489-04					UNK	07/01/24 05:31:47 pm	0.007	137	21.90		
	Replicates	137.4	124.7	139.6	146.1						
HS24061489-05					UNK	07/01/24 05:33:29 pm	0.012	165	25.34		
	Replicates	160.6	149.7	158.3	189.7						
HS24061489-06					UNK	07/01/24 05:35:12 pm	0.004	119	92.07		
	Replicates	110.5	110.3	149.8	104.2						
MBLK-214374					UNK	07/01/24 05:38:01 pm	0.015	182	8.10		
	Replicates	185.5	190.0	174.0	179.4						
LCS-214374					UNK	07/01/24 05:39:43 pm	4.600	26072	0.36		
	Replicates	25955.3	26042.2	26119.8	26170.2						
HS24061196-01					UNK	07/01/24 05:41:26 pm	0.012	166	22.33		
	Replicates	188.0	152.6	163.3	158.4						
HS24061196-02					UNK	07/01/24 05:43:09 pm	0.014	173	14.27		
	Replicates	164.7	189.3	170.9	167.9						
CCV					UNK	07/01/24 05:46:27 pm	4.980	28184	0.69		
	Replicates	27918.5	28172.7	28288.7	28357.4						
CCB					UNK	07/01/24 05:48:11 pm	-0.019	-13	16.37		
	Replicates	13.2	-27.4	-16.4	-19.6						
HS24061196-05					UNK	07/01/24 05:49:54 pm	0.010	151	61.04		
	Replicates	112.2	136.7	167.1	189.1						
HS24061196-06					UNK	07/01/24 05:51:36 pm	0.015	181	3.22		
	Replicates	182.1	177.3	179.7	183.5						
HS24061196-08					UNK	07/01/24 05:53:19 pm	0.016	184	14.89		
	Replicates	174.6	172.3	200.4	188.3						
HS24061196-09					UNK	07/01/24 05:55:02 pm	0.022	220	3.42		
	Replicates	222.7	224.6	218.4	215.1						
HS24061196-10					UNK	07/01/24 05:56:45 pm	0.015	178	18.74		
	Replicates	166.2	163.1	191.9	190.4						
HS24061218-02					UNK	07/01/24 05:58:28 pm	0.018	200	18.25		
	Replicates	210.1	171.8	209.6	210.0						

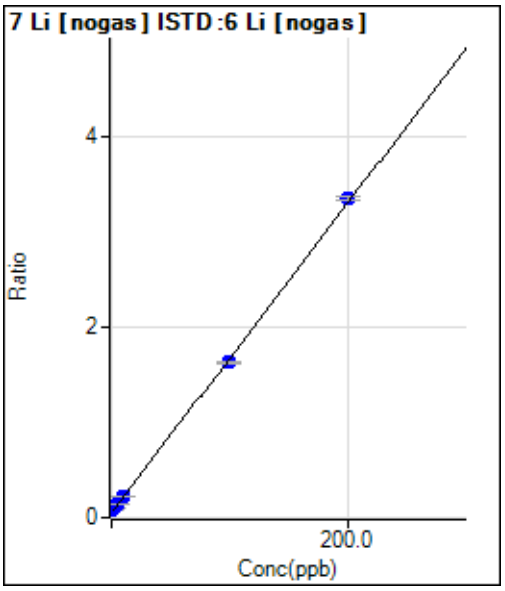
Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24061218-03					UNK	07/01/24 06:00:11 pm	0.007	138	34.80		
	Replicates	116.0	142.9	145.9	146.1						
HS24061218-05					UNK	07/01/24 06:01:53 pm	0.018	200	9.95		
	Replicates	208.3	206.4	185.4	200.1						
HS24061218-07					UNK	07/01/24 06:03:36 pm	0.025	236	8.10		
	Replicates	240.6	245.7	219.7	238.5						
HS24061313-01					UNK	07/01/24 06:05:19 pm	0.000	94	812.25		
	Replicates	79.3	85.8	107.6	104.3						
CCV					UNK	07/01/24 06:08:25 pm	4.910	27771	1.60		
	Replicates	27160.5	27735.8	28033.3	28155.1						
CCB					UNK	07/01/24 06:10:09 pm	-0.019	-10	12.19		
	Replicates	6.9	-18.4	-8.1	-22.1						
HS24061313-01MS					UNK	07/01/24 06:13:56 pm	4.630	26218	0.30		
	Replicates	26116.5	26200.7	26271.1	26284.4						
HS24061313-01MSD					UNK	07/01/24 06:15:39 pm	4.440	25131	3.51		
	Replicates	24033.1	24872.7	25561.7	26058.1						
HS24061313-02					UNK	07/01/24 06:17:22 pm	0.006	132	13.98		
	Replicates	139.4	129.4	129.4	129.2						
HS24061313-03					UNK	07/01/24 06:19:05 pm	-0.008	52	31.25		
	Replicates	43.7	38.6	68.8	57.6						
HS24061313-04					UNK	07/01/24 06:20:48 pm	0.034	285	5.18		
	Replicates	290.1	285.9	292.9	270.9						
HS24061196-10MS					UNK	07/01/24 06:24:38 pm	4.220	23894	0.10		
	Replicates	23859.5	23911.7	23906.1	23900.7						
HS24061196-10MS					UNK	07/01/24 06:26:21 pm	4.260	24105	2.14		
	Replicates	23444.1	23981.7	24372.9	24621.9						
CCV					UNK	07/01/24 06:29:26 pm	4.830	27362	0.86		
	Replicates	27058.5	27320.5	27460.1	27609.1						
CCB					UNK	07/01/24 06:31:10 pm	-0.025	-42	11.80		
	Replicates	-25.0	-34.0	-62.2	-48.3						
CRA					UNK	07/01/24 06:35:04 pm	0.143	903	2.18		
	Replicates	882.3	907.0	898.8	924.6						

Calibration for 223_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070424A.b\
Analysis File: 070424A.batch.bin
DA Date-Time: 7/4/2024 9:09:53 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	216CALB.d	CAL BLK	7/4/2024 6:10:08 PM
2	217CALS.d	2/10/200	7/4/2024 6:12:16 PM
3	218CALS.d	5/25/500	7/4/2024 6:14:24 PM
4	219CALS.d	10/50/1000	7/4/2024 6:16:32 PM
5	220CALS.d	100/500/10K	7/4/2024 6:18:39 PM
6	221CALS.d	200/1000/20K	7/4/2024 6:20:47 PM
7			

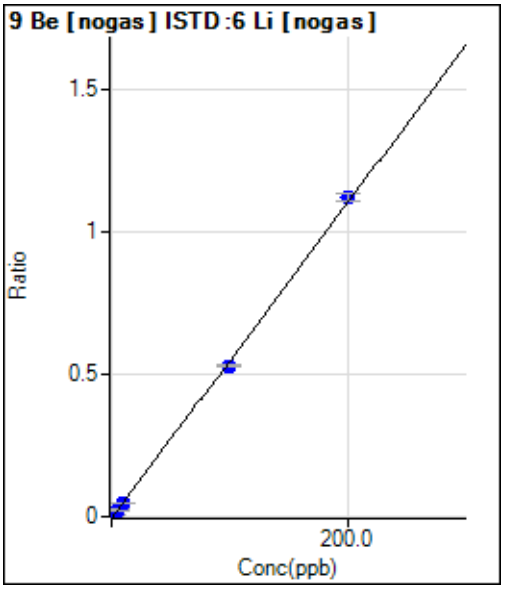
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79980.31	0.0711	P	0.9	
2	☐	2.000	1.729	110906.12	0.0991	P	0.9	-13.6
3	☐	5.000	4.404	157534.81	0.1425	P	0.5	-11.9
4	☐	10.000	8.996	239601.78	0.2170	P	0.8	-10.0
5	☐	100.000	96.008	1702889.82	1.6284	P	0.6	-4.0
6	☐	200.000	202.064	3264717.24	3.3488	P	1.5	1.0
7	☐	1.000						

y = 0.0162 * x + 0.0711
R = 0.9997
DL = 0.1206 ppb
BEC = 4.382 ppb

Weight: <None>
Min Conc: <None>

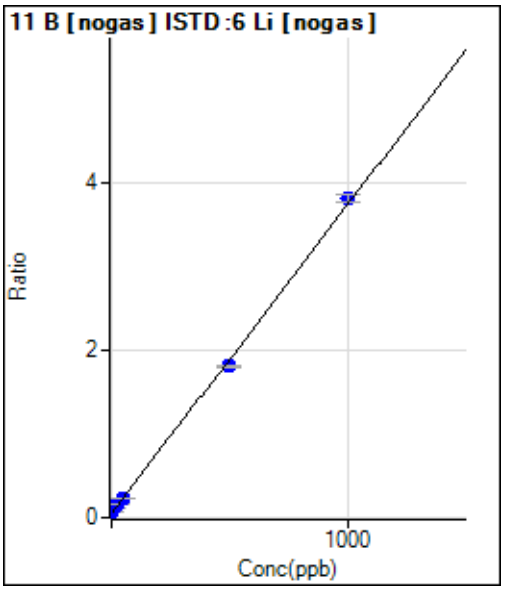


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73.33	0.0001	P	3.2	
2	☐	2.000	1.728	10782.14	0.0096	P	0.6	-13.6
3	☐	5.000	4.246	26053.52	0.0236	P	3.1	-15.1
4	☐	10.000	8.667	53061.86	0.0481	P	2.9	-13.3
5	☐	100.000	95.503	553083.25	0.5289	P	0.8	-4.5
6	☐	200.000	202.337	1092317.75	1.1205	P	2.0	1.2
7	☐	1.000						

y = 0.0055 * x + 6.5163E-005
R = 0.9997
DL = 0.001145 ppb
BEC = 0.01177 ppb

Weight: <None>
Min Conc: <None>

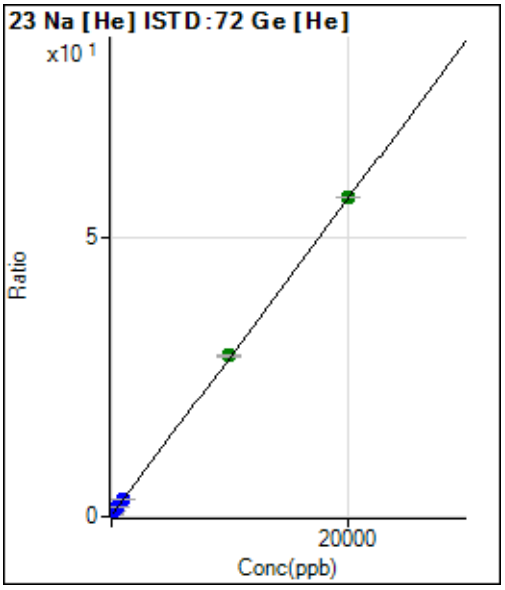
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	81956.31	0.0728	P	1.6	
2	☐	10.000	9.072	119022.88	0.1064	P	2.2	-9.3
3	☐	25.000	21.423	168048.99	0.1520	P	2.2	-14.3
4	☐	50.000	43.670	258696.62	0.2343	P	1.2	-12.7
5	☐	500.000	471.499	1899183.04	1.8161	P	1.2	-5.7
6	☐	1000.000	1014.666	3728155.78	3.8244	P	2.6	1.5
7	☐	5.000						

y = 0.0037 * x + 0.0728
R = 0.9995
DL = 0.943 ppb
BEC = 19.7 ppb

Weight: <None>
Min Conc: <None>

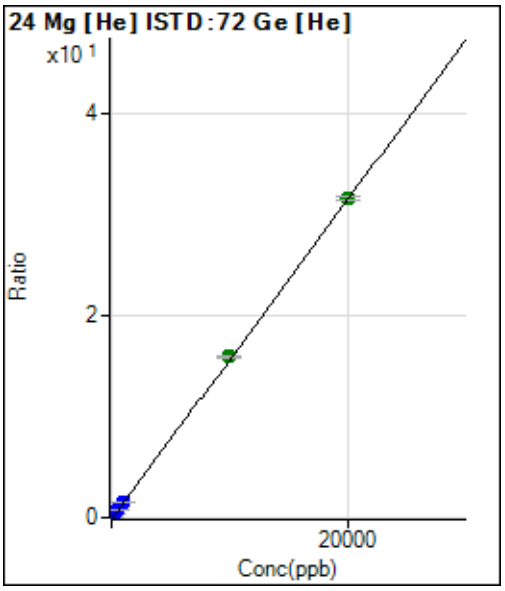


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	328086.46	0.5182	P	2.2	
2	☐	200.000	185.593	662714.68	1.0439	P	0.2	-7.2
3	☐	500.000	450.239	1148035.74	1.7935	P	1.7	-10.0
4	☐	1000.000	956.346	2018593.46	3.2269	P	1.3	-4.4
5	☐	10000.00	9981.846	18130218.48	28.7902	A	0.6	-0.2
6	☐	20000.00	20012.64	35809858.63	57.2008	A	0.3	0.1
7	☐	100.000						

y = 0.0028 * x + 0.5182
R = 1.0000
DL = 11.98 ppb
BEC = 183 ppb

Weight: <None>
Min Conc: <None>

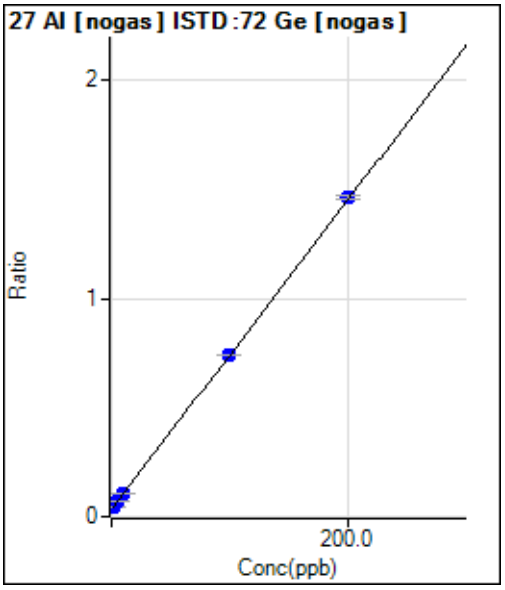
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2230.21	0.0035	P	1.5	
2	☐	200.000	188.029	191470.41	0.3016	P	0.6	-6.0
3	☐	500.000	453.903	462854.11	0.7231	P	2.0	-9.2
4	☐	1000.000	962.758	956910.22	1.5298	P	1.4	-3.7
5	☐	10000.00	10056.03	10041143.39	15.9451	A	0.7	0.6
6	☐	20000.00	19975.11	19826031.37	31.6695	A	1.0	-0.1
7	☐	100.000						

y = 0.0016 * x + 0.0035
R = 1.0000
DL = 0.1023 ppb
BEC = 2.222 ppb

Weight: <None>
Min Conc: <None>

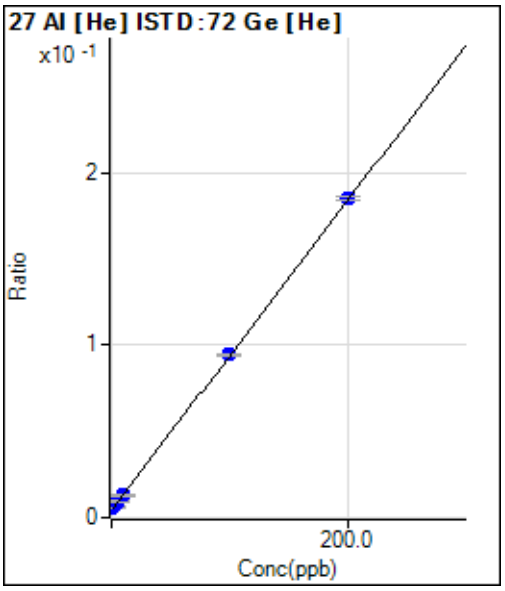


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	92500.28	0.0416	P	1.1	
2	☐	2.000	0.848	105483.09	0.0476	P	0.5	-57.6
3	☐	5.000	4.525	164275.95	0.0736	P	1.4	-9.5
4	☐	10.000	8.548	226892.63	0.1021	P	1.0	-14.5
5	☐	100.000	98.618	1648418.57	0.7395	P	0.7	-1.4
6	☐	200.000	200.787	3205314.64	1.4626	P	1.0	0.4
7	☐	1.000						

y = 0.0071 * x + 0.0416
R = 1.0000
DL = 0.186 ppb
BEC = 5.882 ppb

Weight: <None>
Min Conc: <None>

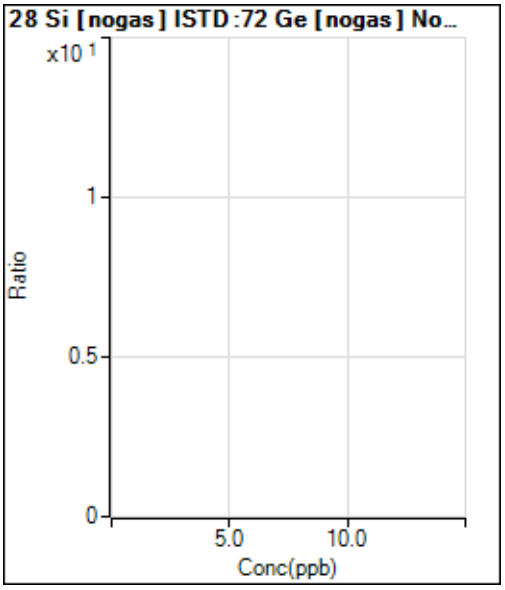
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3413.78	0.0054	P	6.3	
2	☐	2.000	0.896	3933.92	0.0062	P	2.5	-55.2
3	☐	5.000	4.492	6034.62	0.0094	P	5.1	-10.2
4	☐	10.000	8.844	8342.43	0.0133	P	8.3	-11.6
5	☐	100.000	99.576	59769.59	0.0949	P	1.1	-0.4
6	☐	200.000	200.293	116102.52	0.1855	P	1.2	0.1
7	☐	1.000						

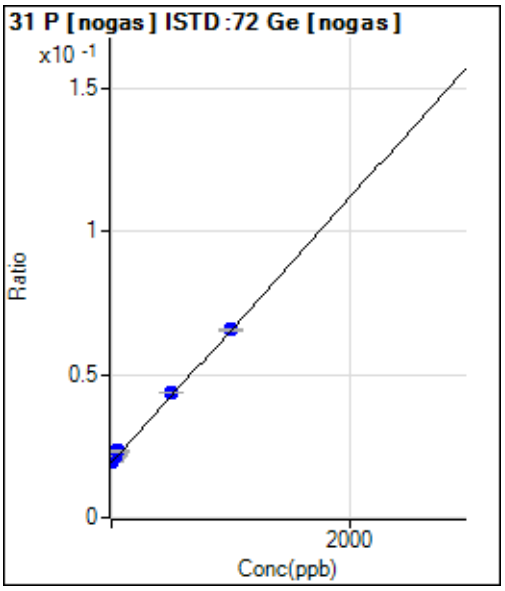
y = 8.9902E-004 * x + 0.0054
R = 1.0000
DL = 1.125 ppb
BEC = 5.997 ppb

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						

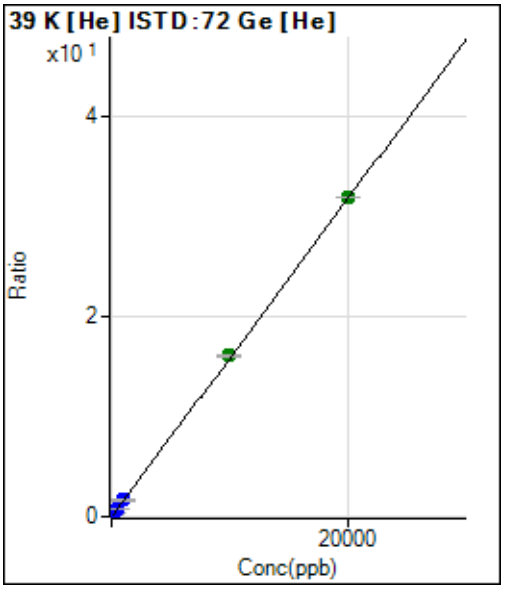
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43959.88	0.0198	P	3.3	
2	☐	10.000	25.879	46470.75	0.0210	P	2.3	158.8
3	☐	25.000	40.144	48279.51	0.0216	P	2.6	60.6
4	☐	50.000	73.597	51536.99	0.0232	P	2.1	47.2
5	☐	500.000	516.412	97501.34	0.0437	P	0.3	3.3
6	☐	1000.000	990.077	144020.78	0.0657	P	0.9	-1.0
7	☐	5.000						

y = 4.6395E-005 * x + 0.0198
R = 0.9997
DL = 42.28 ppb
BEC = 426.4 ppb

Weight: <None>
Min Conc: <None>

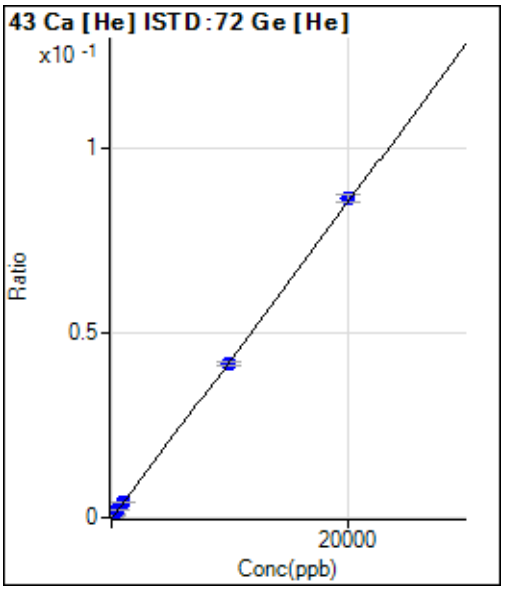


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90182.06	0.1425	P	2.8	
2	☐	200.000	186.688	279195.47	0.4398	P	1.7	-6.7
3	☐	500.000	449.049	549005.36	0.8576	P	1.1	-10.2
4	☐	1000.000	941.607	1027149.65	1.6421	P	1.4	-5.8
5	☐	10000.00	10023.83	10142593.39	16.1064	A	1.4	0.2
6	☐	20000.00	19992.40	20022071.37	31.9822	A	0.3	0.0
7	☐	100.000						

y = 0.0016 * x + 0.1425
R = 1.0000
DL = 7.458 ppb
BEC = 89.45 ppb

Weight: <None>
Min Conc: <None>

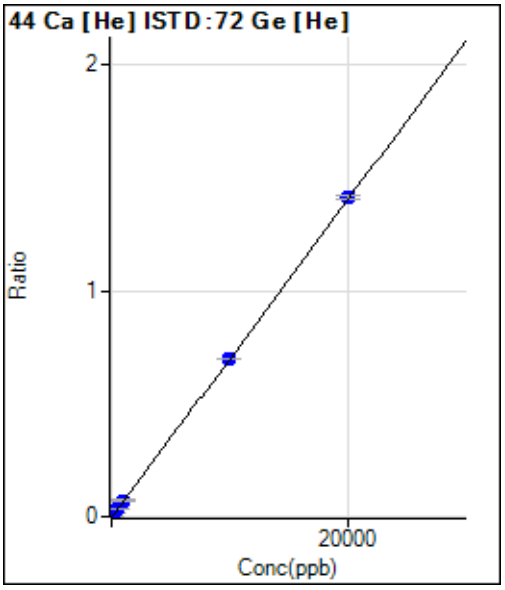
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	18.9	
2	☐	200.000	165.737	513.35	0.0008	P	14.8	-17.1
3	☐	500.000	489.775	1403.43	0.0022	P	10.5	-2.0
4	☐	1000.000	958.196	2623.61	0.0042	P	7.0	-4.2
5	☐	10000.00	9684.733	26132.88	0.0415	P	1.8	-3.2
6	☐	20000.00	20160.32	54009.36	0.0863	P	2.2	0.8
7	☐	100.000						

y = 4.2744E-006 * x + 1.0012E-004
R = 0.9998
DL = 13.28 ppb
BEC = 23.42 ppb

Weight: <None>
Min Conc: <None>

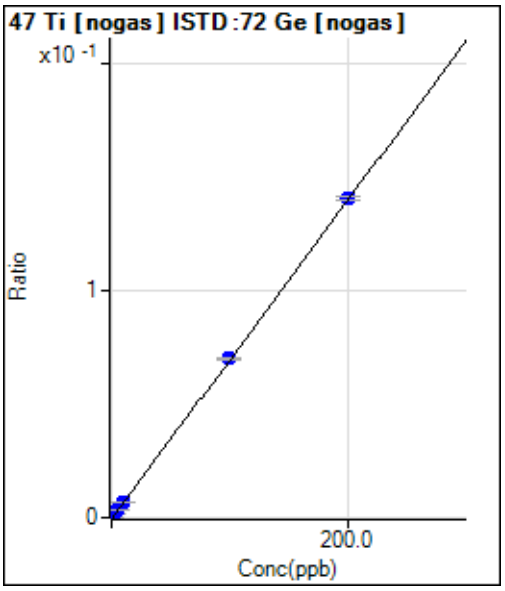


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1750.14	0.0028	P	2.7	
2	☐	200.000	187.805	10146.90	0.0160	P	8.0	-6.1
3	☐	500.000	474.762	23161.26	0.0362	P	2.0	-5.0
4	☐	1000.000	985.162	45090.54	0.0721	P	3.7	-1.5
5	☐	10000.00	9887.492	439950.63	0.6986	P	0.5	-1.1
6	☐	20000.00	20057.74	885442.80	1.4144	P	1.3	0.3
7	☐	100.000						

y = 7.0378E-005 * x + 0.0028
R = 1.0000
DL = 3.203 ppb
BEC = 39.28 ppb

Weight: <None>
Min Conc: <None>

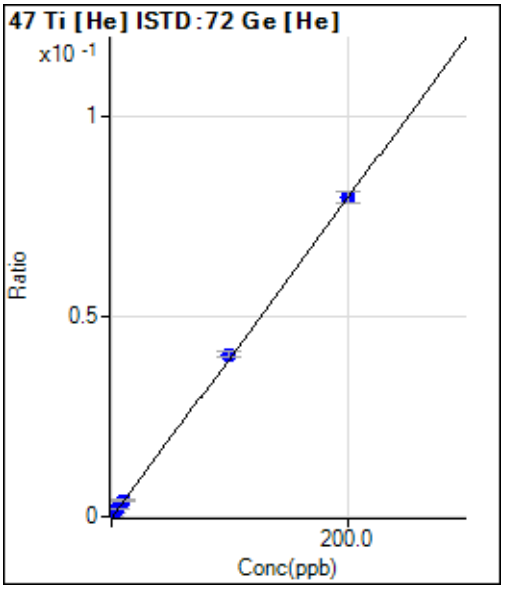
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0001	P	17.6	
2	☐	2.000	1.893	3123.72	0.0014	P	6.2	-5.4
3	☐	5.000	4.539	7285.21	0.0033	P	2.5	-9.2
4	☐	10.000	9.755	15378.09	0.0069	P	2.4	-2.5
5	☐	100.000	99.571	155743.56	0.0699	P	0.5	-0.4
6	☐	200.000	200.239	307753.80	0.1404	P	1.4	0.1
7	☐	1.000						

y = 7.0088E-004 * x + 8.4108E-005
R = 1.0000
DL = 0.06321 ppb
BEC = 0.12 ppb

Weight: <None>
Min Conc: <None>

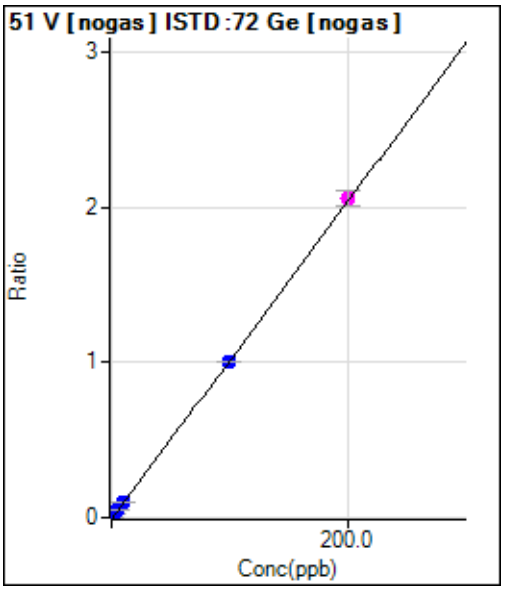


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	88.1	
2	☐	2.000	1.796	486.68	0.0008	P	7.4	-10.2
3	☐	5.000	4.679	1230.07	0.0019	P	5.8	-6.4
4	☐	10.000	9.979	2530.26	0.0040	P	7.6	-0.2
5	☐	100.000	101.335	25588.63	0.0406	P	3.6	1.3
6	☐	200.000	199.344	50006.10	0.0799	P	3.3	-0.3
7	☐	1.000						

y = 4.0048E-004 * x + 4.7276E-005
R = 1.0000
DL = 0.312 ppb
BEC = 0.118 ppb

Weight: <None>
Min Conc: <None>

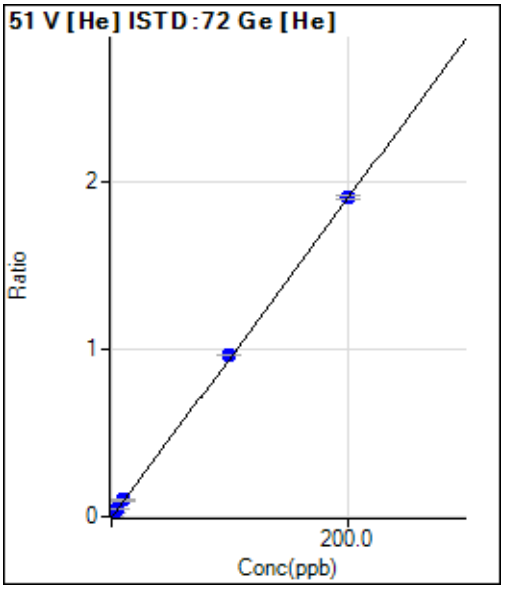
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	371.32	0.0001	P	1656.0	
2	☐	2.000	1.957	44752.45	0.0202	P	4.7	-2.2
3	☐	5.000	4.496	103143.34	0.0462	P	1.8	-10.1
4	☐	10.000	9.423	214913.61	0.0967	P	0.7	-5.8
5	☐	100.000	98.020	2239740.44	1.0048	P	0.5	-2.0
6	☐	200.000	201.032	4516305.63	2.0607	M	4.4	0.5
7	☐	1.000						

y = 0.0102 * x + 1.4946E-004
R = 0.9999
DL = 0.7244 ppb
BEC = 0.01458 ppb

Weight: <None>
Min Conc: <None>

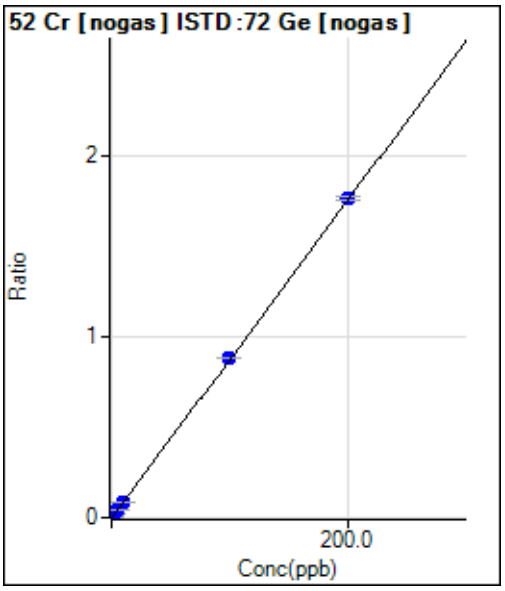


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2235.49	0.0035	P	21.2	
2	☐	2.000	1.950	14082.10	0.0222	P	4.0	-2.5
3	☐	5.000	4.485	29708.13	0.0464	P	5.3	-10.3
4	☐	10.000	9.904	61458.46	0.0983	P	2.2	-1.0
5	☐	100.000	100.641	608366.05	0.9661	P	0.7	0.6
6	☐	200.000	199.698	1197877.45	1.9134	P	0.7	-0.2
7	☐	1.000						

y = 0.0096 * x + 0.0035
R = 1.0000
DL = 0.2354 ppb
BEC = 0.3696 ppb

Weight: <None>
Min Conc: <None>

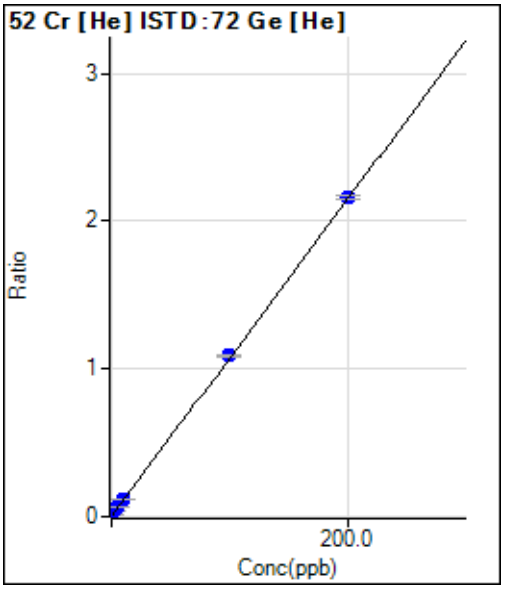
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11798.12	0.0053	P	3.4	
2	☐	2.000	1.937	49528.03	0.0224	P	0.8	-3.2
3	☐	5.000	4.671	103592.94	0.0464	P	0.7	-6.6
4	☐	10.000	9.637	200329.79	0.0902	P	0.6	-3.6
5	☐	100.000	99.656	1967695.60	0.8828	P	0.3	-0.3
6	☐	200.000	200.199	3874711.92	1.7681	P	0.9	0.1
7	☐	1.000						

y = 0.0088 * x + 0.0053
R = 1.0000
DL = 0.0622 ppb
BEC = 0.603 ppb

Weight: <None>
Min Conc: <None>

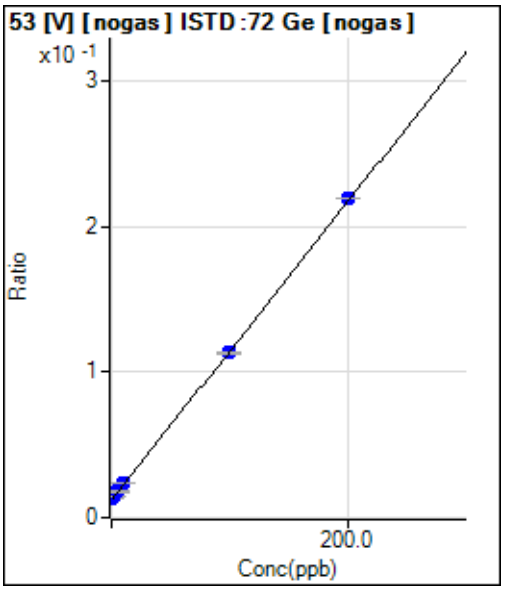


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8809.38	0.0139	P	7.6	
2	☐	2.000	1.809	21171.76	0.0333	P	1.7	-9.5
3	☐	5.000	4.633	40765.31	0.0637	P	0.8	-7.3
4	☐	10.000	9.900	75206.67	0.1202	P	2.3	-1.0
5	☐	100.000	100.017	685177.93	1.0880	P	0.4	0.0
6	☐	200.000	200.008	1353392.74	2.1619	P	0.8	0.0
7	☐	1.000						

y = 0.0107 * x + 0.0139
R = 1.0000
DL = 0.2953 ppb
BEC = 1.296 ppb

Weight: <None>
Min Conc: <None>

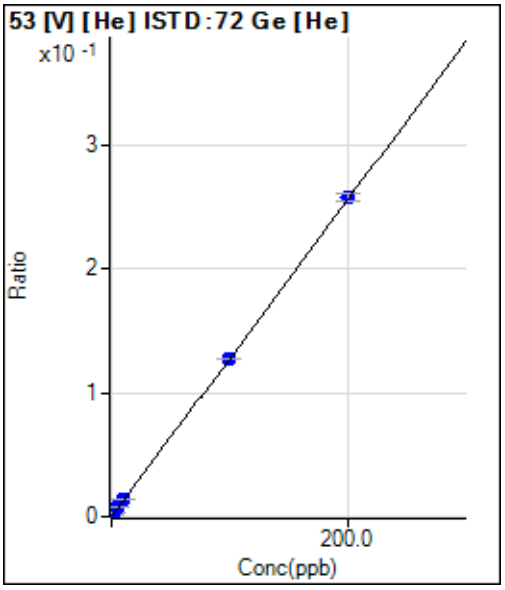
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	29368.84	0.0132	P	4.4	
2	☐	2.000	0.711	30888.48	0.0139	P	0.9	-64.5
3	☐	5.000	4.581	39949.81	0.0179	P	1.8	-8.4
4	☐	10.000	10.427	53086.74	0.0239	P	1.6	4.3
5	☐	100.000	97.579	252128.41	0.1131	P	1.0	-2.4
6	☐	200.000	201.213	480404.25	0.2192	P	0.4	0.6
7	☐	1.000						

y = 0.0010 * x + 0.0132
R = 0.9999
DL = 1.686 ppb
BEC = 12.91 ppb

Weight: <None>
Min Conc: <None>

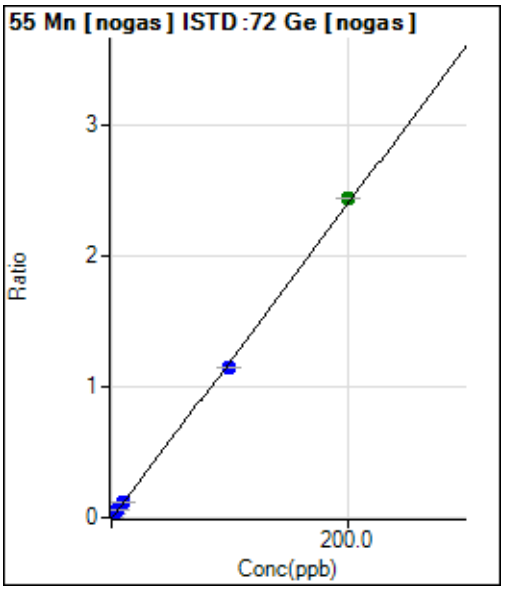


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	880.04	0.0014	P	10.2	
2	☐	2.000	1.736	2293.56	0.0036	P	6.3	-13.2
3	☐	5.000	5.057	5037.60	0.0079	P	3.0	1.1
4	☐	10.000	9.890	8792.71	0.0141	P	2.6	-1.1
5	☐	100.000	98.885	80641.22	0.1281	P	0.3	-1.1
6	☐	200.000	200.564	161699.26	0.2583	P	2.0	0.3
7	☐	1.000						

y = 0.0013 * x + 0.0014
R = 1.0000
DL = 0.3332 ppb
BEC = 1.084 ppb

Weight: <None>
Min Conc: <None>

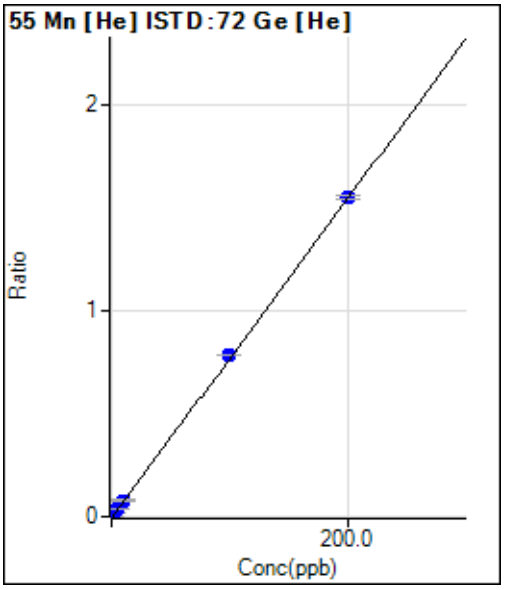
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8459.20	0.0038	P	3.6	
2	☐	2.000	1.878	58533.59	0.0264	P	0.8	-6.1
3	☐	5.000	4.565	131135.80	0.0588	P	0.9	-8.7
4	☐	10.000	9.209	254893.85	0.1147	P	0.7	-7.9
5	☐	100.000	94.961	2557556.84	1.1474	P	0.4	-5.0
6	☐	200.000	202.571	5354649.09	2.4434	A	0.2	1.3
7	☐	1.000						

y = 0.0120 * x + 0.0038
R = 0.9996
DL = 0.03456 ppb
BEC = 0.316 ppb

Weight: <None>
Min Conc: <None>

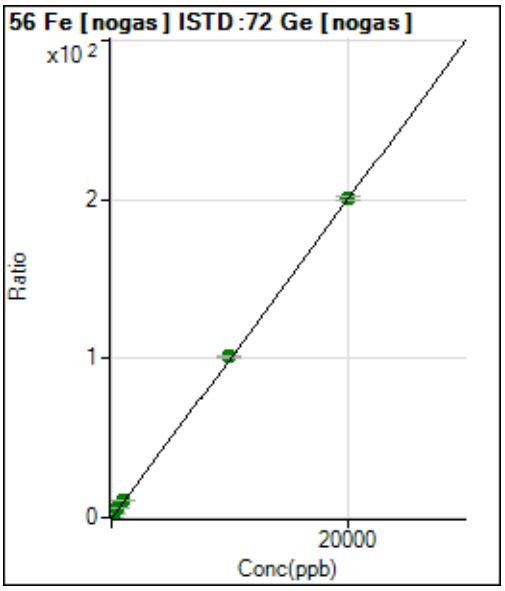


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	680.03	0.0011	P	18.4	
2	☐	2.000	1.956	10340.35	0.0163	P	2.1	-2.2
3	☐	5.000	4.767	24423.49	0.0381	P	0.5	-4.7
4	☐	10.000	10.091	49758.98	0.0796	P	3.0	0.9
5	☐	100.000	100.678	493774.76	0.7841	P	0.2	0.7
6	☐	200.000	199.663	972803.45	1.5539	P	1.0	-0.2
7	☐	1.000						

y = 0.0078 * x + 0.0011
R = 1.0000
DL = 0.07625 ppb
BEC = 0.1383 ppb

Weight: <None>
Min Conc: <None>

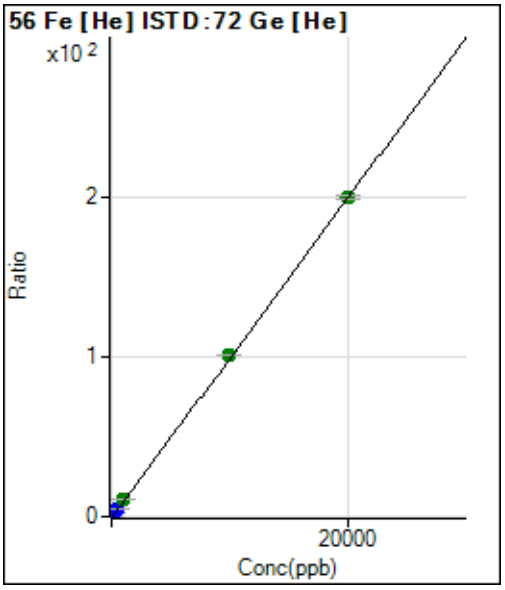
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	931203.74	0.4190	P	1.2	
2	☐	200.000	210.742	5616877.42	2.5362	A	1.1	5.4
3	☐	500.000	506.817	12292400.65	5.5106	A	1.3	1.4
4	☐	1000.000	1014.567	23578243.81	10.6115	A	0.4	1.5
5	☐	10000.00	10038.21	225698983.3	101.263	A	1.6	0.4
6	☐	20000.00	19979.88	440792446.7	201.139	A	0.6	-0.1
7	☐	100.000						

y = 0.0100 * x + 0.4190
R = 1.0000
DL = 1.511 ppb
BEC = 41.71 ppb

Weight: <None>
Min Conc: <None>

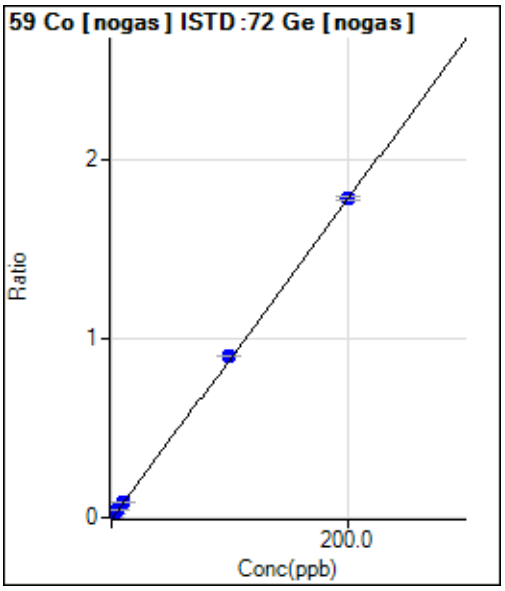


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21115.16	0.0333	P	2.9	
2	☐	200.000	184.403	1194257.56	1.8812	P	0.7	-7.8
3	☐	500.000	446.829	2887498.08	4.5109	P	1.7	-10.6
4	☐	1000.000	1030.893	6482679.90	10.3635	A	1.5	3.1
5	☐	10000.00	10109.87	63819245.72	101.340	A	0.5	1.1
6	☐	20000.00	19945.00	125140251.4	199.894	A	0.8	-0.3
7	☐	100.000						

y = 0.0100 * x + 0.0333
R = 1.0000
DL = 0.2887 ppb
BEC = 3.328 ppb

Weight: <None>
Min Conc: <None>

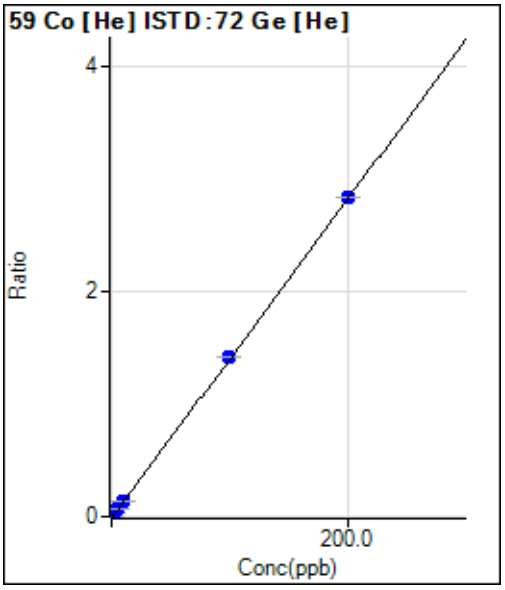
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0001	P	10.5	
2	☐	2.000	2.023	40434.54	0.0183	P	2.0	1.2
3	☐	5.000	4.842	97058.27	0.0435	P	1.6	-3.2
4	☐	10.000	9.886	197109.81	0.0887	P	0.4	-1.1
5	☐	100.000	100.970	2017006.79	0.9049	P	0.4	1.0
6	☐	200.000	199.524	3918487.13	1.7880	P	0.9	-0.2
7	☐	1.000						

y = 0.0090 * x + 1.2743E-004
R = 1.0000
DL = 0.004498 ppb
BEC = 0.01422 ppb

Weight: <None>
Min Conc: <None>

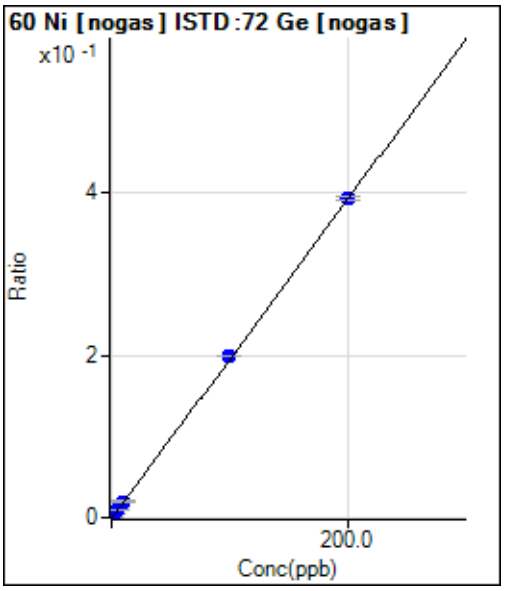


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0001	P	26.7	
2	☐	2.000	1.958	17664.04	0.0278	P	4.1	-2.1
3	☐	5.000	4.788	43463.08	0.0679	P	2.2	-4.2
4	☐	10.000	10.067	89251.14	0.1427	P	2.1	0.7
5	☐	100.000	99.828	890365.38	1.4138	P	0.3	-0.2
6	☐	200.000	200.088	1774013.41	2.8337	P	0.3	0.0
7	☐	1.000						

y = 0.0142 * x + 8.9484E-005
R = 1.0000
DL = 0.005069 ppb
BEC = 0.006319 ppb

Weight: <None>
Min Conc: <None>

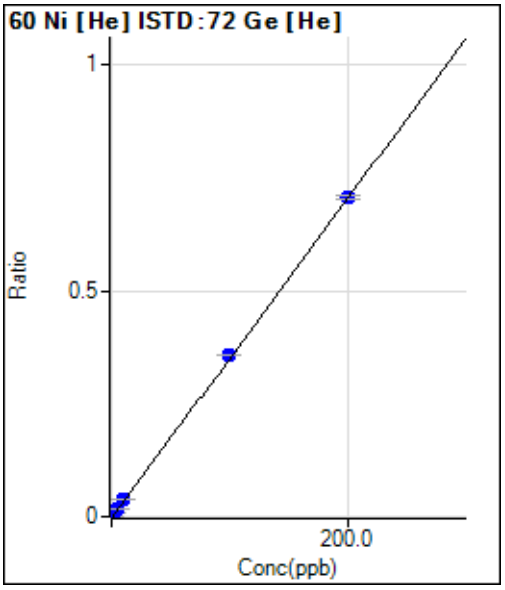
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	890.04	0.0004	P	8.1	
2	☐	2.000	2.045	9823.40	0.0044	P	0.8	2.2
3	☐	5.000	4.859	22283.50	0.0100	P	2.2	-2.8
4	☐	10.000	9.988	44669.90	0.0201	P	2.8	-0.1
5	☐	100.000	101.029	445226.10	0.1997	P	0.3	1.0
6	☐	200.000	199.489	863514.23	0.3940	P	1.6	-0.3
7	☐	1.000						

y = 0.0020 * x + 4.0064E-004
R = 1.0000
DL = 0.04913 ppb
BEC = 0.203 ppb

Weight: <None>
Min Conc: <None>

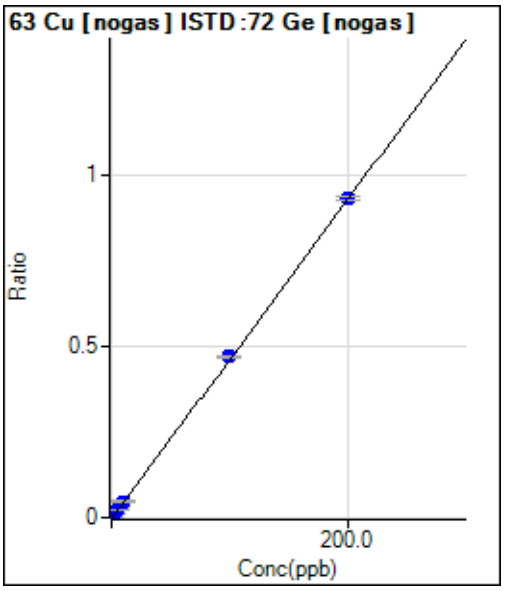


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0005	P	8.0	
2	☐	2.000	1.933	4640.79	0.0073	P	3.0	-3.4
3	☐	5.000	4.840	11261.09	0.0176	P	3.0	-3.2
4	☐	10.000	10.436	23395.17	0.0374	P	4.5	4.4
5	☐	100.000	100.717	224670.02	0.3568	P	0.3	0.7
6	☐	200.000	199.624	442392.97	0.7066	P	0.9	-0.2
7	☐	1.000						

y = 0.0035 * x + 4.7362E-004
R = 1.0000
DL = 0.03218 ppb
BEC = 0.1339 ppb

Weight: <None>
Min Conc: <None>

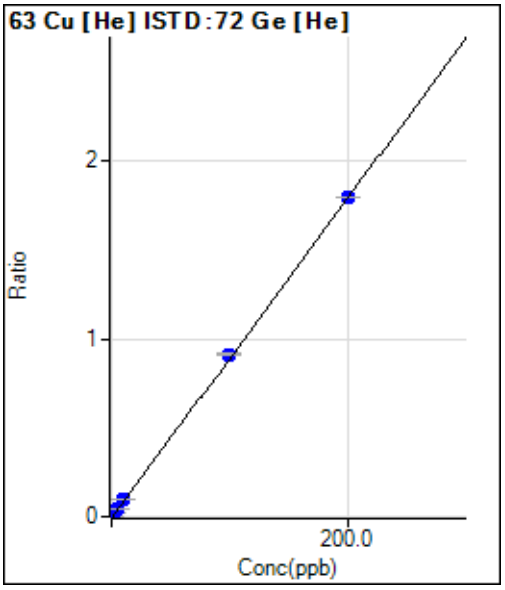
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1503.44	0.0007	P	12.6	
2	☐	2.000	2.065	22877.75	0.0103	P	0.9	3.3
3	☐	5.000	4.842	51990.43	0.0233	P	2.5	-3.2
4	☐	10.000	10.060	105972.35	0.0477	P	1.1	0.6
5	☐	100.000	100.657	1050207.43	0.4712	P	1.7	0.7
6	☐	200.000	199.672	2046788.46	0.9340	P	1.1	-0.2
7	☐	1.000						

y = 0.0047 * x + 6.7584E-004
R = 1.0000
DL = 0.05486 ppb
BEC = 0.1446 ppb

Weight: <None>
Min Conc: <None>

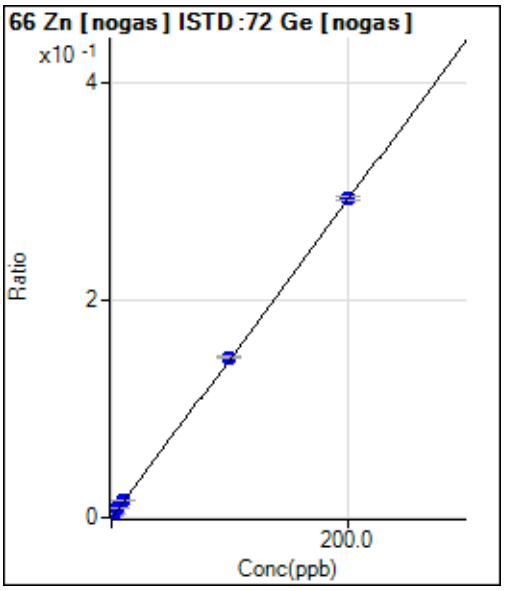


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	620.02	0.0010	P	1.9	
2	☐	2.000	2.007	12081.68	0.0190	P	3.1	0.3
3	☐	5.000	4.937	29061.76	0.0454	P	1.8	-1.3
4	☐	10.000	10.320	58694.59	0.0938	P	0.9	3.2
5	☐	100.000	101.013	572925.49	0.9098	P	1.2	1.0
6	☐	200.000	199.479	1124138.19	1.7956	P	0.2	-0.3
7	☐	1.000						

y = 0.0090 * x + 9.7914E-004
R = 1.0000
DL = 0.00615 ppb
BEC = 0.1088 ppb

Weight: <None>
Min Conc: <None>

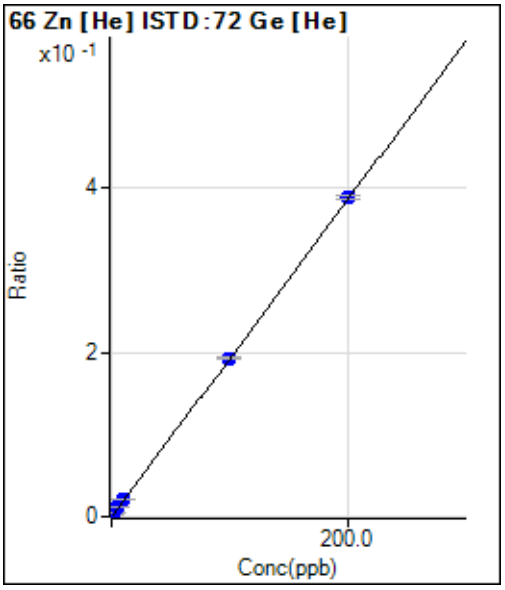
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2493.59	0.0011	P	3.9	
2	☐	2.000	2.001	8966.16	0.0040	P	4.8	0.1
3	☐	5.000	5.206	19479.55	0.0087	P	2.0	4.1
4	☐	10.000	10.093	35278.47	0.0159	P	2.7	0.9
5	☐	100.000	99.941	328175.84	0.1472	P	1.6	-0.1
6	☐	200.000	200.019	643294.56	0.2935	P	0.7	0.0
7	☐	1.000						

y = 0.0015 * x + 0.0011
R = 1.0000
DL = 0.09061 ppb
BEC = 0.7673 ppb

Weight: <None>
Min Conc: <None>

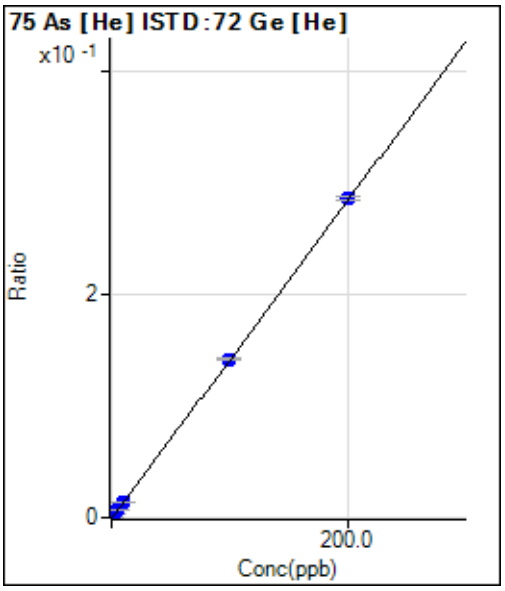


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	983.38	0.0016	P	5.2	
2	☐	2.000	1.987	3423.77	0.0054	P	1.0	-0.6
3	☐	5.000	5.058	7251.88	0.0113	P	4.8	1.2
4	☐	10.000	10.203	13302.80	0.0213	P	2.9	2.0
5	☐	100.000	99.093	121553.67	0.1930	P	0.9	-0.9
6	☐	200.000	200.442	243426.44	0.3888	P	0.7	0.2
7	☐	1.000						

y = 0.0019 * x + 0.0016
R = 1.0000
DL = 0.1266 ppb
BEC = 0.8041 ppb

Weight: <None>
Min Conc: <None>

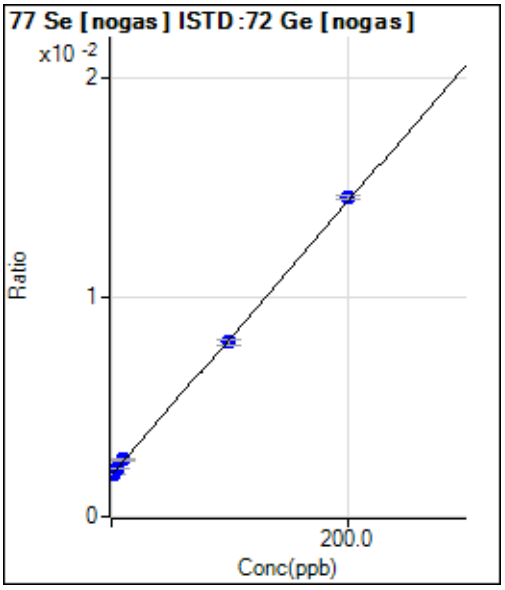
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	174.45	0.0003	P	10.0	
2	☐	2.000	1.969	1959.03	0.0031	P	7.1	-1.5
3	☐	5.000	4.793	4556.28	0.0071	P	1.7	-4.1
4	☐	10.000	9.733	8862.69	0.0142	P	3.5	-2.7
5	☐	100.000	99.084	89227.64	0.1417	P	1.4	-0.9
6	☐	200.000	200.477	179290.51	0.2864	P	1.2	0.2
7	☐	1.000						

y = 0.0014 * x + 2.7542E-004
R = 1.0000
DL = 0.05771 ppb
BEC = 0.193 ppb

Weight: <None>
Min Conc: <None>

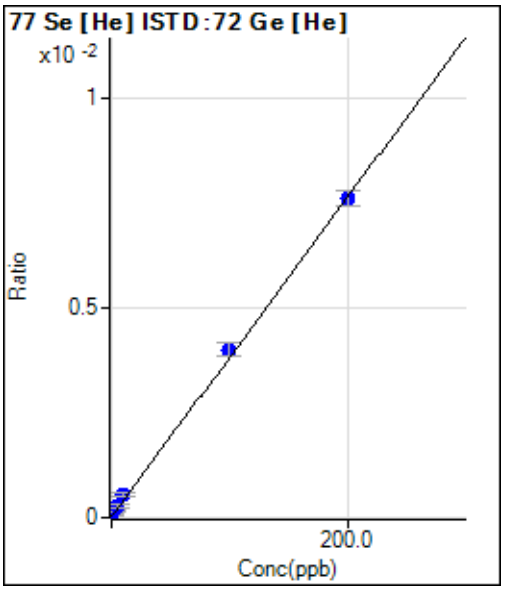


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4390.72	0.0020	P	7.6	
2	☐	2.000	-0.512	4307.39	0.0019	P	1.2	-125.
3	☐	5.000	3.226	4857.54	0.0022	P	1.0	-35.5
4	☐	10.000	10.079	5784.57	0.0026	P	4.2	0.8
5	☐	100.000	95.938	17700.78	0.0079	P	3.5	-4.1
6	☐	200.000	202.097	31871.23	0.0145	P	1.1	1.0
7	☐	1.000						

y = 6.2182E-005 * x + 0.0020
R = 0.9997
DL = 7.232 ppb
BEC = 31.79 ppb

Weight: <None>
Min Conc: <None>

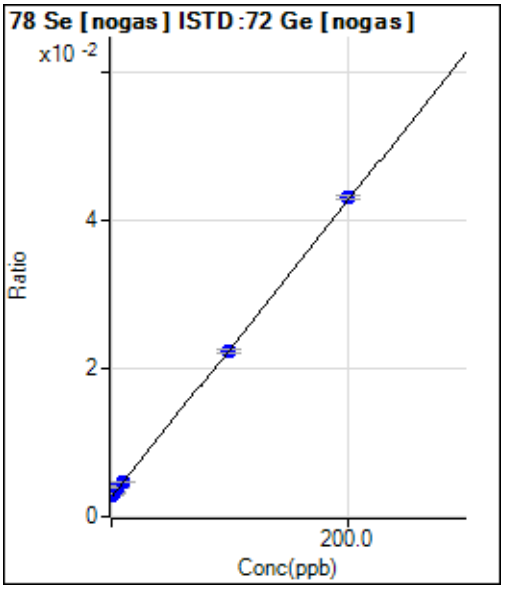
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	41.2	
2	☐	2.000	3.032	110.00	0.0002	P	31.5	51.6
3	☐	5.000	5.724	176.67	0.0003	P	26.2	14.5
4	☐	10.000	12.624	336.68	0.0005	P	12.6	26.2
5	☐	100.000	103.562	2520.28	0.0040	P	7.3	3.6
6	☐	200.000	198.060	4757.52	0.0076	P	4.4	-1.0
7	☐	1.000						

y = 3.8080E-005 * x + 5.7786E-005
R = 0.9998
DL = 1.875 ppb
BEC = 1.517 ppb

Weight: <None>
Min Conc: <None>

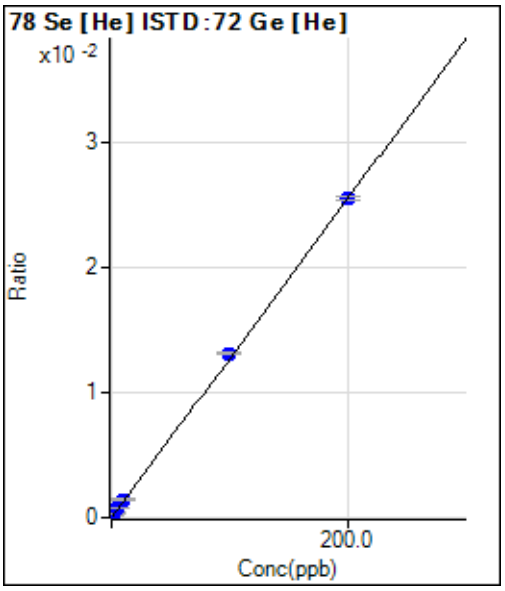


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6444.87	0.0029	P	4.1	
2	☐	2.000	1.505	7088.48	0.0032	P	3.5	-24.7
3	☐	5.000	5.139	8759.43	0.0039	P	6.0	2.8
4	☐	10.000	9.166	10513.90	0.0047	P	2.4	-8.3
5	☐	100.000	97.426	49867.40	0.0224	P	2.2	-2.6
6	☐	200.000	201.330	94540.12	0.0431	P	1.3	0.7
7	☐	1.000						

y = 1.9987E-004 * x + 0.0029
R = 0.9999
DL = 1.779 ppb
BEC = 14.51 ppb

Weight: <None>
Min Conc: <None>

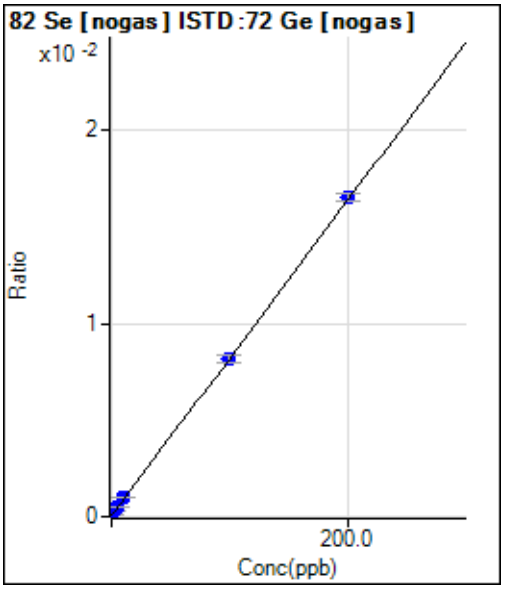
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.00	0.0001	P	10.0	
2	☐	2.000	1.999	238.00	0.0004	P	10.7	-0.1
3	☐	5.000	5.155	497.34	0.0008	P	6.1	3.1
4	☐	10.000	10.280	895.36	0.0014	P	5.5	2.8
5	☐	100.000	101.665	8237.63	0.0131	P	1.4	1.7
6	☐	200.000	199.150	15969.91	0.0255	P	0.8	-0.4
7	☐	1.000						

y = 1.2749E-004 * x + 1.2008E-004
R = 1.0000
DL = 0.2831 ppb
BEC = 0.9419 ppb

Weight: <None>
Min Conc: <None>

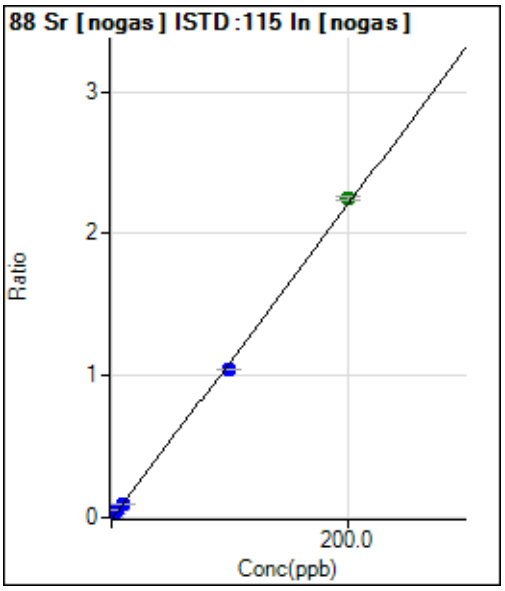


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0001	P	14.2	
2	☐	2.000	2.313	716.70	0.0003	P	7.1	15.6
3	☐	5.000	4.443	1110.07	0.0005	P	3.4	-11.1
4	☐	10.000	10.332	2173.54	0.0010	P	6.0	3.3
5	☐	100.000	98.454	18211.43	0.0082	P	4.3	-1.5
6	☐	200.000	200.767	36211.28	0.0165	P	2.7	0.4
7	☐	1.000						

y = 8.1627E-005 * x + 1.3485E-004
R = 0.9999
DL = 0.7031 ppb
BEC = 1.652 ppb

Weight: <None>
Min Conc: <None>

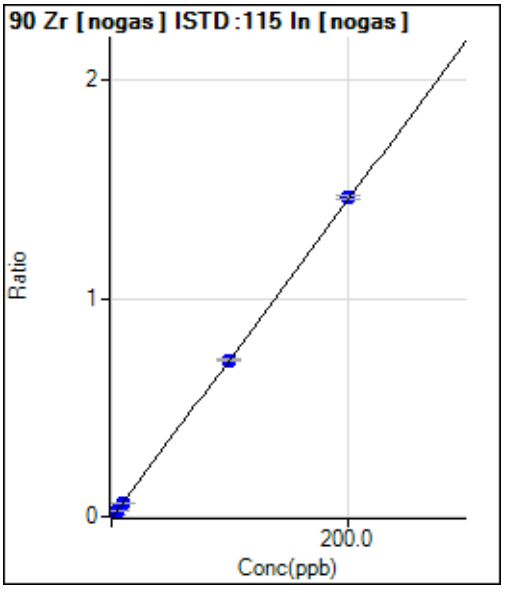
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1680.13	0.0007	P	6.8	
2	☐	2.000	1.844	52182.56	0.0211	P	0.8	-7.8
3	☐	5.000	4.404	123584.92	0.0495	P	1.0	-11.9
4	☐	10.000	9.038	250970.03	0.1008	P	1.1	-9.6
5	☐	100.000	93.986	2582309.70	1.0420	P	0.4	-6.0
6	☐	200.000	203.071	5438029.92	2.2507	A	1.8	1.5
7	☐	1.000						

y = 0.0111 * x + 6.7558E-004
R = 0.9994
DL = 0.0124 ppb
BEC = 0.06097 ppb

Weight: <None>
Min Conc: <None>

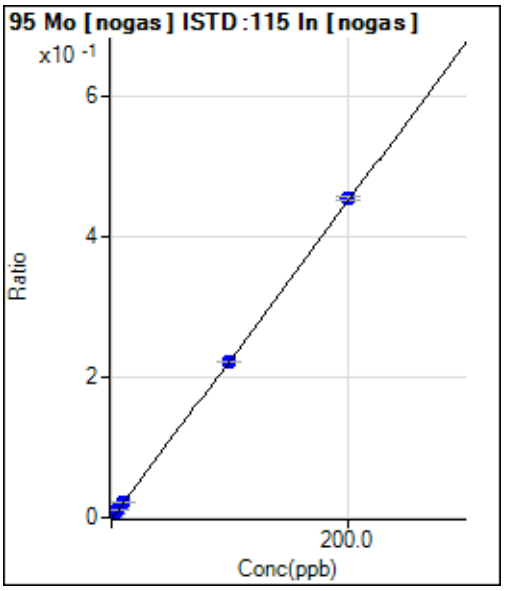


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1213.41	0.0005	P	9.2	
2	☐	2.000	1.375	25949.85	0.0105	P	3.3	-31.3
3	☐	5.000	3.907	72267.48	0.0289	P	1.3	-21.9
4	☐	10.000	8.811	160915.75	0.0646	P	2.6	-11.9
5	☐	100.000	98.419	1776879.03	0.7170	P	0.7	-1.6
6	☐	200.000	200.883	3535339.11	1.4630	P	0.7	0.4
7	☐	1.000						

y = 0.0073 * x + 4.8773E-004
R = 1.0000
DL = 0.01849 ppb
BEC = 0.06699 ppb

Weight: <None>
Min Conc: <None>

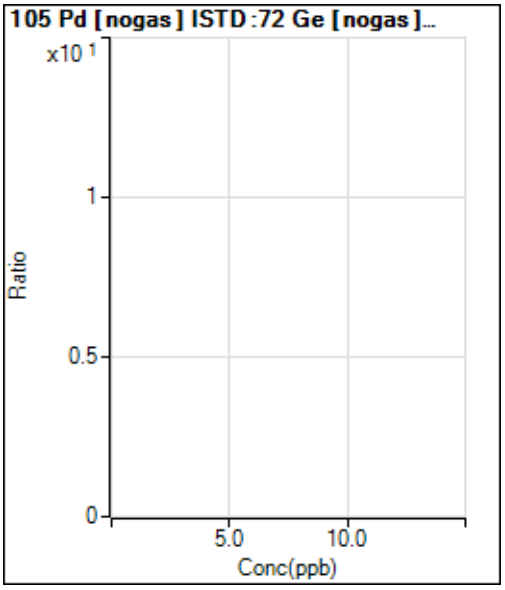
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.68	0.0001	P	5.9	
2	☐	2.000	1.891	10827.51	0.0044	P	3.5	-5.5
3	☐	5.000	4.613	26347.39	0.0105	P	1.8	-7.7
4	☐	10.000	9.388	53180.06	0.0214	P	1.5	-6.1
5	☐	100.000	98.025	550458.44	0.2221	P	0.8	-2.0
6	☐	200.000	201.029	1100549.59	0.4554	P	1.5	0.5
7	☐	1.000						

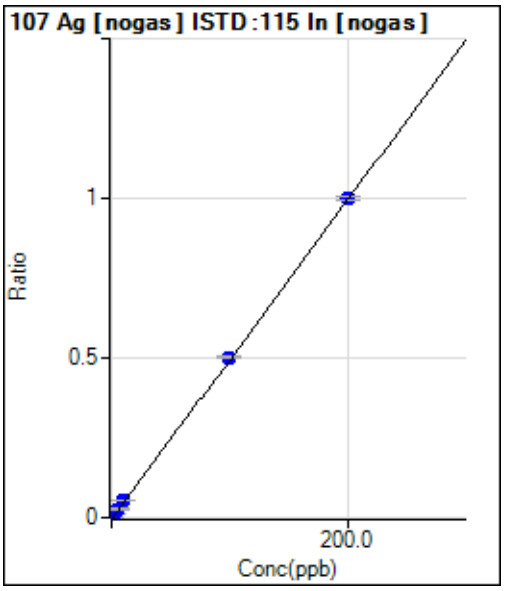
y = 0.0023 * x + 9.9160E-005
R = 0.9999
DL = 0.007706 ppb
BEC = 0.04378 ppb

Weight: <None>
Min Conc: <None>



	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						

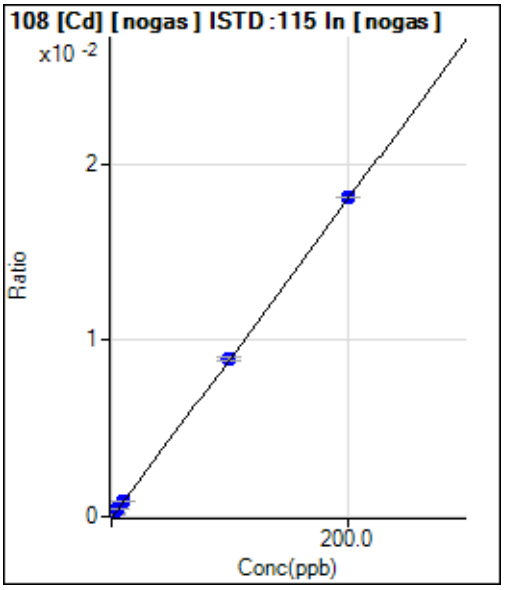
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.33	0.0000	P	33.6	
2	☐	2.000	2.247	27897.08	0.0113	P	0.4	12.3
3	☐	5.000	5.391	67503.10	0.0270	P	1.1	7.8
4	☐	10.000	11.052	137794.48	0.0554	P	1.3	10.5
5	☐	100.000	100.049	1241108.58	0.5008	P	1.1	0.0
6	☐	200.000	199.911	2417802.31	1.0006	P	1.6	0.0
7	☐	1.000						

y = 0.0050 * x + 4.1506E-005
R = 1.0000
DL = 0.008348 ppb
BEC = 0.008293 ppb

Weight: <None>
Min Conc: <None>

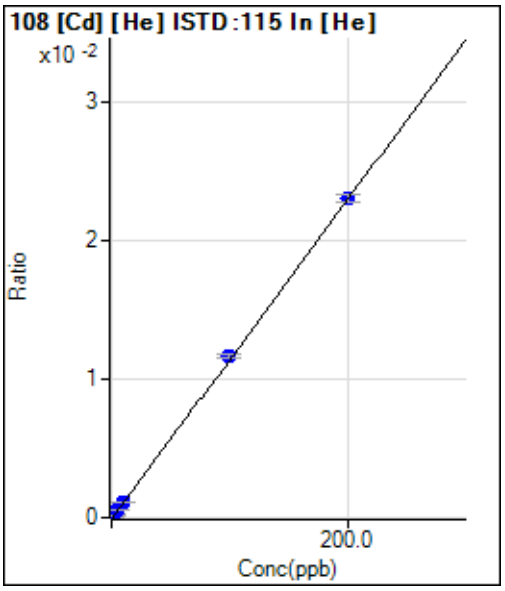


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	1.905	426.68	0.0002	P	18.8	-4.8
3	☐	5.000	4.750	1073.39	0.0004	P	7.4	-5.0
4	☐	10.000	9.885	2226.88	0.0009	P	6.5	-1.2
5	☐	100.000	99.291	22263.97	0.0090	P	2.7	-0.7
6	☐	200.000	200.368	43809.72	0.0181	P	0.6	0.2
7	☐	1.000						

y = 9.0480E-005 * x + 0.0000E+000
R = 1.0000
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

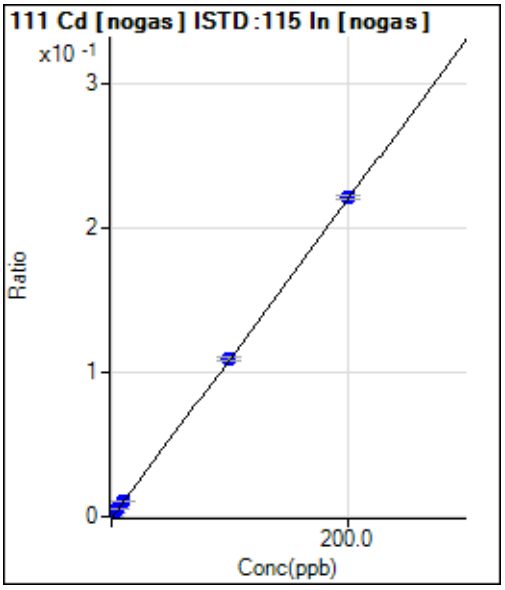
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.894	200.01	0.0002	P	34.7	-5.3
3	☐	5.000	4.717	490.02	0.0005	P	16.5	-5.7
4	☐	10.000	9.829	1006.72	0.0011	P	4.3	-1.7
5	☐	100.000	100.592	10203.73	0.0116	P	2.6	0.6
6	☐	200.000	199.721	19917.23	0.0231	P	2.8	-0.1
7	☐	1.000						

y = 1.1541E-004 * x + 3.7167E-006
R = 1.0000
DL = 0.1673 ppb
BEC = 0.0322 ppb

Weight: <None>
Min Conc: <None>

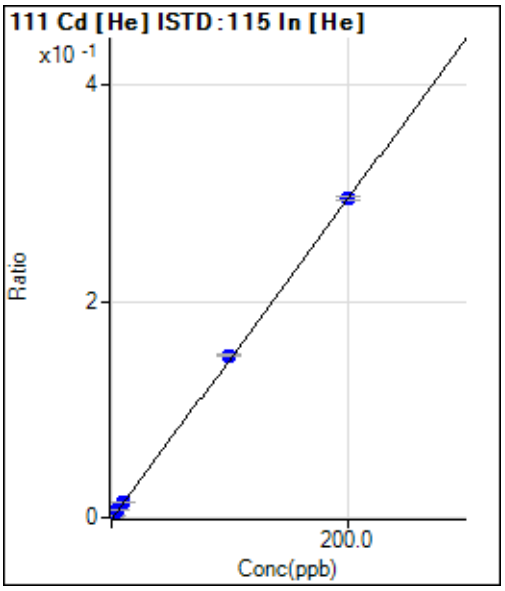


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.984	5423.47	0.0022	P	2.6	-0.8
3	☐	5.000	4.626	12775.13	0.0051	P	6.2	-7.5
4	☐	10.000	9.596	26399.63	0.0106	P	1.6	-4.0
5	☐	100.000	99.281	271909.56	0.1097	P	1.8	-0.7
6	☐	200.000	200.389	535223.69	0.2215	P	1.3	0.2
7	☐	1.000						

y = 0.0011 * x + 1.3438E-006
R = 1.0000
DL = 0.006318 ppb
BEC = 0.001216 ppb

Weight: <None>
Min Conc: <None>

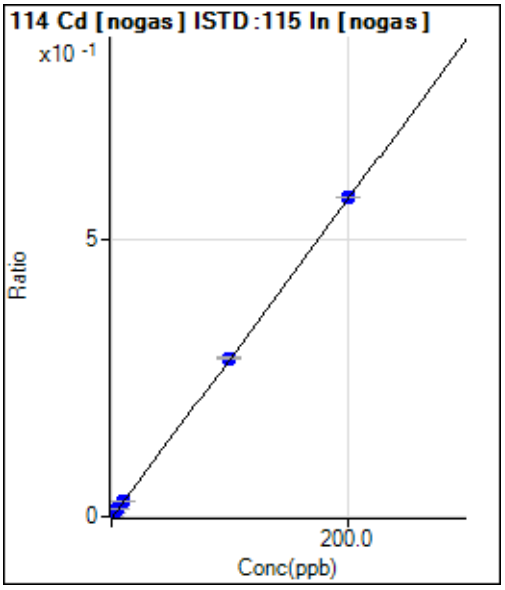
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-3.58	0.0000	P	-173.2	
2	☐	2.000	1.757	2335.67	0.0026	P	0.9	-12.2
3	☐	5.000	4.791	6345.93	0.0071	P	1.5	-4.2
4	☐	10.000	10.008	13116.98	0.0148	P	3.0	0.1
5	☐	100.000	101.132	131663.40	0.1499	P	0.8	1.1
6	☐	200.000	199.441	255317.82	0.2955	P	0.8	-0.3
7	☐	1.000						

y = 0.0015 * x - 3.9880E-006
R = 1.0000
DL = 0.01398 ppb
BEC = -0.002691 ppb

Weight: <None>
Min Conc: <None>

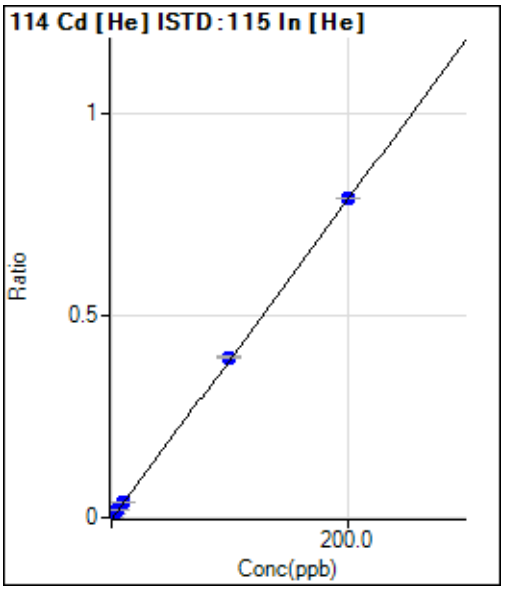


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	11.1	
2	☐	2.000	2.035	14547.58	0.0059	P	4.9	1.8
3	☐	5.000	4.615	33275.30	0.0133	P	0.6	-7.7
4	☐	10.000	9.751	70006.02	0.0281	P	0.5	-2.5
5	☐	100.000	99.278	709127.20	0.2861	P	1.2	-0.7
6	☐	200.000	200.383	1395668.57	0.5775	P	0.4	0.2
7	☐	1.000						

y = 0.0029 * x + 2.1446E-005
R = 1.0000
DL = 0.002475 ppb
BEC = 0.007441 ppb

Weight: <None>
Min Conc: <None>

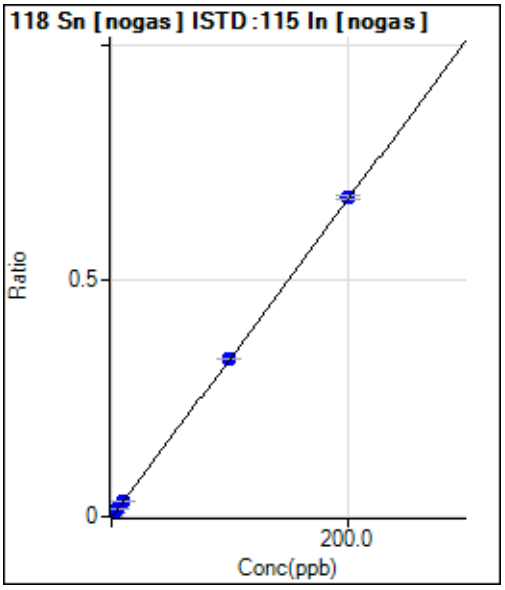
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	88.9	
2	☐	2.000	1.992	7091.88	0.0079	P	2.9	-0.4
3	☐	5.000	4.585	16212.64	0.0181	P	1.5	-8.3
4	☐	10.000	9.735	34023.76	0.0385	P	3.0	-2.7
5	☐	100.000	100.293	347967.26	0.3960	P	0.6	0.3
6	☐	200.000	199.877	681849.00	0.7892	P	0.1	-0.1
7	☐	1.000						

y = 0.0039 * x + 2.6237E-005
R = 1.0000
DL = 0.01772 ppb
BEC = 0.006645 ppb

Weight: <None>
Min Conc: <None>

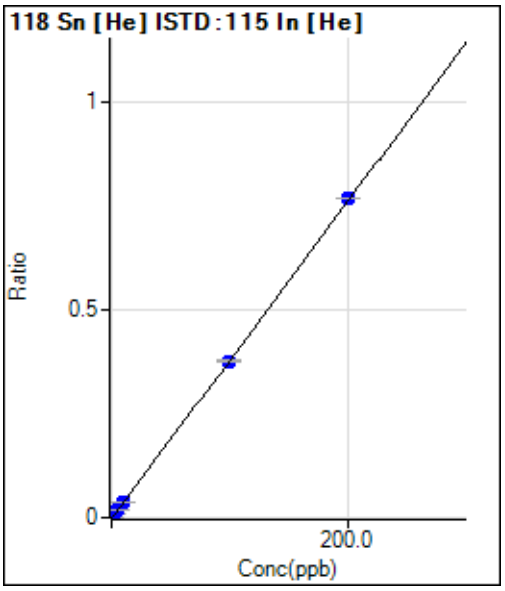


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2473.59	0.0010	P	3.4	
2	☐	2.000	1.898	18275.15	0.0074	P	1.1	-5.1
3	☐	5.000	4.635	41533.49	0.0166	P	2.1	-7.3
4	☐	10.000	9.468	81965.50	0.0329	P	2.5	-5.3
5	☐	100.000	99.064	830398.84	0.3351	P	0.7	-0.9
6	☐	200.000	200.505	1636254.30	0.6772	P	1.5	0.3
7	☐	1.000						

y = 0.0034 * x + 9.9443E-004
R = 1.0000
DL = 0.0304 ppb
BEC = 0.2949 ppb

Weight: <None>
Min Conc: <None>

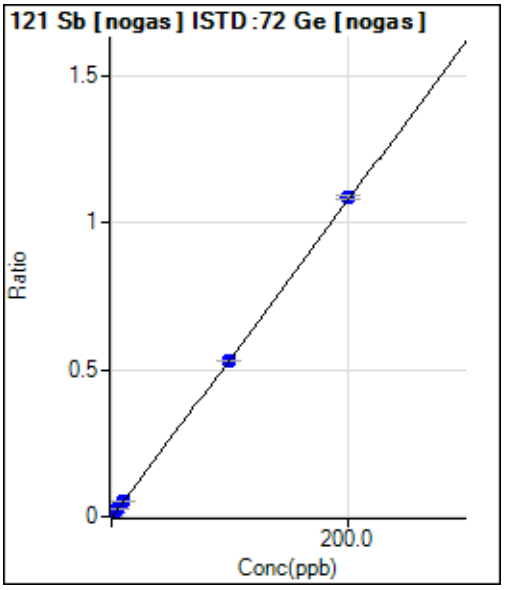
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1070.06	0.0012	P	17.3	
2	☐	2.000	1.767	7155.23	0.0080	P	2.0	-11.6
3	☐	5.000	4.540	16593.16	0.0186	P	3.0	-9.2
4	☐	10.000	9.389	32804.34	0.0371	P	2.3	-6.1
5	☐	100.000	98.148	330509.14	0.3761	P	1.0	-1.9
6	☐	200.000	200.970	664315.88	0.7689	P	0.3	0.5
7	☐	1.000						

y = 0.0038 * x + 0.0012
R = 0.9999
DL = 0.1648 ppb
BEC = 0.3172 ppb

Weight: <None>
Min Conc: <None>

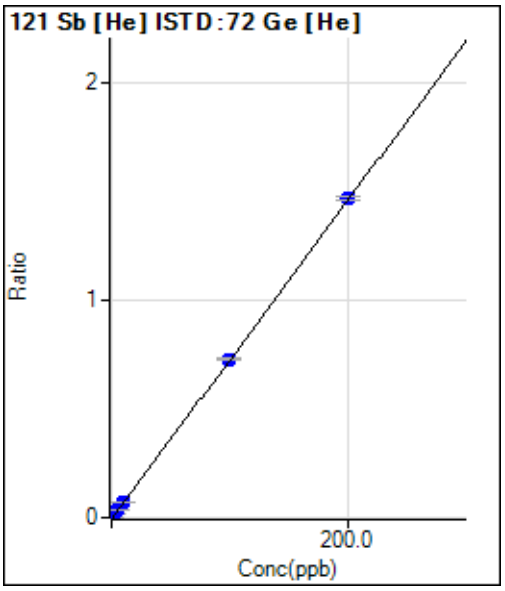


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1003.39	0.0005	P	14.5	
2	☐	2.000	1.891	23643.03	0.0107	P	3.5	-5.5
3	☐	5.000	4.585	56316.94	0.0252	P	0.3	-8.3
4	☐	10.000	9.468	114770.29	0.0517	P	0.8	-5.3
5	☐	100.000	98.013	1182461.91	0.5305	P	0.4	-2.0
6	☐	200.000	201.032	2383498.56	1.0876	P	1.2	0.5
7	☐	1.000						

y = 0.0054 * x + 4.5165E-004
R = 0.9999
DL = 0.03641 ppb
BEC = 0.08352 ppb

Weight: <None>
Min Conc: <None>

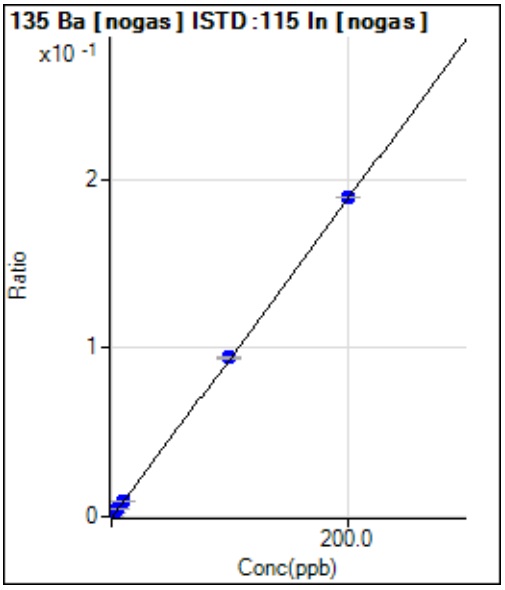
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	463.35	0.0007	P	27.4	
2	☐	2.000	1.925	9413.21	0.0148	P	0.6	-3.8
3	☐	5.000	4.496	21546.37	0.0337	P	0.8	-10.1
4	☐	10.000	9.585	44355.11	0.0709	P	2.7	-4.2
5	☐	100.000	99.357	458594.40	0.7282	P	1.5	-0.6
6	☐	200.000	200.356	918873.58	1.4678	P	0.8	0.2
7	☐	1.000						

y = 0.0073 * x + 7.3241E-004
R = 1.0000
DL = 0.08227 ppb
BEC = 0.1 ppb

Weight: <None>
Min Conc: <None>

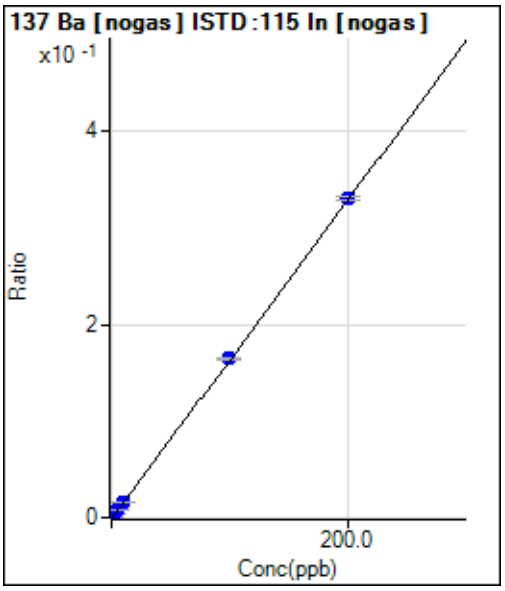


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0001	P	11.2	
2	☐	2.000	1.925	4784.24	0.0019	P	3.8	-3.7
3	☐	5.000	4.626	11221.25	0.0045	P	5.1	-7.5
4	☐	10.000	9.583	22862.00	0.0092	P	1.7	-4.2
5	☐	100.000	99.728	234180.56	0.0945	P	0.8	-0.3
6	☐	200.000	200.167	458059.88	0.1896	P	0.3	0.1
7	☐	1.000						

y = 9.4640E-004 * x + 1.1395E-004
R = 1.0000
DL = 0.04042 ppb
BEC = 0.1204 ppb

Weight: <None>
Min Conc: <None>

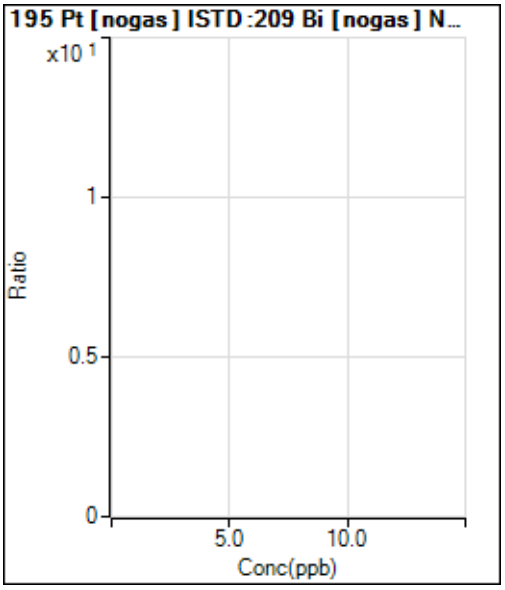
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0002	P	12.5	
2	☐	2.000	2.044	8759.53	0.0035	P	4.4	2.2
3	☐	5.000	4.710	19844.13	0.0079	P	1.4	-5.8
4	☐	10.000	9.558	39695.72	0.0159	P	2.9	-4.4
5	☐	100.000	99.559	407610.66	0.1645	P	1.8	-0.4
6	☐	200.000	200.250	799042.54	0.3306	P	0.9	0.1
7	☐	1.000						

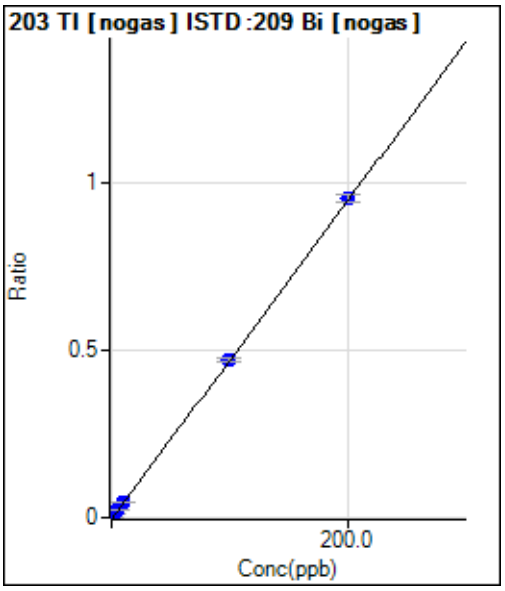
y = 0.0017 * x + 1.7149E-004
R = 1.0000
DL = 0.03906 ppb
BEC = 0.1039 ppb

Weight: <None>
Min Conc: <None>



	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						

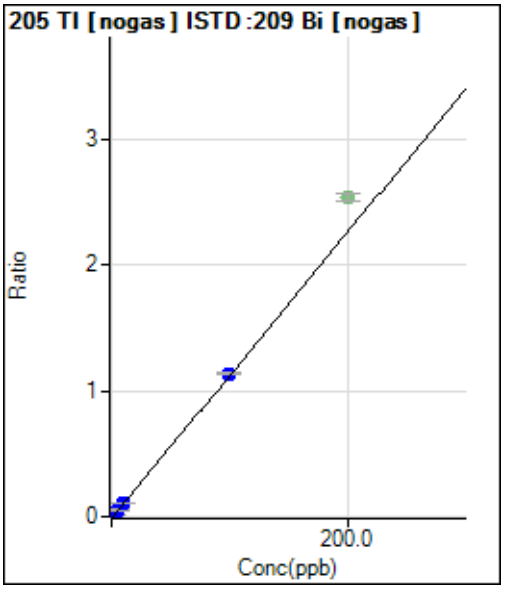
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0000	P	27.4	
2	☐	2.000	1.920	21206.71	0.0092	P	1.2	-4.0
3	☐	5.000	4.591	51035.50	0.0219	P	3.4	-8.2
4	☐	10.000	9.532	106233.69	0.0454	P	1.9	-4.7
5	☐	100.000	98.965	1091693.29	0.4706	P	1.6	-1.0
6	☐	200.000	200.552	2144746.27	0.9537	P	2.5	0.3
7	☐	1.000						

y = 0.0048 * x + 4.0501E-005
R = 1.0000
DL = 0.006994 ppb
BEC = 0.008518 ppb

Weight: <None>
Min Conc: <None>

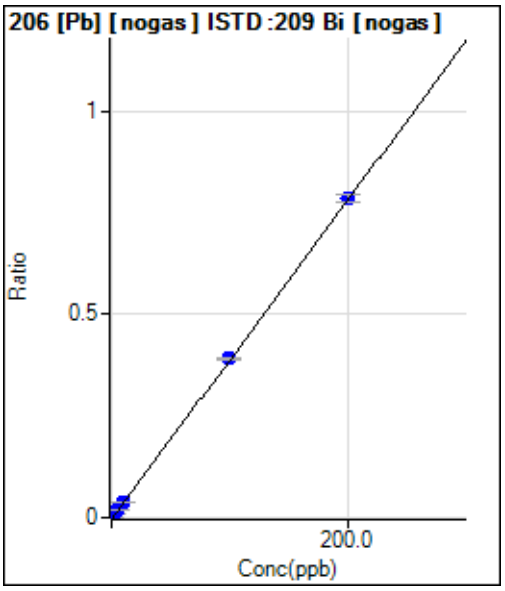


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	163.34	0.0001	P	49.6	
2	☐	2.000	1.926	50881.91	0.0220	P	4.8	-3.7
3	☐	5.000	4.678	124578.33	0.0534	P	3.4	-6.4
4	☐	10.000	9.569	255543.50	0.1091	P	3.2	-4.3
5	☐	100.000	100.061	2645703.71	1.1406	P	2.0	0.1
6	☑	200.000		5719008.87	2.5429	A	2.3	
7	☐	1.000						

y = 0.0114 * x + 7.0500E-005
R = 1.0000
DL = 0.009204 ppb
BEC = 0.006185 ppb

Weight: <None>
Min Conc: <None>

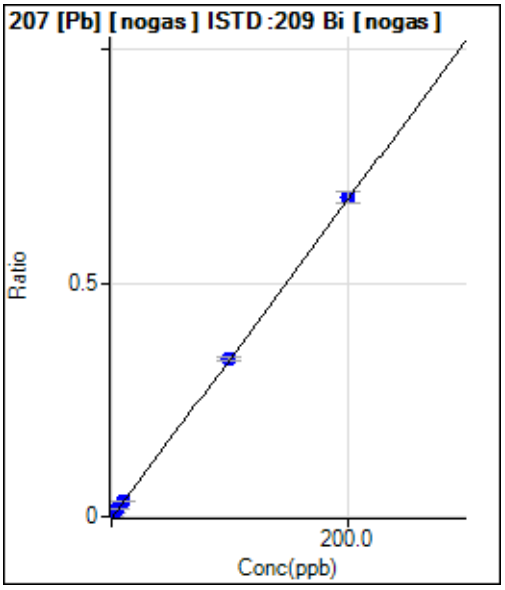
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0001	P	7.9	
2	☐	2.000	1.921	17688.45	0.0076	P	2.6	-3.9
3	☐	5.000	4.740	43670.18	0.0187	P	4.4	-5.2
4	☐	10.000	9.734	89754.29	0.0383	P	1.2	-2.7
5	☐	100.000	99.660	907964.13	0.3914	P	1.5	-0.3
6	☐	200.000	200.191	1768067.68	0.7862	P	2.7	0.1
7	☐	1.000						

y = 0.0039 * x + 1.0545E-004
R = 1.0000
DL = 0.006393 ppb
BEC = 0.02686 ppb

Weight: <None>
Min Conc: <None>

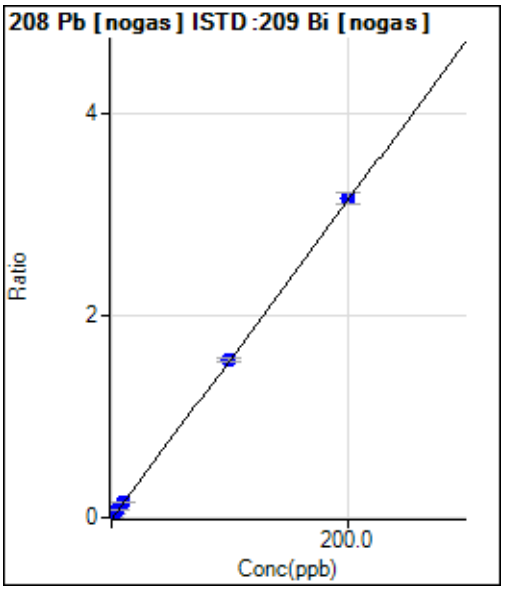


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	5.4	
2	☐	2.000	1.898	15148.60	0.0066	P	6.6	-5.1
3	☐	5.000	4.546	36372.21	0.0156	P	3.7	-9.1
4	☐	10.000	9.496	76041.57	0.0325	P	3.0	-5.0
5	☐	100.000	98.872	782448.01	0.3373	P	1.7	-1.1
6	☐	200.000	200.601	1538915.08	0.6843	P	3.4	0.3
7	☐	1.000						

y = 0.0034 * x + 8.3808E-005
R = 1.0000
DL = 0.003992 ppb
BEC = 0.02457 ppb

Weight: <None>
Min Conc: <None>

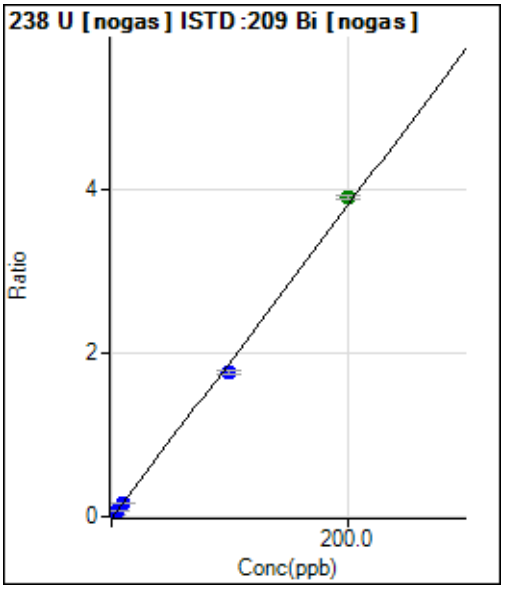
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	873.37	0.0004	P	5.8	
2	☐	2.000	1.915	70780.19	0.0306	P	4.6	-4.2
3	☐	5.000	4.616	170987.85	0.0733	P	3.7	-7.7
4	☐	10.000	9.553	354195.73	0.1513	P	2.3	-4.5
5	☐	100.000	99.132	3632817.52	1.5661	P	1.9	-0.9
6	☐	200.000	200.467	7121595.52	3.1666	P	3.2	0.2
7	☐	1.000						

y = 0.0158 * x + 3.7848E-004
R = 1.0000
DL = 0.004161 ppb
BEC = 0.02396 ppb

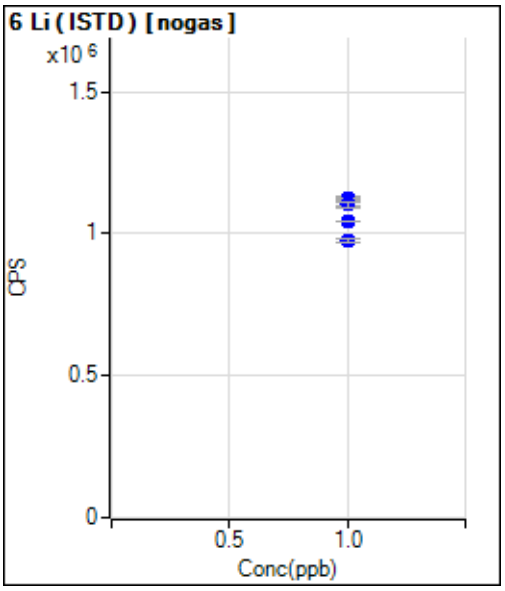
Weight: <None>
Min Conc: <None>



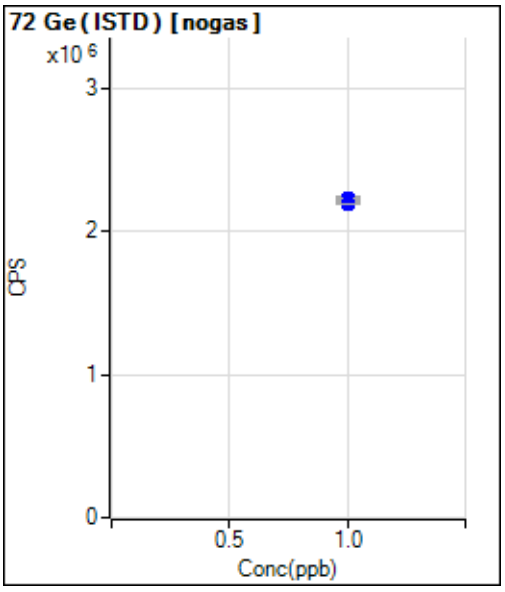
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	363.34	0.0002	P	20.1	
2	☐	2.000	1.743	77262.82	0.0334	P	5.4	-12.9
3	☐	5.000	4.186	186933.62	0.0801	P	2.9	-16.3
4	☐	10.000	8.594	384672.94	0.1643	P	1.4	-14.1
5	☐	100.000	91.817	4067539.52	1.7535	P	2.4	-8.2
6	☐	200.000	204.185	8770936.74	3.8994	A	0.7	2.1
7	☐	1.000						

y = 0.0191 * x + 1.5824E-004
R = 0.9989
DL = 0.005007 ppb
BEC = 0.008286 ppb

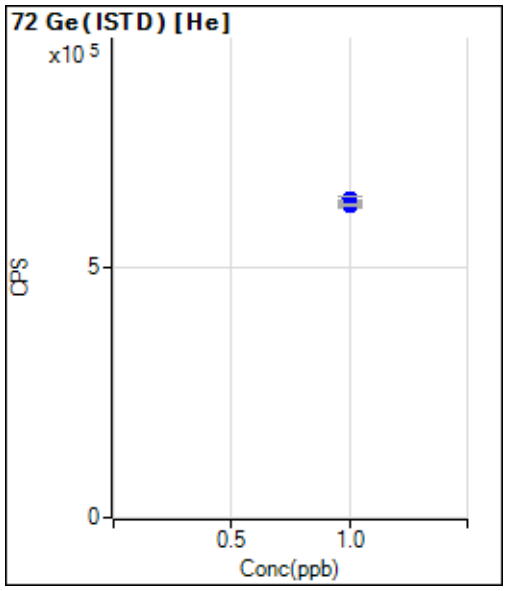
Weight: <None>
Min Conc: <None>



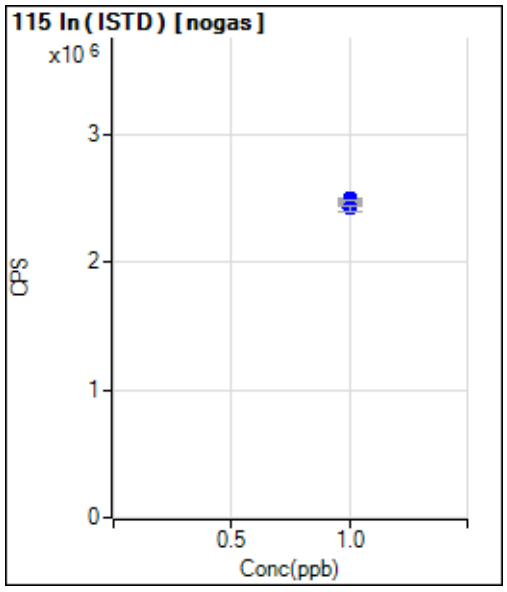
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1125226.07		P	0.8	
2	☐	1.000		1118916.05		P	0.6	
3	☐	1.000		1105343.47		P	0.8	
4	☐	1.000		1104237.37		P	1.8	
5	☐	1.000		1045724.49		P	0.2	
6	☐	1.000		975026.13		P	1.2	
7	☐	1.000						



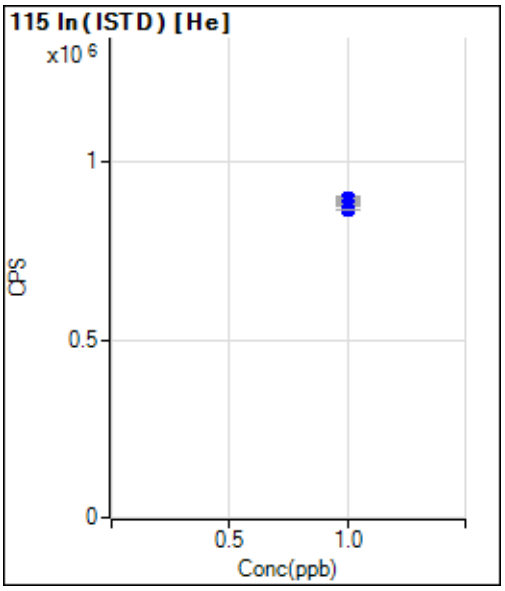
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2222434.71		P	1.2	
2	☐	1.000		2214779.39		P	0.7	
3	☐	1.000		2230836.63		P	1.2	
4	☐	1.000		2221965.18		P	1.4	
5	☐	1.000		2228956.37		P	0.6	
6	☐	1.000		2191471.79		P	0.3	
7	☐	1.000						



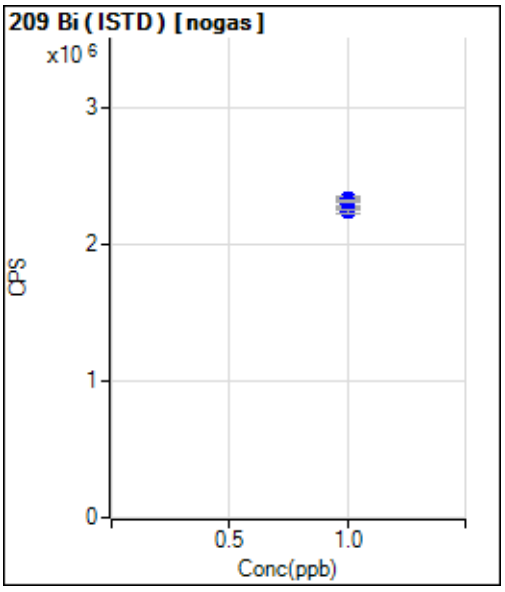
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		633161.91		P	1.0	
2	☐	1.000		634847.59		P	0.2	
3	☐	1.000		640223.40		P	1.4	
4	☐	1.000		625594.42		P	1.2	
5	☐	1.000		629744.72		P	0.3	
6	☐	1.000		626039.09		P	0.2	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2487358.46		P	0.5	
2	☐	1.000		2471900.52		P	1.2	
3	☐	1.000		2497859.23		P	0.5	
4	☐	1.000		2489183.28		P	0.9	
5	☐	1.000		2478221.04		P	0.8	
6	☐	1.000		2416582.25		P	1.4	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		884304.36		P	1.2	
2	☐	1.000		898541.86		P	0.8	
3	☐	1.000		894364.17		P	0.5	
4	☐	1.000		884640.49		P	0.5	
5	☐	1.000		878641.58		P	0.5	
6	☐	1.000		863935.79		P	0.1	
7	☐	1.000						



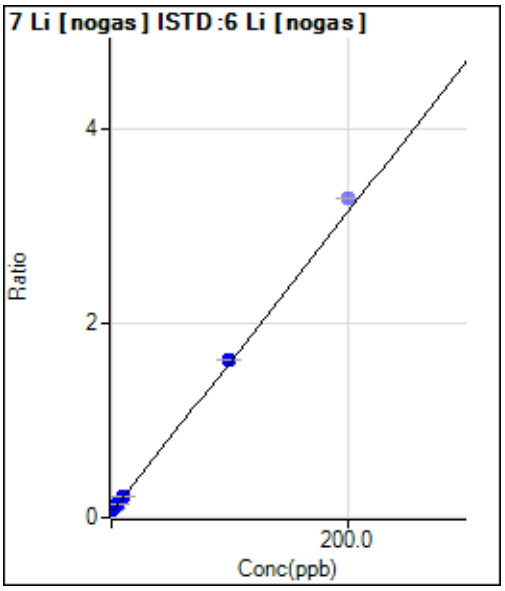
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2305145.54		P	3.0	
2	☐	1.000		2312630.49		P	2.6	
3	☐	1.000		2334614.86		P	2.1	
4	☐	1.000		2342063.82		P	1.4	
5	☐	1.000		2319777.26		P	0.6	
6	☐	1.000		2249351.11		P	1.3	
7	☐	1.000						

Calibration for 112_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070424A.b\
Analysis File: 070424A.batch.bin
DA Date-Time: 7/4/2024 9:09:53 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	105CALB.d	CAL BLK	7/4/2024 1:34:28 PM
2	106CALS.d	2/10/200	7/4/2024 1:36:36 PM
3	107CALS.d	5/25/500	7/4/2024 1:38:42 PM
4	108CALS.d	10/50/1000	7/4/2024 1:40:49 PM
5	109CALS.d	100/500/10K	7/4/2024 1:42:56 PM
6	110CALS.d	200/1000/20K	7/4/2024 1:45:01 PM
7			

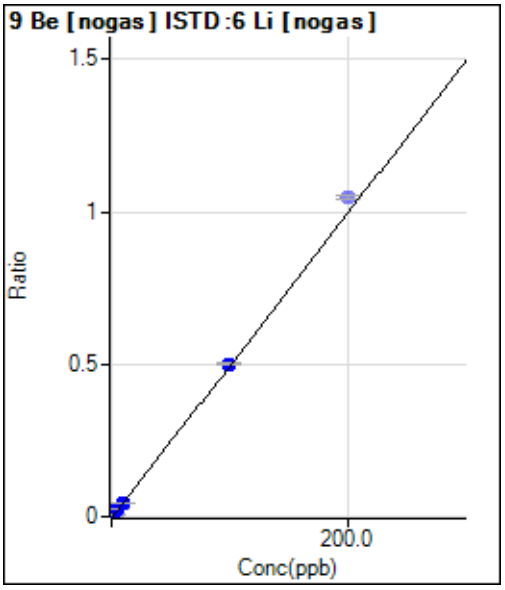
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	97483.65	0.0712	P	1.1	
2	☐	2.000	1.867	135882.28	0.1000	P	0.7	-6.6
3	☐	5.000	4.606	191377.04	0.1422	P	1.0	-7.9
4	☐	10.000	9.386	289781.91	0.2158	P	0.6	-6.1
5	☐	100.000	100.084	2036819.40	1.6134	P	0.2	0.1
6	☑	200.000		3818887.03	3.2807	P	0.3	
7	☐	1.000						

y = 0.0154 * x + 0.0712
R = 1.0000
DL = 0.1514 ppb
BEC = 4.619 ppb

Weight: <None>
Min Conc: <None>

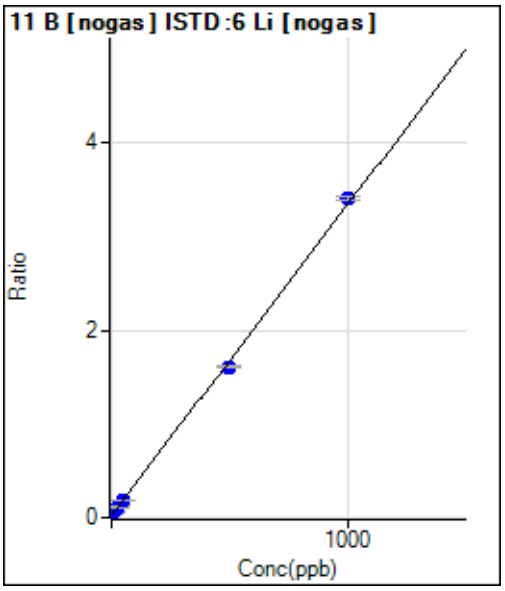


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48.33	0.0000	P	31.6	
2	☐	2.000	1.848	12616.84	0.0093	P	1.9	-7.6
3	☐	5.000	4.475	30199.28	0.0224	P	1.6	-10.5
4	☐	10.000	9.307	62586.75	0.0466	P	0.4	-6.9
5	☐	100.000	100.099	632428.08	0.5010	P	0.5	0.1
6	☑	200.000		1220021.00	1.0481	P	0.8	
7	☐	1.000						

y = 0.0050 * x + 3.5279E-005
R = 1.0000
DL = 0.006681 ppb
BEC = 0.00705 ppb

Weight: <None>
Min Conc: <None>

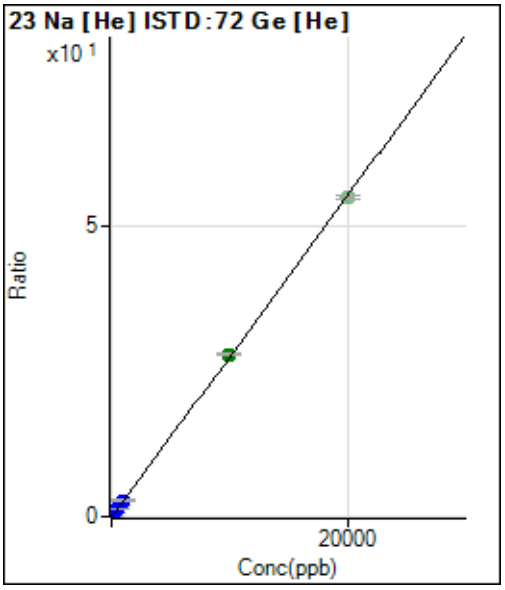
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	58365.83	0.0426	P	0.4	
2	☐	10.000	8.658	97004.83	0.0714	P	0.6	-13.4
3	☐	25.000	21.065	151523.51	0.1125	P	0.9	-15.7
4	☐	50.000	44.039	253538.51	0.1888	P	0.7	-11.9
5	☐	500.000	471.364	2029285.28	1.6074	P	1.6	-5.7
6	☐	1000.000	1014.728	3970870.88	3.4113	P	1.2	1.5
7	☐	5.000						

y = 0.0033 * x + 0.0426
R = 0.9995
DL = 0.172 ppb
BEC = 12.84 ppb

Weight: <None>
Min Conc: <None>

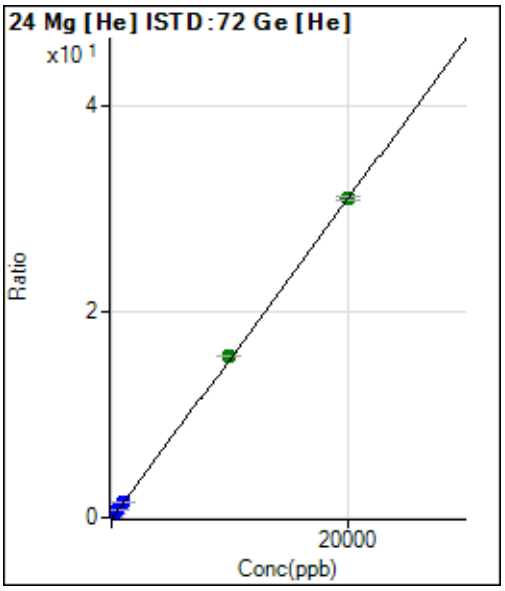


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66546.67	0.1042	P	0.9	
2	☐	200.000	194.054	419109.14	0.6419	P	0.4	-3.0
3	☐	500.000	474.805	924727.05	1.4198	P	0.8	-5.0
4	☐	1000.000	975.056	1802470.70	2.8060	P	1.1	-2.5
5	☐	10000.00	10003.87	17831388.07	27.8239	A	1.0	0.0
6	☑	20000.00		34445403.65	54.9064	A	0.6	
7	☐	100.000						

y = 0.0028 * x + 0.1042
R = 1.0000
DL = 0.9817 ppb
BEC = 37.6 ppb

Weight: <None>
Min Conc: <None>

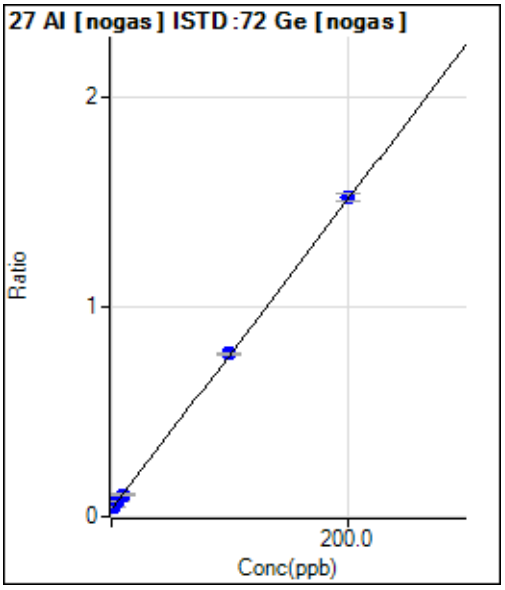
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1816.82	0.0028	P	5.1	
2	☐	200.000	197.077	202180.67	0.3097	P	1.9	-1.5
3	☐	500.000	472.763	481216.33	0.7389	P	1.8	-5.4
4	☐	1000.000	979.513	981400.51	1.5278	P	1.4	-2.0
5	☐	10000.00	10122.64	10100786.51	15.7622	A	0.4	1.2
6	☐	20000.00	19940.41	19477114.29	31.0469	A	0.7	-0.3
7	☐	100.000						

y = 0.0016 * x + 0.0028
R = 1.0000
DL = 0.28 ppb
BEC = 1.828 ppb

Weight: <None>
Min Conc: <None>

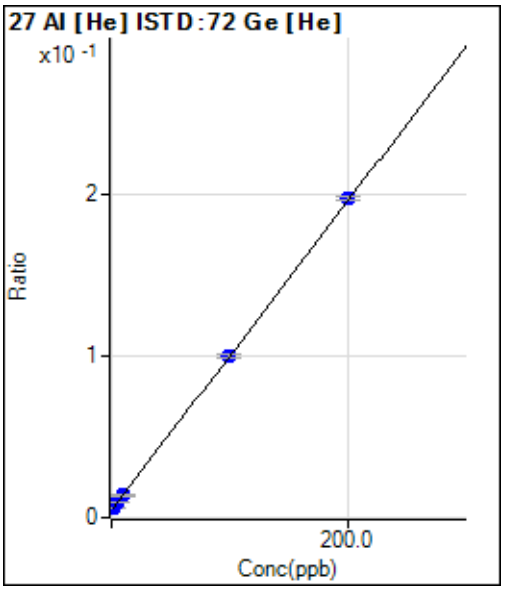


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	99389.58	0.0425	P	0.2	
2	☐	2.000	0.677	110431.41	0.0475	P	1.9	-66.2
3	☐	5.000	4.379	172767.82	0.0748	P	0.2	-12.4
4	☐	10.000	8.510	243272.32	0.1054	P	1.0	-14.9
5	☐	100.000	99.266	1799858.62	0.7757	P	0.6	-0.7
6	☐	200.000	200.470	3419934.32	1.5232	P	2.2	0.2
7	☐	1.000						

y = 0.0074 * x + 0.0425
R = 1.0000
DL = 0.02823 ppb
BEC = 5.753 ppb

Weight: <None>
Min Conc: <None>

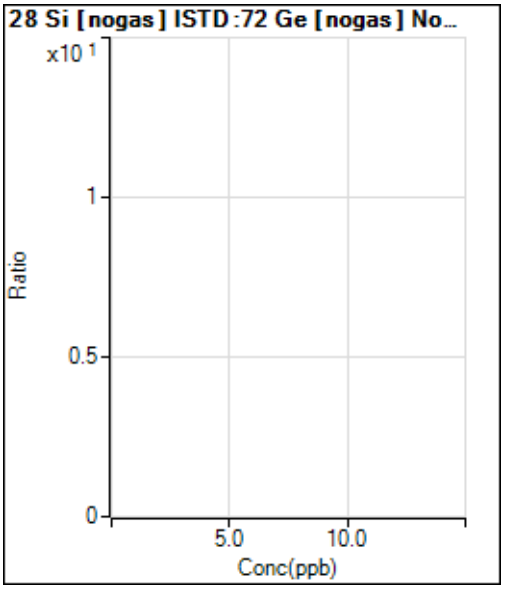
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3630.49	0.0057	P	9.1	
2	☐	2.000	0.546	4050.63	0.0062	P	0.5	-72.7
3	☐	5.000	4.337	6398.11	0.0098	P	1.1	-13.3
4	☐	10.000	8.559	8899.43	0.0139	P	4.6	-14.4
5	☐	100.000	98.686	64019.69	0.0999	P	2.0	-1.3
6	☐	200.000	200.760	123818.63	0.1974	P	1.7	0.4
7	☐	1.000						

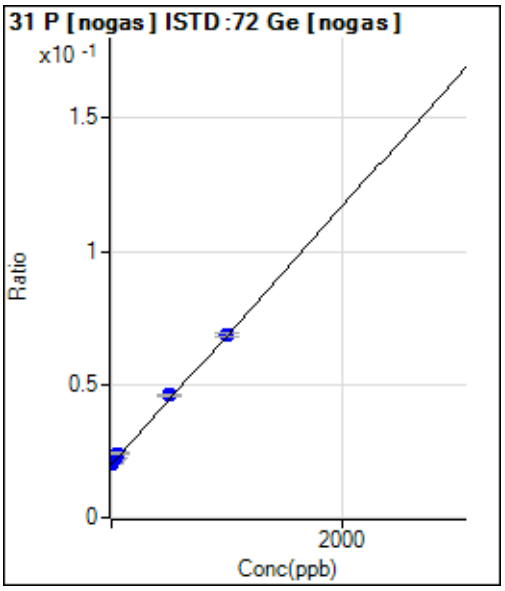
y = 9.5485E-004 * x + 0.0057
R = 1.0000
DL = 1.625 ppb
BEC = 5.951 ppb

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						

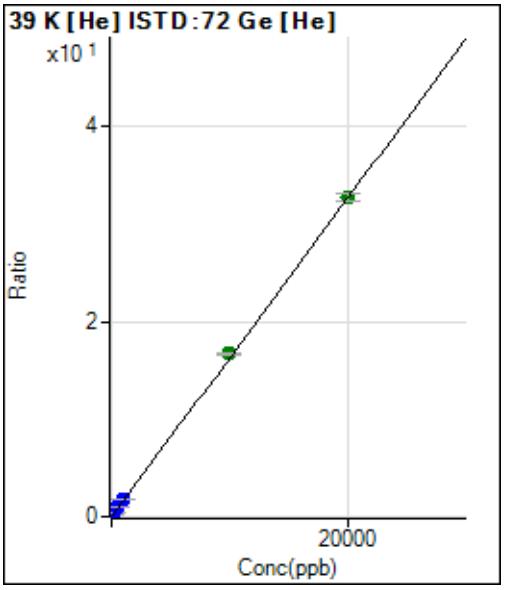
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48092.50	0.0206	P	1.3	
2	☐	10.000	23.567	50487.90	0.0217	P	2.6	135.7
3	☐	25.000	40.230	51998.23	0.0225	P	1.3	60.9
4	☐	50.000	73.295	55734.50	0.0241	P	1.1	46.6
5	☐	500.000	523.343	106937.60	0.0461	P	1.7	4.7
6	☐	1000.000	986.647	154228.91	0.0687	P	1.8	-1.3
7	☐	5.000						

y = 4.8781E-005 * x + 0.0206
R = 0.9996
DL = 15.81 ppb
BEC = 421.5 ppb

Weight: <None>
Min Conc: <None>

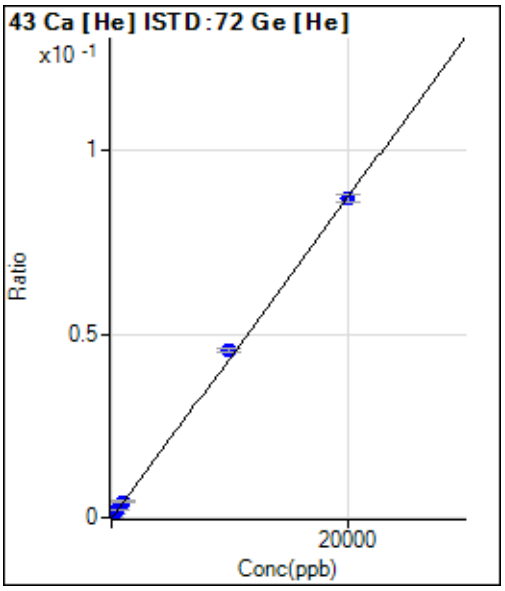


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	94313.24	0.1477	P	0.6	
2	☐	200.000	190.174	299340.94	0.4585	P	1.0	-4.9
3	☐	500.000	461.107	586971.53	0.9012	P	0.6	-7.8
4	☐	1000.000	943.226	1085073.66	1.6891	P	0.4	-5.7
5	☐	10000.00	10118.51	10690889.42	16.6840	A	1.2	1.2
6	☐	20000.00	19944.65	20539381.78	32.7425	A	2.7	-0.3
7	☐	100.000						

y = 0.0016 * x + 0.1477
R = 1.0000
DL = 1.568 ppb
BEC = 90.36 ppb

Weight: <None>
Min Conc: <None>

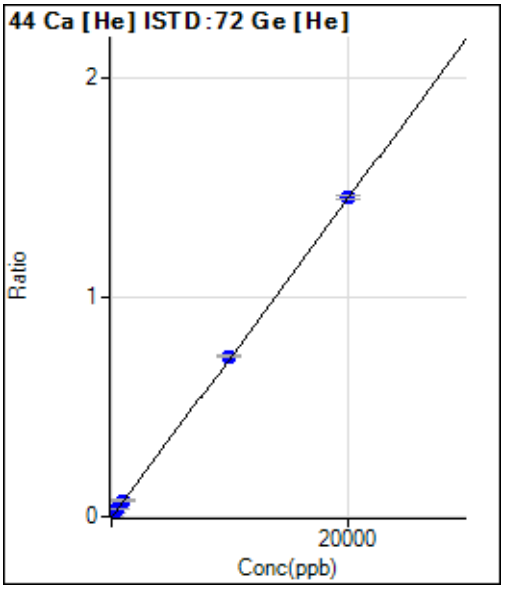
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.34	0.0002	P	65.4	
2	☐	200.000	208.798	703.36	0.0011	P	12.0	4.4
3	☐	500.000	447.446	1383.42	0.0021	P	21.8	-10.5
4	☐	1000.000	958.687	2803.66	0.0044	P	6.1	-4.1
5	☐	10000.00	10331.19	29128.31	0.0454	P	2.1	3.3
6	☐	20000.00	19837.69	54651.57	0.0871	P	2.2	-0.8
7	☐	100.000						

y = 4.3835E-006 * x + 1.6252E-004
R = 0.9998
DL = 72.79 ppb
BEC = 37.08 ppb

Weight: <None>
Min Conc: <None>

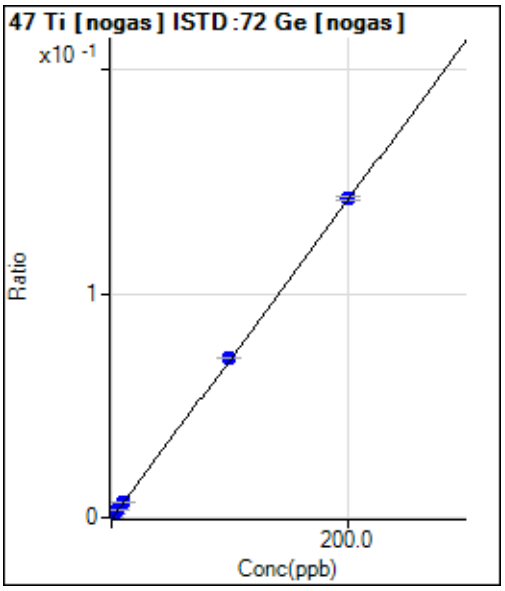


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1943.50	0.0030	P	6.9	
2	☐	200.000	201.031	11544.58	0.0177	P	4.3	0.5
3	☐	500.000	490.098	25224.58	0.0387	P	0.5	-2.0
4	☐	1000.000	982.751	47922.49	0.0746	P	0.7	-1.7
5	☐	10000.00	10013.79	469187.92	0.7322	P	1.4	0.1
6	☐	20000.00	19994.20	915174.31	1.4589	P	1.6	0.0
7	☐	100.000						

y = 7.2812E-005 * x + 0.0030
R = 1.0000
DL = 8.651 ppb
BEC = 41.82 ppb

Weight: <None>
Min Conc: <None>

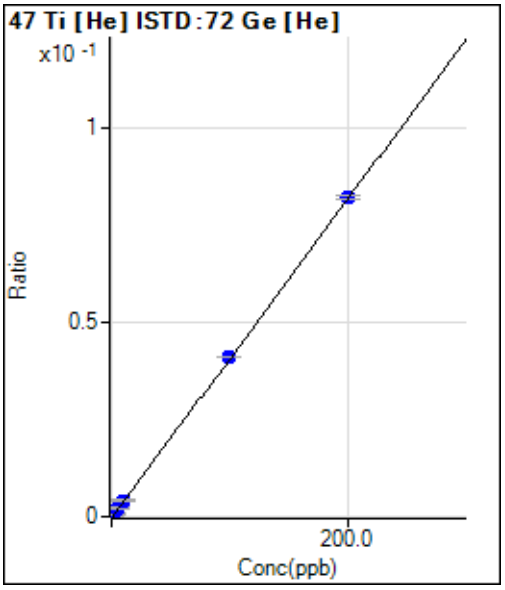
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	196.67	0.0001	P	30.1	
2	☐	2.000	1.901	3343.76	0.0014	P	6.2	-5.0
3	☐	5.000	4.695	7912.21	0.0034	P	7.8	-6.1
4	☐	10.000	9.705	16162.22	0.0070	P	4.0	-2.9
5	☐	100.000	99.679	164951.77	0.0711	P	0.2	-0.3
6	☐	200.000	200.184	320357.84	0.1427	P	1.4	0.1
7	☐	1.000						

y = 7.1234E-004 * x + 8.4155E-005
R = 1.0000
DL = 0.1067 ppb
BEC = 0.1181 ppb

Weight: <None>
Min Conc: <None>

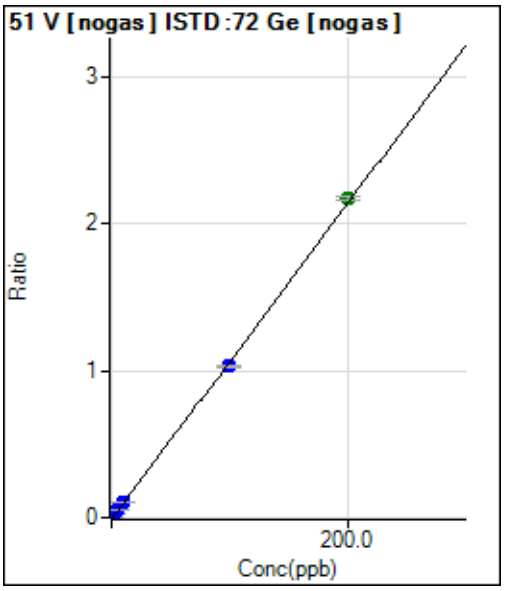


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	49.0	
2	☐	2.000	1.804	506.68	0.0008	P	24.1	-9.8
3	☐	5.000	4.925	1340.09	0.0021	P	19.5	-1.5
4	☐	10.000	9.724	2586.94	0.0040	P	9.8	-2.8
5	☐	100.000	99.802	26269.81	0.0410	P	0.5	-0.2
6	☐	200.000	200.117	51541.09	0.0822	P	1.8	0.1
7	☐	1.000						

y = 4.1037E-004 * x + 3.6428E-005
R = 1.0000
DL = 0.1305 ppb
BEC = 0.08877 ppb

Weight: <None>
Min Conc: <None>

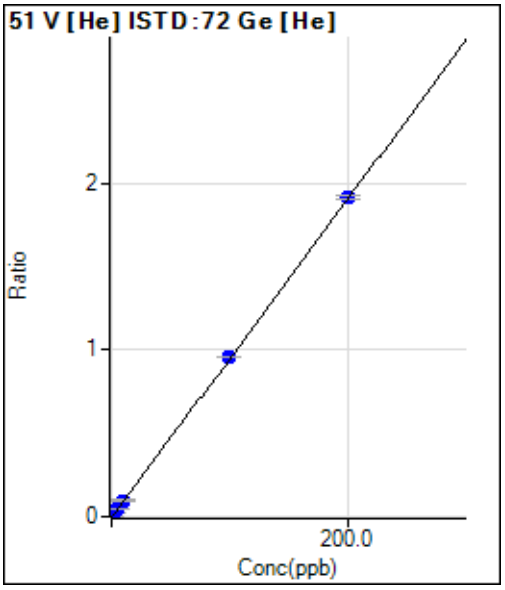
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-262.72	-0.0001	P	-1838.	
2	☐	2.000	1.902	47343.45	0.0204	P	3.8	-4.9
3	☐	5.000	4.690	116332.06	0.0504	P	3.0	-6.2
4	☐	10.000	9.461	235018.45	0.1018	P	1.6	-5.4
5	☐	100.000	95.729	2391572.87	1.0307	P	0.3	-4.3
6	☐	200.000	202.171	4887771.28	2.1769	A	1.0	1.1
7	☐	1.000						

y = 0.0108 * x - 1.1627E-004
R = 0.9997
DL = 0.5954 ppb
BEC = -0.0108 ppb

Weight: <None>
Min Conc: <None>

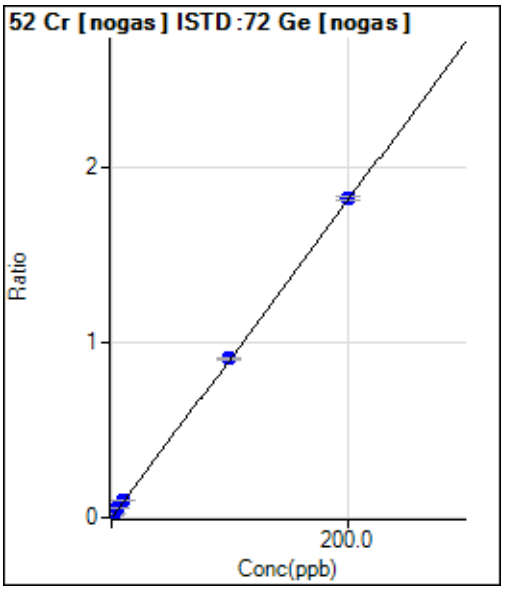


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2707.06	0.0042	P	18.1	
2	☐	2.000	1.894	14570.39	0.0223	P	3.1	-5.3
3	☐	5.000	4.526	30895.81	0.0474	P	4.7	-9.5
4	☐	10.000	9.677	62058.25	0.0966	P	4.2	-3.2
5	☐	100.000	99.827	613389.36	0.9572	P	0.4	-0.2
6	☐	200.000	200.116	1201088.46	1.9145	P	0.7	0.1
7	☐	1.000						

y = 0.0095 * x + 0.0042
R = 1.0000
DL = 0.2411 ppb
BEC = 0.4437 ppb

Weight: <None>
Min Conc: <None>

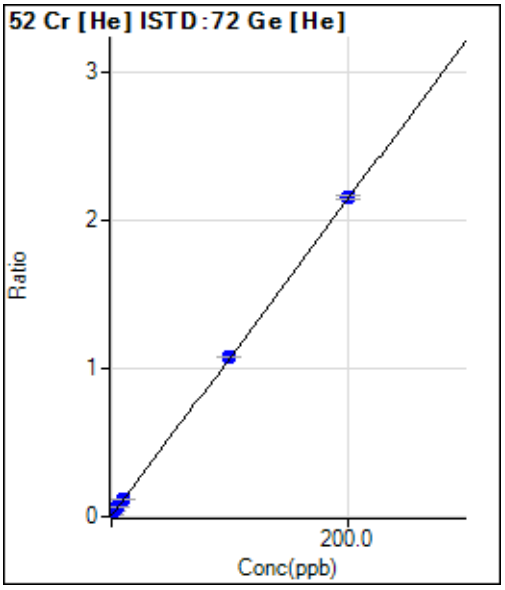
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15655.08	0.0067	P	0.6	
2	☐	2.000	1.892	55461.93	0.0239	P	1.4	-5.4
3	☐	5.000	4.787	115666.46	0.0501	P	1.3	-4.3
4	☐	10.000	9.775	220140.75	0.0953	P	0.1	-2.3
5	☐	100.000	99.356	2106071.53	0.9077	P	0.5	-0.6
6	☐	200.000	200.340	4094238.17	1.8234	P	1.3	0.2
7	☐	1.000						

y = 0.0091 * x + 0.0067
R = 1.0000
DL = 0.01251 ppb
BEC = 0.7381 ppb

Weight: <None>
Min Conc: <None>

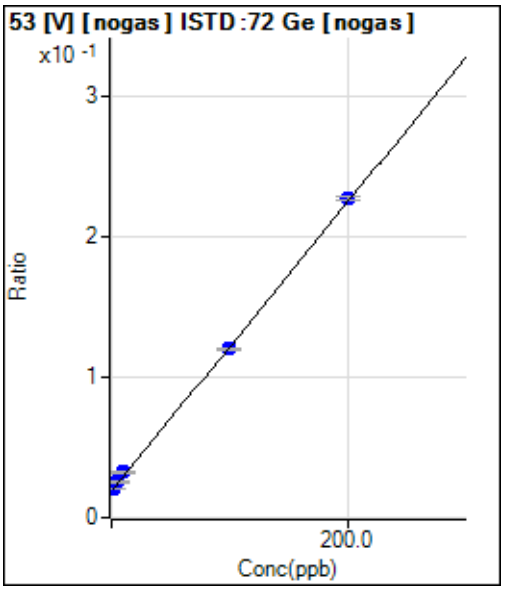


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10073.56	0.0158	P	3.5	
2	☐	2.000	1.747	22503.68	0.0345	P	2.4	-12.6
3	☐	5.000	4.717	43135.28	0.0662	P	1.6	-5.7
4	☐	10.000	9.873	77974.15	0.1214	P	1.3	-1.3
5	☐	100.000	99.718	693663.76	1.0824	P	0.4	-0.3
6	☐	200.000	200.157	1353114.56	2.1568	P	0.7	0.1
7	☐	1.000						

y = 0.0107 * x + 0.0158
R = 1.0000
DL = 0.1548 ppb
BEC = 1.475 ppb

Weight: <None>
Min Conc: <None>

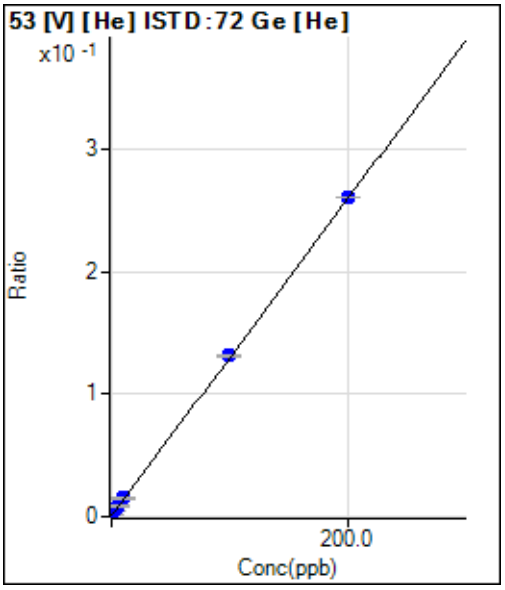
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	47140.51	0.0202	P	2.2	
2	☐	2.000	0.750	48668.74	0.0209	P	1.1	-62.5
3	☐	5.000	5.128	58714.00	0.0254	P	2.1	2.6
4	☐	10.000	12.013	75093.09	0.0325	P	3.7	20.1
5	☐	100.000	97.032	278562.49	0.1201	P	0.7	-3.0
6	☐	200.000	201.393	510852.83	0.2275	P	1.6	0.7
7	☐	1.000						

y = 0.0010 * x + 0.0202
R = 0.9998
DL = 1.308 ppb
BEC = 19.58 ppb

Weight: <None>
Min Conc: <None>

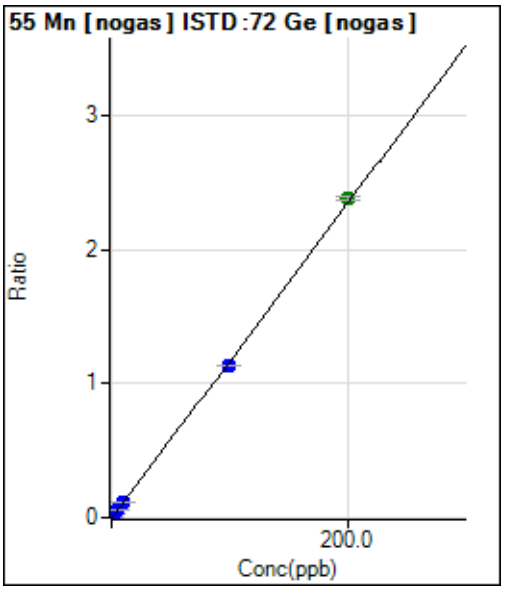


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1253.42	0.0020	P	12.2	
2	☐	2.000	1.723	2740.31	0.0042	P	4.3	-13.8
3	☐	5.000	5.143	5617.83	0.0086	P	5.7	2.9
4	☐	10.000	10.202	9749.98	0.0152	P	6.9	2.0
5	☐	100.000	100.170	84398.48	0.1317	P	0.8	0.2
6	☐	200.000	199.904	163669.30	0.2609	P	0.6	0.0
7	☐	1.000						

y = 0.0013 * x + 0.0020
R = 1.0000
DL = 0.5564 ppb
BEC = 1.516 ppb

Weight: <None>
Min Conc: <None>

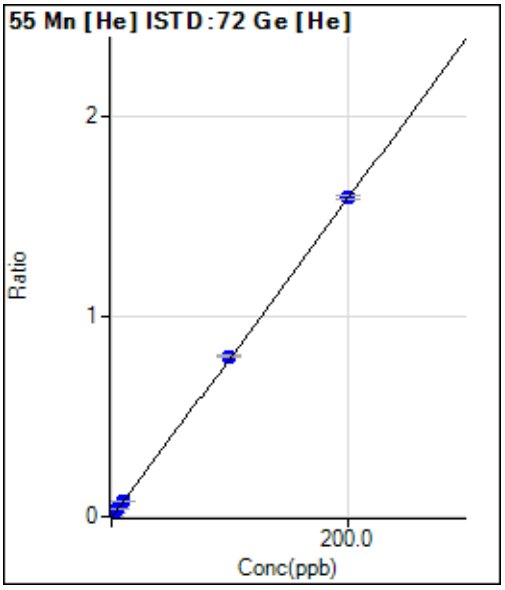
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11671.36	0.0050	P	3.7	
2	☐	2.000	1.884	63165.75	0.0272	P	3.6	-5.8
3	☐	5.000	4.753	140640.94	0.0609	P	0.7	-4.9
4	☐	10.000	9.529	270450.46	0.1171	P	0.7	-4.7
5	☐	100.000	95.954	2631538.61	1.1341	P	0.1	-4.0
6	☐	200.000	202.054	5350073.46	2.3827	A	0.7	1.0
7	☐	1.000						

y = 0.0118 * x + 0.0050
R = 0.9997
DL = 0.04653 ppb
BEC = 0.4241 ppb

Weight: <None>
Min Conc: <None>

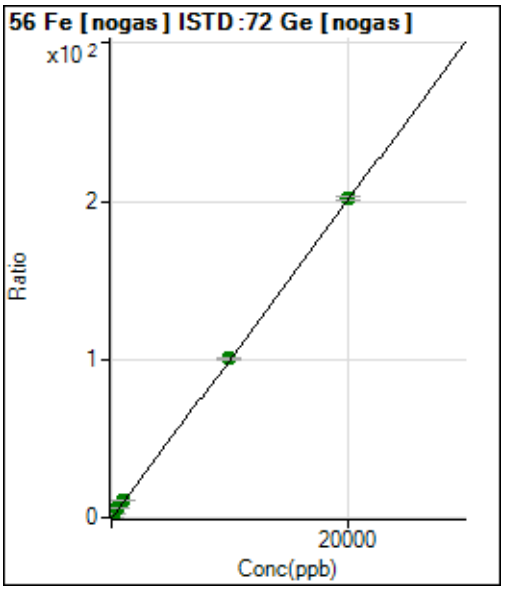


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1150.07	0.0018	P	8.7	
2	☐	2.000	1.813	10640.59	0.0163	P	3.5	-9.4
3	☐	5.000	4.727	25788.99	0.0396	P	1.9	-5.5
4	☐	10.000	9.921	52113.44	0.0811	P	1.5	-0.8
5	☐	100.000	100.307	515159.21	0.8039	P	0.3	0.3
6	☐	200.000	199.859	1003701.78	1.5999	P	1.2	-0.1
7	☐	1.000						

y = 0.0080 * x + 0.0018
R = 1.0000
DL = 0.05888 ppb
BEC = 0.225 ppb

Weight: <None>
Min Conc: <None>

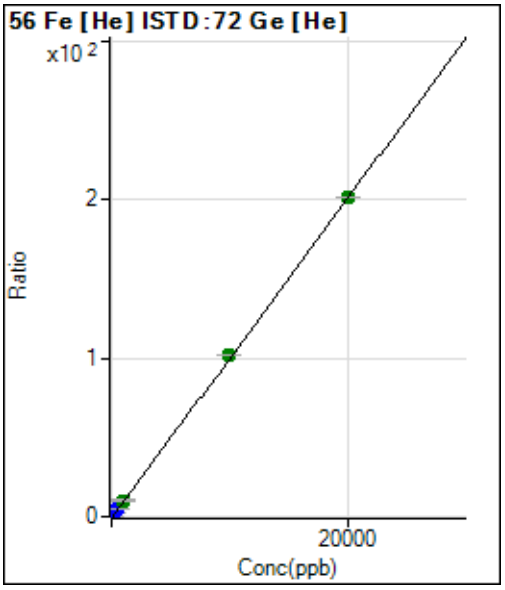
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1136036.49	0.4857	P	1.0	
2	☐	200.000	209.785	6035244.49	2.5953	A	0.4	4.9
3	☐	500.000	507.980	12913988.14	5.5940	A	0.4	1.6
4	☐	1000.000	1013.217	24648868.80	10.6746	A	0.6	1.3
5	☐	10000.00	9941.069	233071916.5	100.452	A	0.7	-0.6
6	☐	20000.00	20028.50	453320513.2	201.891	A	1.0	0.1
7	☐	100.000						

y = 0.0101 * x + 0.4857
R = 1.0000
DL = 1.4 ppb
BEC = 48.3 ppb

Weight: <None>
Min Conc: <None>

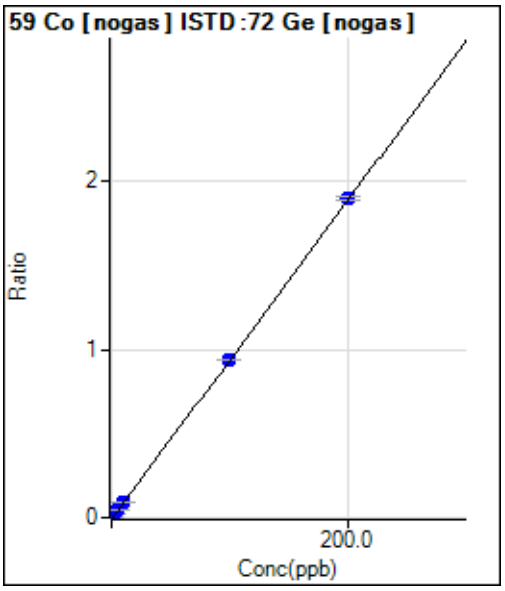


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21745.97	0.0340	P	1.9	
2	☐	200.000	186.503	1251552.04	1.9169	P	1.3	-6.7
3	☐	500.000	452.821	2999582.77	4.6056	P	0.6	-9.4
4	☐	1000.000	1016.570	6614454.07	10.2970	A	0.9	1.7
5	☐	10000.00	10097.21	65348780.69	101.971	A	0.7	1.0
6	☐	20000.00	19951.87	126386998.1	201.460	A	0.3	-0.2
7	☐	100.000						

y = 0.0101 * x + 0.0340
R = 1.0000
DL = 0.1911 ppb
BEC = 3.372 ppb

Weight: <None>
Min Conc: <None>

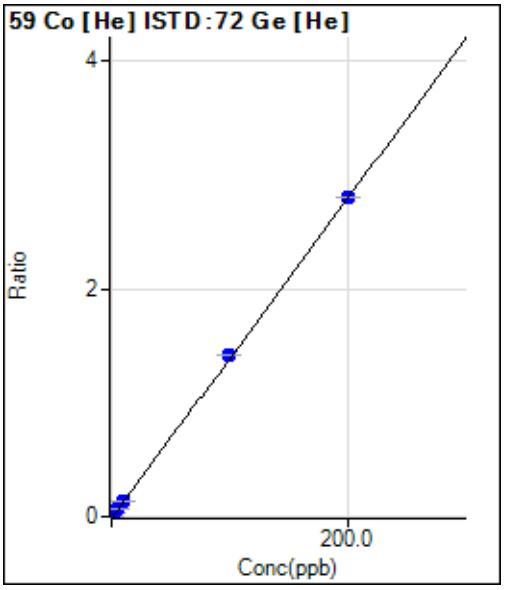
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	53.5	
2	☐	2.000	1.986	44014.80	0.0189	P	0.7	-0.7
3	☐	5.000	4.875	106888.05	0.0463	P	1.0	-2.5
4	☐	10.000	9.931	217545.83	0.0942	P	1.7	-0.7
5	☐	100.000	99.372	2184979.24	0.9417	P	0.2	-0.6
6	☐	200.000	200.321	4261998.58	1.8982	P	1.5	0.2
7	☐	1.000						

y = 0.0095 * x + 1.1272E-004
R = 1.0000
DL = 0.01909 ppb
BEC = 0.0119 ppb

Weight: <None>
Min Conc: <None>

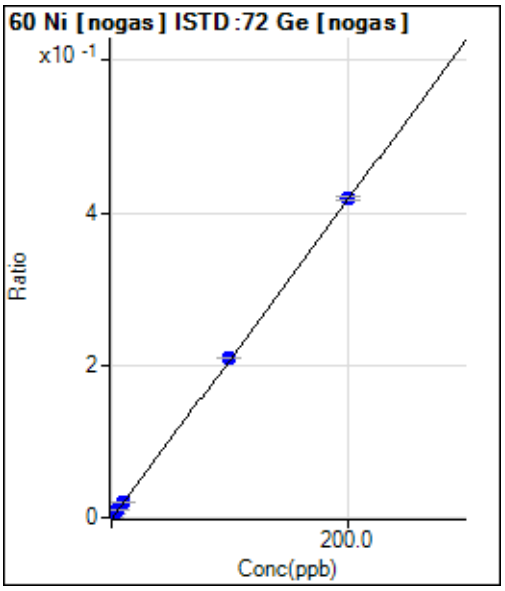


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70.00	0.0001	P	14.2	
2	☐	2.000	2.008	18498.27	0.0283	P	1.3	0.4
3	☐	5.000	4.838	44352.18	0.0681	P	1.1	-3.2
4	☐	10.000	9.822	88727.47	0.1381	P	0.8	-1.8
5	☐	100.000	100.850	908227.51	1.4173	P	0.2	0.9
6	☐	200.000	199.588	1759577.47	2.8048	P	0.3	-0.2
7	☐	1.000						

y = 0.0141 * x + 1.0959E-004
R = 1.0000
DL = 0.003316 ppb
BEC = 0.007799 ppb

Weight: <None>
Min Conc: <None>

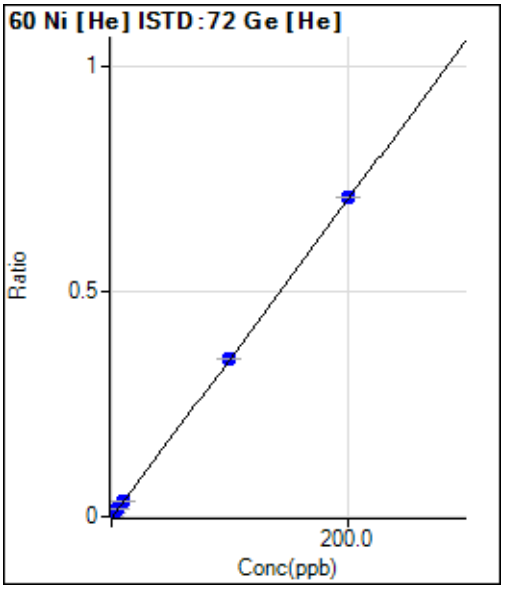
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	566.68	0.0002	P	15.0	
2	☐	2.000	2.048	10540.52	0.0045	P	2.5	2.4
3	☐	5.000	4.946	24483.61	0.0106	P	1.7	-1.1
4	☐	10.000	9.860	48264.16	0.0209	P	2.5	-1.4
5	☐	100.000	99.974	486625.40	0.2097	P	0.6	0.0
6	☐	200.000	200.021	941589.83	0.4193	P	1.7	0.0
7	☐	1.000						

y = 0.0021 * x + 2.4227E-004
R = 1.0000
DL = 0.05194 ppb
BEC = 0.1156 ppb

Weight: <None>
Min Conc: <None>

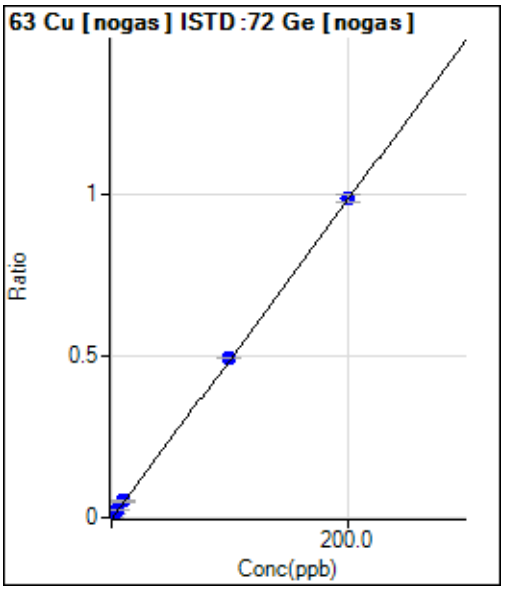


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0004	P	2.9	
2	☐	2.000	2.045	4997.58	0.0077	P	6.9	2.3
3	☐	5.000	4.793	11321.14	0.0174	P	2.0	-4.1
4	☐	10.000	9.918	22824.36	0.0355	P	2.7	-0.8
5	☐	100.000	98.882	224629.84	0.3505	P	0.4	-1.1
6	☐	200.000	200.568	445770.55	0.7106	P	0.6	0.3
7	☐	1.000						

y = 0.0035 * x + 4.1242E-004
R = 1.0000
DL = 0.01023 ppb
BEC = 0.1165 ppb

Weight: <None>
Min Conc: <None>

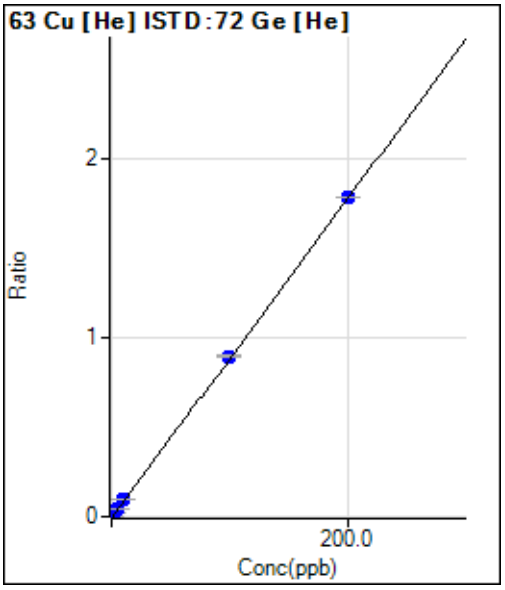
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1193.41	0.0005	P	13.4	
2	☐	2.000	2.037	24567.18	0.0106	P	2.7	1.9
3	☐	5.000	4.976	57861.78	0.0251	P	1.4	-0.5
4	☐	10.000	10.157	116916.18	0.0506	P	2.0	1.6
5	☐	100.000	99.974	1145900.66	0.4939	P	0.1	0.0
6	☐	200.000	200.005	2217216.74	0.9875	P	2.1	0.0
7	☐	1.000						

y = 0.0049 * x + 5.1036E-004
R = 1.0000
DL = 0.04145 ppb
BEC = 0.1034 ppb

Weight: <None>
Min Conc: <None>

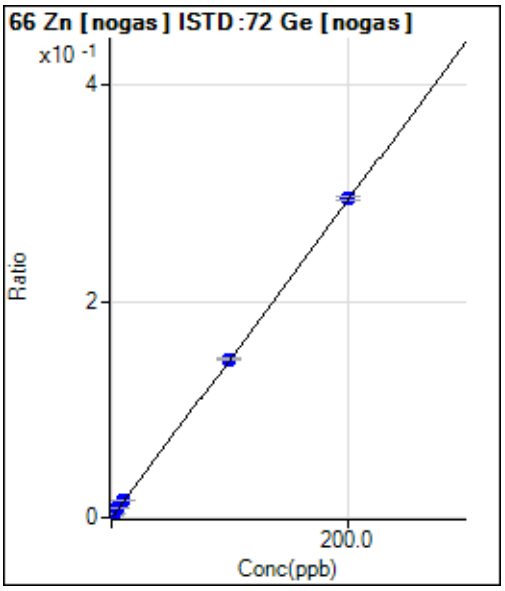


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	596.69	0.0009	P	10.7	
2	☐	2.000	1.991	12225.18	0.0187	P	2.0	-0.5
3	☐	5.000	5.007	29753.16	0.0457	P	0.9	0.1
4	☐	10.000	10.218	59267.36	0.0923	P	0.7	2.2
5	☐	100.000	100.390	575561.71	0.8982	P	0.7	0.4
6	☐	200.000	199.794	1120828.66	1.7866	P	0.4	-0.1
7	☐	1.000						

y = 0.0089 * x + 9.3340E-004
R = 1.0000
DL = 0.03358 ppb
BEC = 0.1044 ppb

Weight: <None>
Min Conc: <None>

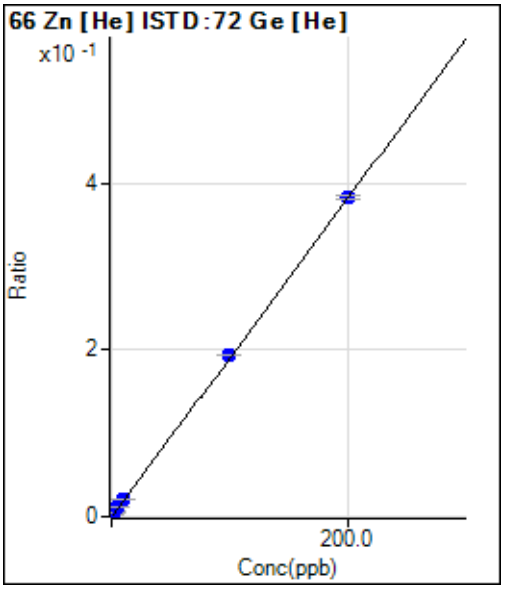
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2653.61	0.0011	P	7.8	
2	☐	2.000	1.900	9122.92	0.0039	P	3.4	-5.0
3	☐	5.000	5.134	20017.00	0.0087	P	4.0	2.7
4	☐	10.000	9.762	35712.97	0.0155	P	3.2	-2.4
5	☐	100.000	99.061	340039.35	0.1465	P	0.8	-0.9
6	☐	200.000	200.479	663312.01	0.2954	P	1.3	0.2
7	☐	1.000						

y = 0.0015 * x + 0.0011
R = 1.0000
DL = 0.1813 ppb
BEC = 0.7728 ppb

Weight: <None>
Min Conc: <None>

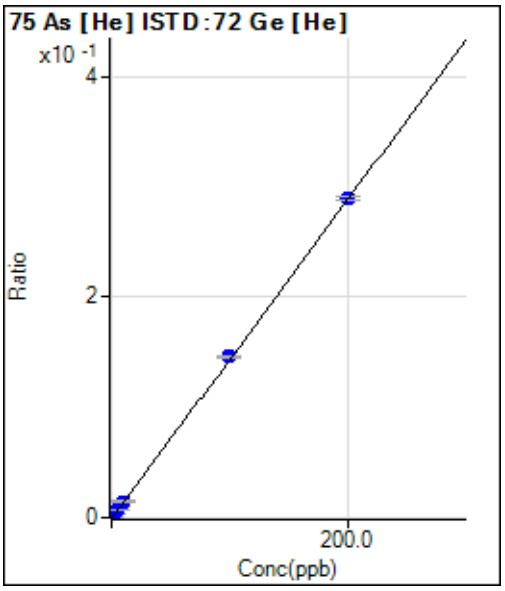


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	830.04	0.0013	P	2.5	
2	☐	2.000	2.297	3720.54	0.0057	P	10.4	14.9
3	☐	5.000	5.348	7512.04	0.0115	P	3.1	7.0
4	☐	10.000	9.958	13075.92	0.0204	P	1.7	-0.4
5	☐	100.000	100.785	124423.61	0.1942	P	0.6	0.8
6	☐	200.000	199.598	240419.42	0.3832	P	0.9	-0.2
7	☐	1.000						

y = 0.0019 * x + 0.0013
R = 1.0000
DL = 0.05152 ppb
BEC = 0.6792 ppb

Weight: <None>
Min Conc: <None>

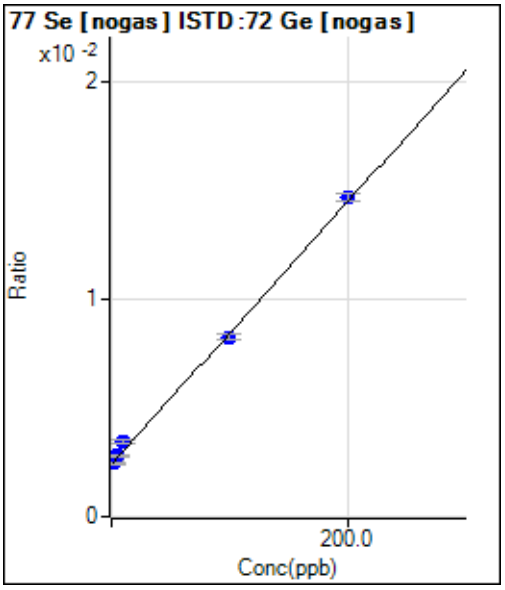
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	197.78	0.0003	P	12.2	
2	☐	2.000	1.997	2090.16	0.0032	P	5.0	-0.2
3	☐	5.000	4.824	4753.00	0.0073	P	2.6	-3.5
4	☐	10.000	9.931	9439.70	0.0147	P	3.7	-0.7
5	☐	100.000	100.510	93501.40	0.1459	P	0.5	0.5
6	☐	200.000	199.753	181729.50	0.2897	P	0.8	-0.1
7	☐	1.000						

y = 0.0014 * x + 3.0936E-004
R = 1.0000
DL = 0.07848 ppb
BEC = 0.2136 ppb

Weight: <None>
Min Conc: <None>

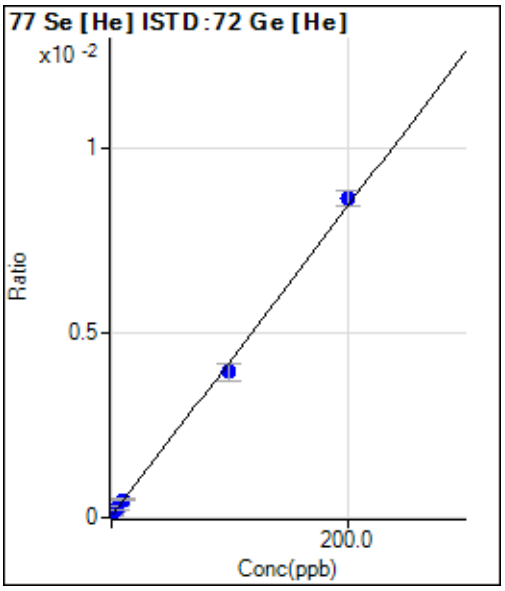


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5841.26	0.0025	P	7.1	
2	☐	2.000	-0.859	5687.85	0.0024	P	2.5	-143.
3	☐	5.000	5.214	6491.52	0.0028	P	2.4	4.3
4	☐	10.000	15.835	7972.28	0.0035	P	4.4	58.3
5	☐	100.000	95.175	19105.87	0.0082	P	3.3	-4.8
6	☐	200.000	202.144	32976.99	0.0147	P	2.7	1.1
7	☐	1.000						

y = 6.0287E-005 * x + 0.0025
R = 0.9990
DL = 8.768 ppb
BEC = 41.43 ppb

Weight: <None>
Min Conc: <None>

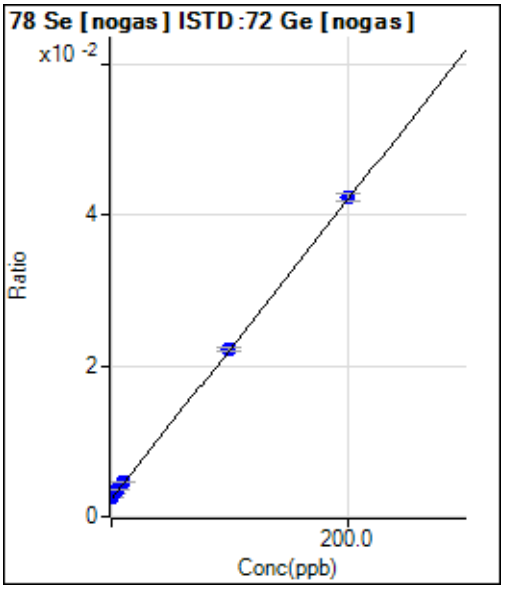
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0001	P	29.4	
2	☐	2.000	1.777	103.33	0.0002	P	24.2	-11.1
3	☐	5.000	4.472	176.67	0.0003	P	40.2	-10.6
4	☐	10.000	9.755	316.68	0.0005	P	20.1	-2.5
5	☐	100.000	91.988	2526.93	0.0039	P	12.0	-8.0
6	☐	200.000	204.033	5421.11	0.0086	P	5.4	2.0
7	☐	1.000						

y = 4.1950E-005 * x + 8.3652E-005
R = 0.9989
DL = 1.756 ppb
BEC = 1.994 ppb

Weight: <None>
Min Conc: <None>

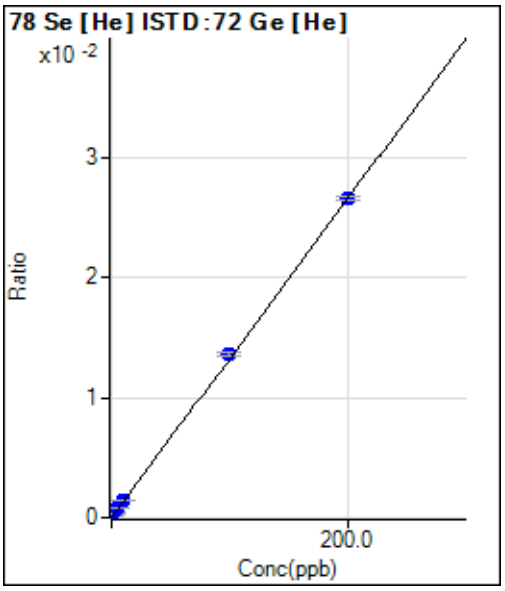


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6027.98	0.0026	P	3.5	
2	☐	2.000	2.036	6931.75	0.0030	P	0.6	1.8
3	☐	5.000	4.587	8049.01	0.0035	P	2.2	-8.3
4	☐	10.000	10.169	10603.97	0.0046	P	0.9	1.7
5	☐	100.000	98.971	51472.87	0.0222	P	2.0	-1.0
6	☐	200.000	200.516	94965.94	0.0423	P	2.3	0.3
7	☐	1.000						

y = 1.9809E-004 * x + 0.0026
R = 1.0000
DL = 1.381 ppb
BEC = 13.01 ppb

Weight: <None>
Min Conc: <None>

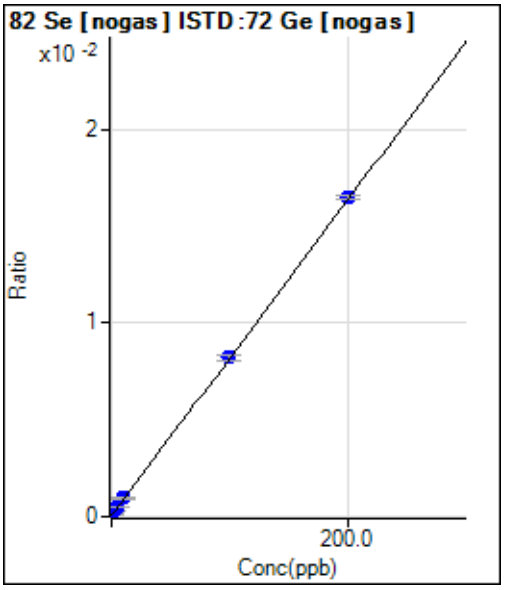
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	78.67	0.0001	P	11.3	
2	☐	2.000	2.102	263.33	0.0004	P	15.5	5.1
3	☐	5.000	4.859	502.01	0.0008	P	3.6	-2.8
4	☐	10.000	9.752	914.03	0.0014	P	2.6	-2.5
5	☐	100.000	101.881	8777.94	0.0137	P	2.5	1.9
6	☐	200.000	199.074	16720.08	0.0267	P	1.3	-0.5
7	☐	1.000						

y = 1.3326E-004 * x + 1.2327E-004
R = 0.9999
DL = 0.3134 ppb
BEC = 0.925 ppb

Weight: <None>
Min Conc: <None>

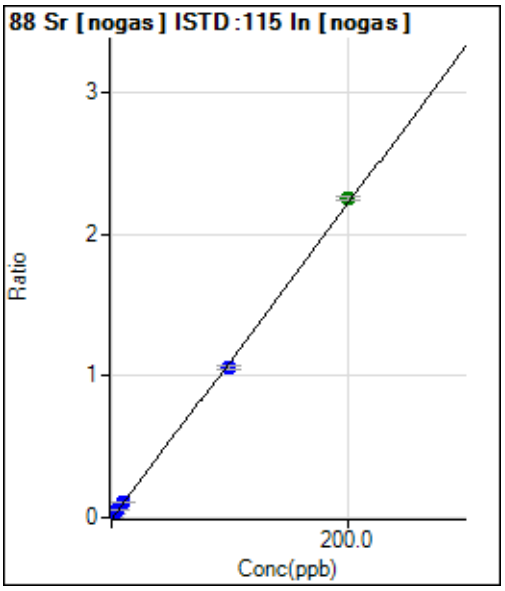


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	320.01	0.0001	P	18.6	
2	☐	2.000	2.139	723.37	0.0003	P	4.0	6.9
3	☐	5.000	4.507	1163.41	0.0005	P	12.4	-9.9
4	☐	10.000	9.985	2196.87	0.0010	P	14.7	-0.1
5	☐	100.000	98.896	19025.81	0.0082	P	2.7	-1.1
6	☐	200.000	200.564	37020.01	0.0165	P	1.4	0.3
7	☐	1.000						

y = 8.1523E-005 * x + 1.3675E-004
R = 1.0000
DL = 0.9349 ppb
BEC = 1.677 ppb

Weight: <None>
Min Conc: <None>

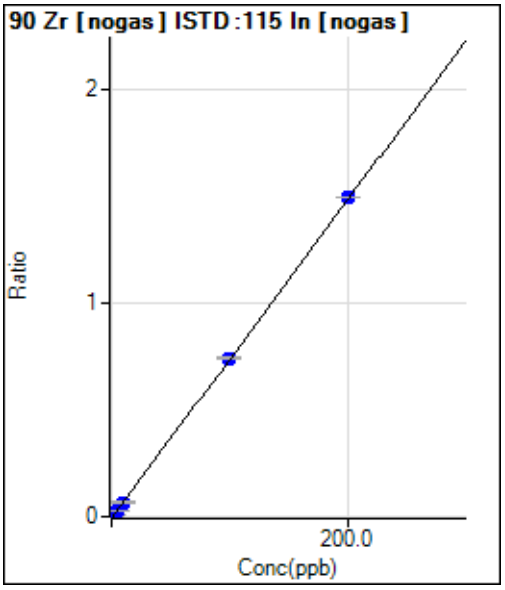
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1553.44	0.0006	P	5.5	
2	☐	2.000	1.851	52925.27	0.0212	P	2.7	-7.4
3	☐	5.000	4.434	124247.13	0.0499	P	0.6	-11.3
4	☐	10.000	9.144	254353.04	0.1023	P	0.9	-8.6
5	☐	100.000	95.120	2602343.81	1.0579	P	1.8	-4.9
6	☐	200.000	202.499	5372346.59	2.2515	A	1.4	1.2
7	☐	1.000						

y = 0.0111 * x + 6.2291E-004
R = 0.9996
DL = 0.009253 ppb
BEC = 0.05604 ppb

Weight: <None>
Min Conc: <None>

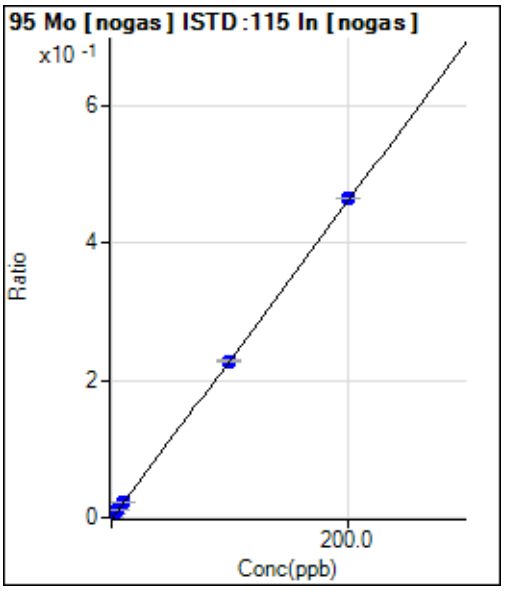


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1246.74	0.0005	P	13.5	
2	☐	2.000	1.418	27646.22	0.0111	P	0.6	-29.1
3	☐	5.000	3.953	74655.41	0.0300	P	0.1	-20.9
4	☐	10.000	8.976	167800.78	0.0675	P	0.9	-10.2
5	☐	100.000	99.111	1819960.23	0.7398	P	1.2	-0.9
6	☐	200.000	200.528	3570335.57	1.4964	P	0.5	0.3
7	☐	1.000						

y = 0.0075 * x + 4.9970E-004
R = 1.0000
DL = 0.02711 ppb
BEC = 0.06699 ppb

Weight: <None>
Min Conc: <None>

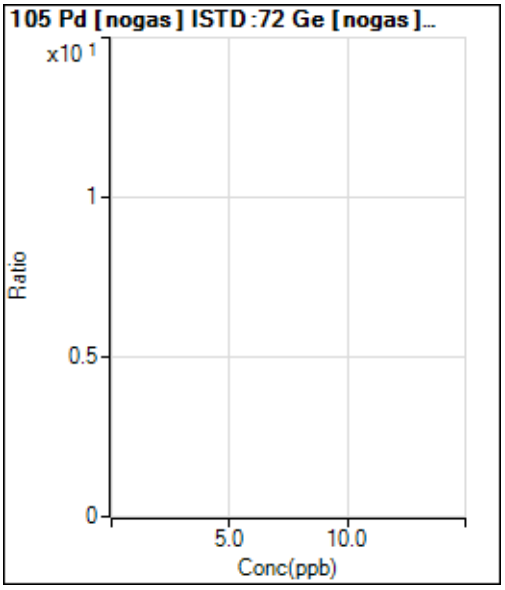
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203.34	0.0001	P	15.3	
2	☐	2.000	1.906	11197.81	0.0045	P	4.8	-4.7
3	☐	5.000	4.548	26360.74	0.0106	P	4.2	-9.0
4	☐	10.000	9.429	54407.93	0.0219	P	4.1	-5.7
5	☐	100.000	98.169	558334.98	0.2270	P	1.2	-1.8
6	☐	200.000	200.956	1108328.21	0.4645	P	0.4	0.5
7	☐	1.000						

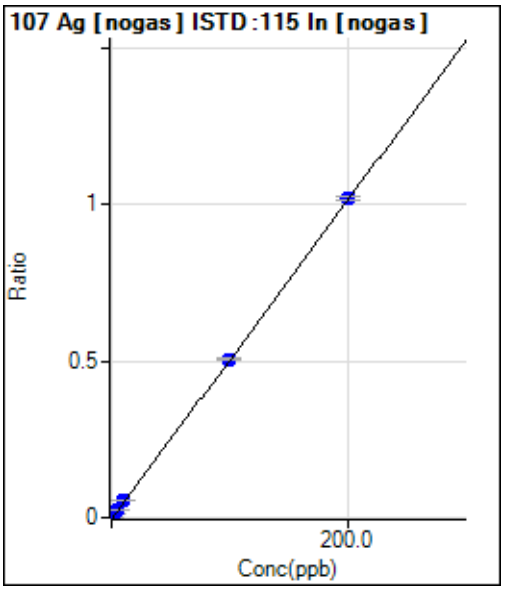
y = 0.0023 * x + 8.1548E-005
R = 0.9999
DL = 0.01618 ppb
BEC = 0.03529 ppb

Weight: <None>
Min Conc: <None>



	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						

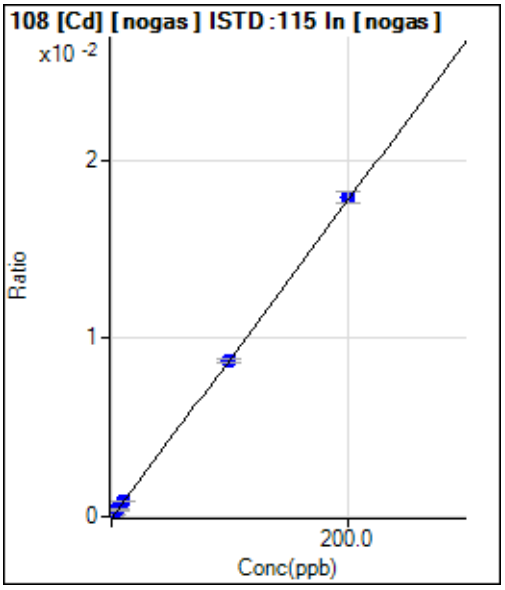
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83.33	0.0000	P	38.5	
2	☐	2.000	2.220	28291.09	0.0113	P	2.8	11.0
3	☐	5.000	5.339	67741.07	0.0272	P	1.4	6.8
4	☐	10.000	11.150	141264.26	0.0568	P	0.7	11.5
5	☐	100.000	99.463	1245529.41	0.5064	P	1.3	-0.5
6	☐	200.000	200.200	2431924.29	1.0192	P	0.8	0.1
7	☐	1.000						

y = 0.0051 * x + 3.3410E-005
R = 1.0000
DL = 0.007582 ppb
BEC = 0.006563 ppb

Weight: <None>
Min Conc: <None>

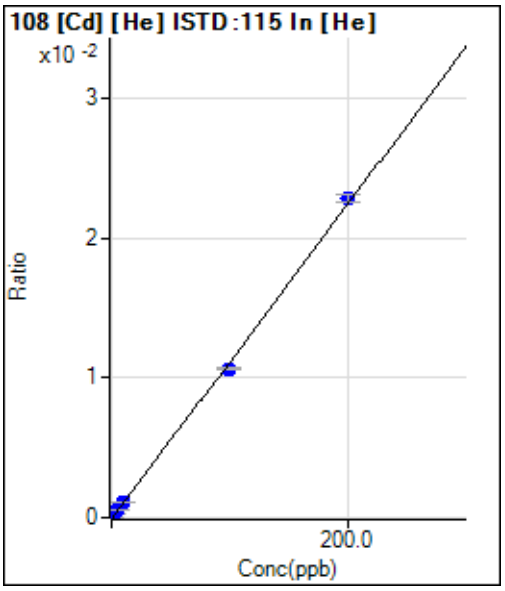


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	1.588	366.68	0.0001	P	10.8	-20.6
3	☐	5.000	4.265	960.05	0.0004	P	14.3	-14.7
4	☐	10.000	9.655	2153.54	0.0009	P	3.0	-3.5
5	☐	100.000	98.185	21539.61	0.0088	P	2.7	-1.8
6	☐	200.000	200.947	42760.10	0.0179	P	3.8	0.5
7	☐	1.000						

y = 8.9136E-005 * x + 5.3287E-006
R = 0.9999
DL = 0.1553 ppb
BEC = 0.05978 ppb

Weight: <None>
Min Conc: <None>

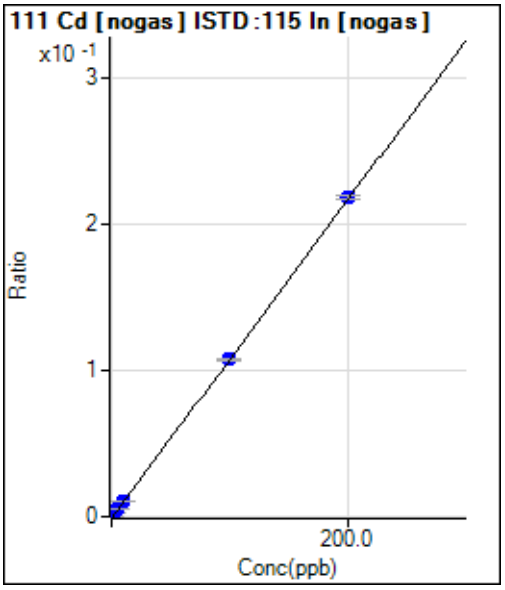
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	42.9	
2	☐	2.000	2.358	260.01	0.0003	P	7.5	17.9
3	☐	5.000	4.901	526.69	0.0006	P	14.8	-2.0
4	☐	10.000	9.891	1043.39	0.0011	P	5.3	-1.1
5	☐	100.000	94.556	9760.11	0.0107	P	2.3	-5.4
6	☐	200.000	202.727	20217.62	0.0229	P	2.5	1.4
7	☐	1.000						

y = 1.1277E-004 * x + 1.4510E-005
R = 0.9995
DL = 0.1657 ppb
BEC = 0.1287 ppb

Weight: <None>
Min Conc: <None>

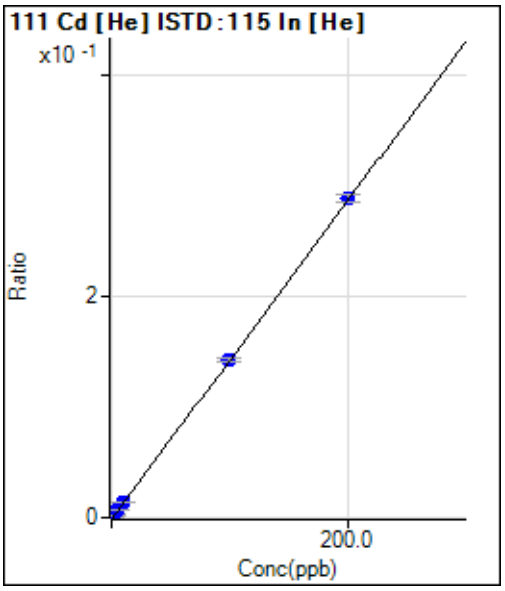


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-4.31	0.0000	P	-291.1	
2	☐	2.000	2.072	5637.92	0.0023	P	7.0	3.6
3	☐	5.000	4.593	12466.43	0.0050	P	1.9	-8.1
4	☐	10.000	9.587	26003.90	0.0105	P	3.2	-4.1
5	☐	100.000	98.957	265466.22	0.1079	P	1.0	-1.0
6	☐	200.000	200.551	521898.70	0.2187	P	1.4	0.3
7	☐	1.000						

y = 0.0011 * x - 1.7085E-006
R = 1.0000
DL = 0.01368 ppb
BEC = -0.001567 ppb

Weight: <None>
Min Conc: <None>

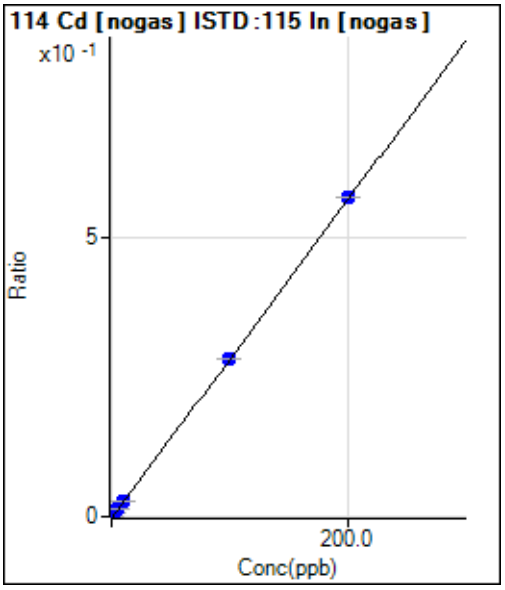
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-14.31	0.0000	P	-42.9	
2	☐	2.000	1.945	2574.67	0.0028	P	14.9	-2.8
3	☐	5.000	4.662	6209.88	0.0067	P	4.4	-6.8
4	☐	10.000	9.609	12737.31	0.0138	P	3.3	-3.9
5	☐	100.000	99.079	130143.27	0.1424	P	2.4	-0.9
6	☐	200.000	200.489	254616.08	0.2881	P	2.3	0.2
7	☐	1.000						

y = 0.0014 * x - 1.5569E-005
R = 1.0000
DL = 0.01395 ppb
BEC = -0.01083 ppb

Weight: <None>
Min Conc: <None>

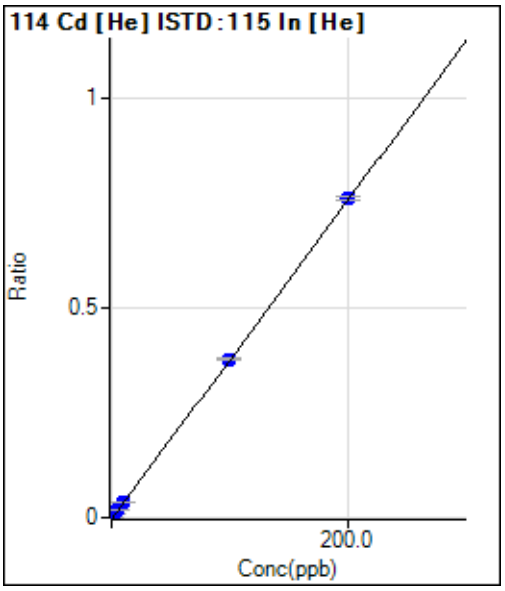


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	43.9	
2	☐	2.000	1.920	13740.08	0.0055	P	6.0	-4.0
3	☐	5.000	4.578	32587.07	0.0131	P	2.0	-8.4
4	☐	10.000	9.489	67423.25	0.0271	P	0.5	-5.1
5	☐	100.000	98.907	694578.11	0.2823	P	0.1	-1.1
6	☐	200.000	200.583	1366204.88	0.5726	P	0.6	0.3
7	☐	1.000						

y = 0.0029 * x + 2.1416E-005
R = 1.0000
DL = 0.009885 ppb
BEC = 0.007503 ppb

Weight: <None>
Min Conc: <None>

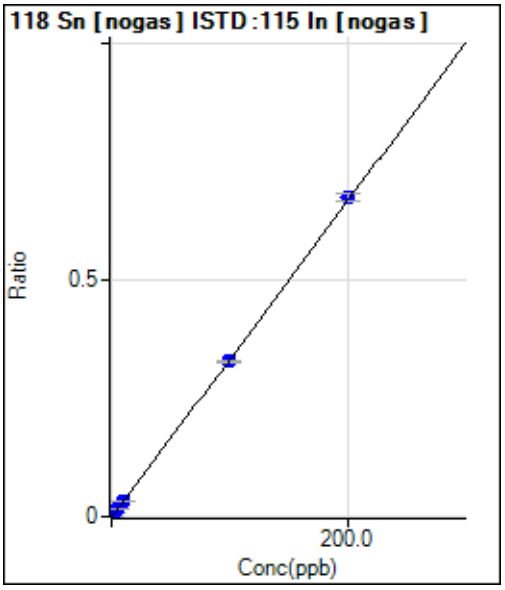
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0001	P	28.4	
2	☐	2.000	1.931	6865.07	0.0074	P	4.3	-3.5
3	☐	5.000	4.685	16626.46	0.0179	P	2.5	-6.3
4	☐	10.000	9.889	34818.96	0.0377	P	1.0	-1.1
5	☐	100.000	99.393	345889.24	0.3784	P	0.5	-0.6
6	☐	200.000	200.318	673957.75	0.7625	P	1.1	0.2
7	☐	1.000						

y = 0.0038 * x + 5.8081E-005
R = 1.0000
DL = 0.01301 ppb
BEC = 0.01526 ppb

Weight: <None>
Min Conc: <None>

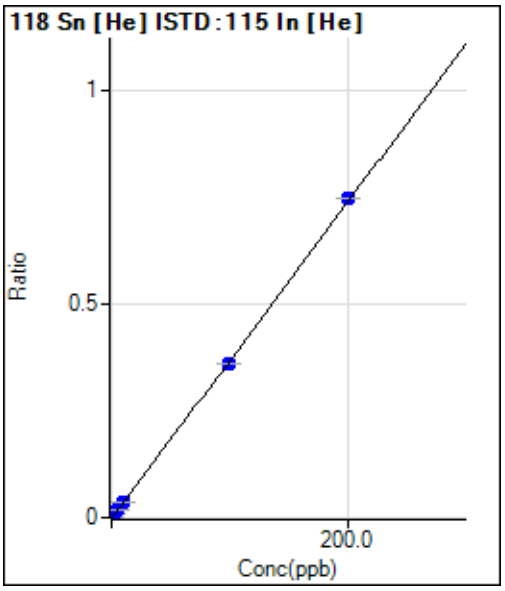


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2766.99	0.0011	P	4.5	
2	☐	2.000	1.852	18258.44	0.0073	P	0.0	-7.4
3	☐	5.000	4.542	40657.50	0.0163	P	2.5	-9.2
4	☐	10.000	9.460	81603.44	0.0328	P	1.7	-5.4
5	☐	100.000	97.619	807306.58	0.3282	P	1.4	-2.4
6	☐	200.000	201.230	1611475.29	0.6754	P	1.8	0.6
7	☐	1.000						

y = 0.0034 * x + 0.0011
R = 0.9999
DL = 0.04489 ppb
BEC = 0.3311 ppb

Weight: <None>
Min Conc: <None>

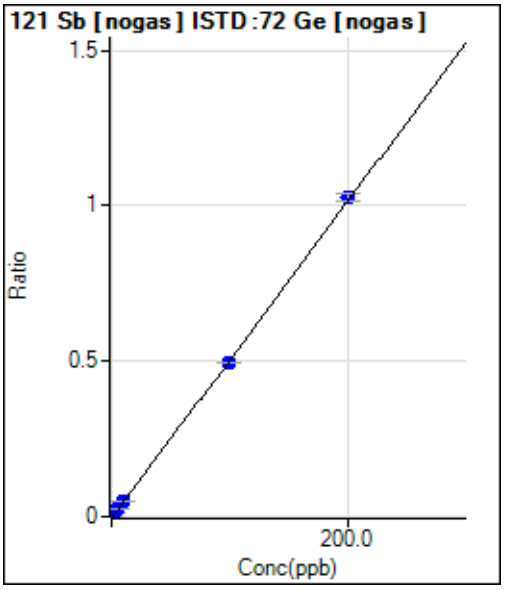
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1163.40	0.0013	P	2.0	
2	☐	2.000	1.902	7705.52	0.0083	P	5.2	-4.9
3	☐	5.000	4.664	17220.44	0.0185	P	3.2	-6.7
4	☐	10.000	9.548	33816.63	0.0366	P	3.7	-4.5
5	☐	100.000	97.322	330555.59	0.3616	P	0.2	-2.7
6	☐	200.000	201.371	660111.11	0.7468	P	0.4	0.7
7	☐	1.000						

y = 0.0037 * x + 0.0013
R = 0.9999
DL = 0.02006 ppb
BEC = 0.3423 ppb

Weight: <None>
Min Conc: <None>

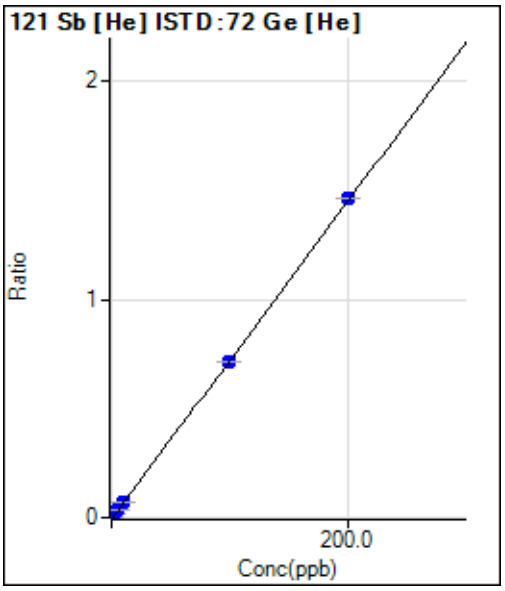


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	576.69	0.0002	P	12.3	
2	☐	2.000	1.863	22654.78	0.0097	P	1.9	-6.8
3	☐	5.000	4.528	53850.92	0.0233	P	2.6	-9.4
4	☐	10.000	9.407	111273.22	0.0482	P	1.1	-5.9
5	☐	100.000	97.131	1149120.11	0.4952	P	0.4	-2.9
6	☐	200.000	201.478	2305797.15	1.0270	P	2.8	0.7
7	☐	1.000						

y = 0.0051 * x + 2.4658E-004
R = 0.9999
DL = 0.01787 ppb
BEC = 0.04839 ppb

Weight: <None>
Min Conc: <None>

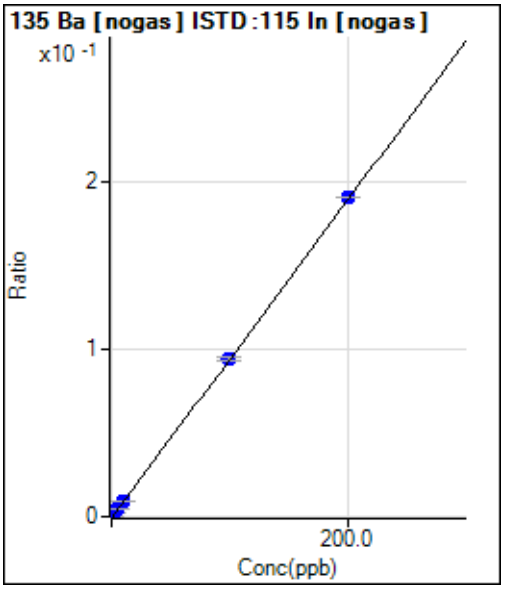
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.68	0.0004	P	23.4	
2	☐	2.000	1.867	9129.71	0.0140	P	0.4	-6.6
3	☐	5.000	4.640	22254.27	0.0342	P	1.8	-7.2
4	☐	10.000	9.640	45334.86	0.0706	P	1.6	-3.6
5	☐	100.000	98.169	458278.66	0.7151	P	0.3	-1.8
6	☐	200.000	200.944	918093.03	1.4634	P	0.1	0.5
7	☐	1.000						

y = 0.0073 * x + 3.8688E-004
R = 0.9999
DL = 0.03733 ppb
BEC = 0.05314 ppb

Weight: <None>
Min Conc: <None>

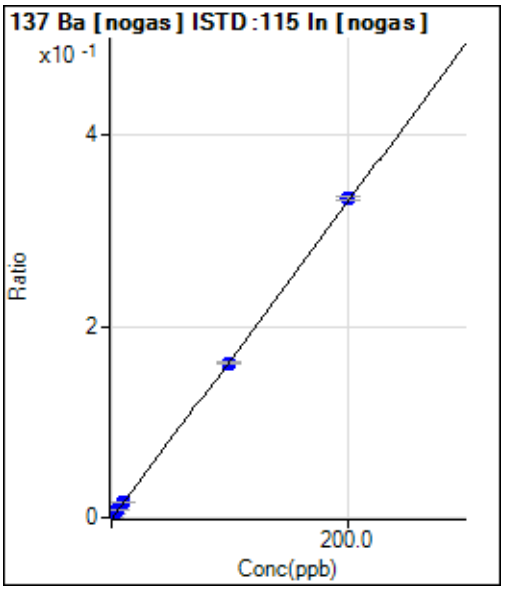


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	7.2	
2	☐	2.000	1.968	4960.94	0.0020	P	4.2	-1.6
3	☐	5.000	4.590	11137.85	0.0045	P	4.2	-8.2
4	☐	10.000	9.688	23152.35	0.0093	P	1.8	-3.1
5	☐	100.000	98.794	230764.33	0.0938	P	1.8	-1.2
6	☐	200.000	200.629	454257.43	0.1904	P	0.1	0.3
7	☐	1.000						

y = 9.4831E-004 * x + 1.2159E-004
R = 1.0000
DL = 0.02752 ppb
BEC = 0.1282 ppb

Weight: <None>
Min Conc: <None>

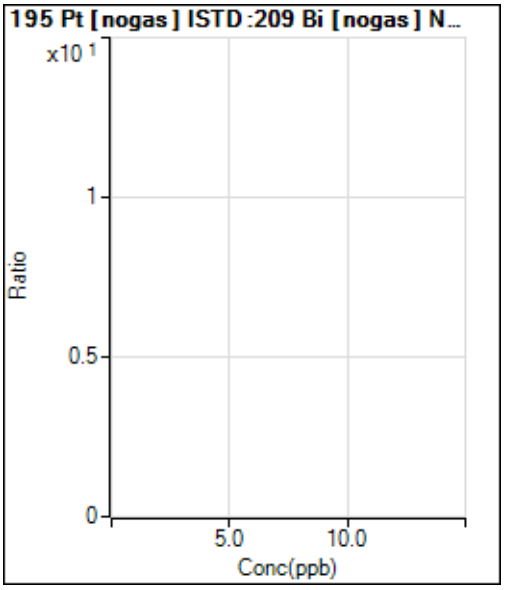
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	530.02	0.0002	P	22.9	
2	☐	2.000	1.974	8699.48	0.0035	P	4.0	-1.3
3	☐	5.000	4.528	19216.54	0.0077	P	2.3	-9.4
4	☐	10.000	9.202	38479.04	0.0155	P	2.5	-8.0
5	☐	100.000	97.526	398258.34	0.1619	P	1.7	-2.5
6	☐	200.000	201.289	796817.70	0.3339	P	1.3	0.6
7	☐	1.000						

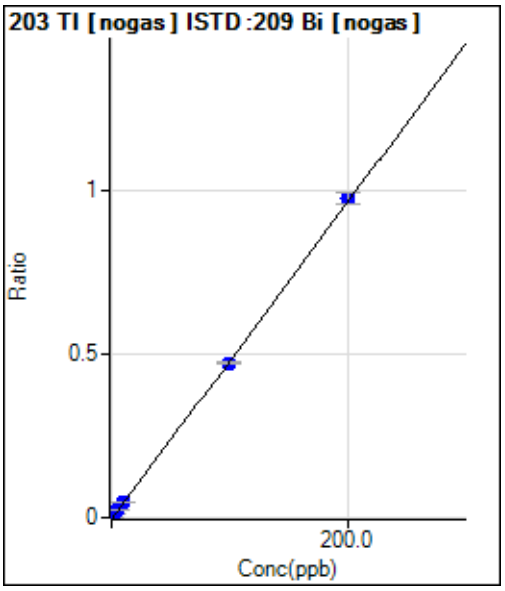
y = 0.0017 * x + 2.1248E-004
R = 0.9999
DL = 0.088 ppb
BEC = 0.1282 ppb

Weight: <None>
Min Conc: <None>



	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						

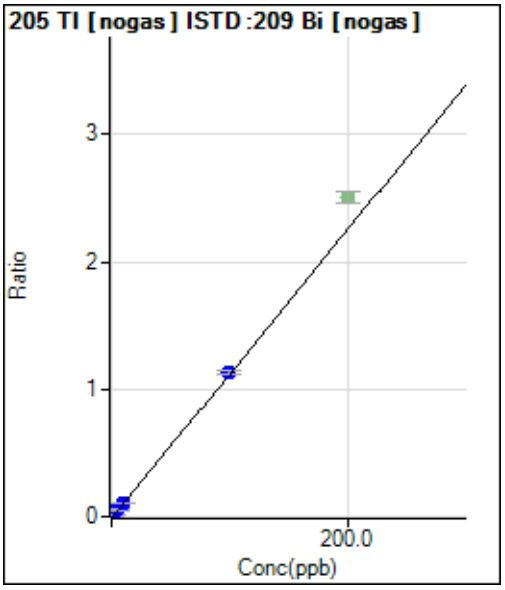
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	40.2	
2	☐	2.000	1.887	20165.13	0.0092	P	5.4	-5.6
3	☐	5.000	4.604	49298.94	0.0223	P	3.6	-7.9
4	☐	10.000	9.415	101109.22	0.0456	P	5.2	-5.8
5	☐	100.000	97.445	1031269.33	0.4716	P	1.2	-2.6
6	☐	200.000	201.318	2053798.72	0.9742	P	3.3	0.7
7	☐	1.000						

y = 0.0048 * x + 1.7866E-005
R = 0.9999
DL = 0.004448 ppb
BEC = 0.003692 ppb

Weight: <None>
Min Conc: <None>

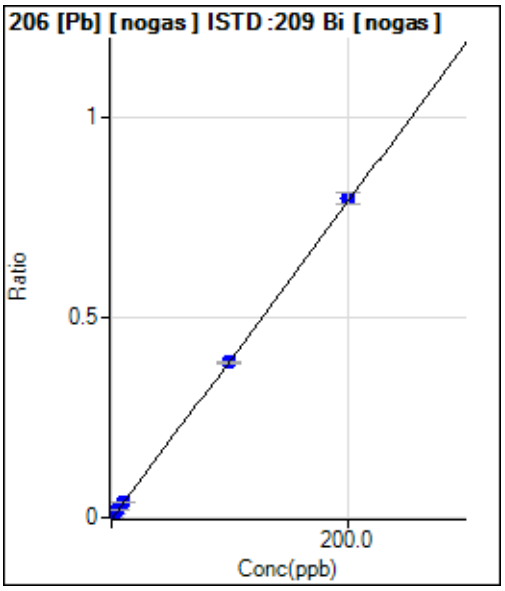


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0000	P	54.1	
2	☐	2.000	1.935	48409.71	0.0220	P	5.4	-3.2
3	☐	5.000	4.680	117290.56	0.0531	P	4.8	-6.4
4	☐	10.000	9.688	243609.45	0.1098	P	4.8	-3.1
5	☐	100.000	100.049	2479027.00	1.1336	P	1.9	0.0
6	☑	200.000		5282592.84	2.5058	A	3.6	
7	☐	1.000						

y = 0.0113 * x + 4.2157E-005
R = 1.0000
DL = 0.006042 ppb
BEC = 0.003721 ppb

Weight: <None>
Min Conc: <None>

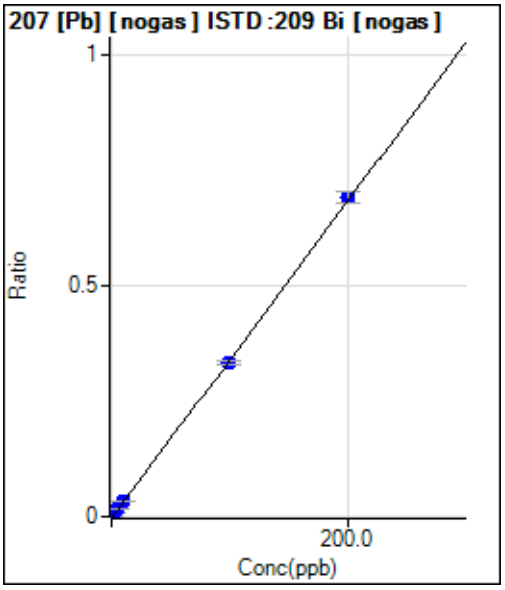
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	170.00	0.0001	P	12.1	
2	☐	2.000	1.922	16977.52	0.0077	P	3.0	-3.9
3	☐	5.000	4.656	41008.50	0.0185	P	3.9	-6.9
4	☐	10.000	9.511	83893.90	0.0378	P	4.3	-4.9
5	☐	100.000	97.704	847965.64	0.3877	P	1.7	-2.3
6	☐	200.000	201.182	1682833.78	0.7983	P	3.8	0.6
7	☐	1.000						

y = 0.0040 * x + 7.6624E-005
R = 0.9999
DL = 0.006987 ppb
BEC = 0.01931 ppb

Weight: <None>
Min Conc: <None>

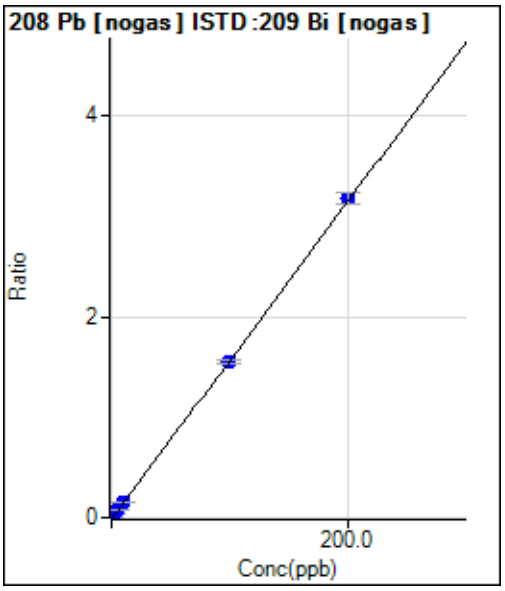


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	160.00	0.0001	P	12.3	
2	☐	2.000	1.875	14364.45	0.0065	P	2.3	-6.2
3	☐	5.000	4.608	35165.89	0.0159	P	2.7	-7.8
4	☐	10.000	9.356	71493.90	0.0322	P	2.3	-6.4
5	☐	100.000	97.445	732243.63	0.3348	P	2.5	-2.6
6	☐	200.000	201.321	1458121.49	0.6917	P	3.5	0.7
7	☐	1.000						

y = 0.0034 * x + 7.2101E-005
R = 0.9999
DL = 0.00774 ppb
BEC = 0.02099 ppb

Weight: <None>
Min Conc: <None>

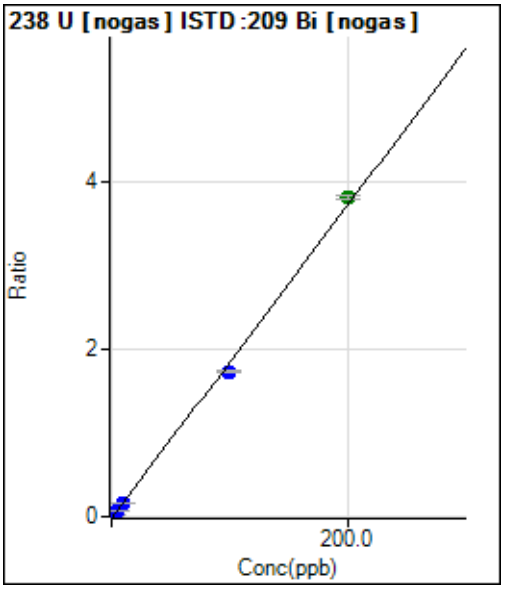
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	766.69	0.0003	P	13.4	
2	☐	2.000	1.910	67380.08	0.0306	P	2.7	-4.5
3	☐	5.000	4.615	162154.95	0.0733	P	3.5	-7.7
4	☐	10.000	9.484	333678.01	0.1504	P	3.4	-5.2
5	☐	100.000	98.046	3392612.84	1.5513	P	1.8	-2.0
6	☐	200.000	201.013	6704128.44	3.1800	P	3.3	0.5
7	☐	1.000						

y = 0.0158 * x + 3.4552E-004
R = 0.9999
DL = 0.008776 ppb
BEC = 0.02184 ppb

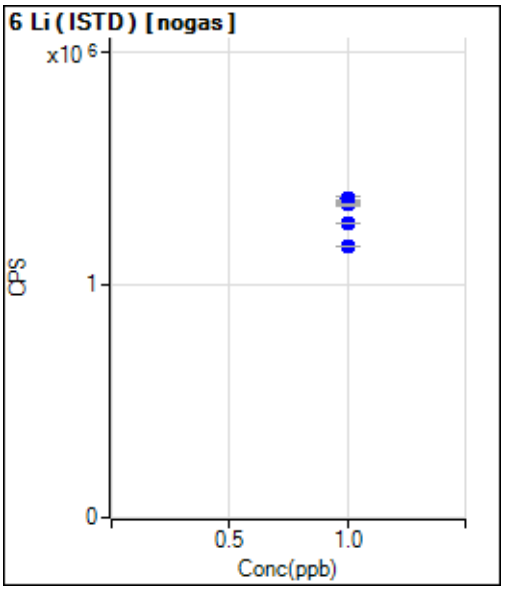
Weight: <None>
Min Conc: <None>



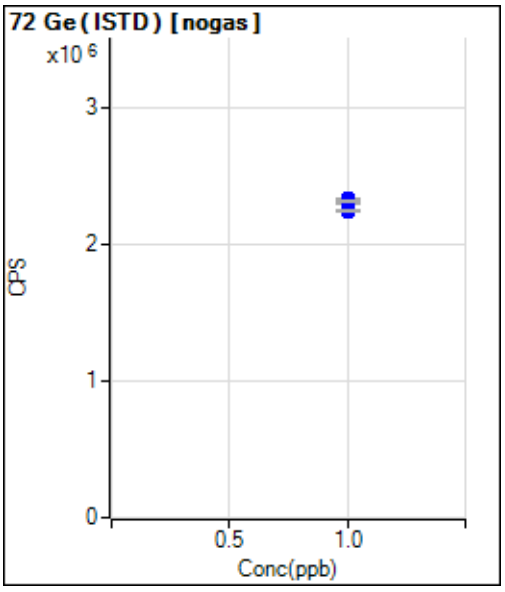
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	310.01	0.0001	P	27.3	
2	☐	2.000	1.729	71722.14	0.0325	P	4.2	-13.6
3	☐	5.000	4.187	173775.86	0.0786	P	3.3	-16.3
4	☐	10.000	8.625	358974.42	0.1618	P	3.4	-13.7
5	☐	100.000	92.359	3785107.86	1.7308	P	1.2	-7.6
6	☐	200.000	203.912	8057755.71	3.8211	A	0.9	2.0
7	☐	1.000						

y = 0.0187 * x + 1.3923E-004
R = 0.9990
DL = 0.006094 ppb
BEC = 0.00743 ppb

Weight: <None>
Min Conc: <None>

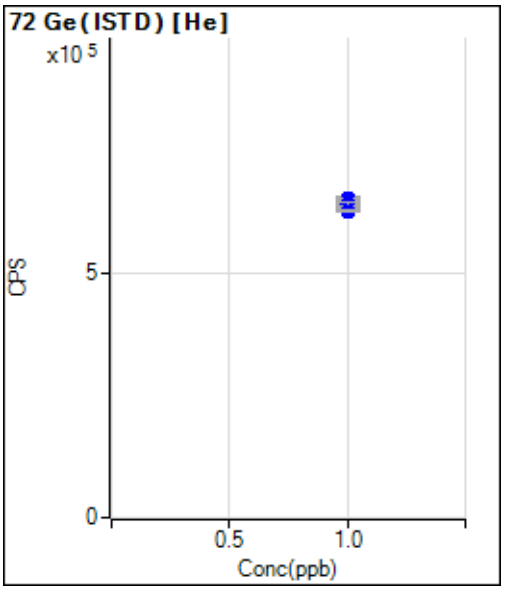


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1369633.52		P	1.0	
2	☐	1.000		1359467.55		P	0.8	
3	☐	1.000		1346307.54		P	0.6	
4	☐	1.000		1342772.90		P	0.3	
5	☐	1.000		1262457.50		P	0.1	
6	☐	1.000		1164046.18		P	0.4	
7	☐	1.000						

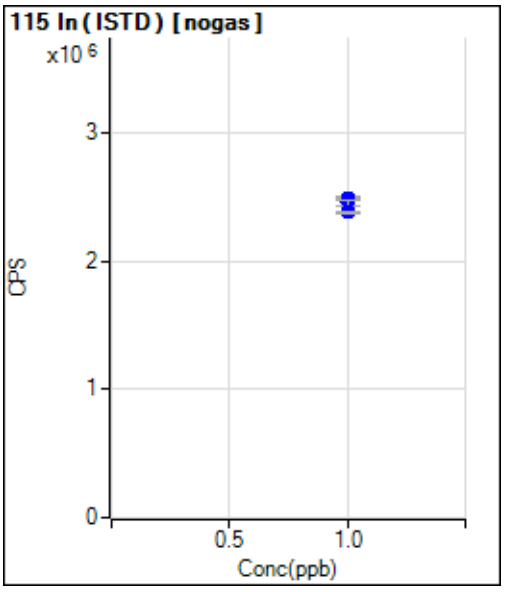


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2338923.77		P	0.4	
2	☐	1.000		2325446.37		P	0.6	
3	☐	1.000		2308596.58		P	0.8	
4	☐	1.000		2309191.06		P	0.8	
5	☐	1.000		2320299.44		P	0.8	
6	☐	1.000		2245378.14		P	0.8	
7	☐	1.000						

Calibration for 112_ICV.d

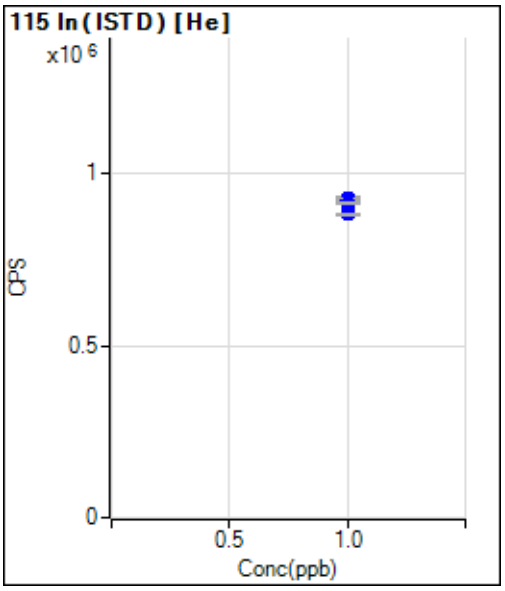


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		638659.62		P	1.4	
2	☐	1.000		652929.73		P	0.6	
3	☐	1.000		651296.75		P	0.1	
4	☐	1.000		642380.95		P	0.3	
5	☐	1.000		640831.47		P	0.9	
6	☐	1.000		627359.40		P	0.6	
7	☐	1.000						

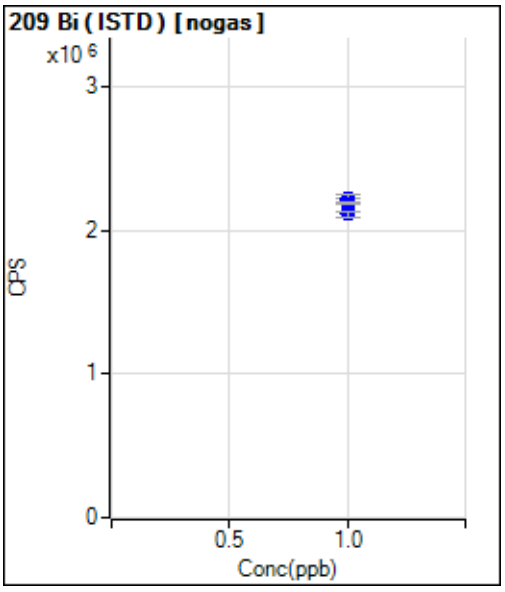


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2494311.02		P	0.6	
2	☐	1.000		2496167.47		P	0.8	
3	☐	1.000		2489500.65		P	1.0	
4	☐	1.000		2487327.05		P	0.7	
5	☐	1.000		2460060.33		P	1.7	
6	☐	1.000		2386058.06		P	0.9	
7	☐	1.000						

Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		918036.72		P	0.7	
2	☐	1.000		927092.53		P	0.9	
3	☐	1.000		929248.51		P	0.9	
4	☐	1.000		923587.81		P	0.7	
5	☐	1.000		914160.72		P	0.9	
6	☐	1.000		883879.68		P	0.6	
7	☐	1.000						



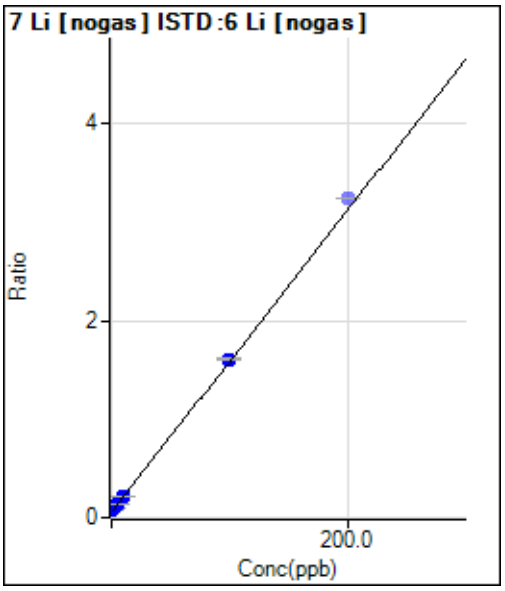
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2222206.37		P	2.8	
2	☐	1.000		2205027.15		P	1.8	
3	☐	1.000		2212424.55		P	2.9	
4	☐	1.000		2220260.38		P	2.5	
5	☐	1.000		2187031.79		P	1.0	
6	☐	1.000		2108918.46		P	1.6	
7	☐	1.000						

Calibration for 018_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070424A.b\
Analysis File: 070424A.batch.bin
DA Date-Time: 7/4/2024 9:09:53 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	011CALB.d	CAL BLK	7/4/2024 10:00:17 AM
2	012CALS.d	2/10/200	7/4/2024 10:02:24 AM
3	013CALS.d	5/25/500	7/4/2024 10:04:34 AM
4	014CALS.d	10/50/1000	7/4/2024 10:06:43 AM
5	015CALS.d	100/500/10K	7/4/2024 10:08:50 AM
6	016CALS.d	200/1000/20K	7/4/2024 10:10:55 AM
7			

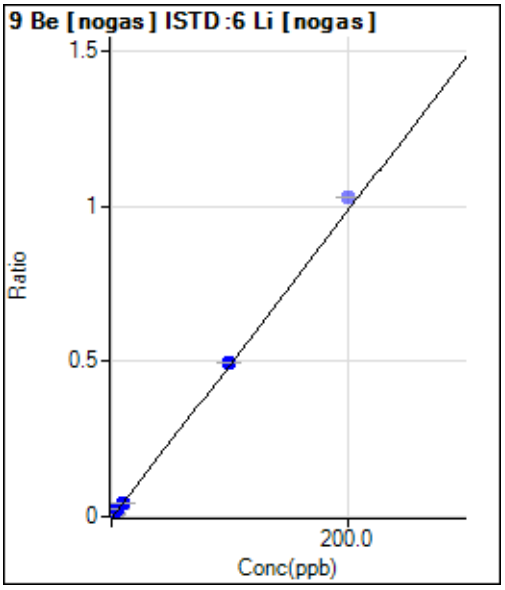
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	89538.50	0.0744	P	1.3	
2	☐	2.000	1.811	121928.64	0.1022	P	0.4	-9.4
3	☐	5.000	4.557	171800.13	0.1442	P	1.5	-8.9
4	☐	10.000	9.489	259403.38	0.2198	P	0.7	-5.1
5	☐	100.000	100.077	1835492.94	1.6072	P	0.5	0.1
6	☑	200.000		3504804.11	3.2401	P	0.0	
7	☐	1.000						

y = 0.0153 * x + 0.0744
R = 1.0000
DL = 0.1831 ppb
BEC = 4.859 ppb

Weight: <None>
Min Conc: <None>

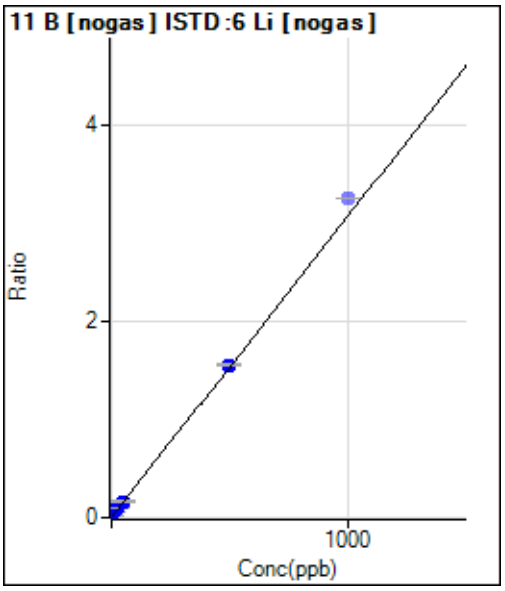


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55.00	0.0000	P	42.4	
2	☐	2.000	1.865	11089.04	0.0093	P	4.3	-6.7
3	☐	5.000	4.458	26377.42	0.0221	P	1.3	-10.8
4	☐	10.000	9.241	54115.19	0.0458	P	1.5	-7.6
5	☐	100.000	100.106	566689.47	0.4962	P	0.6	0.1
6	☑	200.000		1114645.43	1.0305	P	0.5	
7	☐	1.000						

y = 0.0050 * x + 4.5796E-005
R = 1.0000
DL = 0.01176 ppb
BEC = 0.00924 ppb

Weight: <None>
Min Conc: <None>

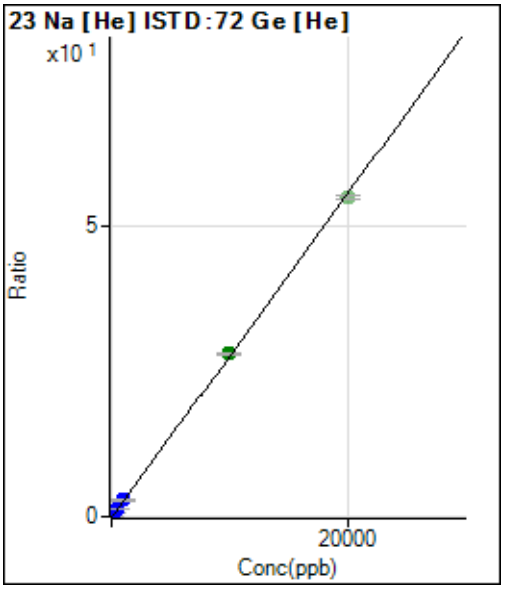
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27875.07	0.0232	P	2.2	
2	☐	10.000	8.843	59961.58	0.0502	P	1.0	-11.6
3	☐	25.000	22.067	108079.16	0.0907	P	1.0	-11.7
4	☐	50.000	46.366	194875.98	0.1651	P	1.7	-7.3
5	☐	500.000	500.533	1776222.68	1.5553	P	1.1	0.1
6	☑	1000.000		3516927.97	3.2512	P	0.4	
7	☐	5.000						

y = 0.0031 * x + 0.0232
R = 1.0000
DL = 0.5095 ppb
BEC = 7.569 ppb

Weight: <None>
Min Conc: <None>

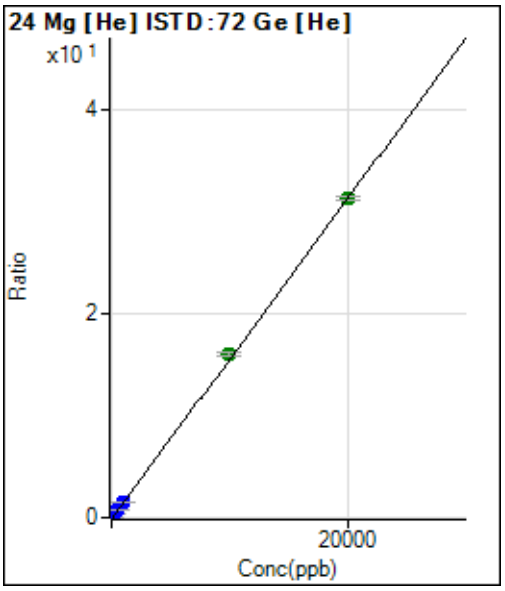


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55118.46	0.0993	P	1.2	
2	☐	200.000	193.204	356189.47	0.6381	P	1.1	-3.4
3	☐	500.000	467.724	784430.41	1.4037	P	1.0	-6.5
4	☐	1000.000	974.616	1555657.53	2.8173	P	0.6	-2.5
5	☐	10000.00	10004.28	15767510.60	27.9995	A	1.3	0.0
6	☑	20000.00		30363719.55	54.9465	A	1.2	
7	☐	100.000						

y = 0.0028 * x + 0.0993
R = 1.0000
DL = 1.314 ppb
BEC = 35.59 ppb

Weight: <None>
Min Conc: <None>

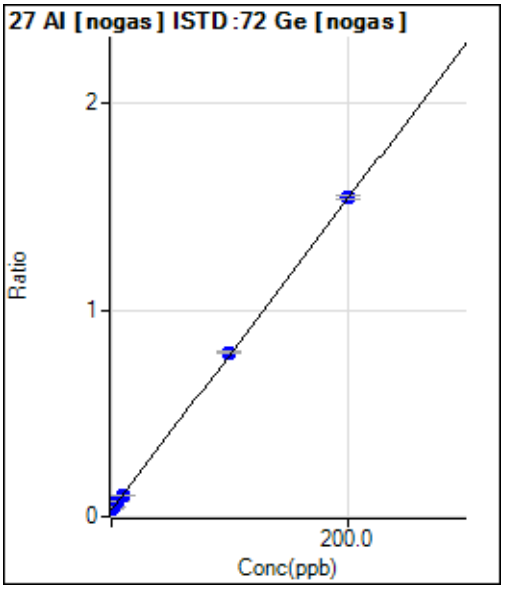
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1826.82	0.0033	P	6.7	
2	☐	200.000	195.847	173481.04	0.3108	P	0.6	-2.1
3	☐	500.000	472.417	416341.53	0.7450	P	0.6	-5.5
4	☐	1000.000	977.613	849341.29	1.5382	P	0.1	-2.2
5	☐	10000.00	10200.20	9020176.32	16.0177	A	1.8	2.0
6	☐	20000.00	19901.74	17267514.32	31.2493	A	1.8	-0.5
7	☐	100.000						

y = 0.0016 * x + 0.0033
R = 0.9999
DL = 0.4229 ppb
BEC = 2.096 ppb

Weight: <None>
Min Conc: <None>

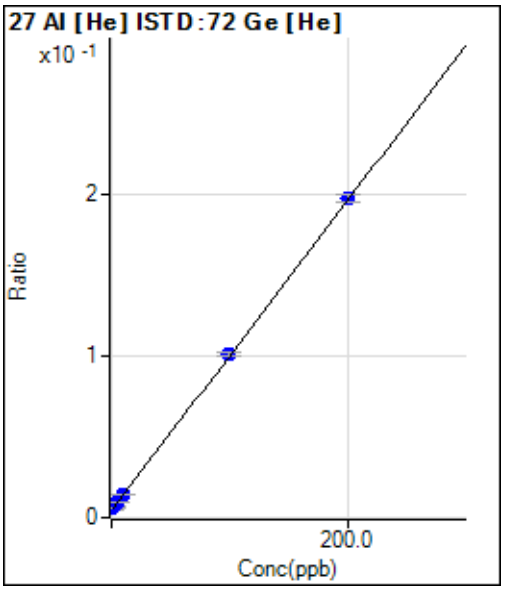


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83060.47	0.0419	P	1.2	
2	☐	2.000	0.759	95059.15	0.0476	P	1.2	-62.1
3	☐	5.000	3.854	140466.43	0.0709	P	1.4	-22.9
4	☐	10.000	8.561	208267.44	0.1063	P	1.3	-14.4
5	☐	100.000	100.190	1585060.34	0.7954	P	1.0	0.2
6	☐	200.000	200.018	3052746.72	1.5461	P	1.3	0.0
7	☐	1.000						

y = 0.0075 * x + 0.0419
R = 1.0000
DL = 0.1991 ppb
BEC = 5.572 ppb

Weight: <None>
Min Conc: <None>

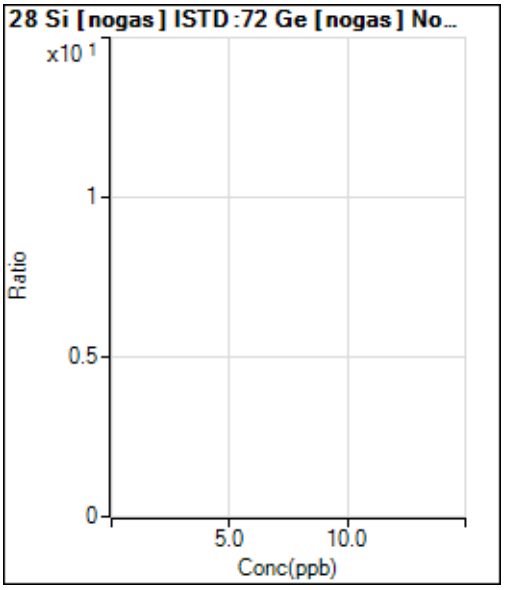
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3047.03	0.0055	P	4.9	
2	☐	2.000	1.272	3743.86	0.0067	P	5.2	-36.4
3	☐	5.000	3.971	5197.65	0.0093	P	2.3	-20.6
4	☐	10.000	9.234	7928.84	0.0144	P	1.6	-7.7
5	☐	100.000	99.764	57089.56	0.1014	P	1.9	-0.2
6	☐	200.000	200.189	109333.20	0.1979	P	2.9	0.1
7	☐	1.000						

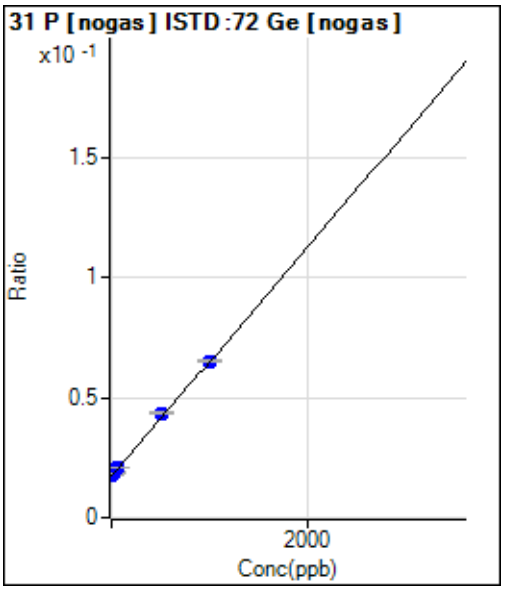
y = 9.6108E-004 * x + 0.0055
R = 1.0000
DL = 0.8444 ppb
BEC = 5.707 ppb

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						

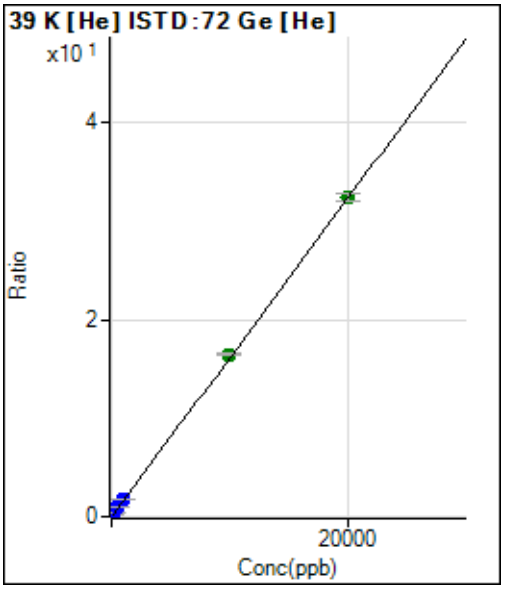
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35591.70	0.0180	P	3.4	
2	☐	10.000	8.294	36647.69	0.0184	P	3.2	-17.1
3	☐	25.000	16.493	37162.16	0.0188	P	1.9	-34.0
4	☐	50.000	66.523	41456.25	0.0212	P	0.6	33.0
5	☐	500.000	529.880	86522.83	0.0434	P	2.0	6.0
6	☐	1000.000	984.463	128867.69	0.0653	P	1.7	-1.6
7	☐	5.000						

y = 4.8056E-005 * x + 0.0180
R = 0.9992
DL = 37.85 ppb
BEC = 373.7 ppb

Weight: <None>
Min Conc: <None>

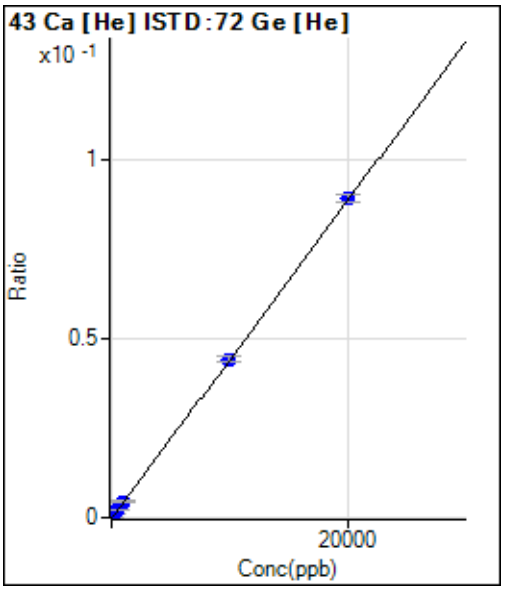


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80941.13	0.1457	P	2.6	
2	☐	200.000	191.067	254018.34	0.4550	P	0.3	-4.5
3	☐	500.000	458.996	496701.36	0.8888	P	0.7	-8.2
4	☐	1000.000	958.654	937403.71	1.6977	P	1.2	-4.1
5	☐	10000.00	10094.33	9285526.11	16.4872	A	1.2	0.9
6	☐	20000.00	19956.01	17930818.07	32.4521	A	2.6	-0.2
7	☐	100.000						

y = 0.0016 * x + 0.1457
R = 1.0000
DL = 7.028 ppb
BEC = 90.02 ppb

Weight: <None>
Min Conc: <None>

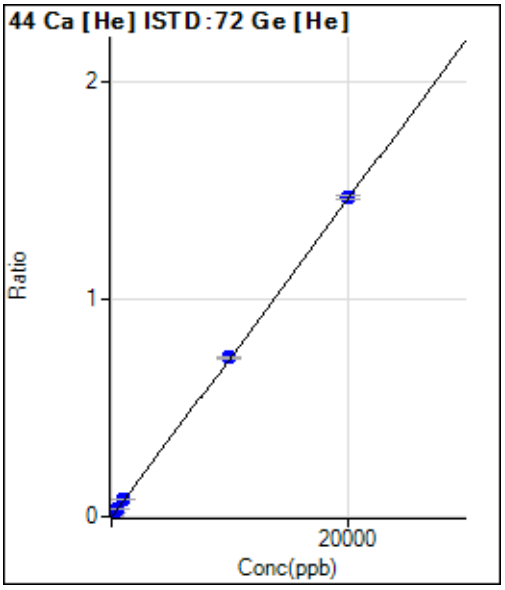
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	38.3	
2	☐	200.000	185.451	540.02	0.0010	P	15.9	-7.3
3	☐	500.000	460.774	1223.41	0.0022	P	5.0	-7.8
4	☐	1000.000	959.329	2430.26	0.0044	P	9.8	-4.1
5	☐	10000.00	9936.679	24914.04	0.0442	P	2.5	-0.6
6	☐	20000.00	20034.82	49196.70	0.0890	P	2.9	0.2
7	☐	100.000						

y = 4.4371E-006 * x + 1.4428E-004
R = 1.0000
DL = 37.34 ppb
BEC = 32.52 ppb

Weight: <None>
Min Conc: <None>

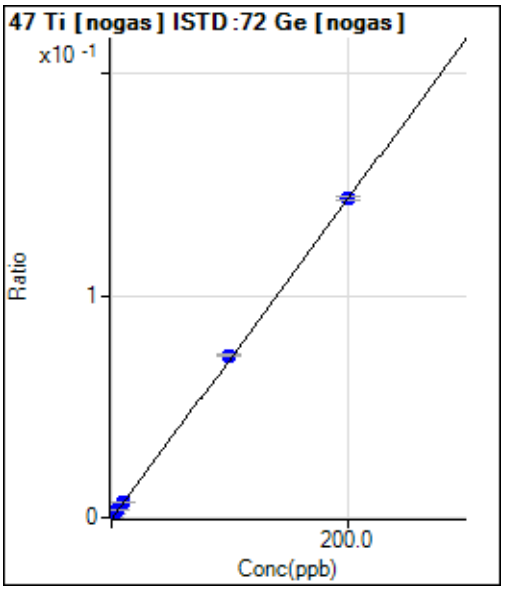


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2380.23	0.0043	P	9.2	
2	☐	200.000	193.329	10273.64	0.0184	P	3.8	-3.3
3	☐	500.000	480.247	21996.24	0.0394	P	0.4	-4.0
4	☐	1000.000	986.690	42158.73	0.0763	P	1.1	-1.3
5	☐	10000.00	9954.616	411829.90	0.7313	P	1.6	-0.5
6	☐	20000.00	20023.91	810526.68	1.4668	P	1.6	0.1
7	☐	100.000						

y = 7.3036E-005 * x + 0.0043
R = 1.0000
DL = 16.15 ppb
BEC = 58.65 ppb

Weight: <None>
Min Conc: <None>

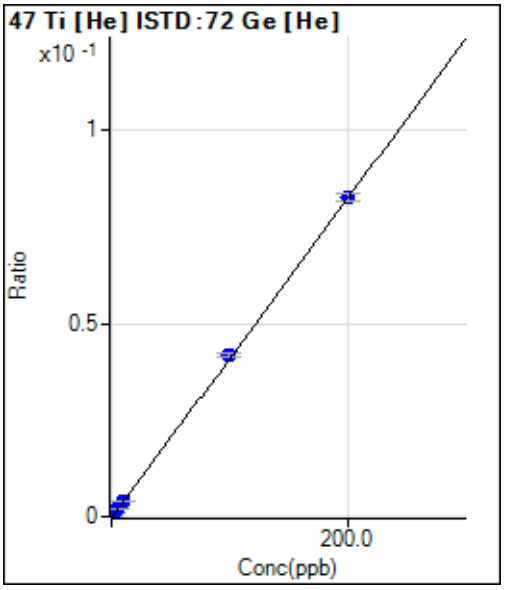
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0001	P	27.9	
2	☐	2.000	1.974	3017.02	0.0015	P	2.3	-1.3
3	☐	5.000	4.537	6654.92	0.0034	P	0.8	-9.3
4	☐	10.000	9.878	14123.45	0.0072	P	1.6	-1.2
5	☐	100.000	101.077	145330.87	0.0729	P	1.2	1.1
6	☐	200.000	199.480	284003.80	0.1438	P	1.2	-0.3
7	☐	1.000						

y = 7.2062E-004 * x + 8.9068E-005
R = 1.0000
DL = 0.1036 ppb
BEC = 0.1236 ppb

Weight: <None>
Min Conc: <None>

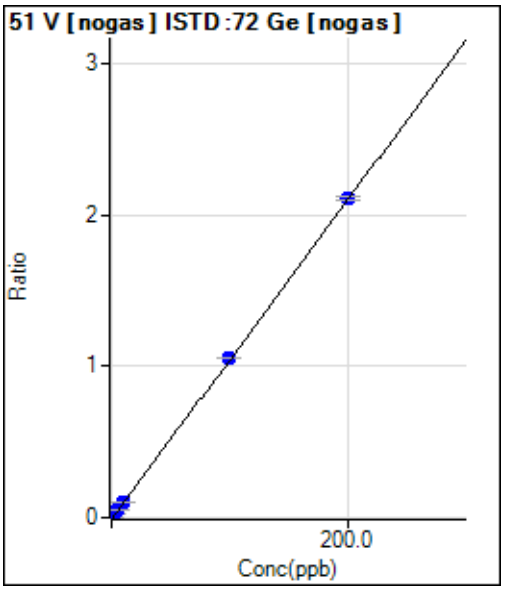


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	65.4	
2	☐	2.000	2.121	513.35	0.0009	P	11.5	6.1
3	☐	5.000	5.061	1193.41	0.0021	P	7.5	1.2
4	☐	10.000	9.606	2216.87	0.0040	P	10.1	-3.9
5	☐	100.000	100.868	23525.20	0.0418	P	2.9	0.9
6	☐	200.000	199.583	45649.16	0.0826	P	2.3	-0.2
7	☐	1.000						

y = 4.1372E-004 * x + 4.2081E-005
R = 1.0000
DL = 0.1997 ppb
BEC = 0.1017 ppb

Weight: <None>
Min Conc: <None>

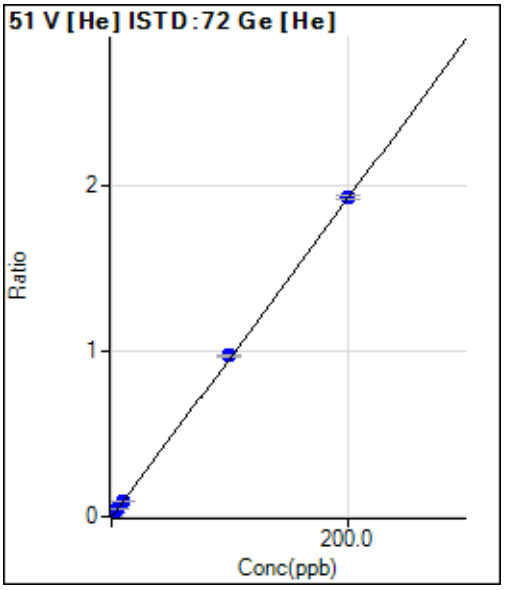
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	185.49	0.0001	P	846.7	
2	☐	2.000	1.960	41487.28	0.0208	P	3.3	-2.0
3	☐	5.000	4.850	101596.41	0.0513	P	3.1	-3.0
4	☐	10.000	9.669	200065.98	0.1021	P	2.4	-3.3
5	☐	100.000	100.173	2106791.64	1.0570	P	0.3	0.2
6	☐	200.000	199.934	4165251.89	2.1095	P	1.2	0.0
7	☐	1.000						

y = 0.0106 * x + 9.9756E-005
R = 1.0000
DL = 0.2402 ppb
BEC = 0.009455 ppb

Weight: <None>
Min Conc: <None>

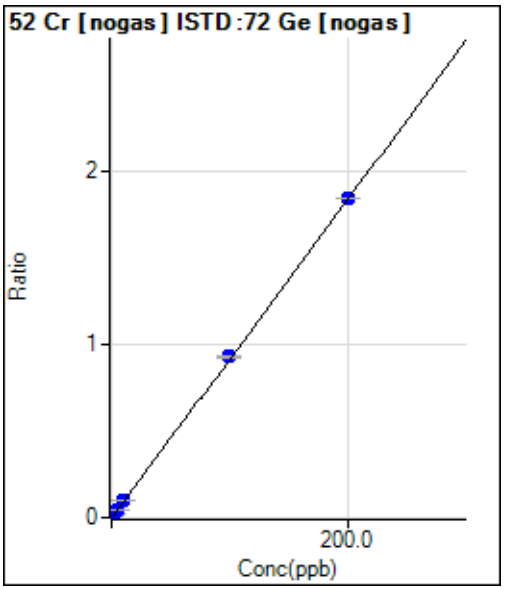


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2427.39	0.0044	P	19.3	
2	☐	2.000	1.845	12340.69	0.0221	P	2.6	-7.8
3	☐	5.000	4.629	27314.18	0.0489	P	6.0	-7.4
4	☐	10.000	9.476	52728.10	0.0955	P	2.8	-5.2
5	☐	100.000	100.422	546320.86	0.9702	P	1.8	0.4
6	☐	200.000	199.826	1064399.33	1.9262	P	1.3	-0.1
7	☐	1.000						

y = 0.0096 * x + 0.0044
R = 1.0000
DL = 0.2628 ppb
BEC = 0.4538 ppb

Weight: <None>
Min Conc: <None>

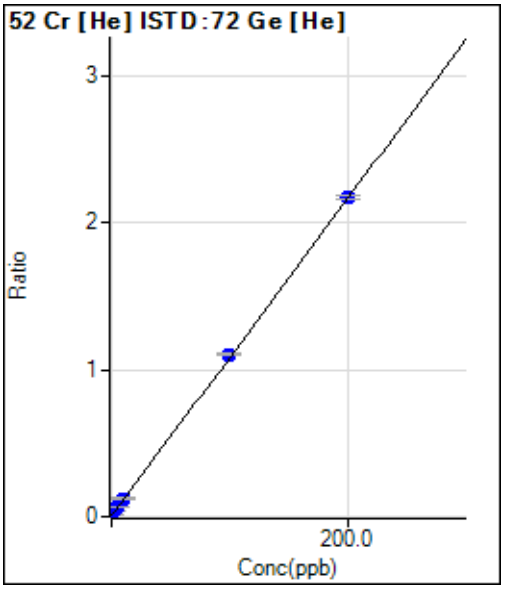
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12745.62	0.0064	P	2.5	
2	☐	2.000	1.855	46879.61	0.0235	P	0.7	-7.3
3	☐	5.000	4.634	97157.33	0.0490	P	0.6	-7.3
4	☐	10.000	9.715	187582.79	0.0957	P	1.2	-2.9
5	☐	100.000	100.538	1854647.94	0.9306	P	0.8	0.5
6	☐	200.000	199.756	3638525.26	1.8427	P	0.6	-0.1
7	☐	1.000						

y = 0.0092 * x + 0.0064
R = 1.0000
DL = 0.05301 ppb
BEC = 0.6995 ppb

Weight: <None>
Min Conc: <None>

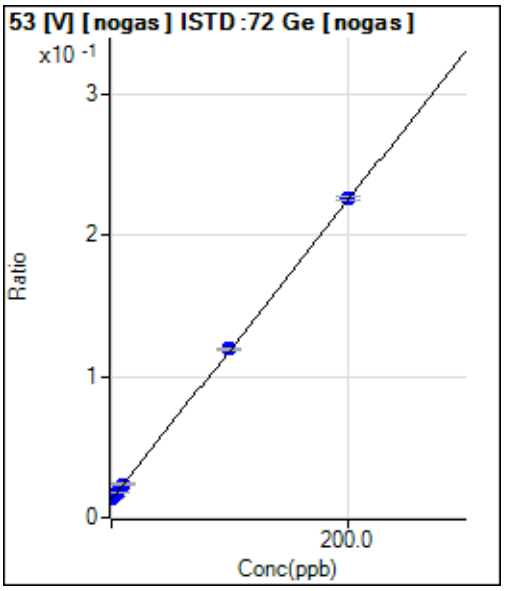


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8826.06	0.0159	P	2.8	
2	☐	2.000	1.766	19536.25	0.0350	P	1.0	-11.7
3	☐	5.000	4.596	36658.03	0.0656	P	2.1	-8.1
4	☐	10.000	10.032	68676.02	0.1244	P	2.2	0.3
5	☐	100.000	100.783	622696.58	1.1058	P	1.6	0.8
6	☐	200.000	199.619	1201749.85	2.1746	P	0.8	-0.2
7	☐	1.000						

y = 0.0108 * x + 0.0159
R = 1.0000
DL = 0.1225 ppb
BEC = 1.47 ppb

Weight: <None>
Min Conc: <None>

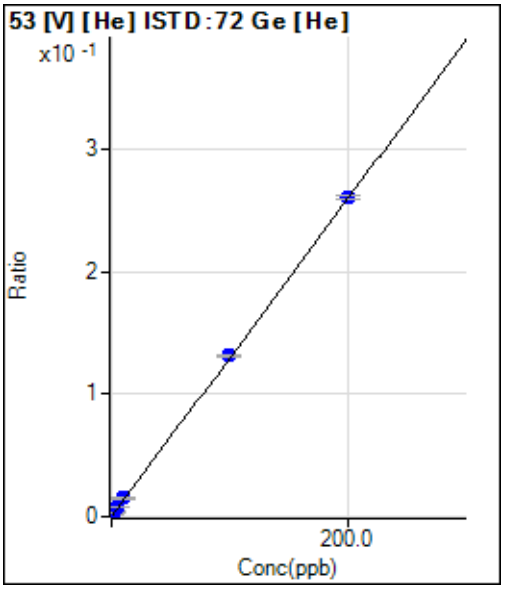
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27812.62	0.0140	P	2.1	
2	☐	2.000	0.623	29325.50	0.0147	P	2.1	-68.8
3	☐	5.000	3.289	34710.24	0.0175	P	0.9	-34.2
4	☐	10.000	9.221	46649.10	0.0238	P	1.3	-7.8
5	☐	100.000	99.482	238166.62	0.1195	P	1.0	-0.5
6	☐	200.000	200.354	447147.26	0.2265	P	0.9	0.2
7	☐	1.000						

y = 0.0011 * x + 0.0140
R = 1.0000
DL = 0.8534 ppb
BEC = 13.23 ppb

Weight: <None>
Min Conc: <None>

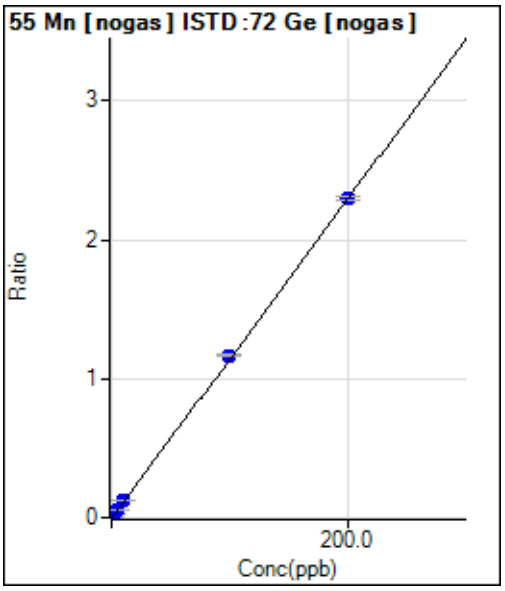


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	876.71	0.0016	P	17.7	
2	☐	2.000	1.791	2180.20	0.0039	P	4.8	-10.4
3	☐	5.000	4.567	4197.33	0.0075	P	8.7	-8.7
4	☐	10.000	10.572	8452.51	0.0153	P	4.8	5.7
5	☐	100.000	100.060	74041.06	0.1315	P	0.6	0.1
6	☐	200.000	199.955	144320.99	0.2612	P	0.8	0.0
7	☐	1.000						

y = 0.0013 * x + 0.0016
R = 1.0000
DL = 0.6454 ppb
BEC = 1.218 ppb

Weight: <None>
Min Conc: <None>

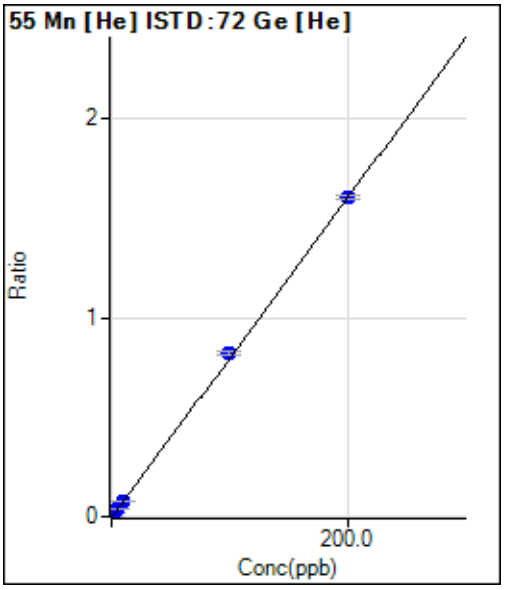
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10533.86	0.0053	P	3.0	
2	☐	2.000	1.933	55013.64	0.0276	P	0.1	-3.3
3	☐	5.000	4.769	119231.71	0.0602	P	1.1	-4.6
4	☐	10.000	9.816	231677.43	0.1182	P	0.4	-1.8
5	☐	100.000	101.204	2330930.38	1.1696	P	0.7	1.2
6	☐	200.000	199.414	4540025.97	2.2994	P	1.1	-0.3
7	☐	1.000						

y = 0.0115 * x + 0.0053
R = 1.0000
DL = 0.04153 ppb
BEC = 0.4619 ppb

Weight: <None>
Min Conc: <None>

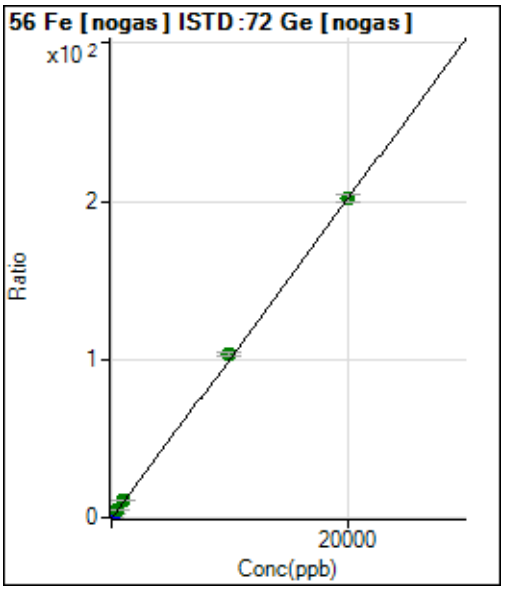


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1186.74	0.0021	P	5.0	
2	☐	2.000	1.863	9556.48	0.0171	P	1.9	-6.8
3	☐	5.000	4.703	22333.53	0.0400	P	3.6	-5.9
4	☐	10.000	9.826	44813.52	0.0812	P	0.8	-1.7
5	☐	100.000	101.650	461527.83	0.8196	P	2.0	1.6
6	☐	200.000	199.193	886424.39	1.6041	P	1.0	-0.4
7	☐	1.000						

y = 0.0080 * x + 0.0021
R = 0.9999
DL = 0.04017 ppb
BEC = 0.2657 ppb

Weight: <None>
Min Conc: <None>

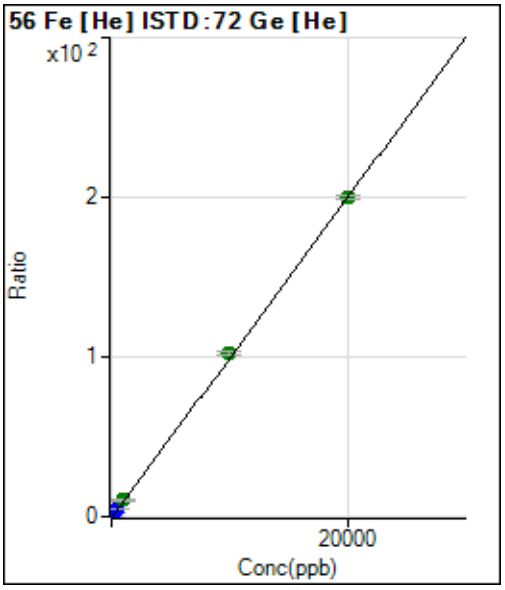
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796915.12	0.4020	P	0.4	
2	☐	200.000	190.274	4644698.06	2.3264	P	0.5	-4.9
3	☐	500.000	487.703	10570696.51	5.3344	A	0.5	-2.5
4	☐	1000.000	1013.196	20864075.10	10.6490	A	2.0	1.3
5	☐	10000.00	10137.65	205080690.2	102.929	A	2.3	1.4
6	☐	20000.00	19930.91	398738980.7	201.973	A	2.4	-0.3
7	☐	100.000						

y = 0.0101 * x + 0.4020
R = 1.0000
DL = 0.4328 ppb
BEC = 39.75 ppb

Weight: <None>
Min Conc: <None>

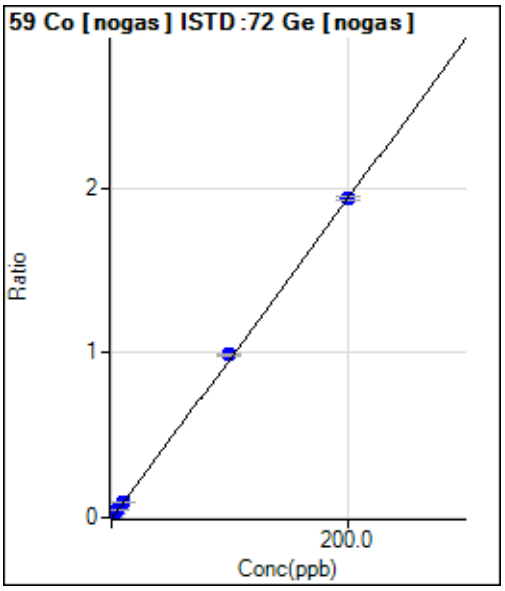


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19880.01	0.0358	P	2.0	
2	☐	200.000	188.227	1075911.26	1.9274	P	0.6	-5.9
3	☐	500.000	459.521	2600927.56	4.6537	P	1.3	-8.1
4	☐	1000.000	1022.738	5694706.79	10.3137	A	1.7	2.3
5	☐	10000.00	10199.09	57734544.14	102.530	A	2.6	2.0
6	☐	20000.00	19900.44	110529768.3	200.022	A	1.5	-0.5
7	☐	100.000						

y = 0.0100 * x + 0.0358
R = 0.9999
DL = 0.2133 ppb
BEC = 3.562 ppb

Weight: <None>
Min Conc: <None>

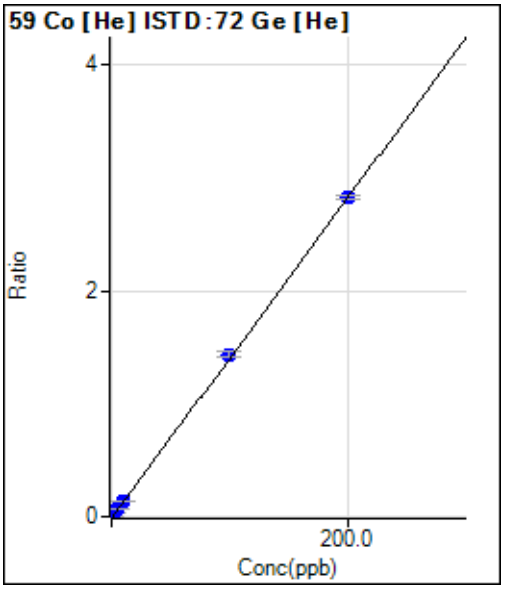
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	553.35	0.0003	P	5.8	
2	☐	2.000	1.968	38763.73	0.0194	P	2.8	-1.6
3	☐	5.000	4.738	91842.52	0.0463	P	0.9	-5.2
4	☐	10.000	9.756	186403.56	0.0951	P	1.4	-2.4
5	☐	100.000	101.543	1967731.06	0.9875	P	2.1	1.5
6	☐	200.000	199.248	3825384.42	1.9374	P	1.4	-0.4
7	☐	1.000						

y = 0.0097 * x + 2.7904E-004
R = 1.0000
DL = 0.004977 ppb
BEC = 0.0287 ppb

Weight: <None>
Min Conc: <None>

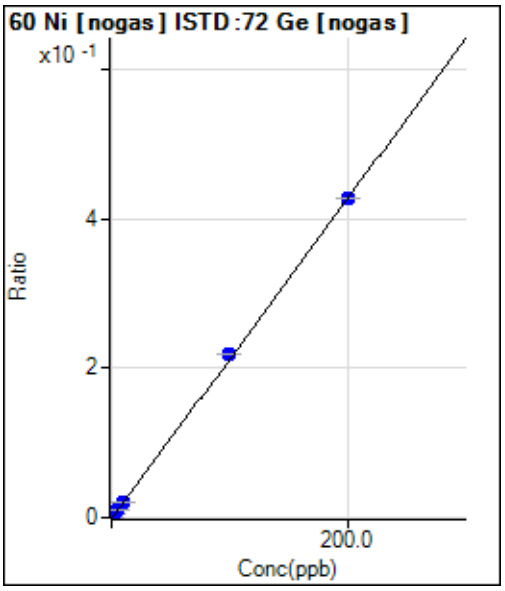


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210.01	0.0004	P	11.7	
2	☐	2.000	2.013	16158.96	0.0289	P	3.3	0.6
3	☐	5.000	4.860	38760.38	0.0694	P	1.9	-2.8
4	☐	10.000	10.058	79043.47	0.1431	P	1.8	0.6
5	☐	100.000	101.413	810756.47	1.4399	P	2.6	1.4
6	☐	200.000	199.294	1563491.96	2.8292	P	0.8	-0.4
7	☐	1.000						

y = 0.0142 * x + 3.7791E-004
R = 1.0000
DL = 0.009352 ppb
BEC = 0.02662 ppb

Weight: <None>
Min Conc: <None>

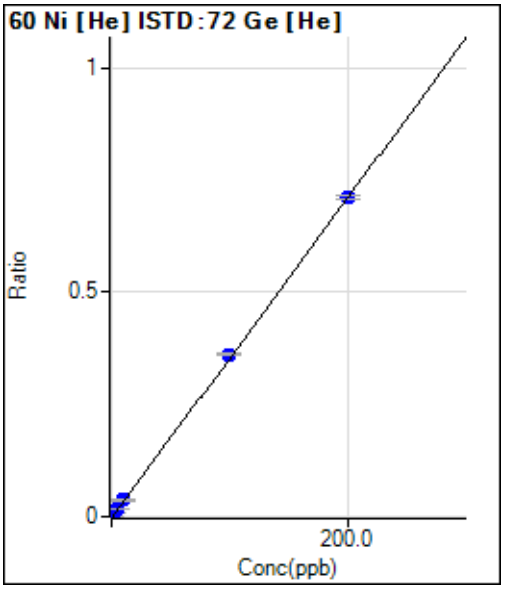
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	826.70	0.0004	P	14.2	
2	☐	2.000	1.945	9162.98	0.0046	P	2.2	-2.8
3	☐	5.000	4.820	21318.72	0.0108	P	1.3	-3.6
4	☐	10.000	9.836	42162.78	0.0215	P	3.0	-1.6
5	☐	100.000	101.977	436861.54	0.2192	P	0.4	2.0
6	☐	200.000	199.025	843922.33	0.4274	P	0.5	-0.5
7	☐	1.000						

y = 0.0021 * x + 4.1739E-004
R = 0.9999
DL = 0.08314 ppb
BEC = 0.1946 ppb

Weight: <None>
Min Conc: <None>

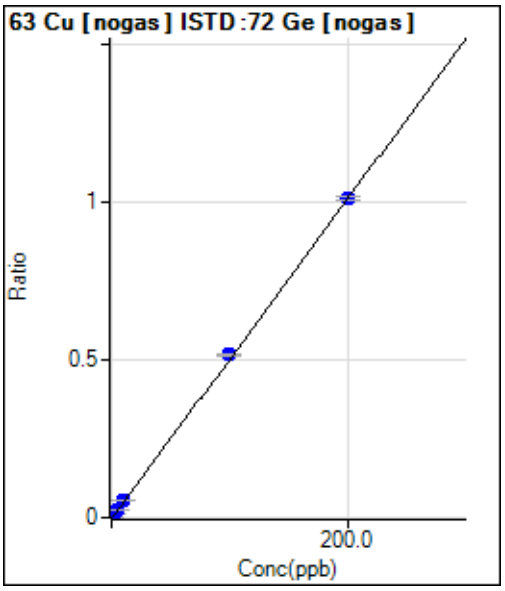


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	296.68	0.0005	P	15.7	
2	☐	2.000	1.934	4150.65	0.0074	P	9.0	-3.3
3	☐	5.000	5.006	10280.35	0.0184	P	5.3	0.1
4	☐	10.000	10.178	20347.42	0.0369	P	3.0	1.8
5	☐	100.000	101.348	203941.28	0.3622	P	1.8	1.3
6	☐	200.000	199.318	393305.03	0.7117	P	1.4	-0.3
7	☐	1.000						

y = 0.0036 * x + 5.3410E-004
R = 1.0000
DL = 0.07064 ppb
BEC = 0.1497 ppb

Weight: <None>
Min Conc: <None>

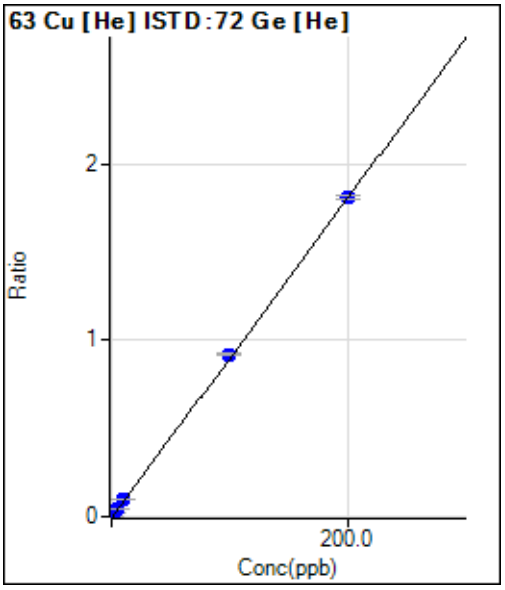
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2173.54	0.0011	P	7.9	
2	☐	2.000	1.972	22136.65	0.0111	P	2.9	-1.4
3	☐	5.000	4.873	51107.20	0.0258	P	1.0	-2.5
4	☐	10.000	10.172	103150.20	0.0526	P	1.4	1.7
5	☐	100.000	101.467	1026765.77	0.5152	P	1.3	1.5
6	☐	200.000	199.261	1995822.05	1.0108	P	0.9	-0.4
7	☐	1.000						

y = 0.0051 * x + 0.0011
R = 1.0000
DL = 0.05136 ppb
BEC = 0.2163 ppb

Weight: <None>
Min Conc: <None>

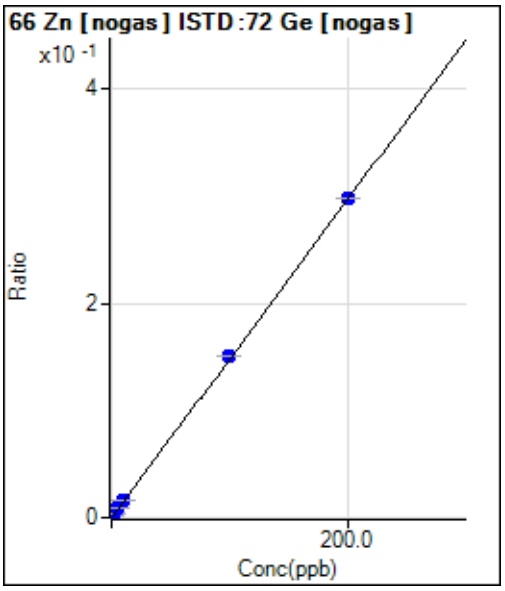


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	746.70	0.0013	P	4.3	
2	☐	2.000	1.983	10790.69	0.0193	P	0.7	-0.9
3	☐	5.000	5.077	26490.40	0.0474	P	3.8	1.5
4	☐	10.000	10.473	53204.73	0.0964	P	1.3	4.7
5	☐	100.000	101.060	517062.63	0.9182	P	0.9	1.1
6	☐	200.000	199.445	1000685.77	1.8107	P	0.8	-0.3
7	☐	1.000						

y = 0.0091 * x + 0.0013
R = 1.0000
DL = 0.01918 ppb
BEC = 0.1482 ppb

Weight: <None>
Min Conc: <None>

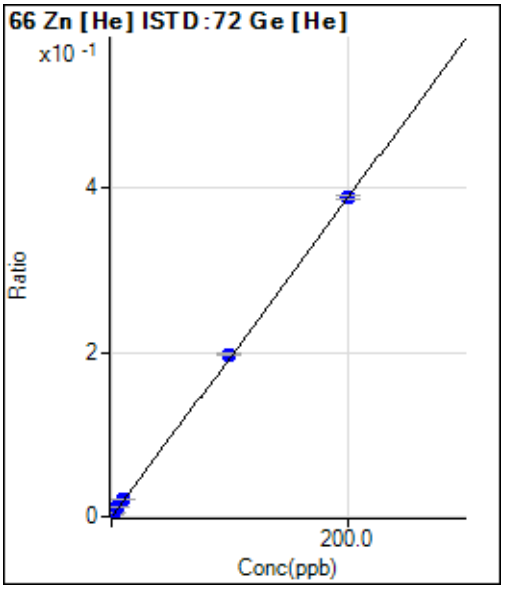
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.90	0.0012	P	5.3	
2	☐	2.000	2.106	8662.64	0.0043	P	2.4	5.3
3	☐	5.000	5.075	17350.36	0.0088	P	4.1	1.5
4	☐	10.000	9.915	31272.96	0.0160	P	2.1	-0.8
5	☐	100.000	100.836	301462.22	0.1512	P	0.5	0.8
6	☐	200.000	199.583	588771.34	0.2982	P	0.2	-0.2
7	☐	1.000						

y = 0.0015 * x + 0.0012
R = 1.0000
DL = 0.1292 ppb
BEC = 0.8096 ppb

Weight: <None>
Min Conc: <None>

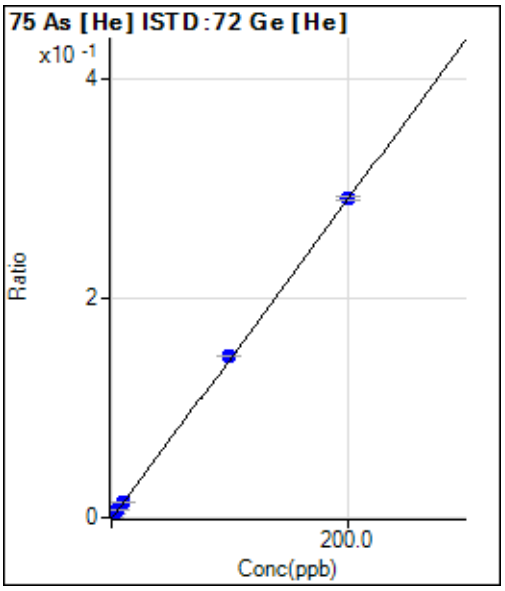


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	786.70	0.0014	P	5.2	
2	☐	2.000	2.063	3027.01	0.0054	P	2.7	3.1
3	☐	5.000	5.353	6601.57	0.0118	P	0.8	7.1
4	☐	10.000	9.955	11457.89	0.0208	P	2.0	-0.5
5	☐	100.000	101.084	111355.98	0.1977	P	0.7	1.1
6	☐	200.000	199.451	214840.81	0.3888	P	1.1	-0.3
7	☐	1.000						

y = 0.0019 * x + 0.0014
R = 1.0000
DL = 0.1134 ppb
BEC = 0.7293 ppb

Weight: <None>
Min Conc: <None>

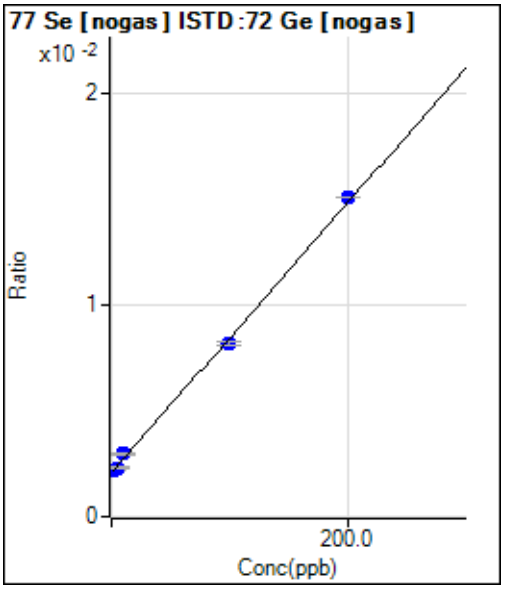
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	165.56	0.0003	P	14.7	
2	☐	2.000	2.058	1842.35	0.0033	P	4.3	2.9
3	☐	5.000	4.938	4191.72	0.0075	P	4.4	-1.2
4	☐	10.000	9.816	8071.12	0.0146	P	3.1	-1.8
5	☐	100.000	100.663	82873.49	0.1471	P	0.3	0.7
6	☐	200.000	199.679	161142.07	0.2916	P	0.9	-0.2
7	☐	1.000						

y = 0.0015 * x + 2.9844E-004
R = 1.0000
DL = 0.09042 ppb
BEC = 0.2046 ppb

Weight: <None>
Min Conc: <None>

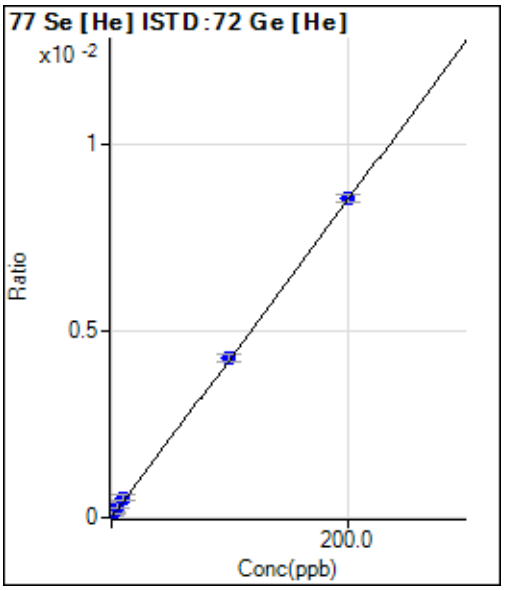


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4307.37	0.0022	P	8.8	
2	☐	2.000	0.051	4347.37	0.0022	P	2.2	-97.5
3	☐	5.000	2.028	4564.12	0.0023	P	5.8	-59.4
4	☐	10.000	12.407	5804.60	0.0030	P	2.2	24.1
5	☐	100.000	94.133	16262.50	0.0082	P	1.7	-5.9
6	☐	200.000	202.907	29760.16	0.0151	P	0.3	1.5
7	☐	1.000						

y = 6.3563E-005 * x + 0.0022
R = 0.9992
DL = 8.985 ppb
BEC = 34.2 ppb

Weight: <None>
Min Conc: <None>

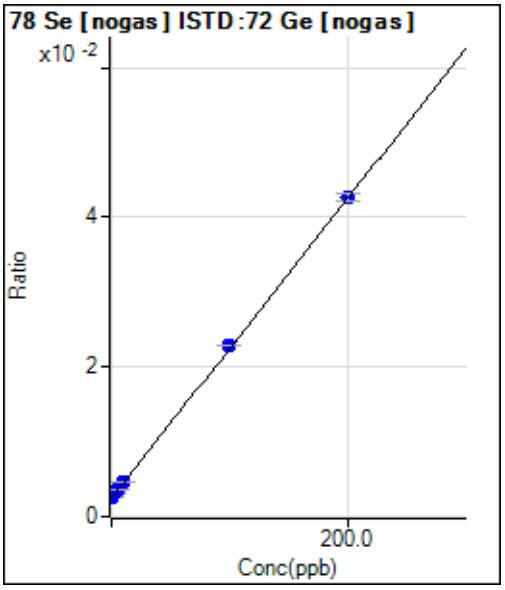
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	66.4	
2	☐	2.000	2.236	76.67	0.0001	P	52.5	11.8
3	☐	5.000	6.315	173.34	0.0003	P	50.2	26.3
4	☐	10.000	11.488	293.34	0.0005	P	31.7	14.9
5	☐	100.000	99.744	2413.58	0.0043	P	4.7	-0.3
6	☐	200.000	200.018	4724.19	0.0085	P	1.9	0.0
7	☐	1.000						

y = 4.2531E-005 * x + 4.2161E-005
R = 1.0000
DL = 1.976 ppb
BEC = 0.9913 ppb

Weight: <None>
Min Conc: <None>

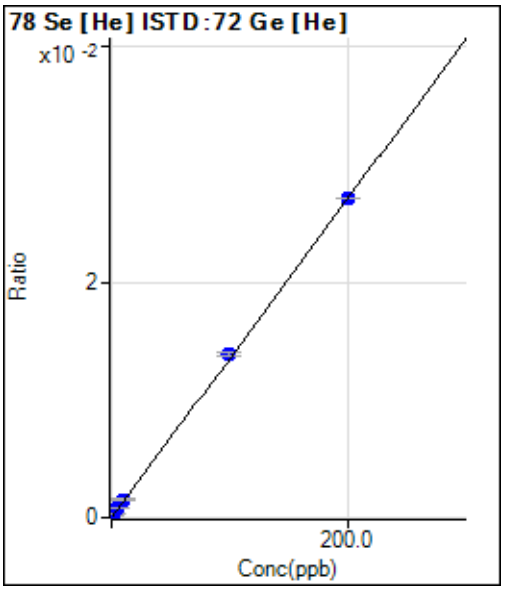


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5347.73	0.0027	P	5.6	
2	☐	2.000	2.494	6388.14	0.0032	P	4.3	24.7
3	☐	5.000	4.688	7208.57	0.0036	P	3.9	-6.2
4	☐	10.000	9.721	9102.96	0.0046	P	3.1	-2.8
5	☐	100.000	100.909	45663.76	0.0229	P	0.5	0.9
6	☐	200.000	199.562	84265.31	0.0427	P	2.0	-0.2
7	☐	1.000						

y = 2.0031E-004 * x + 0.0027
R = 1.0000
DL = 2.243 ppb
BEC = 13.47 ppb

Weight: <None>
Min Conc: <None>

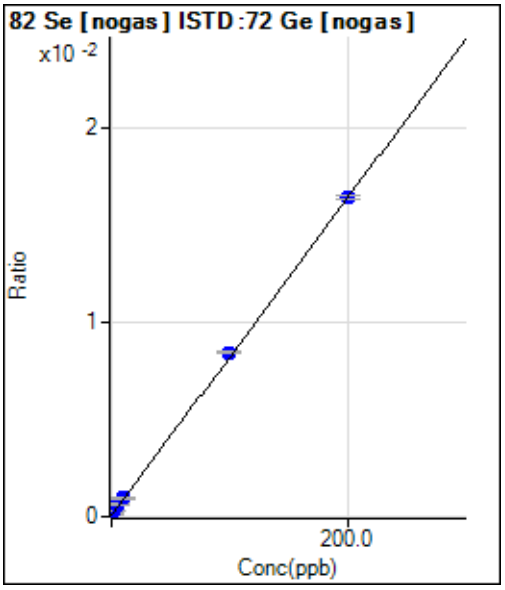
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	74.67	0.0001	P	14.2	
2	☐	2.000	1.589	195.33	0.0003	P	8.5	-20.5
3	☐	5.000	4.563	420.68	0.0008	P	4.1	-8.7
4	☐	10.000	10.168	834.70	0.0015	P	6.5	1.7
5	☐	100.000	101.749	7838.75	0.0139	P	2.6	1.7
6	☐	200.000	199.132	14981.56	0.0271	P	0.2	-0.4
7	☐	1.000						

y = 1.3546E-004 * x + 1.3457E-004
R = 0.9999
DL = 0.4246 ppb
BEC = 0.9935 ppb

Weight: <None>
Min Conc: <None>

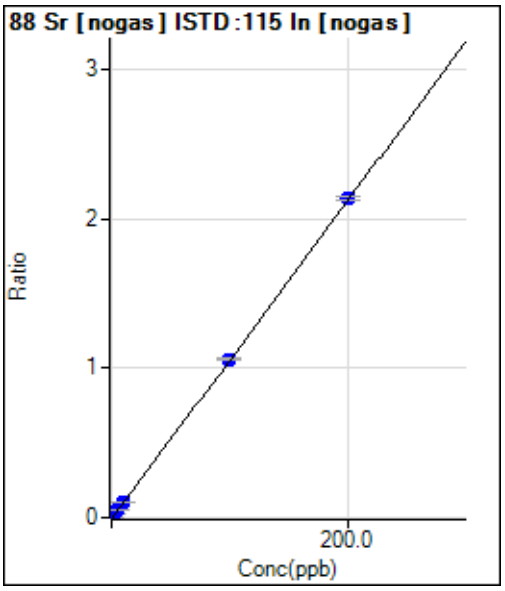


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	280.01	0.0001	P	17.5	
2	☐	2.000	2.083	623.36	0.0003	P	14.8	4.2
3	☐	5.000	5.758	1213.41	0.0006	P	14.5	15.2
4	☐	10.000	10.078	1893.49	0.0010	P	6.2	0.8
5	☐	100.000	101.441	16819.73	0.0084	P	1.5	1.4
6	☐	200.000	199.256	32465.89	0.0164	P	1.6	-0.4
7	☐	1.000						

y = 8.1812E-005 * x + 1.4143E-004
R = 1.0000
DL = 0.9067 ppb
BEC = 1.729 ppb

Weight: <None>
Min Conc: <None>

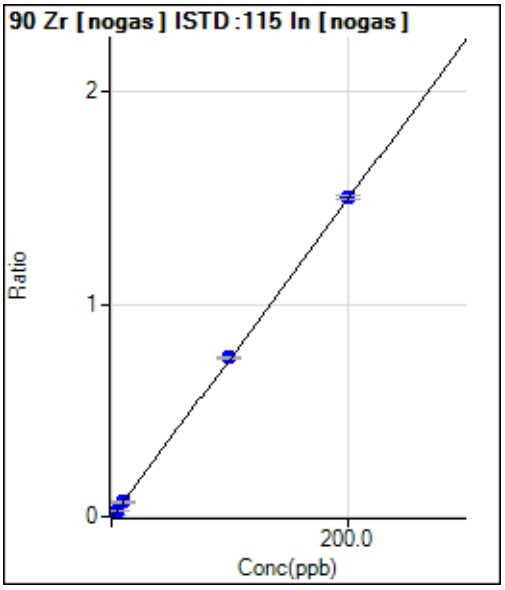
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1416.76	0.0007	P	16.2	
2	☐	2.000	1.910	45798.22	0.0211	P	0.9	-4.5
3	☐	5.000	4.590	107073.38	0.0497	P	1.9	-8.2
4	☐	10.000	9.594	221389.04	0.1032	P	1.6	-4.1
5	☐	100.000	99.193	2292815.17	1.0603	P	0.9	-0.8
6	☐	200.000	200.435	4525561.29	2.1418	P	0.8	0.2
7	☐	1.000						

y = 0.0107 * x + 6.6425E-004
R = 1.0000
DL = 0.03029 ppb
BEC = 0.06218 ppb

Weight: <None>
Min Conc: <None>

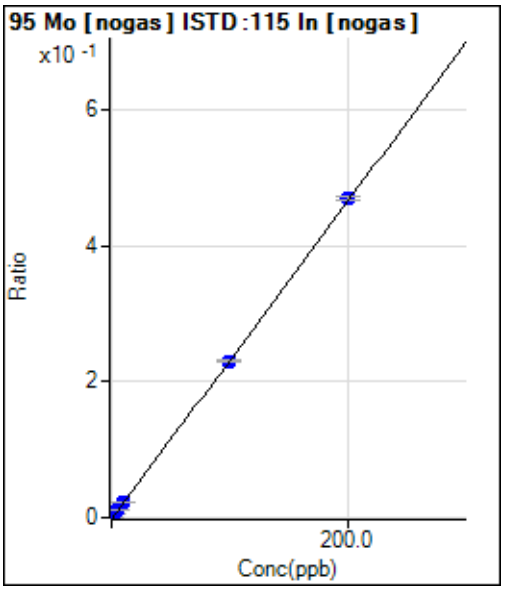


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1413.43	0.0007	P	11.1	
2	☐	2.000	1.433	24801.28	0.0114	P	3.8	-28.4
3	☐	5.000	3.959	65375.31	0.0303	P	3.2	-20.8
4	☐	10.000	9.044	146960.32	0.0685	P	1.9	-9.6
5	☐	100.000	99.577	1615731.64	0.7472	P	0.6	-0.4
6	☐	200.000	200.291	3174006.93	1.5023	P	1.8	0.1
7	☐	1.000						

y = 0.0075 * x + 6.6256E-004
R = 1.0000
DL = 0.02944 ppb
BEC = 0.08837 ppb

Weight: <None>
Min Conc: <None>

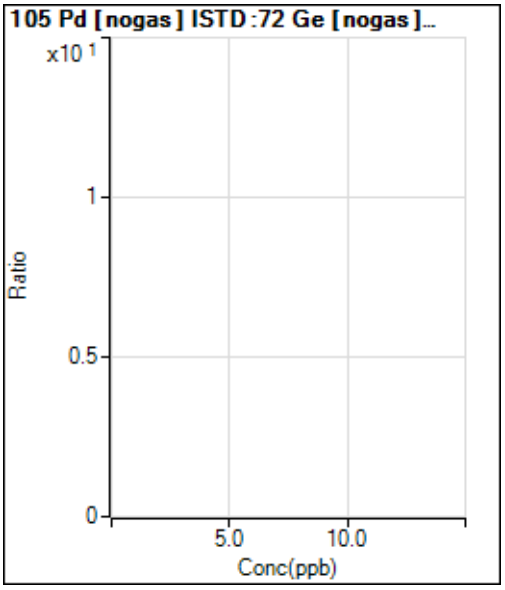
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0001	P	14.3	
2	☐	2.000	1.860	9740.03	0.0045	P	0.5	-7.0
3	☐	5.000	4.413	22540.97	0.0105	P	6.5	-11.7
4	☐	10.000	9.413	47604.06	0.0222	P	3.1	-5.9
5	☐	100.000	98.325	498449.78	0.2305	P	1.1	-1.7
6	☐	200.000	200.883	994821.18	0.4708	P	1.0	0.4
7	☐	1.000						

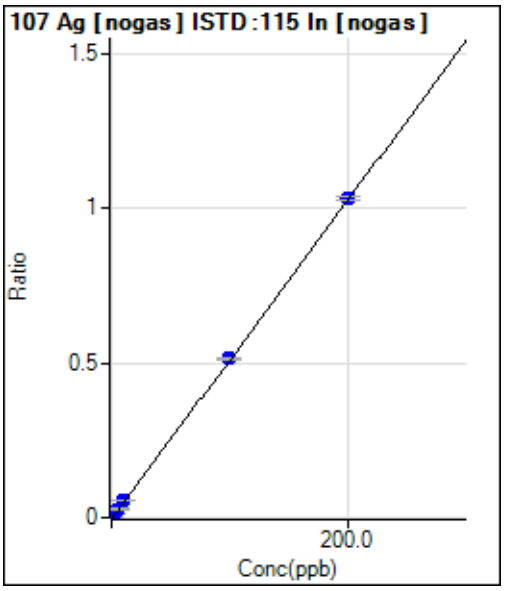
y = 0.0023 * x + 1.2186E-004
R = 1.0000
DL = 0.02238 ppb
BEC = 0.052 ppb

Weight: <None>
Min Conc: <None>



	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						

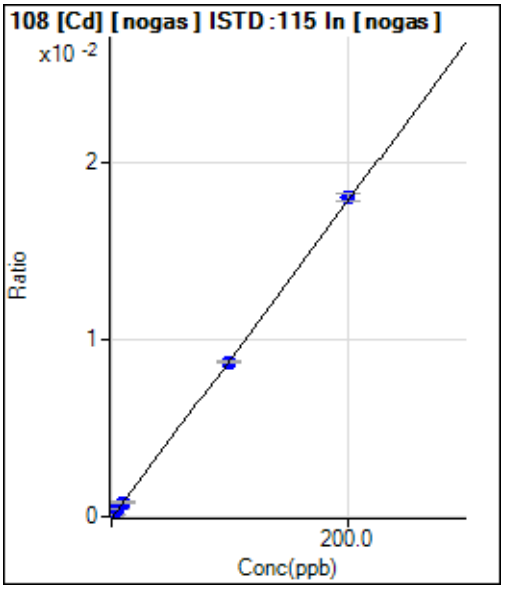
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70.00	0.0000	P	15.2	
2	☐	2.000	2.260	25399.12	0.0117	P	1.9	13.0
3	☐	5.000	5.362	59632.30	0.0277	P	4.5	7.2
4	☐	10.000	11.082	122687.09	0.0572	P	1.2	10.8
5	☐	100.000	99.501	1109261.67	0.5130	P	0.5	-0.5
6	☐	200.000	200.184	2180558.30	1.0320	P	0.7	0.1
7	☐	1.000						

y = 0.0052 * x + 3.2828E-005
R = 1.0000
DL = 0.00291 ppb
BEC = 0.006368 ppb

Weight: <None>
Min Conc: <None>

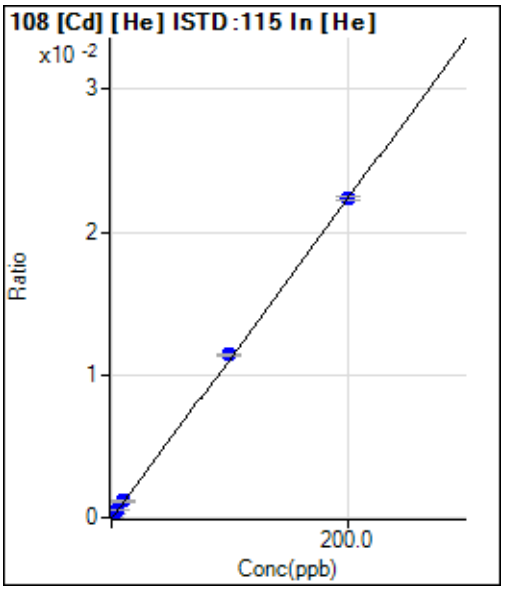


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.542	303.34	0.0001	P	17.2	-22.9
3	☐	5.000	4.673	903.38	0.0004	P	10.5	-6.5
4	☐	10.000	9.070	1743.47	0.0008	P	4.1	-9.3
5	☐	100.000	97.311	18815.74	0.0087	P	1.1	-2.7
6	☐	200.000	201.404	38043.53	0.0180	P	2.4	0.7
7	☐	1.000						

y = 8.9402E-005 * x + 1.5422E-006
R = 0.9999
DL = 0.08963 ppb
BEC = 0.01725 ppb

Weight: <None>
Min Conc: <None>

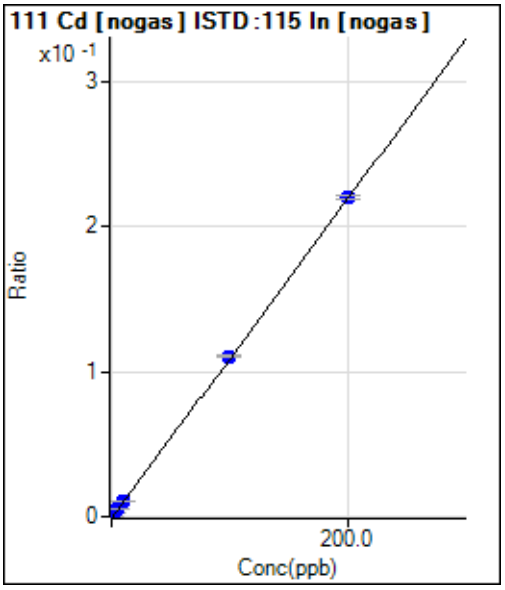
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	124.9	
2	☐	2.000	1.935	193.34	0.0002	P	8.3	-3.3
3	☐	5.000	4.668	443.35	0.0005	P	5.3	-6.6
4	☐	10.000	10.035	933.38	0.0011	P	6.2	0.3
5	☐	100.000	101.614	9263.12	0.0114	P	0.8	1.6
6	☐	200.000	199.200	17634.24	0.0224	P	1.7	-0.4
7	☐	1.000						

y = 1.1214E-004 * x + 2.0623E-005
R = 1.0000
DL = 0.6888 ppb
BEC = 0.1839 ppb

Weight: <None>
Min Conc: <None>

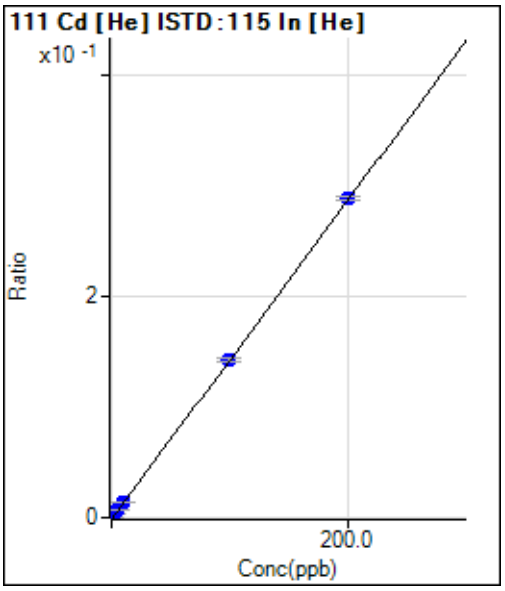


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.09	0.0000	P	91.3	
2	☐	2.000	1.958	4698.80	0.0022	P	1.5	-2.1
3	☐	5.000	4.727	11222.69	0.0052	P	3.2	-5.5
4	☐	10.000	9.748	23040.89	0.0107	P	1.2	-2.5
5	☐	100.000	100.231	238552.62	0.1103	P	0.7	0.2
6	☐	200.000	199.904	464940.00	0.2200	P	0.6	0.0
7	☐	1.000						

y = 0.0011 * x + 6.1735E-006
R = 1.0000
DL = 0.01537 ppb
BEC = 0.005609 ppb

Weight: <None>
Min Conc: <None>

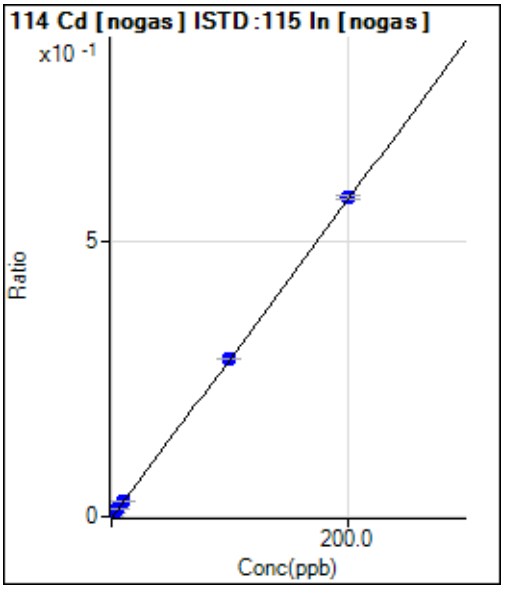
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-17.88	0.0000	P	-124.9	
2	☐	2.000	2.001	2329.47	0.0029	P	5.8	0.0
3	☐	5.000	4.721	5528.97	0.0068	P	3.4	-5.6
4	☐	10.000	9.430	11053.66	0.0136	P	2.4	-5.7
5	☐	100.000	99.463	116323.33	0.1434	P	2.4	-0.5
6	☐	200.000	200.304	227747.17	0.2888	P	1.3	0.2
7	☐	1.000						

y = 0.0014 * x - 2.2128E-005
R = 1.0000
DL = 0.05748 ppb
BEC = -0.01535 ppb

Weight: <None>
Min Conc: <None>

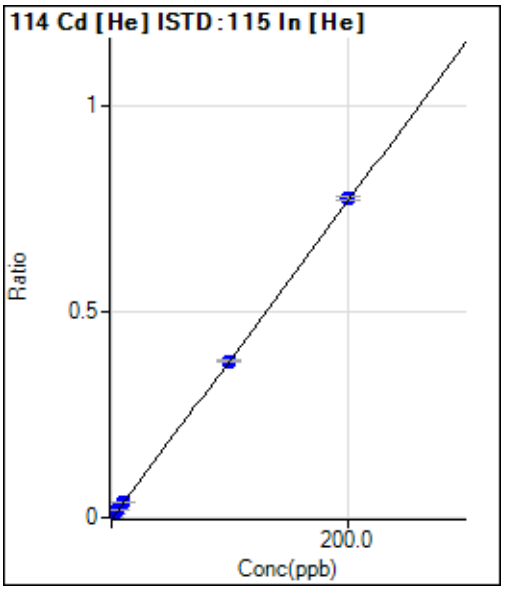


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83.33	0.0000	P	34.2	
2	☐	2.000	1.953	12332.15	0.0057	P	3.2	-2.4
3	☐	5.000	4.602	28692.07	0.0133	P	1.0	-8.0
4	☐	10.000	9.743	60416.19	0.0281	P	1.0	-2.6
5	☐	100.000	98.672	615706.94	0.2847	P	0.2	-1.3
6	☐	200.000	200.687	1223641.67	0.5791	P	1.1	0.3
7	☐	1.000						

y = 0.0029 * x + 3.8986E-005
R = 1.0000
DL = 0.01386 ppb
BEC = 0.01351 ppb

Weight: <None>
Min Conc: <None>

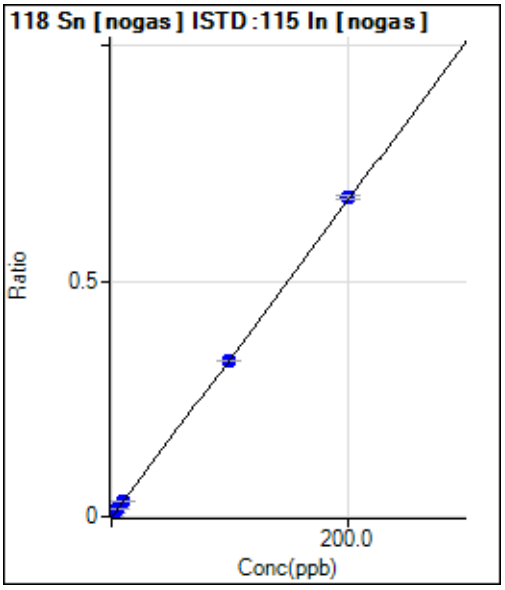
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	49.4	
2	☐	2.000	1.894	5981.36	0.0073	P	0.6	-5.3
3	☐	5.000	4.665	14691.01	0.0180	P	1.7	-6.7
4	☐	10.000	9.667	30378.77	0.0373	P	0.7	-3.3
5	☐	100.000	98.267	307294.33	0.3788	P	1.3	-1.7
6	☐	200.000	200.893	610615.58	0.7743	P	0.7	0.4
7	☐	1.000						

y = 0.0039 * x + 4.9653E-005
R = 0.9999
DL = 0.01908 ppb
BEC = 0.01288 ppb

Weight: <None>
Min Conc: <None>

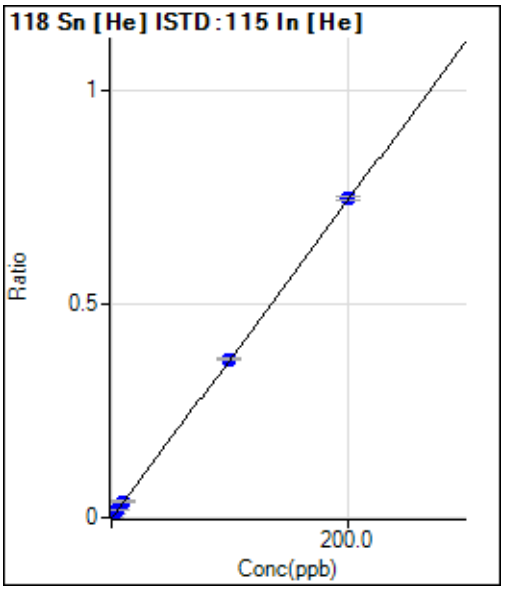


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3197.08	0.0015	P	10.7	
2	☐	2.000	1.860	16856.79	0.0078	P	2.4	-7.0
3	☐	5.000	4.556	36242.50	0.0168	P	2.7	-8.9
4	☐	10.000	9.550	72140.29	0.0336	P	2.1	-4.5
5	☐	100.000	97.969	715614.86	0.3309	P	0.2	-2.0
6	☐	200.000	201.050	1431688.83	0.6776	P	1.0	0.5
7	☐	1.000						

y = 0.0034 * x + 0.0015
R = 0.9999
DL = 0.1429 ppb
BEC = 0.4458 ppb

Weight: <None>
Min Conc: <None>

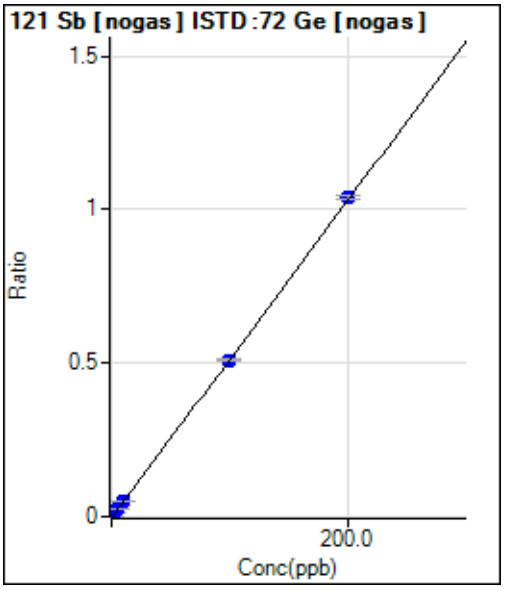
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1450.10	0.0018	P	4.8	
2	☐	2.000	1.834	7021.84	0.0086	P	5.1	-8.3
3	☐	5.000	4.452	14967.95	0.0184	P	1.9	-11.0
4	☐	10.000	9.764	31047.20	0.0381	P	0.9	-2.4
5	☐	100.000	99.323	301194.14	0.3713	P	1.8	-0.7
6	☐	200.000	200.366	589207.28	0.7471	P	0.7	0.2
7	☐	1.000						

y = 0.0037 * x + 0.0018
R = 1.0000
DL = 0.06965 ppb
BEC = 0.4854 ppb

Weight: <None>
Min Conc: <None>

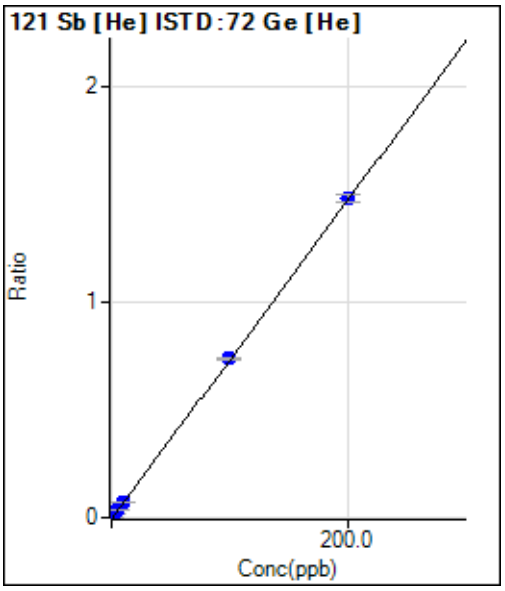


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1093.39	0.0006	P	5.2	
2	☐	2.000	1.958	21332.82	0.0107	P	2.6	-2.1
3	☐	5.000	4.549	47735.90	0.0241	P	5.0	-9.0
4	☐	10.000	9.580	98223.14	0.0501	P	0.6	-4.2
5	☐	100.000	98.195	1013632.54	0.5087	P	1.4	-1.8
6	☐	200.000	200.935	2054123.77	1.0403	P	1.0	0.5
7	☐	1.000						

y = 0.0052 * x + 5.5146E-004
R = 0.9999
DL = 0.01662 ppb
BEC = 0.1066 ppb

Weight: <None>
Min Conc: <None>

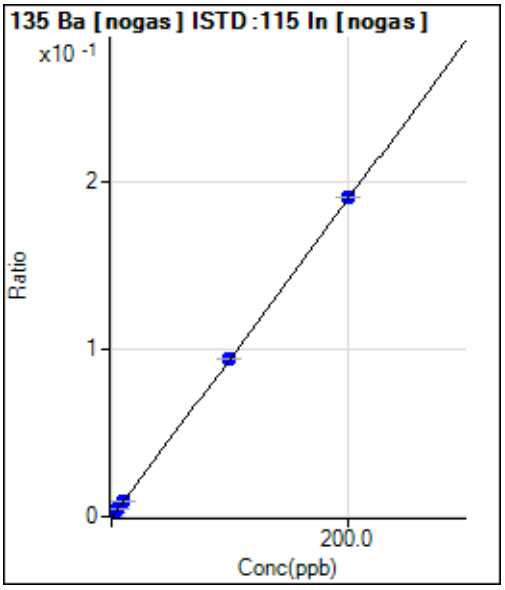
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	510.02	0.0009	P	7.4	
2	☐	2.000	1.909	8382.56	0.0150	P	4.0	-4.5
3	☐	5.000	4.677	19817.31	0.0355	P	1.5	-6.5
4	☐	10.000	9.941	41038.61	0.0743	P	2.8	-0.6
5	☐	100.000	99.593	414661.44	0.7363	P	1.0	-0.4
6	☐	200.000	200.215	817432.70	1.4793	P	1.9	0.1
7	☐	1.000						

y = 0.0074 * x + 9.1857E-004
R = 1.0000
DL = 0.02763 ppb
BEC = 0.1244 ppb

Weight: <None>
Min Conc: <None>

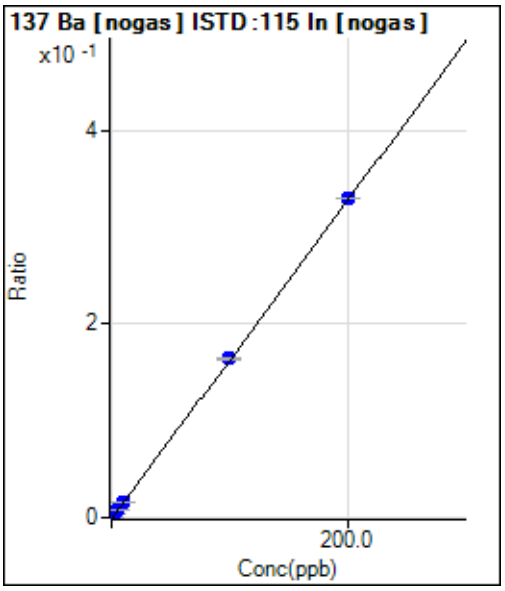


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	213.34	0.0001	P	27.4	
2	☐	2.000	1.922	4200.69	0.0019	P	3.1	-3.9
3	☐	5.000	4.688	9843.55	0.0046	P	2.7	-6.2
4	☐	10.000	9.801	20261.35	0.0094	P	1.7	-2.0
5	☐	100.000	99.158	204565.45	0.0946	P	0.4	-0.8
6	☐	200.000	200.440	403861.40	0.1911	P	0.6	0.2
7	☐	1.000						

y = 9.5310E-004 * x + 9.9800E-005
R = 1.0000
DL = 0.08613 ppb
BEC = 0.1047 ppb

Weight: <None>
Min Conc: <None>

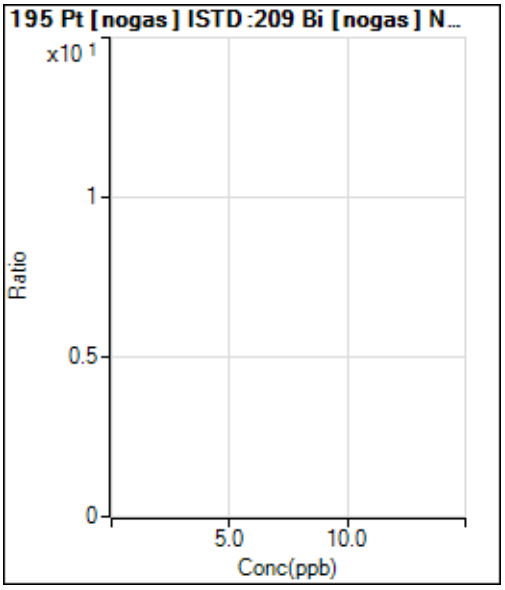
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	430.02	0.0002	P	16.1	
2	☐	2.000	2.012	7645.49	0.0035	P	1.9	0.6
3	☐	5.000	4.818	17541.04	0.0081	P	1.4	-3.6
4	☐	10.000	9.592	34358.39	0.0160	P	0.3	-4.1
5	☐	100.000	99.510	355045.10	0.1642	P	0.3	-0.5
6	☐	200.000	200.270	697760.67	0.3302	P	0.5	0.1
7	☐	1.000						

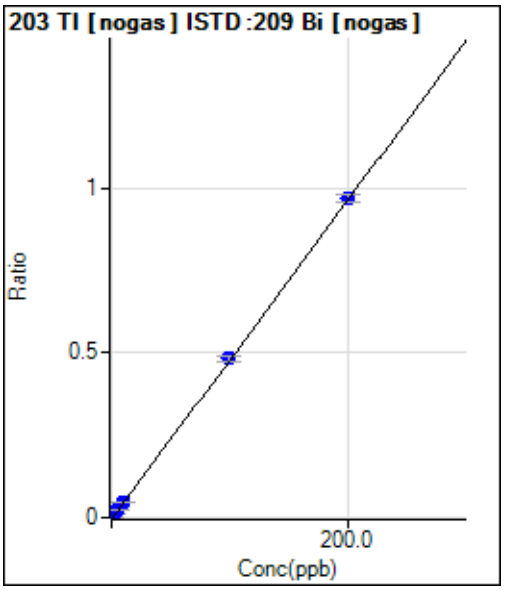
y = 0.0016 * x + 2.0131E-004
R = 1.0000
DL = 0.05897 ppb
BEC = 0.1222 ppb

Weight: <None>
Min Conc: <None>



	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						

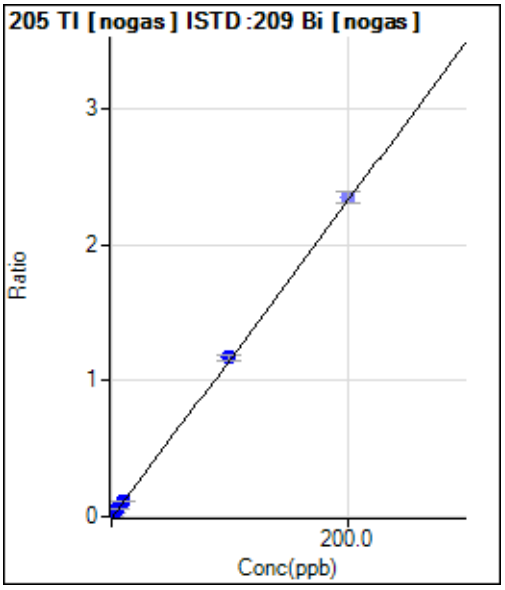
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0000	P	48.3	
2	☐	2.000	1.860	17878.61	0.0090	P	2.2	-7.0
3	☐	5.000	4.637	44262.01	0.0225	P	4.2	-7.3
4	☐	10.000	9.454	90189.84	0.0458	P	3.1	-5.5
5	☐	100.000	99.607	935578.94	0.4820	P	3.3	-0.4
6	☐	200.000	200.234	1857620.91	0.9689	P	2.9	0.1
7	☐	1.000						

y = 0.0048 * x + 3.3388E-005
R = 1.0000
DL = 0.009994 ppb
BEC = 0.0069 ppb

Weight: <None>
Min Conc: <None>

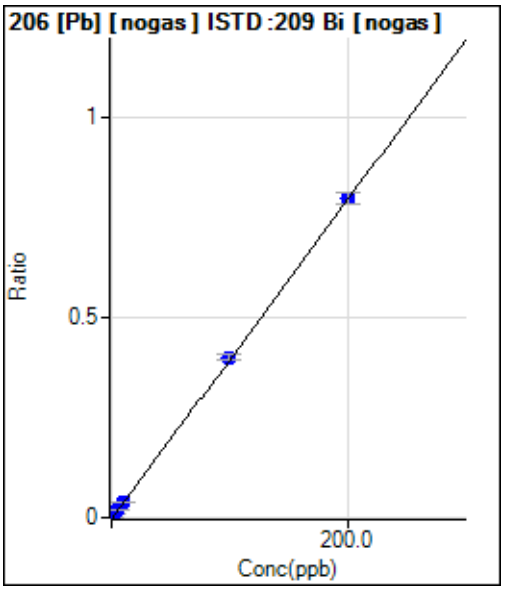


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203.34	0.0001	P	11.0	
2	☐	2.000	1.829	42499.46	0.0215	P	1.3	-8.6
3	☐	5.000	4.623	106634.03	0.0541	P	2.5	-7.5
4	☐	10.000	9.396	216509.41	0.1099	P	3.4	-6.0
5	☐	100.000	100.083	2270385.49	1.1696	P	3.2	0.1
6	☑	200.000		4509075.97	2.3519	P	3.2	
7	☐	1.000						

y = 0.0117 * x + 1.0180E-004
R = 1.0000
DL = 0.002883 ppb
BEC = 0.008711 ppb

Weight: <None>
Min Conc: <None>

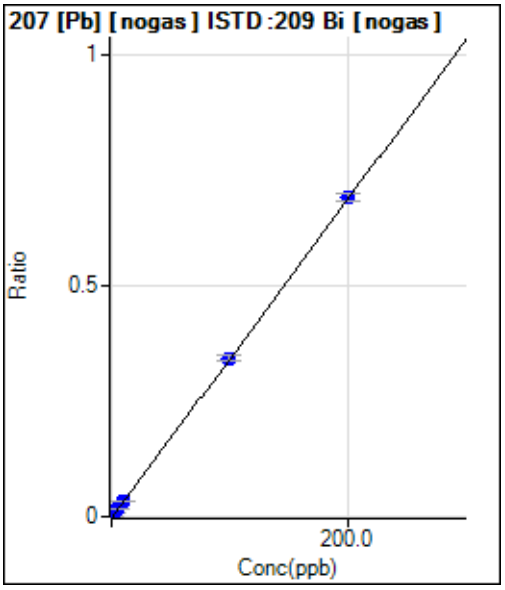
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0002	P	31.3	
2	☐	2.000	1.936	15609.16	0.0079	P	1.6	-3.2
3	☐	5.000	4.710	37368.01	0.0190	P	2.3	-5.8
4	☐	10.000	9.635	76146.06	0.0386	P	1.2	-3.7
5	☐	100.000	100.421	779006.76	0.4013	P	2.7	0.4
6	☐	200.000	199.816	1530640.97	0.7984	P	3.1	-0.1
7	☐	1.000						

y = 0.0040 * x + 1.5003E-004
R = 1.0000
DL = 0.03526 ppb
BEC = 0.03756 ppb

Weight: <None>
Min Conc: <None>

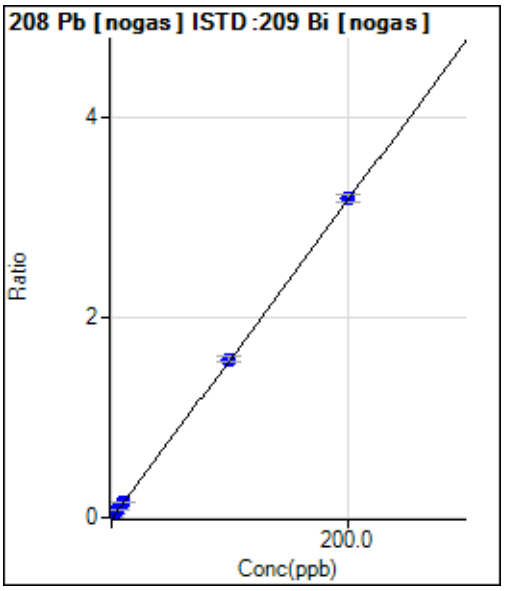


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0002	P	22.0	
2	☐	2.000	1.928	13520.22	0.0068	P	4.6	-3.6
3	☐	5.000	4.642	31897.68	0.0162	P	3.4	-7.2
4	☐	10.000	9.516	65014.78	0.0330	P	2.6	-4.8
5	☐	100.000	99.496	666311.53	0.3432	P	2.9	-0.5
6	☐	200.000	200.286	1324416.20	0.6908	P	2.8	0.1
7	☐	1.000						

y = 0.0034 * x + 1.8507E-004
R = 1.0000
DL = 0.03535 ppb
BEC = 0.05367 ppb

Weight: <None>
Min Conc: <None>

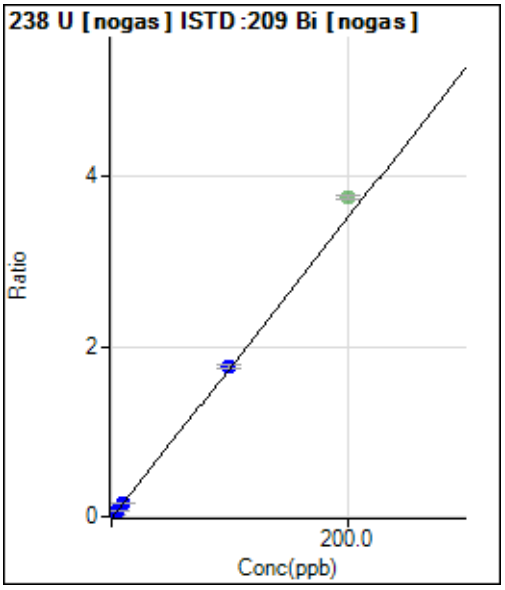
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1466.73	0.0007	P	8.4	
2	☐	2.000	1.925	62169.81	0.0314	P	2.5	-3.7
3	☐	5.000	4.643	147198.54	0.0747	P	2.8	-7.1
4	☐	10.000	9.564	301722.54	0.1531	P	2.2	-4.4
5	☐	100.000	99.492	3078833.00	1.5860	P	2.5	-0.5
6	☐	200.000	200.285	6120024.62	3.1921	P	2.9	0.1
7	☐	1.000						

y = 0.0159 * x + 7.3447E-004
R = 1.0000
DL = 0.0116 ppb
BEC = 0.04609 ppb

Weight: <None>
Min Conc: <None>

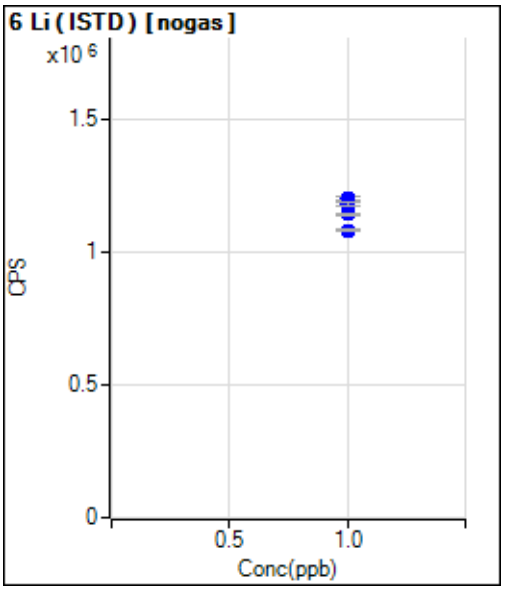


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	343.34	0.0002	P	7.4	
2	☐	2.000	1.847	64924.54	0.0328	P	3.4	-7.6
3	☐	5.000	4.414	153934.20	0.0781	P	2.3	-11.7
4	☐	10.000	9.358	325971.88	0.1655	P	3.0	-6.4
5	☐	100.000	100.097	3432208.07	1.7681	P	2.9	0.1
6	☑	200.000		7201468.64	3.7555	A	1.4	
7	☐	1.000						

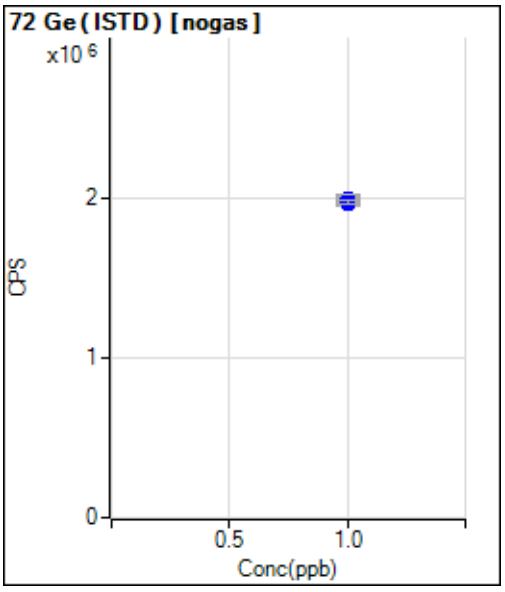
y = 0.0177 * x + 1.7207E-004
R = 1.0000
DL = 0.002159 ppb
BEC = 0.009742 ppb

Weight: <None>
Min Conc: <None>

Calibration for 018_ICV.d

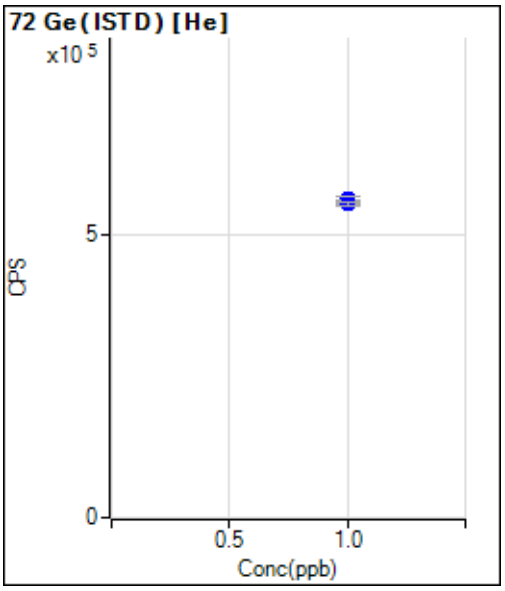


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1203227.74		P	0.8	
2	☐	1.000		1193508.93		P	0.6	
3	☐	1.000		1191395.91		P	0.9	
4	☐	1.000		1180471.97		P	1.2	
5	☐	1.000		1142066.80		P	0.9	
6	☐	1.000		1081711.07		P	0.5	
7	☐	1.000						

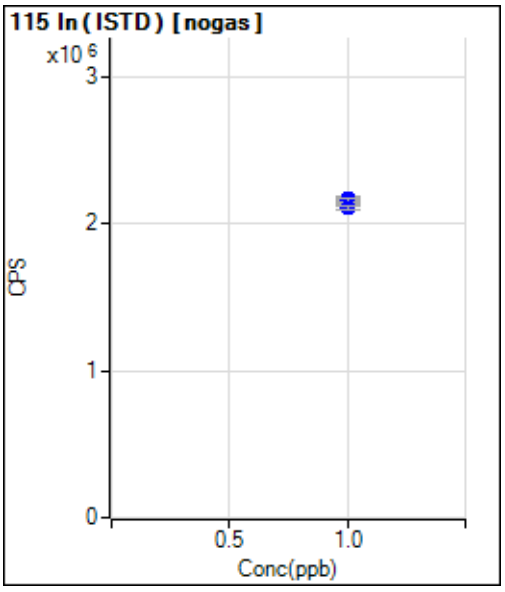


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1982231.74		P	1.2	
2	☐	1.000		1996595.18		P	1.1	
3	☐	1.000		1981613.57		P	0.4	
4	☐	1.000		1959499.40		P	1.1	
5	☐	1.000		1993151.17		P	2.4	
6	☐	1.000		1974624.14		P	1.3	
7	☐	1.000						

Calibration for 018_ICV.d

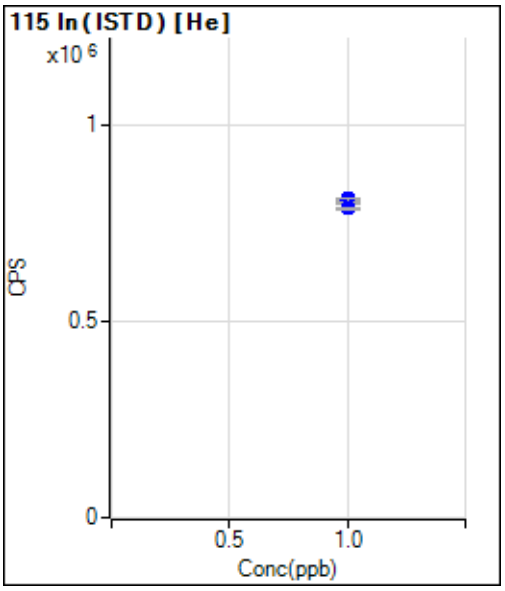


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		555354.84		P	1.1	
2	☐	1.000		558225.14		P	0.3	
3	☐	1.000		558866.96		P	0.6	
4	☐	1.000		552184.09		P	0.6	
5	☐	1.000		563184.17		P	1.0	
6	☐	1.000		552656.27		P	1.3	
7	☐	1.000						

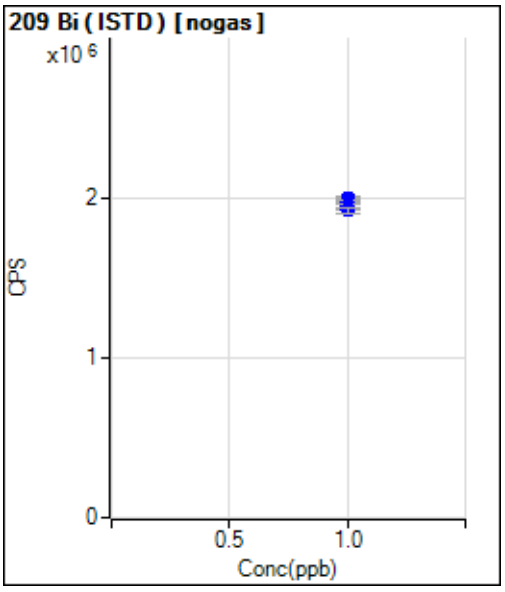


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2134542.14		P	1.1	
2	☐	1.000		2173965.33		P	1.0	
3	☐	1.000		2154782.79		P	0.6	
4	☐	1.000		2146212.30		P	0.6	
5	☐	1.000		2162352.09		P	1.6	
6	☐	1.000		2112971.74		P	1.0	
7	☐	1.000						

Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		803215.99		P	1.0	
2	☐	1.000		813832.25		P	0.5	
3	☐	1.000		814931.63		P	0.3	
4	☐	1.000		814303.97		P	0.6	
5	☐	1.000		811383.27		P	1.4	
6	☐	1.000		788653.90		P	0.8	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1995496.43		P	1.4	
2	☐	1.000		1979649.71		P	1.0	
3	☐	1.000		1970568.15		P	1.1	
4	☐	1.000		1970733.30		P	1.6	
5	☐	1.000		1941631.12		P	1.4	
6	☐	1.000		1917907.31		P	1.8	
7	☐	1.000						

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	011CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T10:00:17-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	55	75.75
B	11	1	nogas	27875	0.01
Al	27	1	nogas	83060	0.00
P	31	1	nogas	35592	0.01
Ti	47	1	nogas	177	16.13
Ni	60	1	nogas	827	1.62
Cu	63	1	nogas	2174	0.41
Zn	66	1	nogas	2387	0.17
Se	77	1	nogas	4307	0.19
Se	82	1	nogas	280	5.84
Sr	88	1	nogas	1417	1.09
Mo	95	1	nogas	260	5.33
Ag	107	1	nogas	70	20.41
Cd	111	1	nogas	13	698.49
Sn	118	1	nogas	3197	0.30
Sb	121	1	nogas	1093	0.54
Ba	137	1	nogas	430	3.90
Tl	205	1	nogas	203	6.09
Pb	208	1	nogas	1467	0.67
Li	7	1	nogas	89539	0.00
Na	23	2	He	55118	0.00
Mg	24	2	He	1827	0.33
Al	27	2	He	3047	0.20
K	39	2	He	80941	0.00
Ca	43	2	He	80	46.88
Ca	44	2	He	2380	0.43
V	51	2	He	2427	0.84
Cr	52	2	He	8826	0.02
Mn	55	2	He	1187	0.41
Fe	56	2	He	19880	0.01
Co	59	2	He	210	6.00
Ni	60	2	He	297	5.37
Cu	63	2	He	747	0.58
Zn	66	2	He	787	0.73
As	75	2	He	166	8.28
Sb	121	2	He	510	1.39
Se	78	2	He	75	17.70

Calibration Blank Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Ge	72	1	nogas	1982232	1.20
In	115	1	nogas	2134542	1.10

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	nogas	1203228	0.76
Bi	209	1	nogas	1995496	1.35
Ge	72	2	He	555355	1.15
In	115	2	He	803216	1.00

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T10:02:24-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	011CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	11089	0.04
B	11	1	nogas	59962	0.00
Al	27	1	nogas	95059	0.00
P	31	1	nogas	36648	0.01
Ti	47	1	nogas	3017	0.04
Ni	60	1	nogas	9163	0.03
Cu	63	1	nogas	22137	0.01
Zn	66	1	nogas	8663	0.04
Se	77	1	nogas	4347	0.06
Se	82	1	nogas	623	2.54
Sr	88	1	nogas	45798	0.00
Mo	95	1	nogas	9740	0.01
Ag	107	1	nogas	25399	0.01
Cd	111	1	nogas	4699	0.05
Sn	118	1	nogas	16857	0.02
Sb	121	1	nogas	21333	0.02
Ba	137	1	nogas	7645	0.04
Tl	205	1	nogas	42499	0.00
Pb	208	1	nogas	62170	0.00
Na	23	2	He	356189	0.00
Mg	24	2	He	173481	0.00
Al	27	2	He	3744	0.13
K	39	2	He	254018	0.00
Ca	43	2	He	540	2.99
Ca	44	2	He	10274	0.04
V	51	2	He	12341	0.02
Cr	52	2	He	19536	0.00
Mn	55	2	He	9556	0.02
Fe	56	2	He	1075911	0.00
Co	59	2	He	16159	0.02
Ni	60	2	He	4151	0.21
Cu	63	2	He	10791	0.01
Zn	66	2	He	3027	0.10
As	75	2	He	1842	0.23
Sb	121	2	He	8383	0.05
Se	78	2	He	195	4.46

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	1996595	1.14	1982232	100.72	70	120	
In	115	1	nogas	2173965	1.05	2134542	101.85	70	120	
Li	6	1	nogas	1193509	0.60	1203228	99.19	70	120	
Bi	209	1	nogas	1979650	1.01	1995496	99.21	70	120	
Ge	72	2	He	558225	0.31	555355	100.52	70	120	
In	115	2	He	813832	0.49	803216	101.32	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T10:04:34-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	011CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	26377	0.01
B	11	1	nogas	108079	0.00
Al	27	1	nogas	140466	0.00
P	31	1	nogas	37162	0.01
Ti	47	1	nogas	6655	0.01
Ni	60	1	nogas	21319	0.01
Cu	63	1	nogas	51107	0.00
Zn	66	1	nogas	17350	0.02
Se	77	1	nogas	4564	0.13
Se	82	1	nogas	1213	1.17
Sr	88	1	nogas	107073	0.00
Mo	95	1	nogas	22541	0.03
Ag	107	1	nogas	59632	0.01
Cd	111	1	nogas	11223	0.02
Sn	118	1	nogas	36242	0.01
Sb	121	1	nogas	47736	0.01
Ba	137	1	nogas	17541	0.01
Tl	205	1	nogas	106634	0.00
Pb	208	1	nogas	147199	0.00
Na	23	2	He	784430	0.00
Mg	24	2	He	416342	0.00
Al	27	2	He	5198	0.04
K	39	2	He	496701	0.00
Ca	43	2	He	1223	0.44
Ca	44	2	He	21996	0.00
V	51	2	He	27314	0.02
Cr	52	2	He	36658	0.00
Mn	55	2	He	22334	0.02
Fe	56	2	He	2600928	0.00
Co	59	2	He	38760	0.01
Ni	60	2	He	10280	0.05
Cu	63	2	He	26490	0.01
Zn	66	2	He	6602	0.02
As	75	2	He	4192	0.09
Sb	121	2	He	19817	0.01
Se	78	2	He	421	1.11

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	1981614	0.40	1982232	99.97	70	120	
In	115	1	nogas	2154783	0.65	2134542	100.95	70	120	
Li	6	1	nogas	1191396	0.87	1203228	99.02	70	120	
Bi	209	1	nogas	1970568	1.10	1995496	98.75	70	120	
Ge	72	2	He	558867	0.60	555355	100.63	70	120	
In	115	2	He	814932	0.30	803216	101.46	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/1000
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T10:06:43-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	011CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	54115	0.00
B	11	1	nogas	194876	0.00
Al	27	1	nogas	208267	0.00
P	31	1	nogas	41456	0.00
Ti	47	1	nogas	14123	0.01
Ni	60	1	nogas	42163	0.01
Cu	63	1	nogas	103150	0.00
Zn	66	1	nogas	31273	0.01
Se	77	1	nogas	5805	0.02
Se	82	1	nogas	1893	0.38
Sr	88	1	nogas	221389	0.00
Mo	95	1	nogas	47604	0.01
Ag	107	1	nogas	122687	0.00
Cd	111	1	nogas	23041	0.01
Sn	118	1	nogas	72140	0.00
Sb	121	1	nogas	98223	0.00
Ba	137	1	nogas	34358	0.00
Tl	205	1	nogas	216509	0.00
Pb	208	1	nogas	301723	0.00
Na	23	2	He	1555658	0.00
Mg	24	2	He	849341	0.00
Al	27	2	He	7929	0.02
K	39	2	He	937404	0.00
Ca	43	2	He	2430	0.41
Ca	44	2	He	42159	0.00
V	51	2	He	52728	0.00
Cr	52	2	He	68676	0.00
Mn	55	2	He	44814	0.00
Fe	56	2	He	5694707	0.00
Co	59	2	He	79043	0.00
Ni	60	2	He	20347	0.01
Cu	63	2	He	53205	0.00
Zn	66	2	He	11458	0.02
As	75	2	He	8071	0.03
Sb	121	2	He	41039	0.01
Se	78	2	He	835	0.73

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	1959499	1.07	1982232	98.85	70	120	
In	115	1	nogas	2146212	0.61	2134542	100.55	70	120	
Li	6	1	nogas	1180472	1.19	1203228	98.11	70	120	
Bi	209	1	nogas	1970733	1.61	1995496	98.76	70	120	
Ge	72	2	He	552184	0.60	555355	99.43	70	120	
In	115	2	He	814304	0.63	803216	101.38	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T10:08:50-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	011CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	566689	0.00
B	11	1	nogas	1776223	0.00
Al	27	1	nogas	1585060	0.00
P	31	1	nogas	86523	0.00
Ti	47	1	nogas	145331	0.00
Ni	60	1	nogas	436862	0.00
Cu	63	1	nogas	1026766	0.00
Zn	66	1	nogas	301462	0.00
Se	77	1	nogas	16262	0.02
Se	82	1	nogas	16820	0.01
Sr	88	1	nogas	2292815	0.00
Mo	95	1	nogas	498450	0.00
Ag	107	1	nogas	1109262	0.00
Cd	111	1	nogas	238553	0.00
Sn	118	1	nogas	715615	0.00
Sb	121	1	nogas	1013633	0.00
Ba	137	1	nogas	355045	0.00
Tl	205	1	nogas	2270385	0.00
Pb	208	1	nogas	3078833	0.00
Na	23	2	He	15767511	0.00
Mg	24	2	He	9020176	0.00
Al	27	2	He	57090	0.00
K	39	2	He	9285526	0.00
Ca	43	2	He	24914	0.01
Ca	44	2	He	411830	0.00
V	51	2	He	546321	0.00
Cr	52	2	He	622697	0.00
Mn	55	2	He	461528	0.00
Fe	56	2	He	57734544	0.00
Co	59	2	He	810756	0.00
Ni	60	2	He	203941	0.00
Cu	63	2	He	517063	0.00
Zn	66	2	He	111356	0.00
As	75	2	He	82873	0.00
Sb	121	2	He	414661	0.00
Se	78	2	He	7839	0.04

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	1993151	2.37	1982232	100.55	70	120	
In	115	1	nogas	2162352	1.57	2134542	101.30	70	120	
Li	6	1	nogas	1142067	0.93	1203228	94.92	70	120	
Bi	209	1	nogas	1941631	1.38	1995496	97.30	70	120	
Ge	72	2	He	563184	1.04	555355	101.41	70	120	
In	115	2	He	811383	1.35	803216	101.02	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	016CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T10:10:55-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	011CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	1114645	0.00
B	11	1	nogas	3516928	0.00
Al	27	1	nogas	3052747	0.00
P	31	1	nogas	128868	0.00
Ti	47	1	nogas	284004	0.00
Ni	60	1	nogas	843922	0.00
Cu	63	1	nogas	1995822	0.00
Zn	66	1	nogas	588771	0.00
Se	77	1	nogas	29760	0.00
Se	82	1	nogas	32466	0.00
Sr	88	1	nogas	4525561	0.00
Mo	95	1	nogas	994821	0.00
Ag	107	1	nogas	2180558	0.00
Cd	111	1	nogas	464940	0.00
Sn	118	1	nogas	1431689	0.00
Sb	121	1	nogas	2054124	0.00
Ba	137	1	nogas	697761	0.00
Tl	205	1	nogas	4509076	0.00
Pb	208	1	nogas	6120025	0.00
Na	23	2	He	30363720	0.00
Mg	24	2	He	17267514	0.00
Al	27	2	He	109333	0.00
K	39	2	He	17930818	0.00
Ca	43	2	He	49197	0.00
Ca	44	2	He	810527	0.00
V	51	2	He	1064399	0.00
Cr	52	2	He	1201750	0.00
Mn	55	2	He	886424	0.00
Fe	56	2	He	110529768	0.00
Co	59	2	He	1563492	0.00
Ni	60	2	He	393305	0.00
Cu	63	2	He	1000686	0.00
Zn	66	2	He	214841	0.00
As	75	2	He	161142	0.00
Sb	121	2	He	817433	0.00
Se	78	2	He	14982	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	1974624	1.27	1982232	99.62	70	120	
In	115	1	nogas	2112972	1.05	2134542	98.99	70	120	
Li	6	1	nogas	1081711	0.51	1203228	89.90	70	120	
Bi	209	1	nogas	1917907	1.78	1995496	96.11	70	120	
Ge	72	2	He	552656	1.33	555355	99.51	70	120	
In	115	2	He	788654	0.81	803216	98.19	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	018_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T10:16:38-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	100.241	0.410	566595	0.53	100	100.2	90	110	
B	11	1	nogas	486.117	1.802	1723143	1.83	500	97.2	90	110	
Al	27	1	nogas	97.509	1.834	1575547	1.21	100	97.5	90	110	
P	31	1	nogas	2394.419	1.050	270399	1.87	500	478.9	90	110	ICV Main CR1 Failed
Ti	47	1	nogas	99.577	0.621	146047	2.06	100	99.6	90	110	
Ni	60	1	nogas	99.028	2.143	432587	0.45	100	99.0	90	110	
Cu	63	1	nogas	98.671	1.452	1018531	2.15	100	98.7	90	110	
Zn	66	1	nogas	98.879	1.771	301470	1.34	100	98.9	90	110	
Se	77	1	nogas	92.057	2.892	16313	2.41	100	92.1	90	110	
Se	82	1	nogas	97.256	1.452	16466	3.77	100	97.3	90	110	
Sr	88	1	nogas	98.783	2.945	2283263	2.60	100	98.8	90	110	
Mo	95	1	nogas	95.717	3.002	485251	2.67	100	95.7	90	110	
Ag	107	1	nogas	106.776	3.056	1190340	2.69	100	106.8	90	110	
Cd	111	1	nogas	98.944	2.666	235502	2.38	100	98.9	90	110	
Sn	118	1	nogas	99.141	1.272	724147	0.94	100	99.1	90	110	
Sb	121	1	nogas	99.436	1.233	1046983	2.01	100	99.4	90	110	
Ba	137	1	nogas	98.879	1.869	352785	1.49	100	98.9	90	110	
Tl	205	1	nogas	97.995	1.993	2271232	1.45	100	98.0	90	110	
Pb	208	1	nogas	97.686	2.607	3072826	2.04	100	97.7	90	110	
U	238	1	nogas	100.697	2.966	3509785	2.28	100	100.7	90	110	
Li	7	1	nogas	97.895	0.755	1794564	0.44	100	97.9	90	110	
Ba	135	1	nogas	97.857	1.609	201898	1.39	100	97.9	90	110	
Tl	203	1	nogas	98.792	2.395	943298	1.76	100	98.8	90	110	
Na	23	2	He	9939.740	1.426	15372897	0.74	10000	99.4	90	110	
Mg	24	2	He	10093.572	1.849	8876118	1.03	10000	100.9	90	110	
Al	27	2	He	101.338	2.965	57608	1.98	100	101.3	90	110	
K	39	2	He	10097.162	0.741	9235922	0.20	10000	101.0	90	110	
Ca	43	2	He	9913.689	0.841	24717	1.55	10000	99.1	90	110	
Ca	44	2	He	9929.097	1.161	408514	0.38	10000	99.3	90	110	
V	51	2	He	98.636	0.295	533739	1.14	100	98.6	90	110	
Cr	52	2	He	99.756	0.470	613060	0.50	100	99.8	90	110	
Mn	55	2	He	101.207	1.076	457006	0.36	100	101.2	90	110	
Fe	56	2	He	10015.584	1.399	56386582	1.03	10000	100.2	90	110	
Co	59	2	He	100.792	0.664	801439	0.73	100	100.8	90	110	
Ni	60	2	He	101.838	1.187	203806	1.01	100	101.8	90	110	
Cu	63	2	He	101.525	0.488	516571	0.47	100	101.5	90	110	
Zn	66	2	He	100.824	0.912	110458	1.20	100	100.8	90	110	
As	75	2	He	100.487	0.686	82270	1.48	100	100.5	90	110	
Sb	121	2	He	101.186	0.337	418978	1.18	100	101.2	90	110	
Se	78	2	He	99.950	0.346	7658	0.87	100	100.0	90	110	
Ti	47	2	He	101.148	3.317	23458	3.07	100	101.1	90	110	
Zr	90	1	nogas	72.623	3.154	1178759	2.85	100	72.6	90	110	ICV Main CR1 Failed

QC ISTD Table

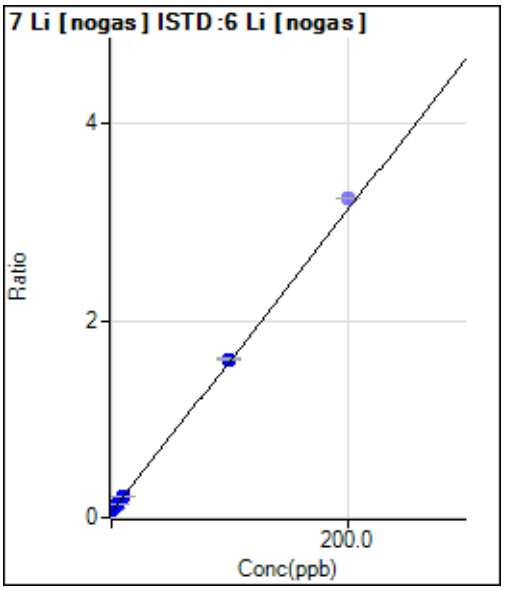
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2032898	2.42	1982232	102.56	70	120	
In	115	1	nogas	2162459	0.39	2134542	101.31	70	120	
Li	6	1	nogas	1140301	0.55	1203228	94.77	70	120	
Bi	209	1	nogas	1973447	0.71	1995496	98.90	70	120	
Ge	72	2	He	560054	0.85	555355	100.85	70	120	
In	115	2	He	808587	0.67	803216	100.67	70	120	

Calibration for 018_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070424A.b\
Analysis File: 070424A.batch.bin
DA Date-Time: 7/4/2024 9:09:53 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	011CALB.d	CAL BLK	7/4/2024 10:00:17 AM
2	012CALS.d	2/10/200	7/4/2024 10:02:24 AM
3	013CALS.d	5/25/500	7/4/2024 10:04:34 AM
4	014CALS.d	10/50/1000	7/4/2024 10:06:43 AM
5	015CALS.d	100/500/10K	7/4/2024 10:08:50 AM
6	016CALS.d	200/1000/20K	7/4/2024 10:10:55 AM
7			

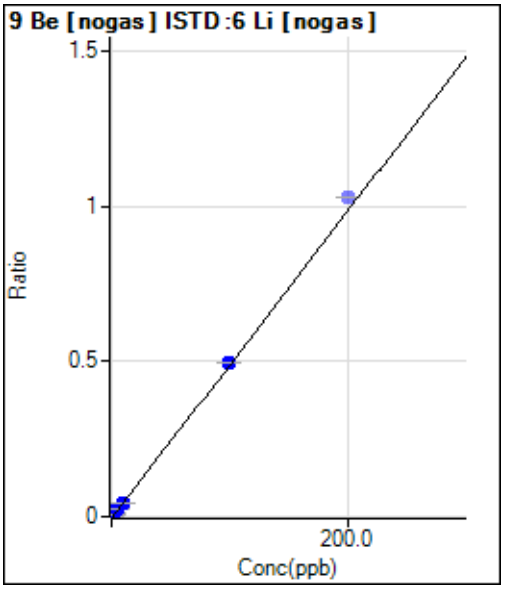
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	89538.50	0.0744	P	1.3	
2	☐	2.000	1.811	121928.64	0.1022	P	0.4	-9.4
3	☐	5.000	4.557	171800.13	0.1442	P	1.5	-8.9
4	☐	10.000	9.489	259403.38	0.2198	P	0.7	-5.1
5	☐	100.000	100.077	1835492.94	1.6072	P	0.5	0.1
6	☑	200.000		3504804.11	3.2401	P	0.0	
7	☐	1.000						

y = 0.0153 * x + 0.0744
R = 1.0000
DL = 0.1831 ppb
BEC = 4.859 ppb

Weight: <None>
Min Conc: <None>

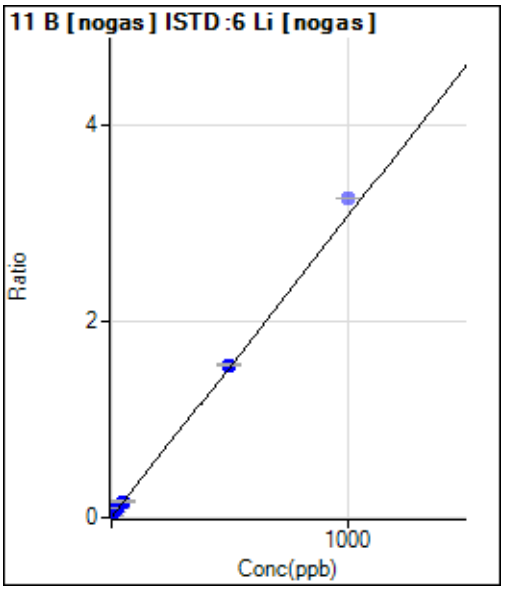


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55.00	0.0000	P	42.4	
2	☐	2.000	1.865	11089.04	0.0093	P	4.3	-6.7
3	☐	5.000	4.458	26377.42	0.0221	P	1.3	-10.8
4	☐	10.000	9.241	54115.19	0.0458	P	1.5	-7.6
5	☐	100.000	100.106	566689.47	0.4962	P	0.6	0.1
6	☑	200.000		1114645.43	1.0305	P	0.5	
7	☐	1.000						

y = 0.0050 * x + 4.5796E-005
R = 1.0000
DL = 0.01176 ppb
BEC = 0.00924 ppb

Weight: <None>
Min Conc: <None>

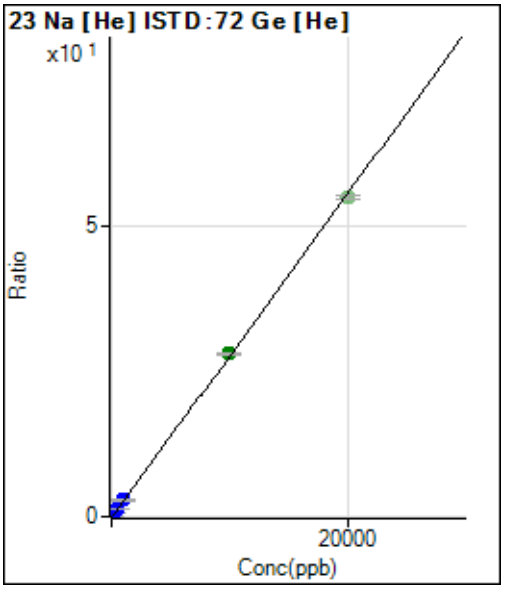
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27875.07	0.0232	P	2.2	
2	☐	10.000	8.843	59961.58	0.0502	P	1.0	-11.6
3	☐	25.000	22.067	108079.16	0.0907	P	1.0	-11.7
4	☐	50.000	46.366	194875.98	0.1651	P	1.7	-7.3
5	☐	500.000	500.533	1776222.68	1.5553	P	1.1	0.1
6	☑	1000.000		3516927.97	3.2512	P	0.4	
7	☐	5.000						

y = 0.0031 * x + 0.0232
R = 1.0000
DL = 0.5095 ppb
BEC = 7.569 ppb

Weight: <None>
Min Conc: <None>

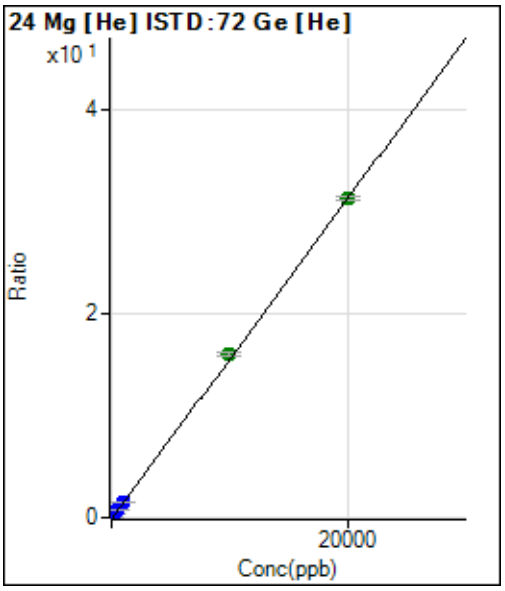


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55118.46	0.0993	P	1.2	
2	☐	200.000	193.204	356189.47	0.6381	P	1.1	-3.4
3	☐	500.000	467.724	784430.41	1.4037	P	1.0	-6.5
4	☐	1000.000	974.616	1555657.53	2.8173	P	0.6	-2.5
5	☐	10000.00	10004.28	15767510.60	27.9995	A	1.3	0.0
6	☑	20000.00		30363719.55	54.9465	A	1.2	
7	☐	100.000						

y = 0.0028 * x + 0.0993
R = 1.0000
DL = 1.314 ppb
BEC = 35.59 ppb

Weight: <None>
Min Conc: <None>

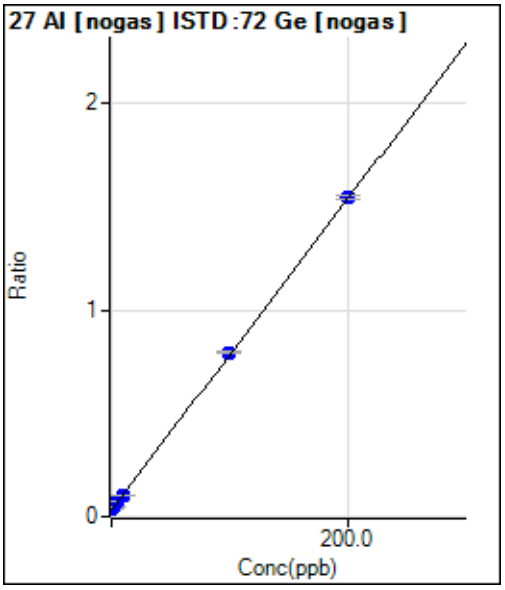
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1826.82	0.0033	P	6.7	
2	☐	200.000	195.847	173481.04	0.3108	P	0.6	-2.1
3	☐	500.000	472.417	416341.53	0.7450	P	0.6	-5.5
4	☐	1000.000	977.613	849341.29	1.5382	P	0.1	-2.2
5	☐	10000.00	10200.20	9020176.32	16.0177	A	1.8	2.0
6	☐	20000.00	19901.74	17267514.32	31.2493	A	1.8	-0.5
7	☐	100.000						

y = 0.0016 * x + 0.0033
R = 0.9999
DL = 0.4229 ppb
BEC = 2.096 ppb

Weight: <None>
Min Conc: <None>

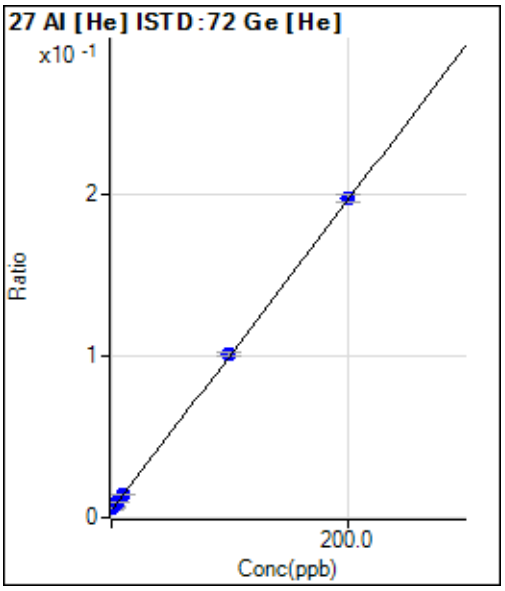


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83060.47	0.0419	P	1.2	
2	☐	2.000	0.759	95059.15	0.0476	P	1.2	-62.1
3	☐	5.000	3.854	140466.43	0.0709	P	1.4	-22.9
4	☐	10.000	8.561	208267.44	0.1063	P	1.3	-14.4
5	☐	100.000	100.190	1585060.34	0.7954	P	1.0	0.2
6	☐	200.000	200.018	3052746.72	1.5461	P	1.3	0.0
7	☐	1.000						

y = 0.0075 * x + 0.0419
R = 1.0000
DL = 0.1991 ppb
BEC = 5.572 ppb

Weight: <None>
Min Conc: <None>

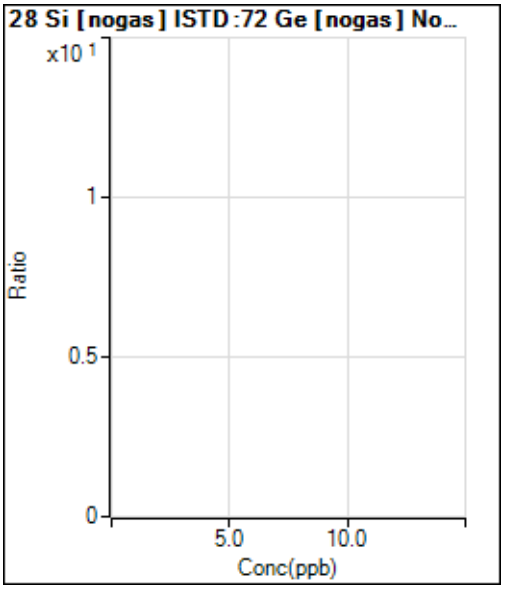
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3047.03	0.0055	P	4.9	
2	☐	2.000	1.272	3743.86	0.0067	P	5.2	-36.4
3	☐	5.000	3.971	5197.65	0.0093	P	2.3	-20.6
4	☐	10.000	9.234	7928.84	0.0144	P	1.6	-7.7
5	☐	100.000	99.764	57089.56	0.1014	P	1.9	-0.2
6	☐	200.000	200.189	109333.20	0.1979	P	2.9	0.1
7	☐	1.000						

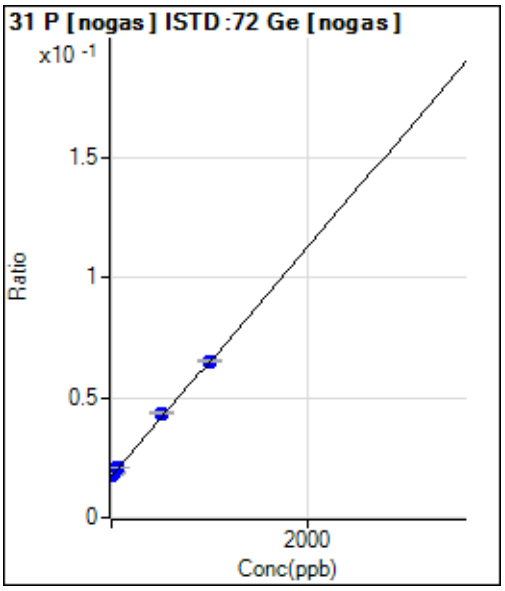
y = 9.6108E-004 * x + 0.0055
R = 1.0000
DL = 0.8444 ppb
BEC = 5.707 ppb

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						

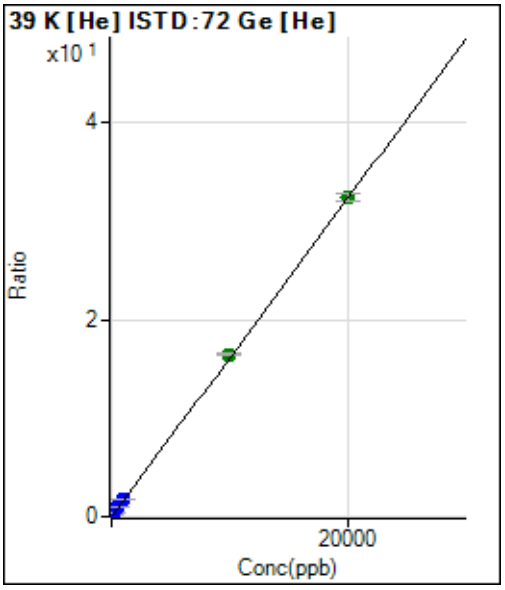
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35591.70	0.0180	P	3.4	
2	☐	10.000	8.294	36647.69	0.0184	P	3.2	-17.1
3	☐	25.000	16.493	37162.16	0.0188	P	1.9	-34.0
4	☐	50.000	66.523	41456.25	0.0212	P	0.6	33.0
5	☐	500.000	529.880	86522.83	0.0434	P	2.0	6.0
6	☐	1000.000	984.463	128867.69	0.0653	P	1.7	-1.6
7	☐	5.000						

y = 4.8056E-005 * x + 0.0180
R = 0.9992
DL = 37.85 ppb
BEC = 373.7 ppb

Weight: <None>
Min Conc: <None>

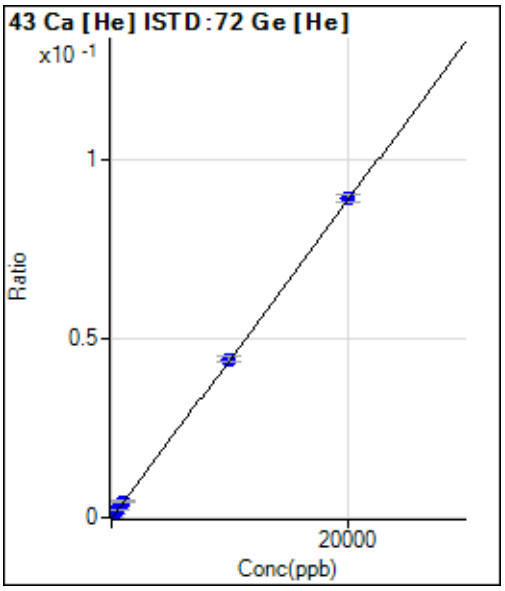


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80941.13	0.1457	P	2.6	
2	☐	200.000	191.067	254018.34	0.4550	P	0.3	-4.5
3	☐	500.000	458.996	496701.36	0.8888	P	0.7	-8.2
4	☐	1000.000	958.654	937403.71	1.6977	P	1.2	-4.1
5	☐	10000.00	10094.33	9285526.11	16.4872	A	1.2	0.9
6	☐	20000.00	19956.01	17930818.07	32.4521	A	2.6	-0.2
7	☐	100.000						

y = 0.0016 * x + 0.1457
R = 1.0000
DL = 7.028 ppb
BEC = 90.02 ppb

Weight: <None>
Min Conc: <None>

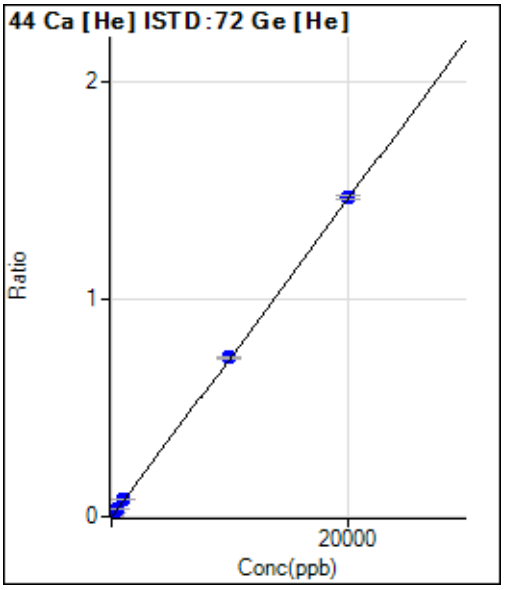
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	38.3	
2	☐	200.000	185.451	540.02	0.0010	P	15.9	-7.3
3	☐	500.000	460.774	1223.41	0.0022	P	5.0	-7.8
4	☐	1000.000	959.329	2430.26	0.0044	P	9.8	-4.1
5	☐	10000.00	9936.679	24914.04	0.0442	P	2.5	-0.6
6	☐	20000.00	20034.82	49196.70	0.0890	P	2.9	0.2
7	☐	100.000						

y = 4.4371E-006 * x + 1.4428E-004
R = 1.0000
DL = 37.34 ppb
BEC = 32.52 ppb

Weight: <None>
Min Conc: <None>

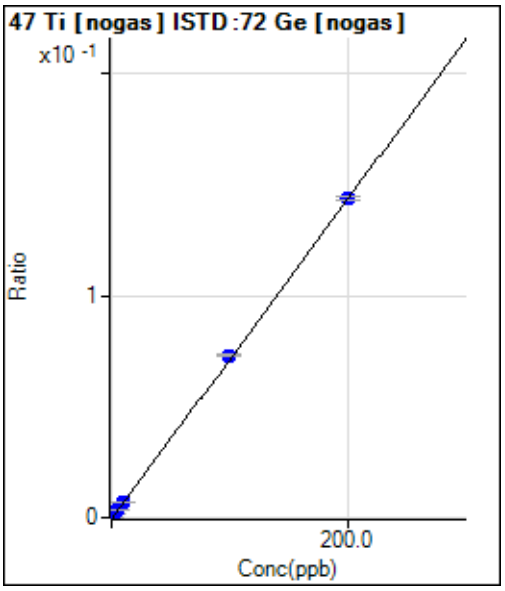


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2380.23	0.0043	P	9.2	
2	☐	200.000	193.329	10273.64	0.0184	P	3.8	-3.3
3	☐	500.000	480.247	21996.24	0.0394	P	0.4	-4.0
4	☐	1000.000	986.690	42158.73	0.0763	P	1.1	-1.3
5	☐	10000.00	9954.616	411829.90	0.7313	P	1.6	-0.5
6	☐	20000.00	20023.91	810526.68	1.4668	P	1.6	0.1
7	☐	100.000						

y = 7.3036E-005 * x + 0.0043
R = 1.0000
DL = 16.15 ppb
BEC = 58.65 ppb

Weight: <None>
Min Conc: <None>

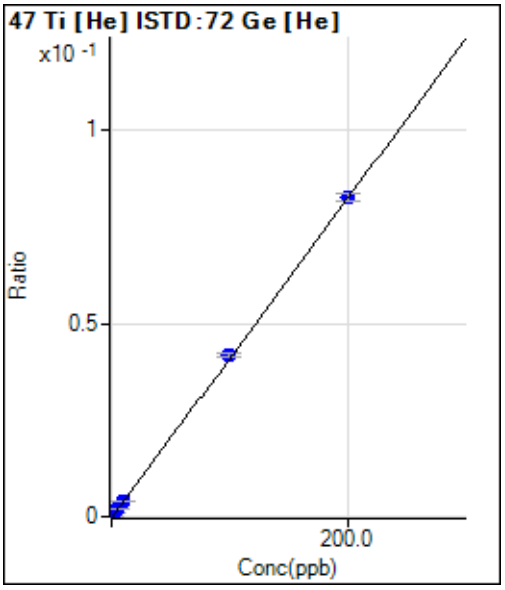
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0001	P	27.9	
2	☐	2.000	1.974	3017.02	0.0015	P	2.3	-1.3
3	☐	5.000	4.537	6654.92	0.0034	P	0.8	-9.3
4	☐	10.000	9.878	14123.45	0.0072	P	1.6	-1.2
5	☐	100.000	101.077	145330.87	0.0729	P	1.2	1.1
6	☐	200.000	199.480	284003.80	0.1438	P	1.2	-0.3
7	☐	1.000						

y = 7.2062E-004 * x + 8.9068E-005
R = 1.0000
DL = 0.1036 ppb
BEC = 0.1236 ppb

Weight: <None>
Min Conc: <None>

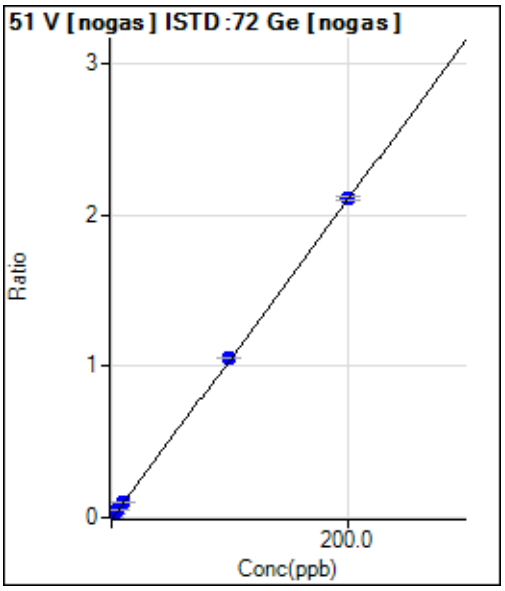


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	65.4	
2	☐	2.000	2.121	513.35	0.0009	P	11.5	6.1
3	☐	5.000	5.061	1193.41	0.0021	P	7.5	1.2
4	☐	10.000	9.606	2216.87	0.0040	P	10.1	-3.9
5	☐	100.000	100.868	23525.20	0.0418	P	2.9	0.9
6	☐	200.000	199.583	45649.16	0.0826	P	2.3	-0.2
7	☐	1.000						

y = 4.1372E-004 * x + 4.2081E-005
R = 1.0000
DL = 0.1997 ppb
BEC = 0.1017 ppb

Weight: <None>
Min Conc: <None>

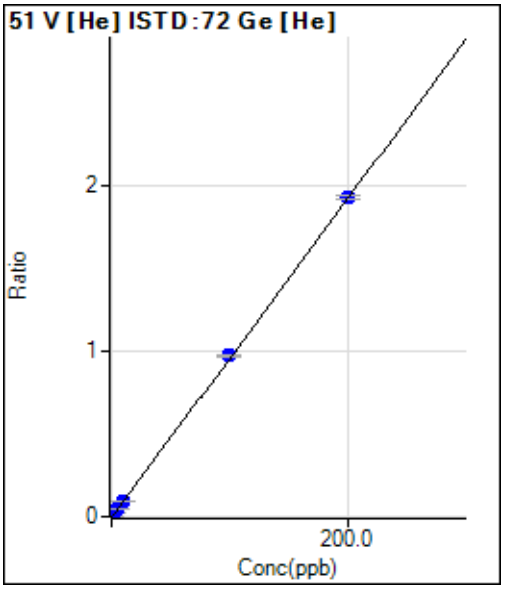
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	185.49	0.0001	P	846.7	
2	☐	2.000	1.960	41487.28	0.0208	P	3.3	-2.0
3	☐	5.000	4.850	101596.41	0.0513	P	3.1	-3.0
4	☐	10.000	9.669	200065.98	0.1021	P	2.4	-3.3
5	☐	100.000	100.173	2106791.64	1.0570	P	0.3	0.2
6	☐	200.000	199.934	4165251.89	2.1095	P	1.2	0.0
7	☐	1.000						

y = 0.0106 * x + 9.9756E-005
R = 1.0000
DL = 0.2402 ppb
BEC = 0.009455 ppb

Weight: <None>
Min Conc: <None>

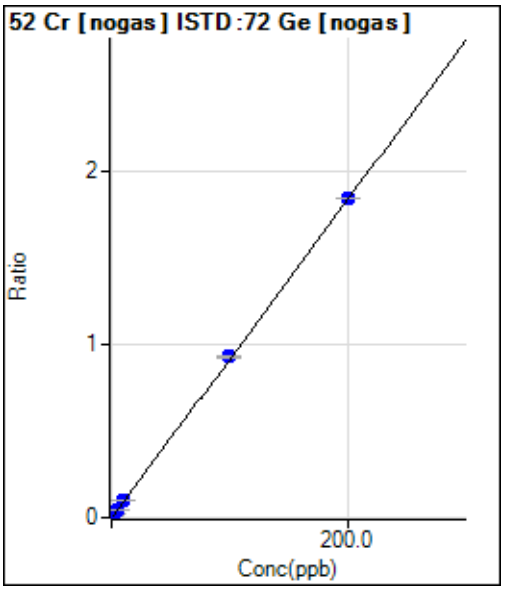


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2427.39	0.0044	P	19.3	
2	☐	2.000	1.845	12340.69	0.0221	P	2.6	-7.8
3	☐	5.000	4.629	27314.18	0.0489	P	6.0	-7.4
4	☐	10.000	9.476	52728.10	0.0955	P	2.8	-5.2
5	☐	100.000	100.422	546320.86	0.9702	P	1.8	0.4
6	☐	200.000	199.826	1064399.33	1.9262	P	1.3	-0.1
7	☐	1.000						

y = 0.0096 * x + 0.0044
R = 1.0000
DL = 0.2628 ppb
BEC = 0.4538 ppb

Weight: <None>
Min Conc: <None>

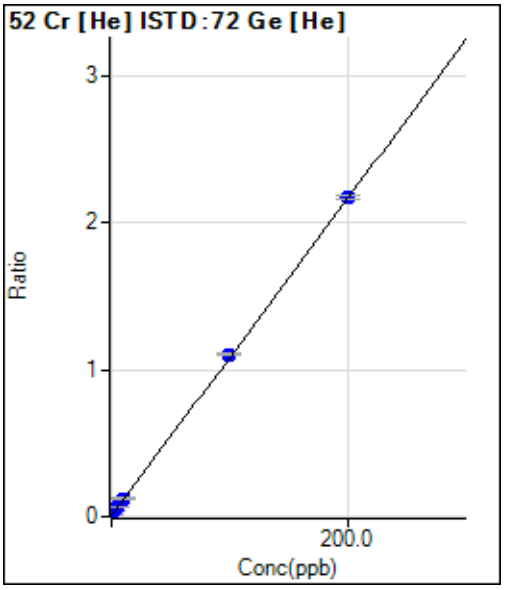
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12745.62	0.0064	P	2.5	
2	☐	2.000	1.855	46879.61	0.0235	P	0.7	-7.3
3	☐	5.000	4.634	97157.33	0.0490	P	0.6	-7.3
4	☐	10.000	9.715	187582.79	0.0957	P	1.2	-2.9
5	☐	100.000	100.538	1854647.94	0.9306	P	0.8	0.5
6	☐	200.000	199.756	3638525.26	1.8427	P	0.6	-0.1
7	☐	1.000						

y = 0.0092 * x + 0.0064
R = 1.0000
DL = 0.05301 ppb
BEC = 0.6995 ppb

Weight: <None>
Min Conc: <None>

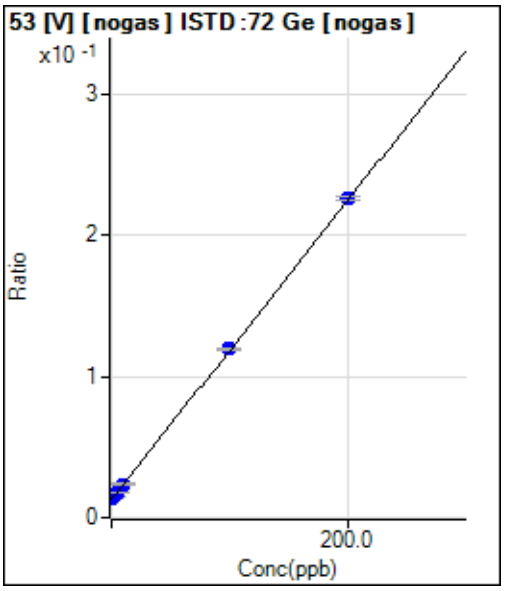


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8826.06	0.0159	P	2.8	
2	☐	2.000	1.766	19536.25	0.0350	P	1.0	-11.7
3	☐	5.000	4.596	36658.03	0.0656	P	2.1	-8.1
4	☐	10.000	10.032	68676.02	0.1244	P	2.2	0.3
5	☐	100.000	100.783	622696.58	1.1058	P	1.6	0.8
6	☐	200.000	199.619	1201749.85	2.1746	P	0.8	-0.2
7	☐	1.000						

y = 0.0108 * x + 0.0159
R = 1.0000
DL = 0.1225 ppb
BEC = 1.47 ppb

Weight: <None>
Min Conc: <None>

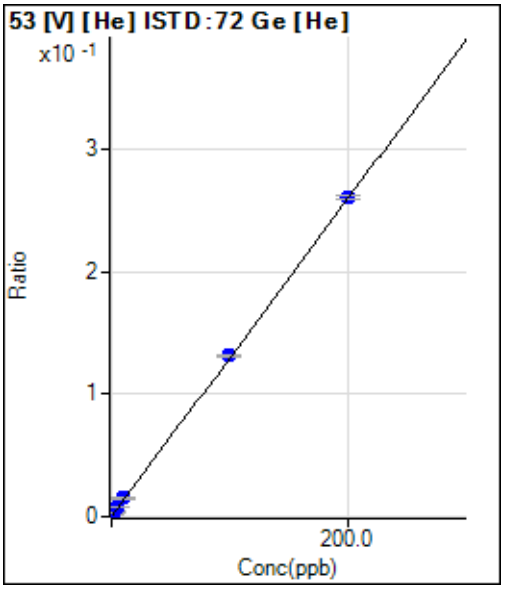
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27812.62	0.0140	P	2.1	
2	☐	2.000	0.623	29325.50	0.0147	P	2.1	-68.8
3	☐	5.000	3.289	34710.24	0.0175	P	0.9	-34.2
4	☐	10.000	9.221	46649.10	0.0238	P	1.3	-7.8
5	☐	100.000	99.482	238166.62	0.1195	P	1.0	-0.5
6	☐	200.000	200.354	447147.26	0.2265	P	0.9	0.2
7	☐	1.000						

y = 0.0011 * x + 0.0140
R = 1.0000
DL = 0.8534 ppb
BEC = 13.23 ppb

Weight: <None>
Min Conc: <None>

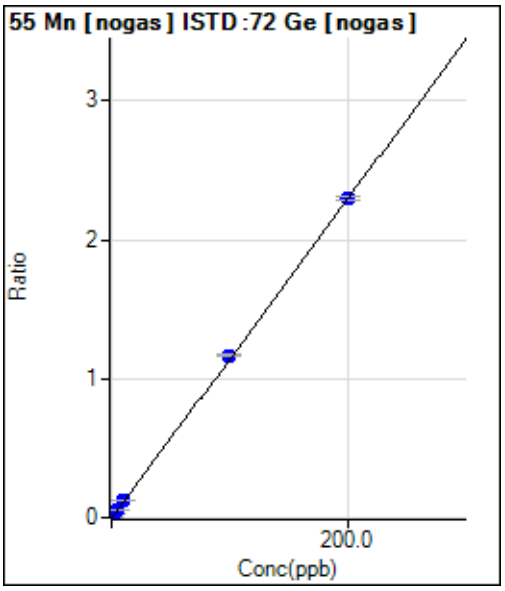


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	876.71	0.0016	P	17.7	
2	☐	2.000	1.791	2180.20	0.0039	P	4.8	-10.4
3	☐	5.000	4.567	4197.33	0.0075	P	8.7	-8.7
4	☐	10.000	10.572	8452.51	0.0153	P	4.8	5.7
5	☐	100.000	100.060	74041.06	0.1315	P	0.6	0.1
6	☐	200.000	199.955	144320.99	0.2612	P	0.8	0.0
7	☐	1.000						

y = 0.0013 * x + 0.0016
R = 1.0000
DL = 0.6454 ppb
BEC = 1.218 ppb

Weight: <None>
Min Conc: <None>

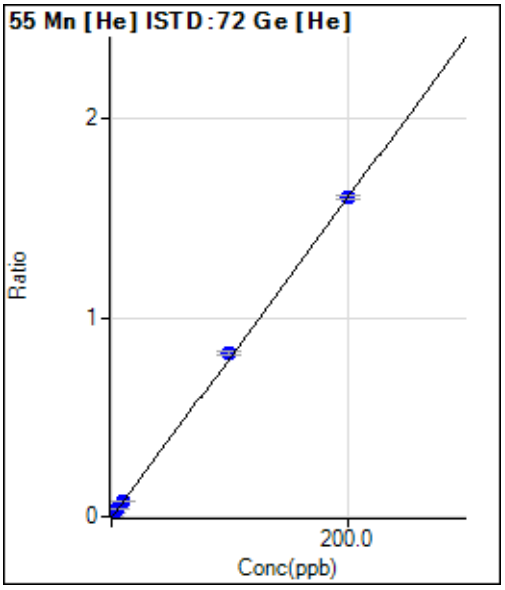
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10533.86	0.0053	P	3.0	
2	☐	2.000	1.933	55013.64	0.0276	P	0.1	-3.3
3	☐	5.000	4.769	119231.71	0.0602	P	1.1	-4.6
4	☐	10.000	9.816	231677.43	0.1182	P	0.4	-1.8
5	☐	100.000	101.204	2330930.38	1.1696	P	0.7	1.2
6	☐	200.000	199.414	4540025.97	2.2994	P	1.1	-0.3
7	☐	1.000						

y = 0.0115 * x + 0.0053
R = 1.0000
DL = 0.04153 ppb
BEC = 0.4619 ppb

Weight: <None>
Min Conc: <None>

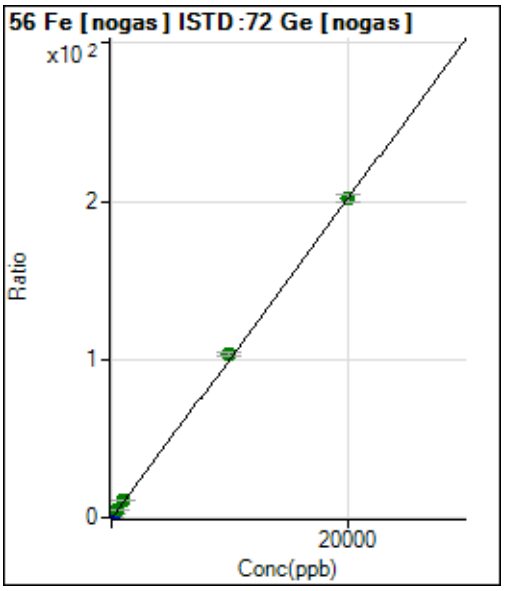


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1186.74	0.0021	P	5.0	
2	☐	2.000	1.863	9556.48	0.0171	P	1.9	-6.8
3	☐	5.000	4.703	22333.53	0.0400	P	3.6	-5.9
4	☐	10.000	9.826	44813.52	0.0812	P	0.8	-1.7
5	☐	100.000	101.650	461527.83	0.8196	P	2.0	1.6
6	☐	200.000	199.193	886424.39	1.6041	P	1.0	-0.4
7	☐	1.000						

y = 0.0080 * x + 0.0021
R = 0.9999
DL = 0.04017 ppb
BEC = 0.2657 ppb

Weight: <None>
Min Conc: <None>

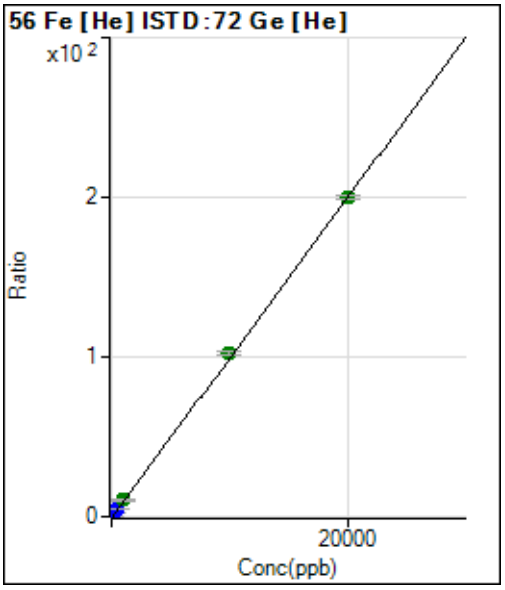
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796915.12	0.4020	P	0.4	
2	☐	200.000	190.274	4644698.06	2.3264	P	0.5	-4.9
3	☐	500.000	487.703	10570696.51	5.3344	A	0.5	-2.5
4	☐	1000.000	1013.196	20864075.10	10.6490	A	2.0	1.3
5	☐	10000.00	10137.65	205080690.2	102.929	A	2.3	1.4
6	☐	20000.00	19930.91	398738980.7	201.973	A	2.4	-0.3
7	☐	100.000						

y = 0.0101 * x + 0.4020
R = 1.0000
DL = 0.4328 ppb
BEC = 39.75 ppb

Weight: <None>
Min Conc: <None>

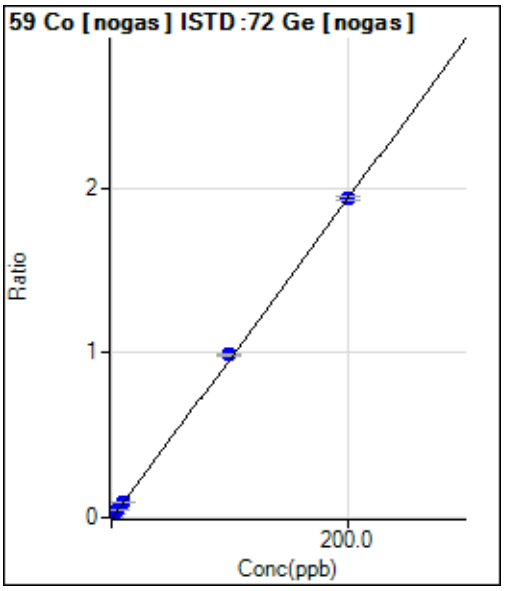


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19880.01	0.0358	P	2.0	
2	☐	200.000	188.227	1075911.26	1.9274	P	0.6	-5.9
3	☐	500.000	459.521	2600927.56	4.6537	P	1.3	-8.1
4	☐	1000.000	1022.738	5694706.79	10.3137	A	1.7	2.3
5	☐	10000.00	10199.09	57734544.14	102.530	A	2.6	2.0
6	☐	20000.00	19900.44	110529768.3	200.022	A	1.5	-0.5
7	☐	100.000						

y = 0.0100 * x + 0.0358
R = 0.9999
DL = 0.2133 ppb
BEC = 3.562 ppb

Weight: <None>
Min Conc: <None>

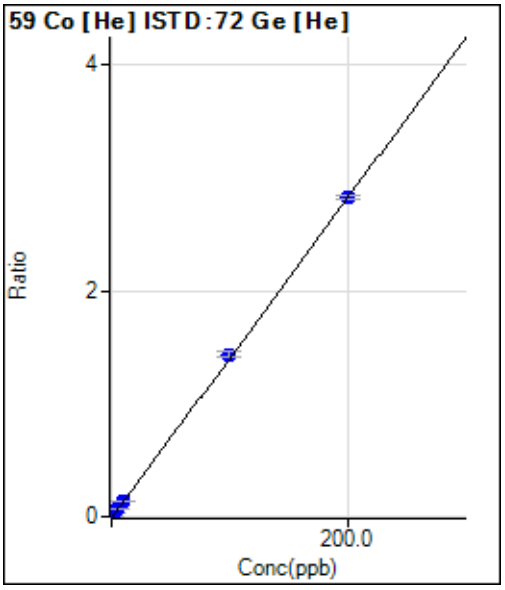
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	553.35	0.0003	P	5.8	
2	☐	2.000	1.968	38763.73	0.0194	P	2.8	-1.6
3	☐	5.000	4.738	91842.52	0.0463	P	0.9	-5.2
4	☐	10.000	9.756	186403.56	0.0951	P	1.4	-2.4
5	☐	100.000	101.543	1967731.06	0.9875	P	2.1	1.5
6	☐	200.000	199.248	3825384.42	1.9374	P	1.4	-0.4
7	☐	1.000						

y = 0.0097 * x + 2.7904E-004
R = 1.0000
DL = 0.004977 ppb
BEC = 0.0287 ppb

Weight: <None>
Min Conc: <None>

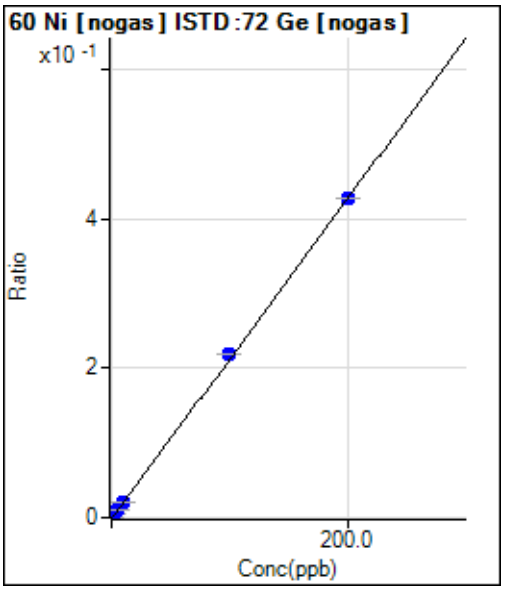


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210.01	0.0004	P	11.7	
2	☐	2.000	2.013	16158.96	0.0289	P	3.3	0.6
3	☐	5.000	4.860	38760.38	0.0694	P	1.9	-2.8
4	☐	10.000	10.058	79043.47	0.1431	P	1.8	0.6
5	☐	100.000	101.413	810756.47	1.4399	P	2.6	1.4
6	☐	200.000	199.294	1563491.96	2.8292	P	0.8	-0.4
7	☐	1.000						

y = 0.0142 * x + 3.7791E-004
R = 1.0000
DL = 0.009352 ppb
BEC = 0.02662 ppb

Weight: <None>
Min Conc: <None>

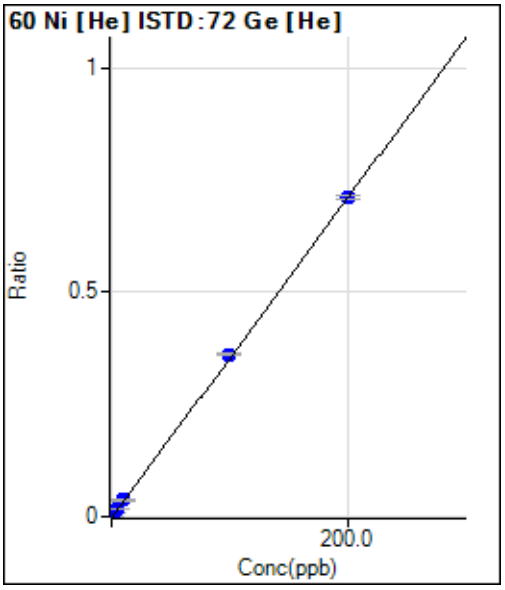
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	826.70	0.0004	P	14.2	
2	☐	2.000	1.945	9162.98	0.0046	P	2.2	-2.8
3	☐	5.000	4.820	21318.72	0.0108	P	1.3	-3.6
4	☐	10.000	9.836	42162.78	0.0215	P	3.0	-1.6
5	☐	100.000	101.977	436861.54	0.2192	P	0.4	2.0
6	☐	200.000	199.025	843922.33	0.4274	P	0.5	-0.5
7	☐	1.000						

y = 0.0021 * x + 4.1739E-004
R = 0.9999
DL = 0.08314 ppb
BEC = 0.1946 ppb

Weight: <None>
Min Conc: <None>

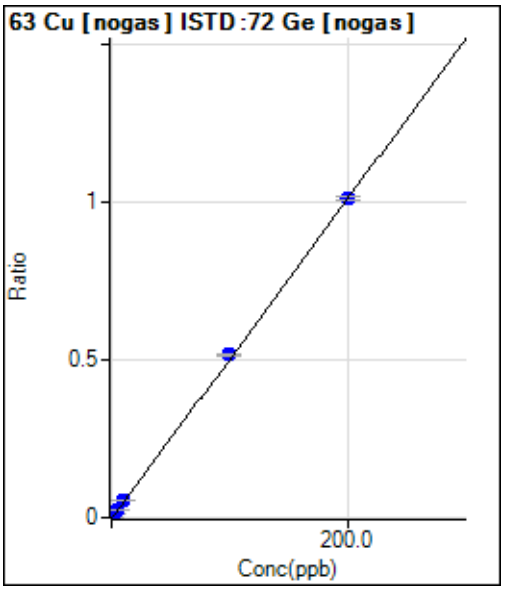


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	296.68	0.0005	P	15.7	
2	☐	2.000	1.934	4150.65	0.0074	P	9.0	-3.3
3	☐	5.000	5.006	10280.35	0.0184	P	5.3	0.1
4	☐	10.000	10.178	20347.42	0.0369	P	3.0	1.8
5	☐	100.000	101.348	203941.28	0.3622	P	1.8	1.3
6	☐	200.000	199.318	393305.03	0.7117	P	1.4	-0.3
7	☐	1.000						

y = 0.0036 * x + 5.3410E-004
R = 1.0000
DL = 0.07064 ppb
BEC = 0.1497 ppb

Weight: <None>
Min Conc: <None>

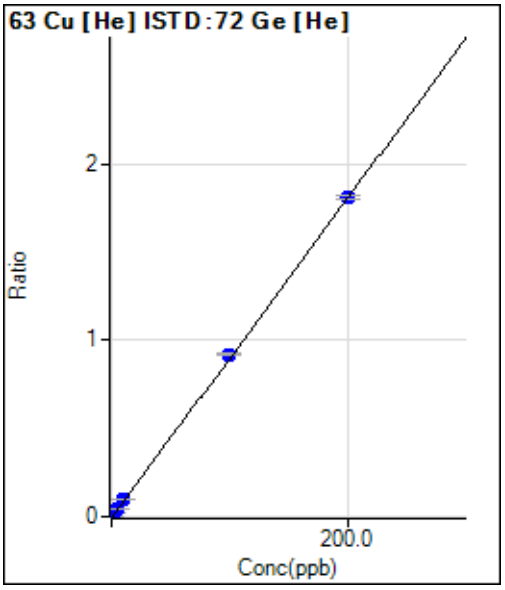
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2173.54	0.0011	P	7.9	
2	☐	2.000	1.972	22136.65	0.0111	P	2.9	-1.4
3	☐	5.000	4.873	51107.20	0.0258	P	1.0	-2.5
4	☐	10.000	10.172	103150.20	0.0526	P	1.4	1.7
5	☐	100.000	101.467	1026765.77	0.5152	P	1.3	1.5
6	☐	200.000	199.261	1995822.05	1.0108	P	0.9	-0.4
7	☐	1.000						

y = 0.0051 * x + 0.0011
R = 1.0000
DL = 0.05136 ppb
BEC = 0.2163 ppb

Weight: <None>
Min Conc: <None>

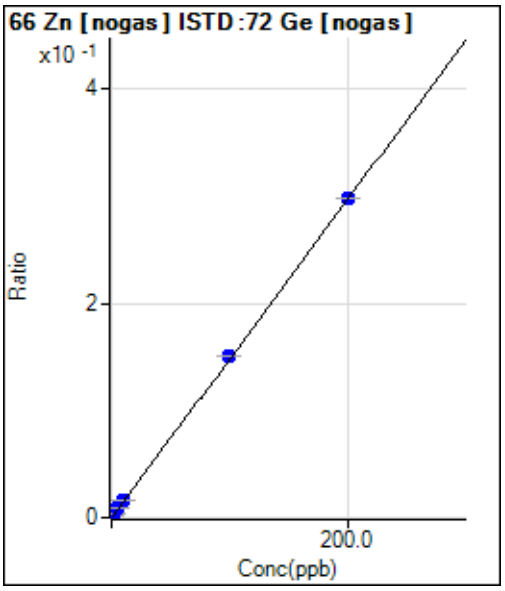


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	746.70	0.0013	P	4.3	
2	☐	2.000	1.983	10790.69	0.0193	P	0.7	-0.9
3	☐	5.000	5.077	26490.40	0.0474	P	3.8	1.5
4	☐	10.000	10.473	53204.73	0.0964	P	1.3	4.7
5	☐	100.000	101.060	517062.63	0.9182	P	0.9	1.1
6	☐	200.000	199.445	1000685.77	1.8107	P	0.8	-0.3
7	☐	1.000						

y = 0.0091 * x + 0.0013
R = 1.0000
DL = 0.01918 ppb
BEC = 0.1482 ppb

Weight: <None>
Min Conc: <None>

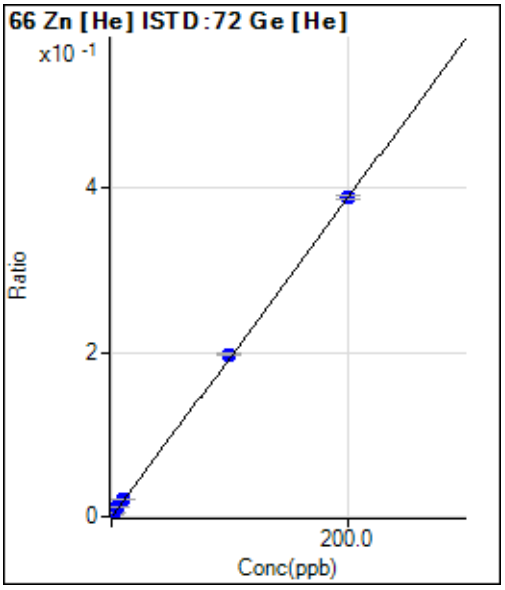
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.90	0.0012	P	5.3	
2	☐	2.000	2.106	8662.64	0.0043	P	2.4	5.3
3	☐	5.000	5.075	17350.36	0.0088	P	4.1	1.5
4	☐	10.000	9.915	31272.96	0.0160	P	2.1	-0.8
5	☐	100.000	100.836	301462.22	0.1512	P	0.5	0.8
6	☐	200.000	199.583	588771.34	0.2982	P	0.2	-0.2
7	☐	1.000						

y = 0.0015 * x + 0.0012
R = 1.0000
DL = 0.1292 ppb
BEC = 0.8096 ppb

Weight: <None>
Min Conc: <None>

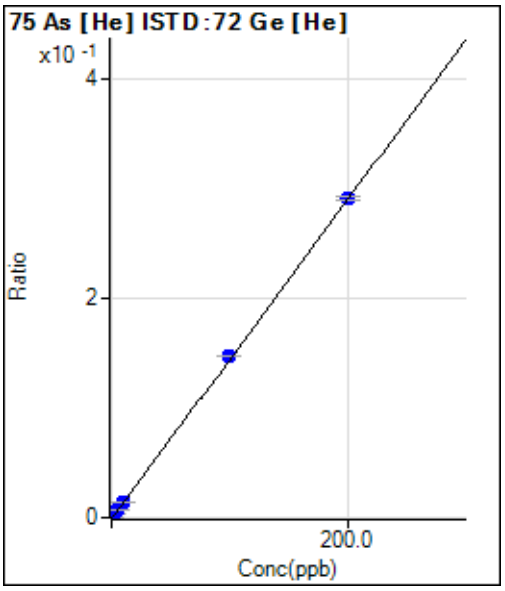


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	786.70	0.0014	P	5.2	
2	☐	2.000	2.063	3027.01	0.0054	P	2.7	3.1
3	☐	5.000	5.353	6601.57	0.0118	P	0.8	7.1
4	☐	10.000	9.955	11457.89	0.0208	P	2.0	-0.5
5	☐	100.000	101.084	111355.98	0.1977	P	0.7	1.1
6	☐	200.000	199.451	214840.81	0.3888	P	1.1	-0.3
7	☐	1.000						

y = 0.0019 * x + 0.0014
R = 1.0000
DL = 0.1134 ppb
BEC = 0.7293 ppb

Weight: <None>
Min Conc: <None>

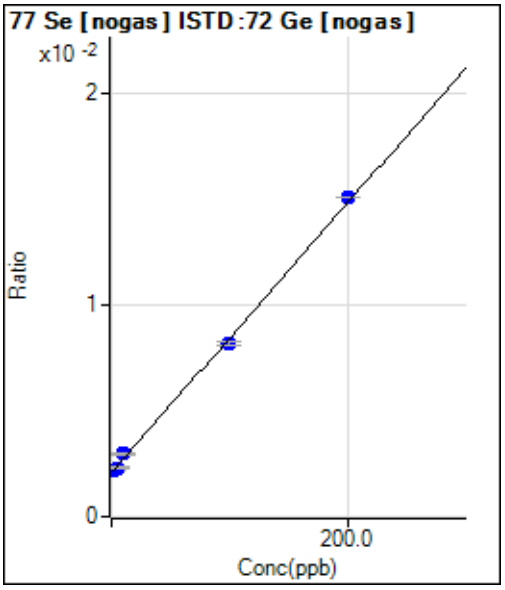
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	165.56	0.0003	P	14.7	
2	☐	2.000	2.058	1842.35	0.0033	P	4.3	2.9
3	☐	5.000	4.938	4191.72	0.0075	P	4.4	-1.2
4	☐	10.000	9.816	8071.12	0.0146	P	3.1	-1.8
5	☐	100.000	100.663	82873.49	0.1471	P	0.3	0.7
6	☐	200.000	199.679	161142.07	0.2916	P	0.9	-0.2
7	☐	1.000						

y = 0.0015 * x + 2.9844E-004
R = 1.0000
DL = 0.09042 ppb
BEC = 0.2046 ppb

Weight: <None>
Min Conc: <None>

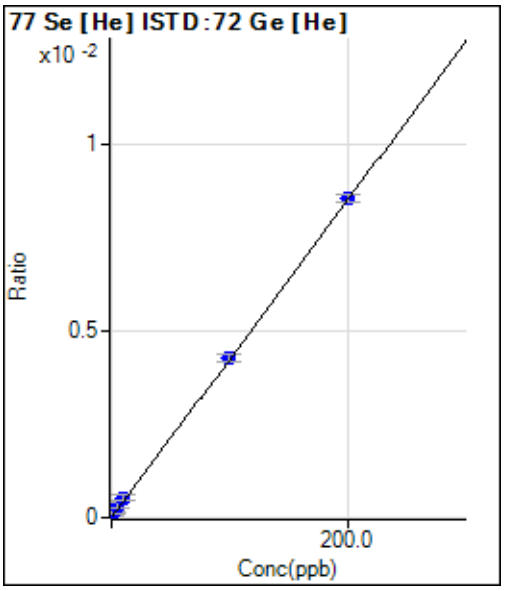


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4307.37	0.0022	P	8.8	
2	☐	2.000	0.051	4347.37	0.0022	P	2.2	-97.5
3	☐	5.000	2.028	4564.12	0.0023	P	5.8	-59.4
4	☐	10.000	12.407	5804.60	0.0030	P	2.2	24.1
5	☐	100.000	94.133	16262.50	0.0082	P	1.7	-5.9
6	☐	200.000	202.907	29760.16	0.0151	P	0.3	1.5
7	☐	1.000						

y = 6.3563E-005 * x + 0.0022
R = 0.9992
DL = 8.985 ppb
BEC = 34.2 ppb

Weight: <None>
Min Conc: <None>

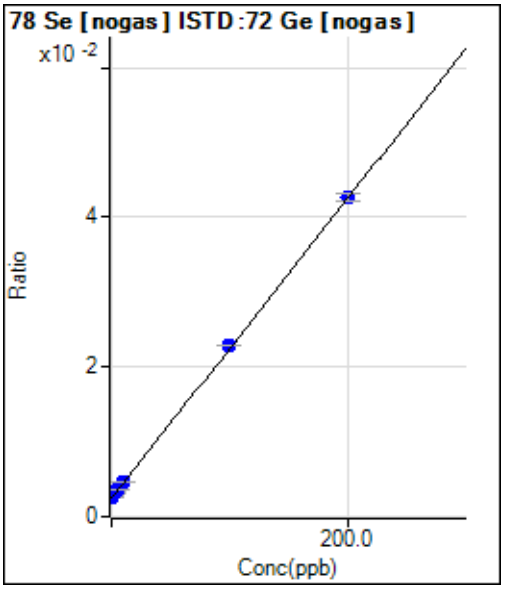
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	66.4	
2	☐	2.000	2.236	76.67	0.0001	P	52.5	11.8
3	☐	5.000	6.315	173.34	0.0003	P	50.2	26.3
4	☐	10.000	11.488	293.34	0.0005	P	31.7	14.9
5	☐	100.000	99.744	2413.58	0.0043	P	4.7	-0.3
6	☐	200.000	200.018	4724.19	0.0085	P	1.9	0.0
7	☐	1.000						

y = 4.2531E-005 * x + 4.2161E-005
R = 1.0000
DL = 1.976 ppb
BEC = 0.9913 ppb

Weight: <None>
Min Conc: <None>

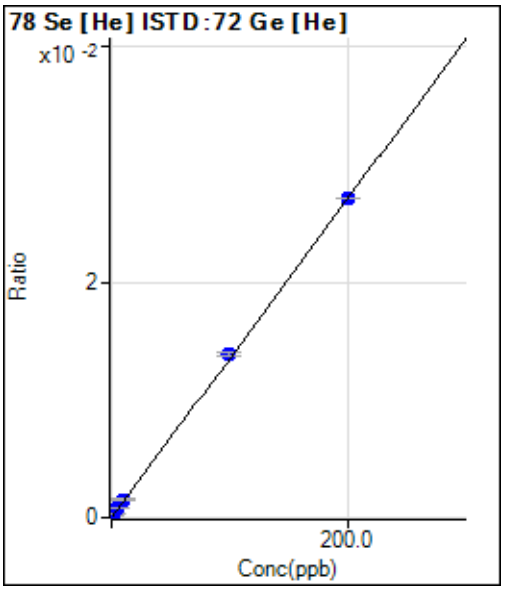


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5347.73	0.0027	P	5.6	
2	☐	2.000	2.494	6388.14	0.0032	P	4.3	24.7
3	☐	5.000	4.688	7208.57	0.0036	P	3.9	-6.2
4	☐	10.000	9.721	9102.96	0.0046	P	3.1	-2.8
5	☐	100.000	100.909	45663.76	0.0229	P	0.5	0.9
6	☐	200.000	199.562	84265.31	0.0427	P	2.0	-0.2
7	☐	1.000						

y = 2.0031E-004 * x + 0.0027
R = 1.0000
DL = 2.243 ppb
BEC = 13.47 ppb

Weight: <None>
Min Conc: <None>

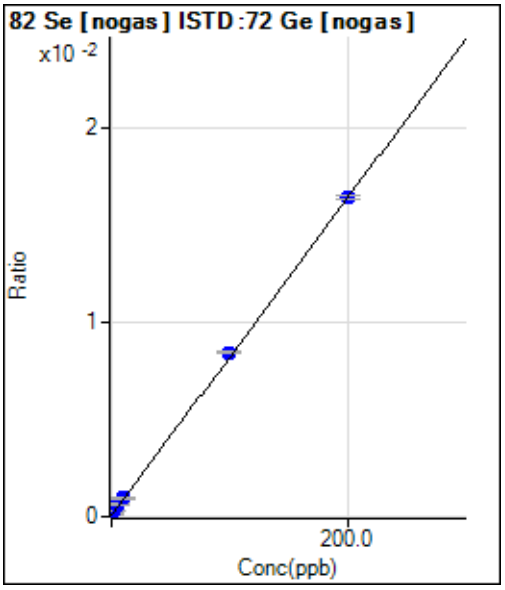
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	74.67	0.0001	P	14.2	
2	☐	2.000	1.589	195.33	0.0003	P	8.5	-20.5
3	☐	5.000	4.563	420.68	0.0008	P	4.1	-8.7
4	☐	10.000	10.168	834.70	0.0015	P	6.5	1.7
5	☐	100.000	101.749	7838.75	0.0139	P	2.6	1.7
6	☐	200.000	199.132	14981.56	0.0271	P	0.2	-0.4
7	☐	1.000						

y = 1.3546E-004 * x + 1.3457E-004
R = 0.9999
DL = 0.4246 ppb
BEC = 0.9935 ppb

Weight: <None>
Min Conc: <None>

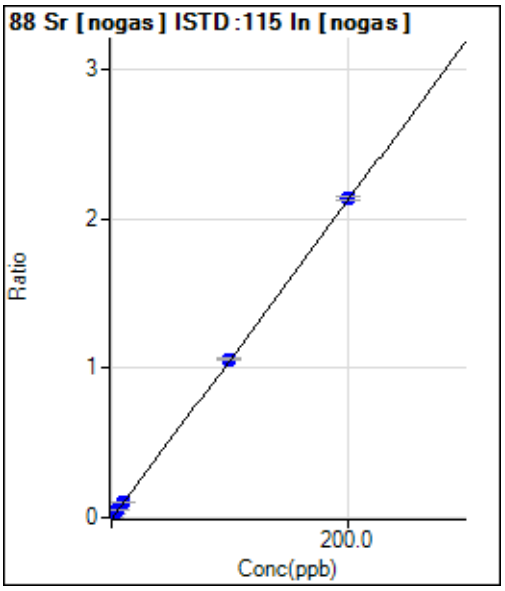


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	280.01	0.0001	P	17.5	
2	☐	2.000	2.083	623.36	0.0003	P	14.8	4.2
3	☐	5.000	5.758	1213.41	0.0006	P	14.5	15.2
4	☐	10.000	10.078	1893.49	0.0010	P	6.2	0.8
5	☐	100.000	101.441	16819.73	0.0084	P	1.5	1.4
6	☐	200.000	199.256	32465.89	0.0164	P	1.6	-0.4
7	☐	1.000						

y = 8.1812E-005 * x + 1.4143E-004
R = 1.0000
DL = 0.9067 ppb
BEC = 1.729 ppb

Weight: <None>
Min Conc: <None>

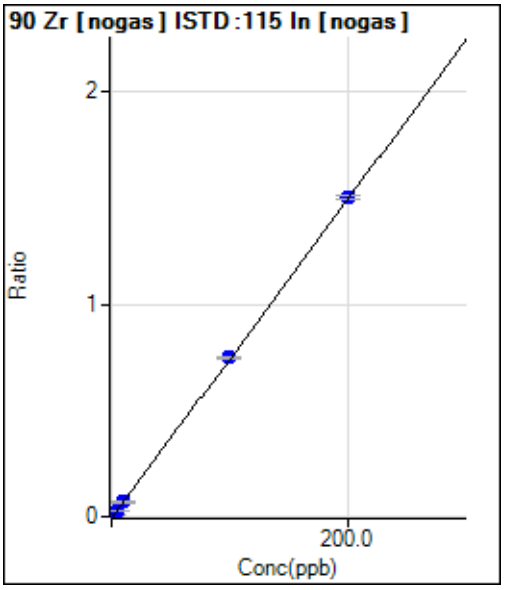
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1416.76	0.0007	P	16.2	
2	☐	2.000	1.910	45798.22	0.0211	P	0.9	-4.5
3	☐	5.000	4.590	107073.38	0.0497	P	1.9	-8.2
4	☐	10.000	9.594	221389.04	0.1032	P	1.6	-4.1
5	☐	100.000	99.193	2292815.17	1.0603	P	0.9	-0.8
6	☐	200.000	200.435	4525561.29	2.1418	P	0.8	0.2
7	☐	1.000						

y = 0.0107 * x + 6.6425E-004
R = 1.0000
DL = 0.03029 ppb
BEC = 0.06218 ppb

Weight: <None>
Min Conc: <None>

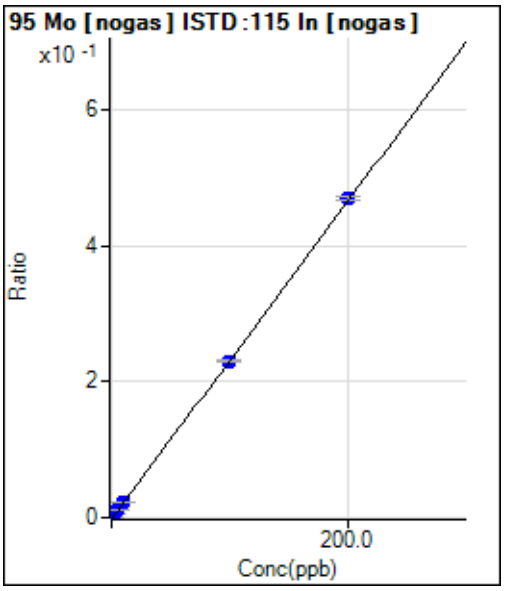


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1413.43	0.0007	P	11.1	
2	☐	2.000	1.433	24801.28	0.0114	P	3.8	-28.4
3	☐	5.000	3.959	65375.31	0.0303	P	3.2	-20.8
4	☐	10.000	9.044	146960.32	0.0685	P	1.9	-9.6
5	☐	100.000	99.577	1615731.64	0.7472	P	0.6	-0.4
6	☐	200.000	200.291	3174006.93	1.5023	P	1.8	0.1
7	☐	1.000						

y = 0.0075 * x + 6.6256E-004
R = 1.0000
DL = 0.02944 ppb
BEC = 0.08837 ppb

Weight: <None>
Min Conc: <None>

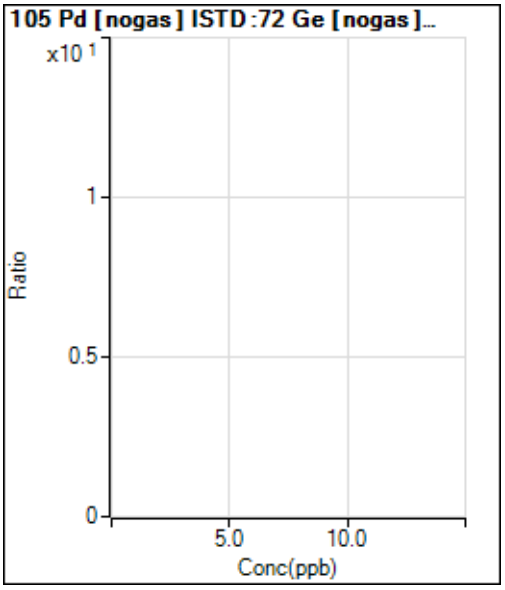
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0001	P	14.3	
2	☐	2.000	1.860	9740.03	0.0045	P	0.5	-7.0
3	☐	5.000	4.413	22540.97	0.0105	P	6.5	-11.7
4	☐	10.000	9.413	47604.06	0.0222	P	3.1	-5.9
5	☐	100.000	98.325	498449.78	0.2305	P	1.1	-1.7
6	☐	200.000	200.883	994821.18	0.4708	P	1.0	0.4
7	☐	1.000						

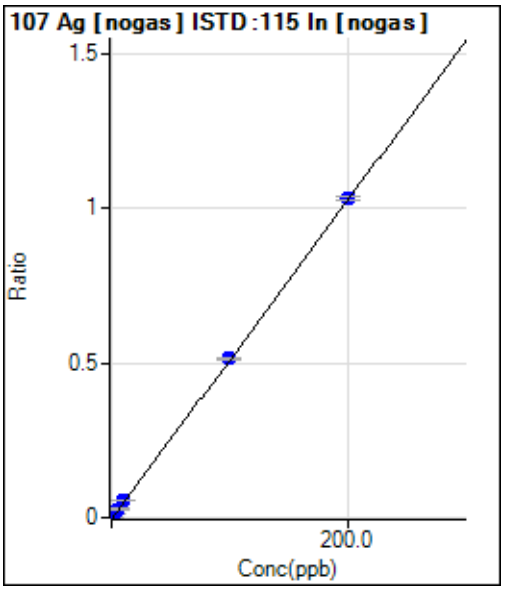
y = 0.0023 * x + 1.2186E-004
R = 1.0000
DL = 0.02238 ppb
BEC = 0.052 ppb

Weight: <None>
Min Conc: <None>



	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						

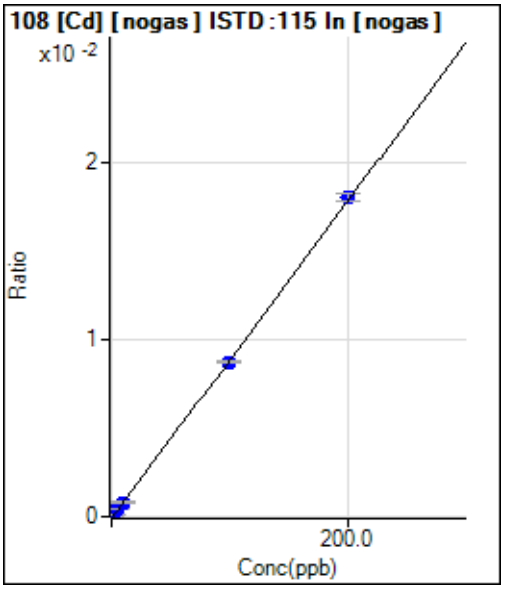
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70.00	0.0000	P	15.2	
2	☐	2.000	2.260	25399.12	0.0117	P	1.9	13.0
3	☐	5.000	5.362	59632.30	0.0277	P	4.5	7.2
4	☐	10.000	11.082	122687.09	0.0572	P	1.2	10.8
5	☐	100.000	99.501	1109261.67	0.5130	P	0.5	-0.5
6	☐	200.000	200.184	2180558.30	1.0320	P	0.7	0.1
7	☐	1.000						

y = 0.0052 * x + 3.2828E-005
R = 1.0000
DL = 0.00291 ppb
BEC = 0.006368 ppb

Weight: <None>
Min Conc: <None>

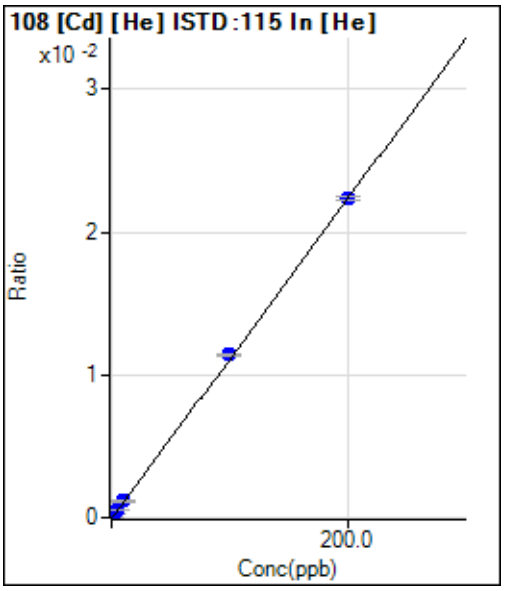


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.542	303.34	0.0001	P	17.2	-22.9
3	☐	5.000	4.673	903.38	0.0004	P	10.5	-6.5
4	☐	10.000	9.070	1743.47	0.0008	P	4.1	-9.3
5	☐	100.000	97.311	18815.74	0.0087	P	1.1	-2.7
6	☐	200.000	201.404	38043.53	0.0180	P	2.4	0.7
7	☐	1.000						

y = 8.9402E-005 * x + 1.5422E-006
R = 0.9999
DL = 0.08963 ppb
BEC = 0.01725 ppb

Weight: <None>
Min Conc: <None>

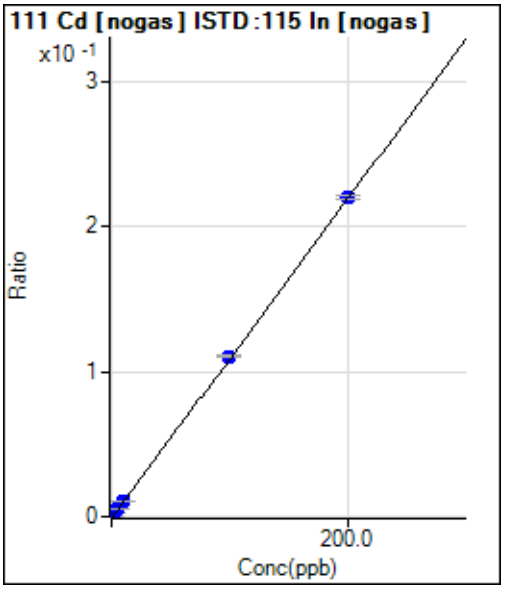
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	124.9	
2	☐	2.000	1.935	193.34	0.0002	P	8.3	-3.3
3	☐	5.000	4.668	443.35	0.0005	P	5.3	-6.6
4	☐	10.000	10.035	933.38	0.0011	P	6.2	0.3
5	☐	100.000	101.614	9263.12	0.0114	P	0.8	1.6
6	☐	200.000	199.200	17634.24	0.0224	P	1.7	-0.4
7	☐	1.000						

y = 1.1214E-004 * x + 2.0623E-005
R = 1.0000
DL = 0.6888 ppb
BEC = 0.1839 ppb

Weight: <None>
Min Conc: <None>

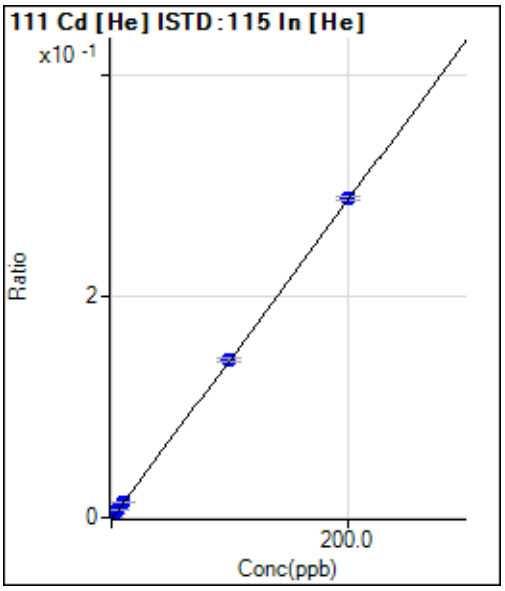


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.09	0.0000	P	91.3	
2	☐	2.000	1.958	4698.80	0.0022	P	1.5	-2.1
3	☐	5.000	4.727	11222.69	0.0052	P	3.2	-5.5
4	☐	10.000	9.748	23040.89	0.0107	P	1.2	-2.5
5	☐	100.000	100.231	238552.62	0.1103	P	0.7	0.2
6	☐	200.000	199.904	464940.00	0.2200	P	0.6	0.0
7	☐	1.000						

y = 0.0011 * x + 6.1735E-006
R = 1.0000
DL = 0.01537 ppb
BEC = 0.005609 ppb

Weight: <None>
Min Conc: <None>

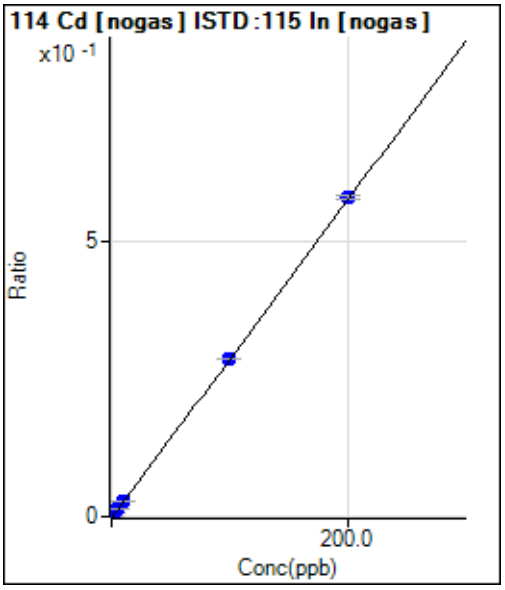
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-17.88	0.0000	P	-124.9	
2	☐	2.000	2.001	2329.47	0.0029	P	5.8	0.0
3	☐	5.000	4.721	5528.97	0.0068	P	3.4	-5.6
4	☐	10.000	9.430	11053.66	0.0136	P	2.4	-5.7
5	☐	100.000	99.463	116323.33	0.1434	P	2.4	-0.5
6	☐	200.000	200.304	227747.17	0.2888	P	1.3	0.2
7	☐	1.000						

y = 0.0014 * x - 2.2128E-005
R = 1.0000
DL = 0.05748 ppb
BEC = -0.01535 ppb

Weight: <None>
Min Conc: <None>

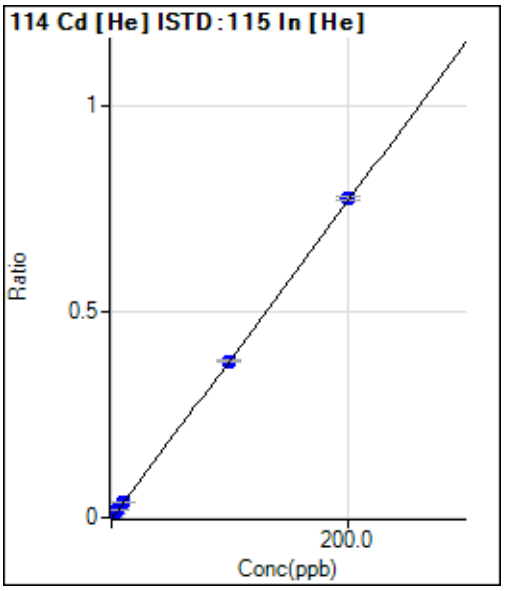


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83.33	0.0000	P	34.2	
2	☐	2.000	1.953	12332.15	0.0057	P	3.2	-2.4
3	☐	5.000	4.602	28692.07	0.0133	P	1.0	-8.0
4	☐	10.000	9.743	60416.19	0.0281	P	1.0	-2.6
5	☐	100.000	98.672	615706.94	0.2847	P	0.2	-1.3
6	☐	200.000	200.687	1223641.67	0.5791	P	1.1	0.3
7	☐	1.000						

y = 0.0029 * x + 3.8986E-005
R = 1.0000
DL = 0.01386 ppb
BEC = 0.01351 ppb

Weight: <None>
Min Conc: <None>

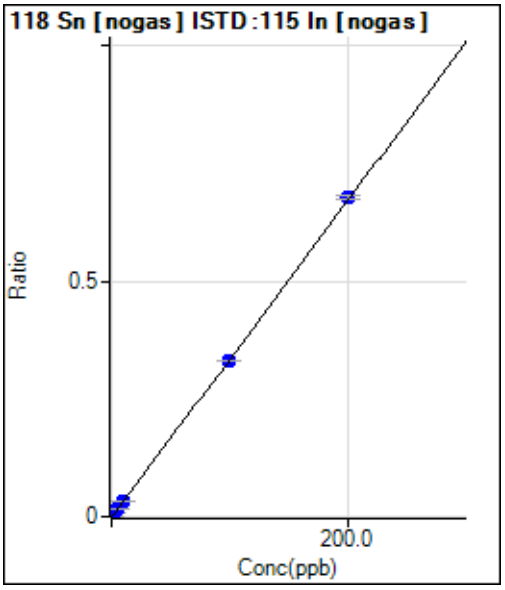
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	49.4	
2	☐	2.000	1.894	5981.36	0.0073	P	0.6	-5.3
3	☐	5.000	4.665	14691.01	0.0180	P	1.7	-6.7
4	☐	10.000	9.667	30378.77	0.0373	P	0.7	-3.3
5	☐	100.000	98.267	307294.33	0.3788	P	1.3	-1.7
6	☐	200.000	200.893	610615.58	0.7743	P	0.7	0.4
7	☐	1.000						

y = 0.0039 * x + 4.9653E-005
R = 0.9999
DL = 0.01908 ppb
BEC = 0.01288 ppb

Weight: <None>
Min Conc: <None>

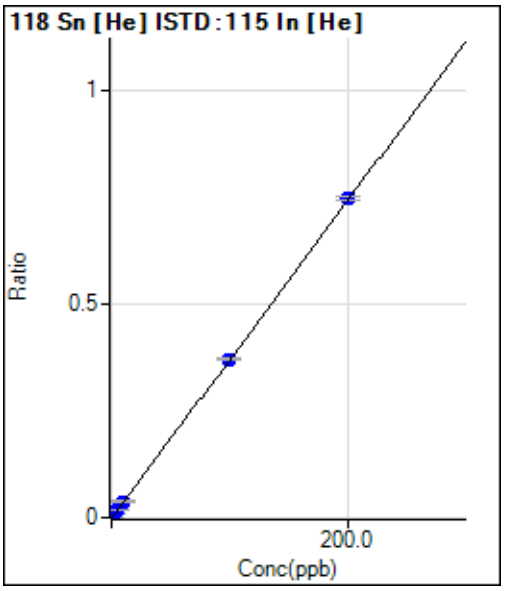


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3197.08	0.0015	P	10.7	
2	☐	2.000	1.860	16856.79	0.0078	P	2.4	-7.0
3	☐	5.000	4.556	36242.50	0.0168	P	2.7	-8.9
4	☐	10.000	9.550	72140.29	0.0336	P	2.1	-4.5
5	☐	100.000	97.969	715614.86	0.3309	P	0.2	-2.0
6	☐	200.000	201.050	1431688.83	0.6776	P	1.0	0.5
7	☐	1.000						

y = 0.0034 * x + 0.0015
R = 0.9999
DL = 0.1429 ppb
BEC = 0.4458 ppb

Weight: <None>
Min Conc: <None>

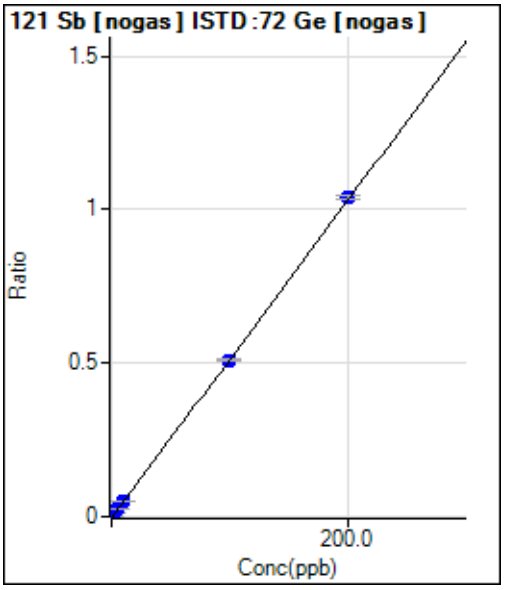
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1450.10	0.0018	P	4.8	
2	☐	2.000	1.834	7021.84	0.0086	P	5.1	-8.3
3	☐	5.000	4.452	14967.95	0.0184	P	1.9	-11.0
4	☐	10.000	9.764	31047.20	0.0381	P	0.9	-2.4
5	☐	100.000	99.323	301194.14	0.3713	P	1.8	-0.7
6	☐	200.000	200.366	589207.28	0.7471	P	0.7	0.2
7	☐	1.000						

y = 0.0037 * x + 0.0018
R = 1.0000
DL = 0.06965 ppb
BEC = 0.4854 ppb

Weight: <None>
Min Conc: <None>

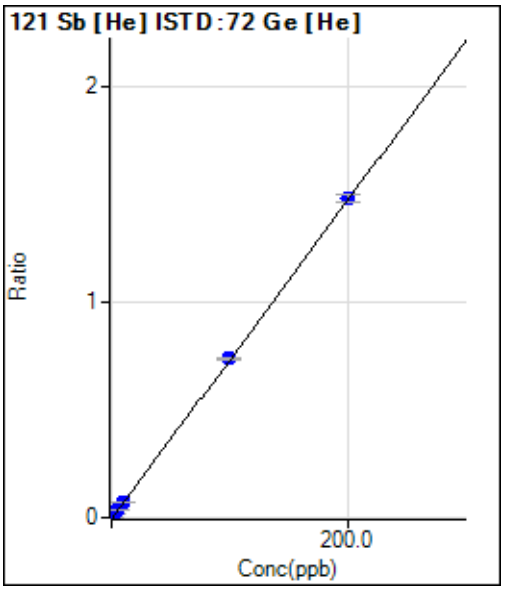


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1093.39	0.0006	P	5.2	
2	☐	2.000	1.958	21332.82	0.0107	P	2.6	-2.1
3	☐	5.000	4.549	47735.90	0.0241	P	5.0	-9.0
4	☐	10.000	9.580	98223.14	0.0501	P	0.6	-4.2
5	☐	100.000	98.195	1013632.54	0.5087	P	1.4	-1.8
6	☐	200.000	200.935	2054123.77	1.0403	P	1.0	0.5
7	☐	1.000						

y = 0.0052 * x + 5.5146E-004
R = 0.9999
DL = 0.01662 ppb
BEC = 0.1066 ppb

Weight: <None>
Min Conc: <None>

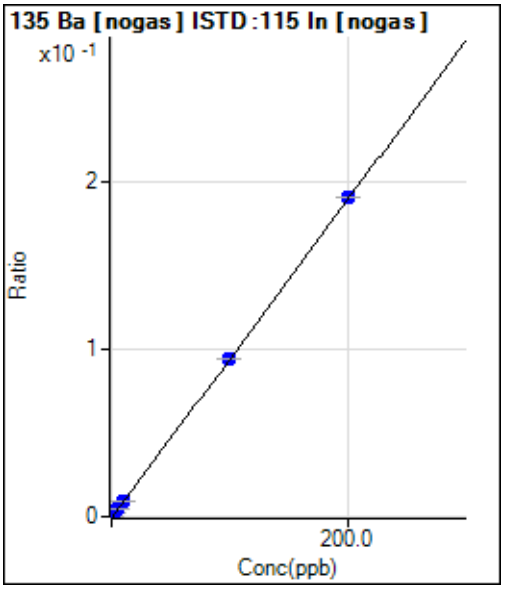
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	510.02	0.0009	P	7.4	
2	☐	2.000	1.909	8382.56	0.0150	P	4.0	-4.5
3	☐	5.000	4.677	19817.31	0.0355	P	1.5	-6.5
4	☐	10.000	9.941	41038.61	0.0743	P	2.8	-0.6
5	☐	100.000	99.593	414661.44	0.7363	P	1.0	-0.4
6	☐	200.000	200.215	817432.70	1.4793	P	1.9	0.1
7	☐	1.000						

y = 0.0074 * x + 9.1857E-004
R = 1.0000
DL = 0.02763 ppb
BEC = 0.1244 ppb

Weight: <None>
Min Conc: <None>

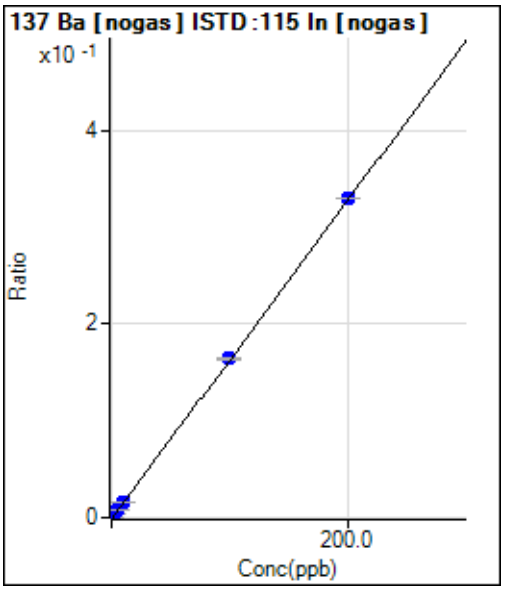


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	213.34	0.0001	P	27.4	
2	☐	2.000	1.922	4200.69	0.0019	P	3.1	-3.9
3	☐	5.000	4.688	9843.55	0.0046	P	2.7	-6.2
4	☐	10.000	9.801	20261.35	0.0094	P	1.7	-2.0
5	☐	100.000	99.158	204565.45	0.0946	P	0.4	-0.8
6	☐	200.000	200.440	403861.40	0.1911	P	0.6	0.2
7	☐	1.000						

y = 9.5310E-004 * x + 9.9800E-005
R = 1.0000
DL = 0.08613 ppb
BEC = 0.1047 ppb

Weight: <None>
Min Conc: <None>

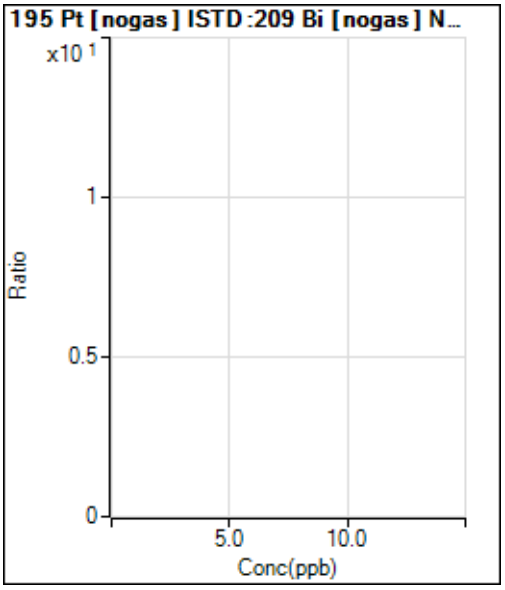
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	430.02	0.0002	P	16.1	
2	☐	2.000	2.012	7645.49	0.0035	P	1.9	0.6
3	☐	5.000	4.818	17541.04	0.0081	P	1.4	-3.6
4	☐	10.000	9.592	34358.39	0.0160	P	0.3	-4.1
5	☐	100.000	99.510	355045.10	0.1642	P	0.3	-0.5
6	☐	200.000	200.270	697760.67	0.3302	P	0.5	0.1
7	☐	1.000						

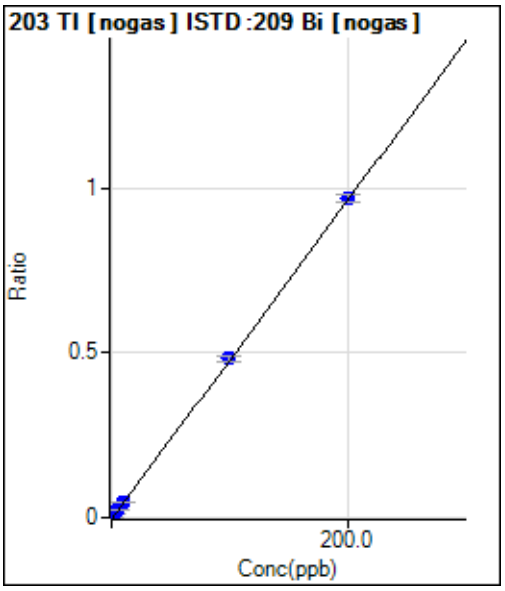
y = 0.0016 * x + 2.0131E-004
R = 1.0000
DL = 0.05897 ppb
BEC = 0.1222 ppb

Weight: <None>
Min Conc: <None>



	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						

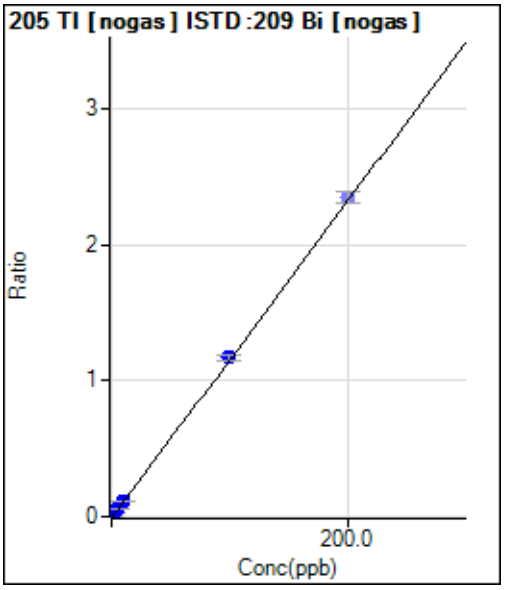
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0000	P	48.3	
2	☐	2.000	1.860	17878.61	0.0090	P	2.2	-7.0
3	☐	5.000	4.637	44262.01	0.0225	P	4.2	-7.3
4	☐	10.000	9.454	90189.84	0.0458	P	3.1	-5.5
5	☐	100.000	99.607	935578.94	0.4820	P	3.3	-0.4
6	☐	200.000	200.234	1857620.91	0.9689	P	2.9	0.1
7	☐	1.000						

y = 0.0048 * x + 3.3388E-005
R = 1.0000
DL = 0.009994 ppb
BEC = 0.0069 ppb

Weight: <None>
Min Conc: <None>

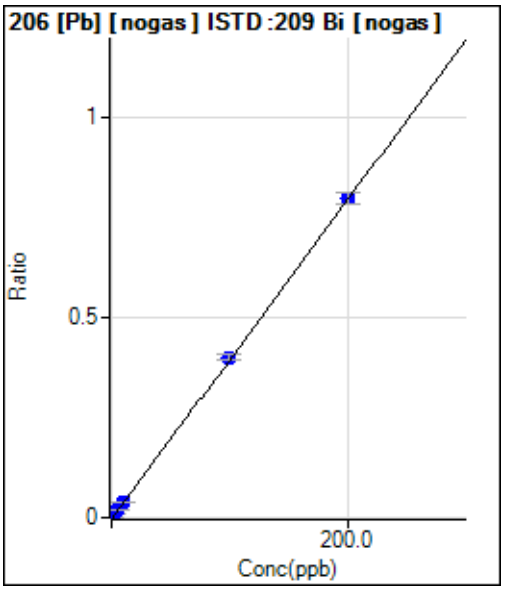


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203.34	0.0001	P	11.0	
2	☐	2.000	1.829	42499.46	0.0215	P	1.3	-8.6
3	☐	5.000	4.623	106634.03	0.0541	P	2.5	-7.5
4	☐	10.000	9.396	216509.41	0.1099	P	3.4	-6.0
5	☐	100.000	100.083	2270385.49	1.1696	P	3.2	0.1
6	☑	200.000		4509075.97	2.3519	P	3.2	
7	☐	1.000						

y = 0.0117 * x + 1.0180E-004
R = 1.0000
DL = 0.002883 ppb
BEC = 0.008711 ppb

Weight: <None>
Min Conc: <None>

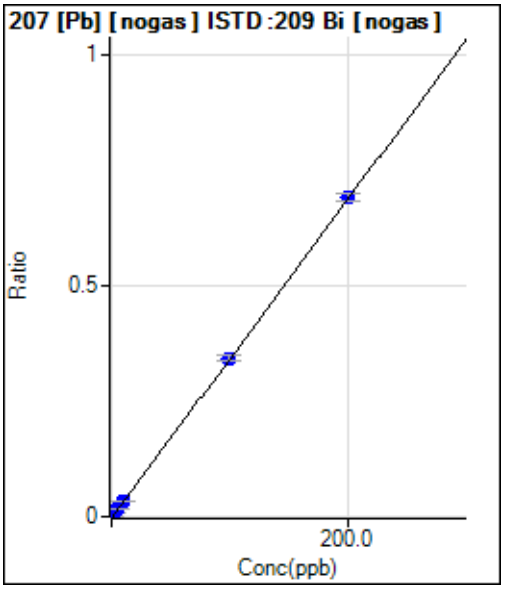
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0002	P	31.3	
2	☐	2.000	1.936	15609.16	0.0079	P	1.6	-3.2
3	☐	5.000	4.710	37368.01	0.0190	P	2.3	-5.8
4	☐	10.000	9.635	76146.06	0.0386	P	1.2	-3.7
5	☐	100.000	100.421	779006.76	0.4013	P	2.7	0.4
6	☐	200.000	199.816	1530640.97	0.7984	P	3.1	-0.1
7	☐	1.000						

y = 0.0040 * x + 1.5003E-004
R = 1.0000
DL = 0.03526 ppb
BEC = 0.03756 ppb

Weight: <None>
Min Conc: <None>

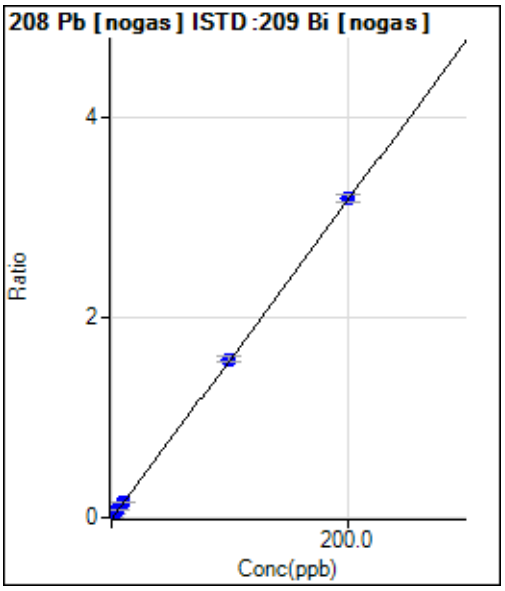


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0002	P	22.0	
2	☐	2.000	1.928	13520.22	0.0068	P	4.6	-3.6
3	☐	5.000	4.642	31897.68	0.0162	P	3.4	-7.2
4	☐	10.000	9.516	65014.78	0.0330	P	2.6	-4.8
5	☐	100.000	99.496	666311.53	0.3432	P	2.9	-0.5
6	☐	200.000	200.286	1324416.20	0.6908	P	2.8	0.1
7	☐	1.000						

y = 0.0034 * x + 1.8507E-004
R = 1.0000
DL = 0.03535 ppb
BEC = 0.05367 ppb

Weight: <None>
Min Conc: <None>

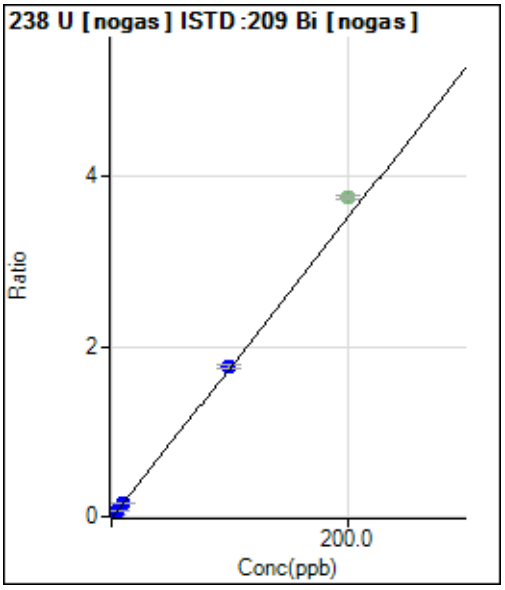
Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1466.73	0.0007	P	8.4	
2	☐	2.000	1.925	62169.81	0.0314	P	2.5	-3.7
3	☐	5.000	4.643	147198.54	0.0747	P	2.8	-7.1
4	☐	10.000	9.564	301722.54	0.1531	P	2.2	-4.4
5	☐	100.000	99.492	3078833.00	1.5860	P	2.5	-0.5
6	☐	200.000	200.285	6120024.62	3.1921	P	2.9	0.1
7	☐	1.000						

y = 0.0159 * x + 7.3447E-004
R = 1.0000
DL = 0.0116 ppb
BEC = 0.04609 ppb

Weight: <None>
Min Conc: <None>

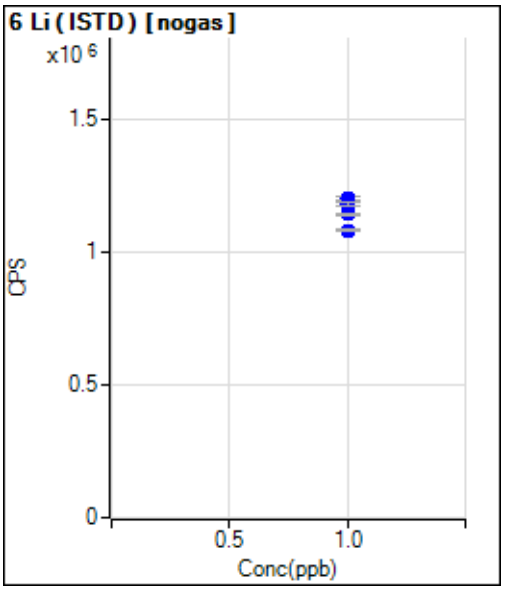


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	343.34	0.0002	P	7.4	
2	☐	2.000	1.847	64924.54	0.0328	P	3.4	-7.6
3	☐	5.000	4.414	153934.20	0.0781	P	2.3	-11.7
4	☐	10.000	9.358	325971.88	0.1655	P	3.0	-6.4
5	☐	100.000	100.097	3432208.07	1.7681	P	2.9	0.1
6	☑	200.000		7201468.64	3.7555	A	1.4	
7	☐	1.000						

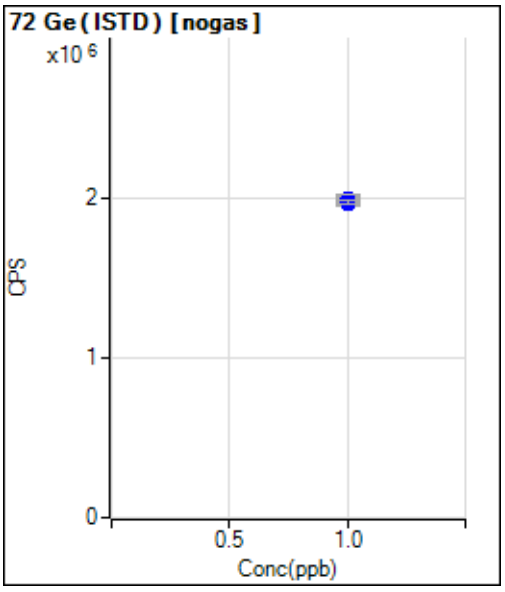
y = 0.0177 * x + 1.7207E-004
R = 1.0000
DL = 0.002159 ppb
BEC = 0.009742 ppb

Weight: <None>
Min Conc: <None>

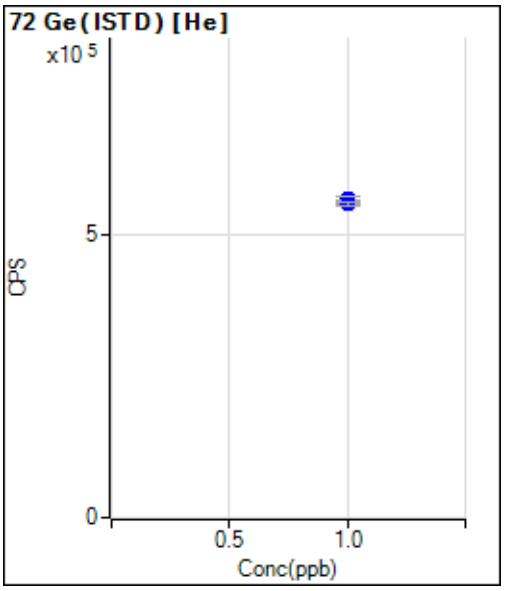
Calibration for 018_ICV.d



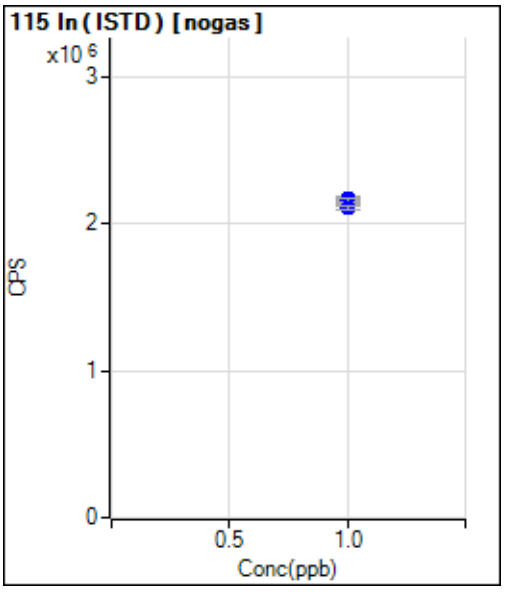
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1203227.74		P	0.8	
2	☐	1.000		1193508.93		P	0.6	
3	☐	1.000		1191395.91		P	0.9	
4	☐	1.000		1180471.97		P	1.2	
5	☐	1.000		1142066.80		P	0.9	
6	☐	1.000		1081711.07		P	0.5	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1982231.74		P	1.2	
2	☐	1.000		1996595.18		P	1.1	
3	☐	1.000		1981613.57		P	0.4	
4	☐	1.000		1959499.40		P	1.1	
5	☐	1.000		1993151.17		P	2.4	
6	☐	1.000		1974624.14		P	1.3	
7	☐	1.000						

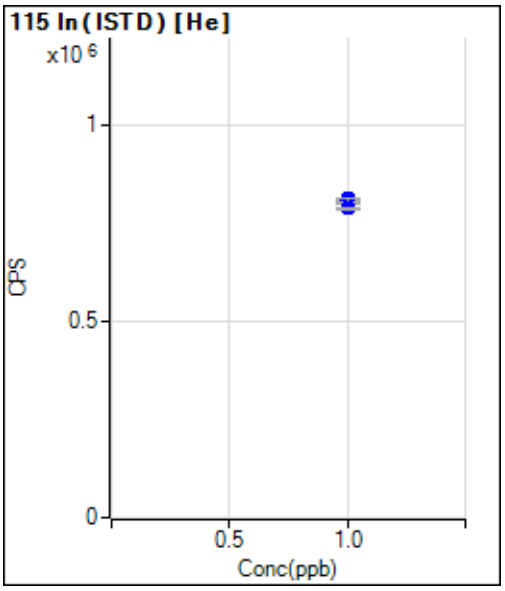


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		555354.84		P	1.1	
2	☐	1.000		558225.14		P	0.3	
3	☐	1.000		558866.96		P	0.6	
4	☐	1.000		552184.09		P	0.6	
5	☐	1.000		563184.17		P	1.0	
6	☐	1.000		552656.27		P	1.3	
7	☐	1.000						

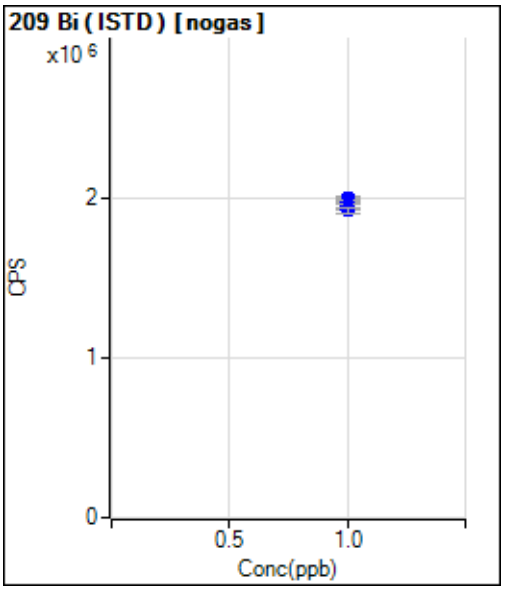


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2134542.14		P	1.1	
2	☐	1.000		2173965.33		P	1.0	
3	☐	1.000		2154782.79		P	0.6	
4	☐	1.000		2146212.30		P	0.6	
5	☐	1.000		2162352.09		P	1.6	
6	☐	1.000		2112971.74		P	1.0	
7	☐	1.000						

Calibration for 018_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		803215.99		P	1.0	
2	☐	1.000		813832.25		P	0.5	
3	☐	1.000		814931.63		P	0.3	
4	☐	1.000		814303.97		P	0.6	
5	☐	1.000		811383.27		P	1.4	
6	☐	1.000		788653.90		P	0.8	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1995496.43		P	1.4	
2	☐	1.000		1979649.71		P	1.0	
3	☐	1.000		1970568.15		P	1.1	
4	☐	1.000		1970733.30		P	1.6	
5	☐	1.000		1941631.12		P	1.4	
6	☐	1.000		1917907.31		P	1.8	
7	☐	1.000						

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV2
Data File Name	020LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T10:20:54-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	1.850	0.790	11151	0.78	2	92.5	70	120	
B	11	1	nogas	26.978	1.268	127954	1.76	10	269.8	70	120	NewName Main CR1 Failed
Al	27	1	nogas	0.741	1.763	95325	1.02	2	37.1	70	120	NewName Main CR1 Failed
P	31	1	nogas	10.457	97.805	37069	2.72	10	104.6	70	120	
Ti	47	1	nogas	2.162	5.146	3307	5.55	2	108.1	70	120	
Ni	60	1	nogas	1.980	4.189	9366	4.53	2	99.0	70	120	
Cu	63	1	nogas	1.934	6.340	21883	6.49	2	96.7	70	120	
Zn	66	1	nogas	1.902	5.509	8102	4.38	2	95.1	70	120	
Se	77	1	nogas	-5.471	-39.619	3667	7.77	2	-273.5	70	120	NewName Main CR1 Failed
Se	82	1	nogas	1.947	37.464	603	19.42	2	97.3	70	120	
Sr	88	1	nogas	1.886	2.250	45561	2.40	2	94.3	70	120	
Mo	95	1	nogas	1.966	2.101	10354	0.77	2	98.3	70	120	
Ag	107	1	nogas	2.226	2.072	25202	2.12	2	111.3	70	120	
Cd	111	1	nogas	1.910	3.821	4614	2.56	2	95.5	70	120	
Sn	118	1	nogas	2.151	4.916	19116	3.00	2	107.6	70	120	
Sb	121	1	nogas	2.203	1.059	23994	1.84	2	110.1	70	120	
Ba	137	1	nogas	2.027	1.978	7756	1.20	2	101.4	70	120	
Tl	205	1	nogas	1.960	3.573	45660	2.35	2	98.0	70	120	
Pb	208	1	nogas	1.941	3.458	62537	2.09	2	97.1	70	120	
[Pb]	206	1	nogas	1.953	3.394	15703	2.88	2	97.6	70	120	
[Pb]	207	1	nogas	1.941	2.216	13584	2.51	2	97.0	70	120	
U	238	1	nogas	1.880	1.329	65946	0.19	2	94.0	70	120	
Li	7	1	nogas	1.782	3.405	123059	0.35	2	89.1	70	120	
Ba	135	1	nogas	2.081	2.429	4561	1.58	2	104.1	70	120	
Tl	203	1	nogas	1.961	5.174	18807	4.18	2	98.1	70	120	
Na	23	2	He	192.575	1.834	357642	0.68	200	96.3	70	120	
Mg	24	2	He	193.756	1.180	174792	0.27	200	96.9	70	120	
Al	27	2	He	0.926	10.970	3624	1.52	2	46.3	70	120	NewName Main CR1 Failed
K	39	2	He	186.593	1.496	254561	0.92	200	93.3	70	120	
Ca	43	2	He	210.544	7.354	613	7.35	200	105.3	70	120	
Ca	44	2	He	184.699	9.171	10100	6.25	200	92.3	70	120	
V	51	2	He	1.731	2.817	11945	1.29	2	86.6	70	120	
Cr	52	2	He	1.846	0.863	20387	1.47	2	92.3	70	120	
Mn	55	2	He	1.913	2.048	9963	2.35	2	95.7	70	120	
Fe	56	2	He	185.954	0.114	1082695	0.96	200	93.0	70	120	
Co	59	2	He	1.949	3.400	15939	3.16	2	97.4	70	120	
Ni	60	2	He	1.948	6.866	4254	5.66	2	97.4	70	120	
Cu	63	2	He	2.035	1.858	11261	0.97	2	101.8	70	120	
Zn	66	2	He	2.067	4.304	3087	2.21	2	103.4	70	120	
As	75	2	He	2.027	3.488	1851	4.17	2	101.4	70	120	
Se	77	2	He	2.865	20.652	93	16.37	2	143.2	70	120	NewName Main CR1 Failed
Sb	121	2	He	2.179	2.927	9667	2.39	2	108.9	70	120	
Se	78	2	He	2.284	22.475	253	16.65	2	114.2	70	120	
Ti	47	2	He	1.583	18.103	397	17.89	2	79.2	70	120	
Zr	90	1	nogas	1.484	2.809	25820	3.41	2	74.2	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	2007815	0.83	1982232	101.29	70	120	
In	115	1	nogas	2189640	1.28	2134542	102.58	70	120	
Li	6	1	nogas	1209954	0.81	1203228	100.56	70	120	
Bi	209	1	nogas	1975513	1.47	1995496	99.00	70	120	
Ge	72	2	He	568490	0.99	555355	102.37	70	120	
In	115	2	He	817669	0.75	803216	101.80	70	120	

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\070424A.b
Acq Date Time	2024-07-04T10:23:01-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	4.431	2.085	26444	1.31	5	88.6	70	130	
B	11	1	nogas	38.119	1.855	168050	2.25	25	152.5	70	130	NewName Main CR1 Failed
Al	27	1	nogas	3.784	1.477	138717	1.16	5	75.7	70	130	
P	31	1	nogas	24.969	20.378	37774	1.54	25	99.9	70	130	
Ti	47	1	nogas	4.733	3.987	6902	4.91	5	94.7	70	130	
Ni	60	1	nogas	4.837	4.383	21272	2.69	5	96.7	70	130	
Cu	63	1	nogas	4.918	3.011	51285	2.20	5	98.4	70	130	
Zn	66	1	nogas	5.151	1.645	17487	2.69	5	103.0	70	130	
Se	77	1	nogas	-0.880	-246.911	4174	5.39	5	-17.6	70	130	NewName Main CR1 Failed
Se	82	1	nogas	4.750	19.890	1043	13.01	5	95.0	70	130	
Sr	88	1	nogas	4.667	0.686	109534	1.03	5	93.3	70	130	
Mo	95	1	nogas	4.608	2.520	23679	2.78	5	92.2	70	130	
Ag	107	1	nogas	5.403	0.532	60469	0.94	5	108.1	70	130	
Cd	111	1	nogas	4.563	2.834	10902	2.92	5	91.3	70	130	
Sn	118	1	nogas	4.868	1.585	38739	0.74	5	97.4	70	130	
Sb	121	1	nogas	4.777	1.854	49830	3.10	5	95.5	70	130	
Ba	137	1	nogas	4.655	4.071	17071	4.03	5	93.1	70	130	
Tl	205	1	nogas	4.598	3.645	106591	3.43	5	92.0	70	130	
Pb	208	1	nogas	4.639	2.333	147083	2.01	5	92.8	70	130	
U	238	1	nogas	4.514	2.587	157413	2.13	5	90.3	70	130	
Li	7	1	nogas	4.499	2.210	172209	0.57	5	90.0	70	130	
Na	23	2	He	474.197	1.231	795551	0.68	500	94.8	70	130	
Mg	24	2	He	469.846	1.080	419808	0.25	500	94.0	70	130	
Al	27	2	He	4.717	17.327	5675	7.30	5	94.3	70	130	
K	39	2	He	460.171	1.167	504654	0.60	500	92.0	70	130	
Ca	43	2	He	464.422	13.642	1250	13.46	500	92.9	70	130	
Ca	44	2	He	484.232	2.305	22464	1.28	500	96.8	70	130	
V	51	2	He	4.618	3.644	27636	3.44	5	92.4	70	130	
Cr	52	2	He	4.612	2.713	37263	1.85	5	92.2	70	130	
Mn	55	2	He	4.926	1.581	23656	0.68	5	98.5	70	130	
Fe	56	2	He	454.974	0.849	2610833	0.45	500	91.0	70	130	
Co	59	2	He	4.786	4.024	38713	4.75	5	95.7	70	130	
Ni	60	2	He	4.831	4.512	10067	3.67	5	96.6	70	130	
Cu	63	2	He	4.844	3.542	25656	2.82	5	96.9	70	130	
Zn	66	2	He	5.063	4.471	6375	4.67	5	101.3	70	130	
As	75	2	He	4.829	2.401	4161	2.73	5	96.6	70	130	
Sb	121	2	He	4.779	1.561	20518	2.06	5	95.6	70	130	
Se	78	2	He	4.913	4.758	453	4.00	5	98.3	70	130	
Ti	47	2	He	4.761	1.665	1140	2.32	5	95.2	70	130	
Zr	90	1	nogas	3.954	1.821	65720	2.46	5	79.1	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	1971639	1.71	1982232	99.47	70	120	
In	115	1	nogas	2168249	0.72	2134542	101.58	70	120	
Li	6	1	nogas	1201585	0.78	1203228	99.86	70	120	
Bi	209	1	nogas	1970158	0.50	1995496	98.73	70	120	
Ge	72	2	He	566611	0.83	555355	102.03	70	120	
In	115	2	He	826519	1.74	803216	102.90	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\070424A.b
Acq Date Time	2024-07-04T10:27:15-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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
Sb	121	1	nogas	0.052	17.5	1657	5.7	2	
V	51	2	He	-0.177	-21.5	1499	13.5	2.5	
Sb	121	2	He	0.076	33.6	837	13.2	2	
V	51	1	nogas	0.082	74.3	1948	67.2	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	2014655	0.61	1982232	101.64	70	120	
In	115	1	nogas	2162163	0.82	2134542	101.29	70	120	
Li	6	1	nogas	1205546	0.86	1203228	100.19	70	120	
Bi	209	1	nogas	1943167	2.57	1995496	97.38	70	120	
Ge	72	2	He	563934	0.47	555355	101.54	70	120	
In	115	2	He	814997	1.27	803216	101.47	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSA
Data File Name	024ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T10:31:18-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	0.038	27.133	253	21.29	2	1.9	100	50	
B	11	1	nogas	20.715	2.974	94685	1.65	20	103.6	100	50	ICSA Main CR1 Failed
Al	27	1	nogas	100365.744	1.499	1421294165	0.73	10	1003657.4	100	0	
P	31	1	nogas	926975.979	1.172	83911950	0.27	20	4634879.9	100	50	ICSA Main CR1 FailedICSA Main CR2 Failed
Ti	47	1	nogas	2134.370	0.407	2896548	1.35	5	42687.4	100	50	ICSA Main CR1 Failed
Ni	60	1	nogas	1.606	0.432	7275	1.34	5	32.1	100	50	
Cu	63	1	nogas	1.115	6.246	12702	5.59	2	55.7	100	50	
Zn	66	1	nogas	3.840	5.209	13029	5.04	5	76.8	100	50	ICSA Main CR1 Failed
Se	77	1	nogas	15.566	7.155	5958	3.21	5	311.3	100	50	ICSA Main CR1 Failed
Se	82	1	nogas	-0.260	-132.314	227	24.30	2	-13.0	100	50	
Sr	88	1	nogas	1.010	1.631	21997	1.46	5	20.2	100	50	
Mo	95	1	nogas	2176.627	0.210	9796825	0.05	5	43532.5	100	50	ICSA Main CR1 Failed
Ag	107	1	nogas	0.045	27.845	513	24.67	5	0.9	100	50	
Cd	111	1	nogas	0.730	18.657	1554	18.66	2	36.5	100	50	
Sn	118	1	nogas	0.443	5.361	5738	2.54	10	4.4	100	50	
Sb	121	1	nogas	0.177	2.611	2764	2.06	4	4.4	100	50	
Ba	137	1	nogas	0.664	0.326	2487	0.23	5	13.3	100	50	
Tl	205	1	nogas	0.018	20.739	563	18.65	2	0.9	100	50	
Pb	208	1	nogas	0.965	6.906	28335	1.14	5	19.3	100	50	
U	238	1	nogas	0.008	50.238	563	19.79	5	0.2	0	50	
Li	7	1	nogas	0.429	1.663	88580	0.68		#DIV/0!	0	50	
Ba	135	1	nogas	0.706	5.679	1483	5.15		#DIV/0!	0	50	
Tl	203	1	nogas	0.030	33.948	310	25.81		#DIV/0!	0	50	
Na	23	2	He	106312.801	1.273	153593031	0.77	200	53156.4	100	0	
Mg	24	2	He	105281.950	1.360	86754682	0.84	200	52641.0	100	0	
Al	27	2	He	104830.729	1.600	52880353	1.05	10	1048307.3	100	0	
K	39	2	He	107279.633	1.388	91226622	0.82	200	53639.8	100	0	
Ca	43	2	He	100244.332	0.552	233528	0.37	200	50122.2	100	0	
Ca	44	2	He	103650.289	1.356	3975396	0.80	200	51825.1	100	0	
V	51	2	He	0.202	25.459	3308	7.48	5	4.0	100	50	
Cr	52	2	He	0.877	20.305	13316	7.04	5	17.5	100	50	
Mn	55	2	He	1.538	5.379	7612	4.12	5	30.8	100	50	
Fe	56	2	He	103803.224	0.572	547525992	0.29	200	51901.6	100	50	ICSA Main CR1 Failed
Co	59	2	He	1.047	8.053	7996	7.43	5	20.9	100	50	
Ni	60	2	He	1.173	3.892	2477	3.82	5	23.5	100	50	
Cu	63	2	He	0.879	0.764	4891	0.35	2	43.9	100	50	
Zn	66	2	He	3.434	5.491	4244	4.91	5	68.7	100	50	ICSA Main CR1 Failed
As	75	2	He	0.444	5.841	497	3.55	5	8.9	100	50	
Sb	121	2	He	0.185	22.012	1200	13.10	4	4.6	100	50	
Se	78	2	He	-0.009	-2936.448	70	28.57	2	-0.5	100	50	
Ti	47	2	He	2133.528	2.413	463274	1.86	5	42670.6	100	50	ICSA Main CR1 Failed
Cr	52	1	nogas	0.782	1.356	25639	0.85		#DIV/0!	0	50	
Mn	55	1	nogas	0.980	0.369	31236	1.22		#DIV/0!	0	50	
Co	59	1	nogas	0.990	1.692	18655	2.18		#DIV/0!	0	50	
V	51	1	nogas	0.164	65.482	3430	61.58		#DIV/0!	0	50	
Fe	56	1	nogas	102190.705	0.946	1946805678	0.28		#DIV/0!	0	50	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1883073	0.97	1982232	95.00	70	120	
In	115	1	nogas	1920739	0.24	2134542	89.98	70	120	
Li	6	1	nogas	1093742	0.75	1203228	90.90	70	120	
Bi	209	1	nogas	1762421	5.70	1995496	88.32	70	120	
Ge	72	2	He	524866	0.57	555355	94.51	70	120	
In	115	2	He	725596	0.32	803216	90.34	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	025ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T10:33:22-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	93.866	1.044	489569	1.90	100	93.9	80	120	
B	11	1	nogas	524.632	0.354	1714043	1.68	100	524.6	80	120	ICSB Main CR1 Failed
Al	27	1	nogas	96894.535	0.509	1410178059	1.11	100100	96.8	80	120	
Ti	47	1	nogas	2192.156	0.802	3057106	1.33	2100	104.4	80	120	
Ni	60	1	nogas	92.095	1.675	383149	2.19	100	92.1	80	120	
Cu	63	1	nogas	91.057	1.127	895043	2.07	100	91.1	80	120	
Zn	66	1	nogas	98.734	0.204	286626	1.41	100	98.7	80	120	
Se	77	1	nogas	119.278	5.043	18879	4.19	100	119.3	80	120	
Se	82	1	nogas	100.389	3.654	16172	4.89	100	100.4	80	120	
Sr	88	1	nogas	103.519	1.109	2163485	1.76	100	103.5	80	120	
Mo	95	1	nogas	2239.759	0.461	10262027	1.53	2100	106.7	80	120	
Ag	107	1	nogas	108.888	0.083	1097625	1.35	100	108.9	80	120	
Cd	111	1	nogas	100.321	1.153	215918	2.12	100	100.3	80	120	
Sn	118	1	nogas	101.653	1.272	671303	2.16	100	101.7	80	120	
Sb	121	1	nogas	98.143	1.168	983766	1.43	100	98.1	80	120	
Ba	137	1	nogas	103.792	1.468	334836	2.34	100	103.8	80	120	
Tl	205	1	nogas	99.698	2.537	2040121	2.97	100	99.7	80	120	
Pb	208	1	nogas	101.664	2.423	2823489	2.86	100	101.7	80	120	
U	238	1	nogas	103.151	1.765	3174402	2.21	100	103.2	80	120	
Li	7	1	nogas	100.665	0.746	1700476	1.25	100	100.7	80	120	
Na	23	2	He	113727.509	0.279	166128534	0.81	110000	103.4	80	120	
Mg	24	2	He	112246.430	0.683	93519382	0.35	110000	102.0	80	120	
Al	27	2	He	102605.124	0.426	52333203	0.55	100100	102.5	80	120	
K	39	2	He	113797.131	1.186	97840105	1.32	110000	103.5	80	120	
Ca	43	2	He	109322.253	1.038	257481	0.48	110000	99.4	80	120	
Ca	44	2	He	112070.147	0.713	4345811	0.15	110000	101.9	80	120	
V	51	2	He	98.577	0.490	505447	1.31	100	98.6	80	120	
Cr	52	2	He	96.979	0.793	564979	0.94	100	97.0	80	120	
Mn	55	2	He	99.605	1.826	426224	2.01	100	99.6	80	120	
Fe	56	2	He	112264.861	0.888	598730564	1.27	110000	102.1	80	120	
Co	59	2	He	96.177	1.525	724630	1.34	100	96.2	80	120	
Ni	60	2	He	94.829	0.306	179849	0.74	100	94.8	80	120	
Cu	63	2	He	92.719	0.914	447102	1.29	100	92.7	80	120	
Zn	66	2	He	99.440	0.619	103238	0.78	100	99.4	80	120	
As	75	2	He	101.425	1.135	78674	0.30	100	101.4	80	120	
Sb	121	2	He	99.660	0.788	391006	0.65	100	99.7	80	120	
Se	78	2	He	99.290	1.580	7209	1.97	100	99.3	80	120	
Ti	47	2	He	2194.694	0.299	481886	1.16	100	2194.7	80	120	ICSB Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1935197	1.56	1982232	97.63	70	120	
In	115	1	nogas	1955195	1.27	2134542	91.60	70	120	
Li	6	1	nogas	1052158	1.34	1203228	87.44	70	120	
Bi	209	1	nogas	1742091	0.46	1995496	87.30	70	120	
Ge	72	2	He	530682	0.86	555355	95.56	70	120	
In	115	2	He	727439	0.39	803216	90.57	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	105CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T13:34:28-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	48	65.39
B	11	1	nogas	58366	0.00
Al	27	1	nogas	99390	0.00
P	31	1	nogas	48093	0.00
Ti	47	1	nogas	197	15.15
Ni	60	1	nogas	567	2.65
Cu	63	1	nogas	1193	1.10
Zn	66	1	nogas	2654	0.30
Se	77	1	nogas	5841	0.11
Se	82	1	nogas	320	5.94
Sr	88	1	nogas	1553	0.32
Mo	95	1	nogas	203	7.39
Ag	107	1	nogas	83	46.29
Sn	118	1	nogas	2767	0.16
Sb	121	1	nogas	577	2.11
Ba	137	1	nogas	530	4.33
Tl	205	1	nogas	93	56.63
Pb	208	1	nogas	767	1.54
Li	7	1	nogas	97484	0.00
Na	23	2	He	66547	0.00
Mg	24	2	He	1817	0.21
Al	27	2	He	3630	0.27
K	39	2	He	94313	0.00
Ca	43	2	He	103	62.36
Ca	44	2	He	1944	0.30
V	51	2	He	2707	0.70
Cr	52	2	He	10074	0.02
Mn	55	2	He	1150	0.87
Fe	56	2	He	21746	0.01
Co	59	2	He	70	20.41
Ni	60	2	He	263	0.83
Cu	63	2	He	597	2.03
Zn	66	2	He	830	0.29
As	75	2	He	198	6.84
Sb	121	2	He	247	9.05
Se	78	2	He	79	13.06

QC ISTD Table

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Ge	72	1	nogas	2338924	0.40
In	115	1	nogas	2494311	0.58
Li	6	1	nogas	1369634	0.98

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	nogas	2222206	2.82
Ge	72	2	He	638660	1.39
In	115	2	He	918037	0.65

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	106CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T13:36:36-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	105CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	12617	0.01
B	11	1	nogas	97005	0.00
Al	27	1	nogas	110431	0.00
P	31	1	nogas	50488	0.01
Ti	47	1	nogas	3344	0.18
Ni	60	1	nogas	10541	0.02
Cu	63	1	nogas	24567	0.01
Zn	66	1	nogas	9123	0.04
Se	77	1	nogas	5688	0.04
Se	82	1	nogas	723	0.48
Sr	88	1	nogas	52925	0.01
Mo	95	1	nogas	11198	0.04
Ag	107	1	nogas	28291	0.01
Cd	111	1	nogas	5638	0.14
Sn	118	1	nogas	18258	0.00
Sb	121	1	nogas	22655	0.01
Ba	137	1	nogas	8699	0.04
Tl	205	1	nogas	48410	0.01
Pb	208	1	nogas	67380	0.00
Na	23	2	He	419109	0.00
Mg	24	2	He	202181	0.00
Al	27	2	He	4051	0.02
K	39	2	He	299341	0.00
Ca	43	2	He	703	1.62
Ca	44	2	He	11545	0.04
V	51	2	He	14570	0.02
Cr	52	2	He	22504	0.01
Mn	55	2	He	10641	0.04
Fe	56	2	He	1251552	0.00
Co	59	2	He	18498	0.00
Ni	60	2	He	4998	0.14
Cu	63	2	He	12225	0.01
Zn	66	2	He	3721	0.30
As	75	2	He	2090	0.21
Sb	121	2	He	9130	0.01
Se	78	2	He	263	5.81

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	2325446	0.59	2338924	99.42	70	120	
In	115	1	nogas	2496167	0.76	2494311	100.07	70	120	
Li	6	1	nogas	1359468	0.79	1369634	99.26	70	120	
Bi	209	1	nogas	2205027	1.85	2222206	99.23	70	120	
Ge	72	2	He	652930	0.63	638660	102.23	70	120	
In	115	2	He	927093	0.86	918037	100.99	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	107CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T13:38:42-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	105CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	30199	0.01
B	11	1	nogas	151524	0.00
Al	27	1	nogas	172768	0.00
P	31	1	nogas	51998	0.00
Ti	47	1	nogas	7912	0.09
Ni	60	1	nogas	24484	0.01
Cu	63	1	nogas	57862	0.00
Zn	66	1	nogas	20017	0.02
Se	77	1	nogas	6492	0.02
Se	82	1	nogas	1163	1.01
Sr	88	1	nogas	124247	0.00
Mo	95	1	nogas	26361	0.01
Ag	107	1	nogas	67741	0.00
Cd	111	1	nogas	12466	0.02
Sn	118	1	nogas	40658	0.01
Sb	121	1	nogas	53851	0.01
Ba	137	1	nogas	19217	0.01
Tl	205	1	nogas	117291	0.00
Pb	208	1	nogas	162155	0.00
Na	23	2	He	924727	0.00
Mg	24	2	He	481216	0.00
Al	27	2	He	6398	0.02
K	39	2	He	586972	0.00
Ca	43	2	He	1383	1.58
Ca	44	2	He	25225	0.00
V	51	2	He	30896	0.02
Cr	52	2	He	43135	0.00
Mn	55	2	He	25789	0.01
Fe	56	2	He	2999583	0.00
Co	59	2	He	44352	0.00
Ni	60	2	He	11321	0.02
Cu	63	2	He	29753	0.00
Zn	66	2	He	7512	0.04
As	75	2	He	4753	0.05
Sb	121	2	He	22254	0.01
Se	78	2	He	502	0.73

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	2308597	0.79	2338924	98.70	70	120	
In	115	1	nogas	2489501	1.00	2494311	99.81	70	120	
Li	6	1	nogas	1346308	0.58	1369634	98.30	70	120	
Bi	209	1	nogas	2212425	2.89	2222206	99.56	70	120	
Ge	72	2	He	651297	0.07	638660	101.98	70	120	
In	115	2	He	929249	0.85	918037	101.22	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/1000
Data File Name	108CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T13:40:49-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	105CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	62587	0.00
B	11	1	nogas	253539	0.00
Al	27	1	nogas	243272	0.00
P	31	1	nogas	55735	0.00
Ti	47	1	nogas	16162	0.03
Ni	60	1	nogas	48264	0.00
Cu	63	1	nogas	116916	0.00
Zn	66	1	nogas	35713	0.01
Se	77	1	nogas	7972	0.05
Se	82	1	nogas	2197	0.70
Sr	88	1	nogas	254353	0.00
Mo	95	1	nogas	54408	0.01
Ag	107	1	nogas	141264	0.00
Cd	111	1	nogas	26004	0.01
Sn	118	1	nogas	81603	0.00
Sb	121	1	nogas	111273	0.00
Ba	137	1	nogas	38479	0.01
Tl	205	1	nogas	243609	0.00
Pb	208	1	nogas	333678	0.00
Na	23	2	He	1802471	0.00
Mg	24	2	He	981401	0.00
Al	27	2	He	8899	0.05
K	39	2	He	1085074	0.00
Ca	43	2	He	2804	0.21
Ca	44	2	He	47922	0.00
V	51	2	He	62058	0.01
Cr	52	2	He	77974	0.00
Mn	55	2	He	52113	0.00
Fe	56	2	He	6614454	0.00
Co	59	2	He	88727	0.00
Ni	60	2	He	22824	0.01
Cu	63	2	He	59267	0.00
Zn	66	2	He	13076	0.01
As	75	2	He	9440	0.04
Sb	121	2	He	45335	0.00
Se	78	2	He	914	0.29

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	2309191	0.83	2338924	98.73	70	120	
In	115	1	nogas	2487327	0.66	2494311	99.72	70	120	
Li	6	1	nogas	1342773	0.34	1369634	98.04	70	120	
Bi	209	1	nogas	2220260	2.51	2222206	99.91	70	120	
Ge	72	2	He	642381	0.28	638660	100.58	70	120	
In	115	2	He	923588	0.67	918037	100.60	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	109CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T13:42:56-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	105CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	632428	0.00
B	11	1	nogas	2029285	0.00
Al	27	1	nogas	1799859	0.00
P	31	1	nogas	106938	0.00
Ti	47	1	nogas	164952	0.00
Ni	60	1	nogas	486625	0.00
Cu	63	1	nogas	1145901	0.00
Zn	66	1	nogas	340039	0.00
Se	77	1	nogas	19106	0.01
Se	82	1	nogas	19026	0.02
Sr	88	1	nogas	2602344	0.00
Mo	95	1	nogas	558335	0.00
Ag	107	1	nogas	1245529	0.00
Cd	111	1	nogas	265466	0.00
Sn	118	1	nogas	807307	0.00
Sb	121	1	nogas	1149120	0.00
Ba	137	1	nogas	398258	0.00
Tl	205	1	nogas	2479027	0.00
Pb	208	1	nogas	3392613	0.00
Na	23	2	He	17831388	0.00
Mg	24	2	He	10100787	0.00
Al	27	2	He	64020	0.00
K	39	2	He	10690889	0.00
Ca	43	2	He	29128	0.01
Ca	44	2	He	469188	0.00
V	51	2	He	613389	0.00
Cr	52	2	He	693664	0.00
Mn	55	2	He	515159	0.00
Fe	56	2	He	65348781	0.00
Co	59	2	He	908228	0.00
Ni	60	2	He	224630	0.00
Cu	63	2	He	575562	0.00
Zn	66	2	He	124424	0.00
As	75	2	He	93501	0.00
Sb	121	2	He	458279	0.00
Se	78	2	He	8778	0.02

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	2320299	0.85	2338924	99.20	70	120	
In	115	1	nogas	2460060	1.69	2494311	98.63	70	120	
Li	6	1	nogas	1262458	0.14	1369634	92.17	70	120	
Bi	209	1	nogas	2187032	0.97	2222206	98.42	70	120	
Ge	72	2	He	640831	0.90	638660	100.34	70	120	
In	115	2	He	914161	0.91	918037	99.58	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	110CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T13:45:01-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	105CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	1220021	0.00
B	11	1	nogas	3970871	0.00
Al	27	1	nogas	3419934	0.00
P	31	1	nogas	154229	0.00
Ti	47	1	nogas	320358	0.00
Ni	60	1	nogas	941590	0.00
Cu	63	1	nogas	2217217	0.00
Zn	66	1	nogas	663312	0.00
Se	77	1	nogas	32977	0.01
Se	82	1	nogas	37020	0.00
Sr	88	1	nogas	5372347	0.00
Mo	95	1	nogas	1108328	0.00
Ag	107	1	nogas	2431924	0.00
Cd	111	1	nogas	521899	0.00
Sn	118	1	nogas	1611475	0.00
Sb	121	1	nogas	2305797	0.00
Ba	137	1	nogas	796818	0.00
Tl	205	1	nogas	5282593	0.00
Pb	208	1	nogas	6704128	0.00
Na	23	2	He	34445404	0.00
Mg	24	2	He	19477114	0.00
Al	27	2	He	123819	0.00
K	39	2	He	20539382	0.00
Ca	43	2	He	54652	0.00
Ca	44	2	He	915174	0.00
V	51	2	He	1201088	0.00
Cr	52	2	He	1353115	0.00
Mn	55	2	He	1003702	0.00
Fe	56	2	He	126386998	0.00
Co	59	2	He	1759577	0.00
Ni	60	2	He	445771	0.00
Cu	63	2	He	1120829	0.00
Zn	66	2	He	240419	0.00
As	75	2	He	181729	0.00
Sb	121	2	He	918093	0.00
Se	78	2	He	16720	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	2245378	0.83	2338924	96.00	70	120	
In	115	1	nogas	2386058	0.87	2494311	95.66	70	120	
Li	6	1	nogas	1164046	0.41	1369634	84.99	70	120	
Bi	209	1	nogas	2108918	1.57	2222206	94.90	70	120	
Ge	72	2	He	627359	0.58	638660	98.23	70	120	
In	115	2	He	883880	0.61	918037	96.28	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	112_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T13:52:17-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	105CALB.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	101.018	0.670	640781	0.81	100	101.0	90	110	
B	11	1	nogas	463.314	2.076	2003573	2.22	500	92.7	90	110	
Al	27	1	nogas	102.112	1.830	1836998	1.90	100	102.1	90	110	
P	31	1	nogas	2037.593	1.506	276591	1.77	500	407.5	90	110	ICV Main CR1 Failed
Ti	47	1	nogas	104.062	1.020	171130	2.30	100	104.1	90	110	
Ni	60	1	nogas	103.372	1.449	499976	1.99	100	103.4	90	110	
Cu	63	1	nogas	103.030	1.270	1173542	2.18	100	103.0	90	110	
Zn	66	1	nogas	101.264	1.158	345378	2.28	100	101.3	90	110	
Se	77	1	nogas	93.542	0.908	18765	2.61	100	93.5	90	110	
Se	82	1	nogas	99.369	3.020	18989	1.83	100	99.4	90	110	
Sr	88	1	nogas	98.351	1.397	2672523	1.55	100	98.4	90	110	
Mo	95	1	nogas	100.415	1.404	567167	1.49	100	100.4	90	110	
Ag	107	1	nogas	109.017	1.281	1356010	1.72	100	109.0	90	110	
Cd	111	1	nogas	101.692	0.702	270953	0.71	100	101.7	90	110	
Sn	118	1	nogas	101.414	1.228	832956	1.74	100	101.4	90	110	
Sb	121	1	nogas	101.521	1.762	1193348	1.23	100	101.5	90	110	
Ba	137	1	nogas	100.860	1.296	409080	2.06	100	100.9	90	110	
Tl	205	1	nogas	95.605	3.905	2568192	2.23	100	95.6	90	110	
Pb	208	1	nogas	99.381	3.155	3437894	1.52	100	99.4	90	110	
U	238	1	nogas	95.945	3.104	3931200	1.44	100	95.9	90	110	
Li	7	1	nogas	99.398	0.093	2031546	0.43	100	99.4	90	110	
Ba	135	1	nogas	101.504	0.686	235476	1.17	100	101.5	90	110	
Tl	203	1	nogas	101.132	4.296	1069887	2.62	100	101.1	90	110	
Na	23	2	He	10180.742	1.180	18091352	1.20	10000	101.8	90	110	
Mg	24	2	He	10327.391	1.168	10274952	1.13	10000	103.3	90	110	
Al	27	2	He	101.275	1.328	65422	1.74	100	101.3	90	110	
K	39	2	He	10175.834	0.830	10720614	1.40	10000	101.8	90	110	
Ca	43	2	He	10264.445	2.793	28851	2.42	10000	102.6	90	110	
Ca	44	2	He	10108.986	0.798	472264	1.22	10000	101.1	90	110	
V	51	2	He	102.690	0.615	629056	0.75	100	102.7	90	110	
Cr	52	2	He	101.875	1.097	706380	1.41	100	101.9	90	110	
Mn	55	2	He	102.044	1.665	522484	1.02	100	102.0	90	110	
Fe	56	2	He	10128.543	1.326	65354206	0.60	10000	101.3	90	110	
Co	59	2	He	102.392	1.627	919361	0.90	100	102.4	90	110	
Ni	60	2	He	102.749	1.234	232707	0.74	100	102.7	90	110	
Cu	63	2	He	102.194	0.927	584182	0.58	100	102.2	90	110	
Zn	66	2	He	101.535	0.940	124972	0.89	100	101.5	90	110	
As	75	2	He	102.316	0.769	94905	1.22	100	102.3	90	110	
Sb	121	2	He	103.294	1.851	480757	1.39	100	103.3	90	110	
Se	78	2	He	101.200	2.091	8695	1.81	100	101.2	90	110	
Ti	47	2	He	102.180	2.111	26814	1.63	100	102.2	90	110	
Zr	90	1	nogas	81.159	1.070	1480386	1.18	100	81.2	90	110	ICV Main CR1 Failed

QC ISTD Table

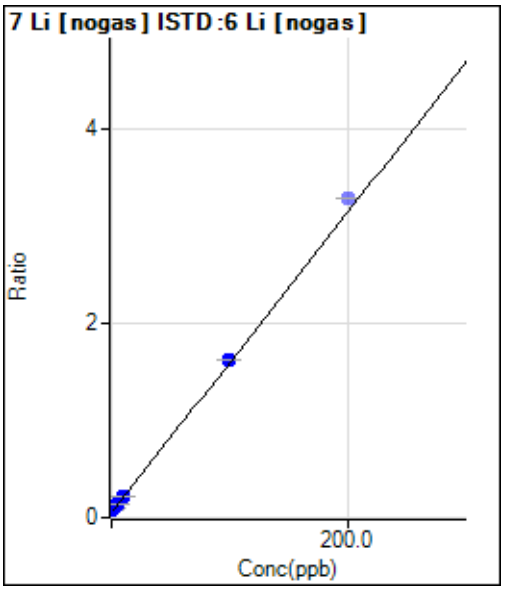
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2306208	2.76	2338924	98.60	70	120	
In	115	1	nogas	2443225	0.89	2494311	97.95	70	120	
Li	6	1	nogas	1267488	0.40	1369634	92.54	70	120	
Bi	209	1	nogas	2187206	1.71	2222206	98.42	70	120	
Ge	72	2	He	638964	0.73	638660	100.05	70	120	
In	115	2	He	916103	0.46	918037	99.79	70	120	

Calibration for 112_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070424A.b\
Analysis File: 070424A.batch.bin
DA Date-Time: 7/4/2024 9:09:53 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	105CALB.d	CAL BLK	7/4/2024 1:34:28 PM
2	106CALS.d	2/10/200	7/4/2024 1:36:36 PM
3	107CALS.d	5/25/500	7/4/2024 1:38:42 PM
4	108CALS.d	10/50/1000	7/4/2024 1:40:49 PM
5	109CALS.d	100/500/10K	7/4/2024 1:42:56 PM
6	110CALS.d	200/1000/20K	7/4/2024 1:45:01 PM
7			

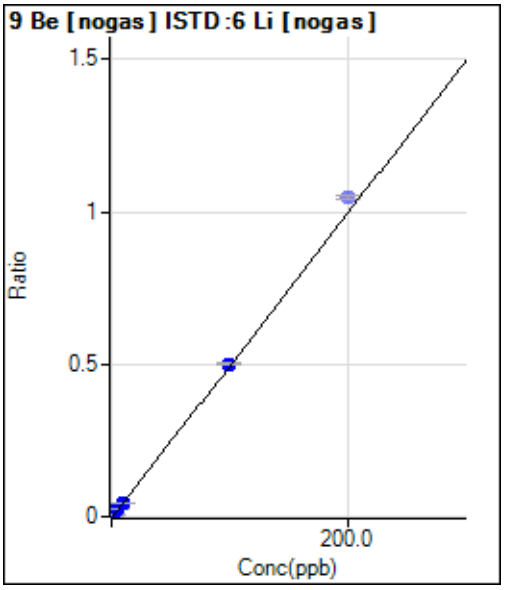
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	97483.65	0.0712	P	1.1	
2	☐	2.000	1.867	135882.28	0.1000	P	0.7	-6.6
3	☐	5.000	4.606	191377.04	0.1422	P	1.0	-7.9
4	☐	10.000	9.386	289781.91	0.2158	P	0.6	-6.1
5	☐	100.000	100.084	2036819.40	1.6134	P	0.2	0.1
6	☑	200.000		3818887.03	3.2807	P	0.3	
7	☐	1.000						

y = 0.0154 * x + 0.0712
R = 1.0000
DL = 0.1514 ppb
BEC = 4.619 ppb

Weight: <None>
Min Conc: <None>

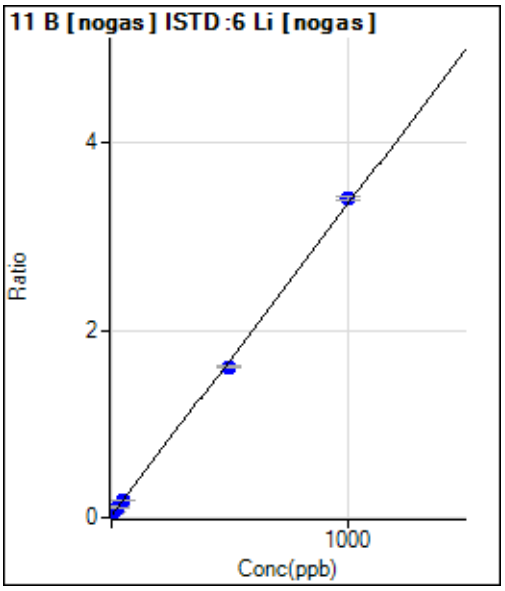


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48.33	0.0000	P	31.6	
2	☐	2.000	1.848	12616.84	0.0093	P	1.9	-7.6
3	☐	5.000	4.475	30199.28	0.0224	P	1.6	-10.5
4	☐	10.000	9.307	62586.75	0.0466	P	0.4	-6.9
5	☐	100.000	100.099	632428.08	0.5010	P	0.5	0.1
6	☑	200.000		1220021.00	1.0481	P	0.8	
7	☐	1.000						

y = 0.0050 * x + 3.5279E-005
R = 1.0000
DL = 0.006681 ppb
BEC = 0.00705 ppb

Weight: <None>
Min Conc: <None>

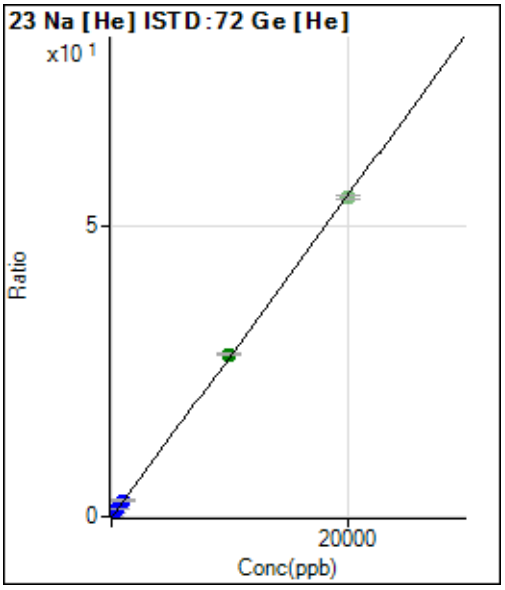
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	58365.83	0.0426	P	0.4	
2	☐	10.000	8.658	97004.83	0.0714	P	0.6	-13.4
3	☐	25.000	21.065	151523.51	0.1125	P	0.9	-15.7
4	☐	50.000	44.039	253538.51	0.1888	P	0.7	-11.9
5	☐	500.000	471.364	2029285.28	1.6074	P	1.6	-5.7
6	☐	1000.000	1014.728	3970870.88	3.4113	P	1.2	1.5
7	☐	5.000						

y = 0.0033 * x + 0.0426
R = 0.9995
DL = 0.172 ppb
BEC = 12.84 ppb

Weight: <None>
Min Conc: <None>

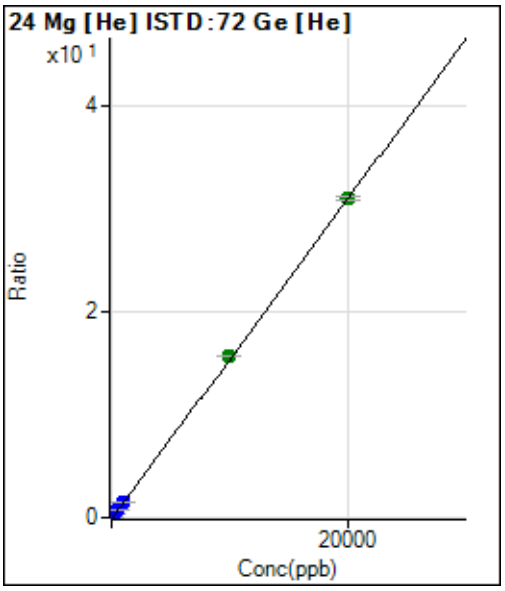


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66546.67	0.1042	P	0.9	
2	☐	200.000	194.054	419109.14	0.6419	P	0.4	-3.0
3	☐	500.000	474.805	924727.05	1.4198	P	0.8	-5.0
4	☐	1000.000	975.056	1802470.70	2.8060	P	1.1	-2.5
5	☐	10000.00	10003.87	17831388.07	27.8239	A	1.0	0.0
6	☑	20000.00		34445403.65	54.9064	A	0.6	
7	☐	100.000						

y = 0.0028 * x + 0.1042
R = 1.0000
DL = 0.9817 ppb
BEC = 37.6 ppb

Weight: <None>
Min Conc: <None>

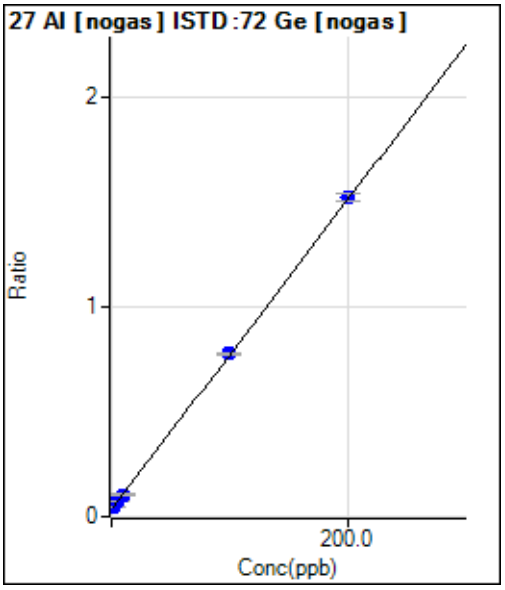
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1816.82	0.0028	P	5.1	
2	☐	200.000	197.077	202180.67	0.3097	P	1.9	-1.5
3	☐	500.000	472.763	481216.33	0.7389	P	1.8	-5.4
4	☐	1000.000	979.513	981400.51	1.5278	P	1.4	-2.0
5	☐	10000.00	10122.64	10100786.51	15.7622	A	0.4	1.2
6	☐	20000.00	19940.41	19477114.29	31.0469	A	0.7	-0.3
7	☐	100.000						

y = 0.0016 * x + 0.0028
R = 1.0000
DL = 0.28 ppb
BEC = 1.828 ppb

Weight: <None>
Min Conc: <None>

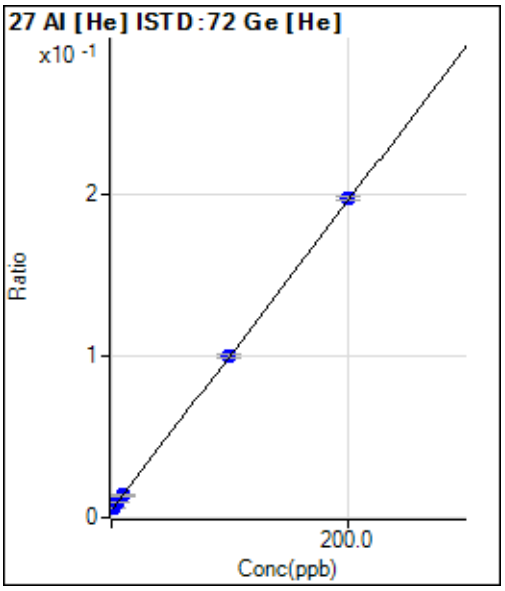


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	99389.58	0.0425	P	0.2	
2	☐	2.000	0.677	110431.41	0.0475	P	1.9	-66.2
3	☐	5.000	4.379	172767.82	0.0748	P	0.2	-12.4
4	☐	10.000	8.510	243272.32	0.1054	P	1.0	-14.9
5	☐	100.000	99.266	1799858.62	0.7757	P	0.6	-0.7
6	☐	200.000	200.470	3419934.32	1.5232	P	2.2	0.2
7	☐	1.000						

y = 0.0074 * x + 0.0425
R = 1.0000
DL = 0.02823 ppb
BEC = 5.753 ppb

Weight: <None>
Min Conc: <None>

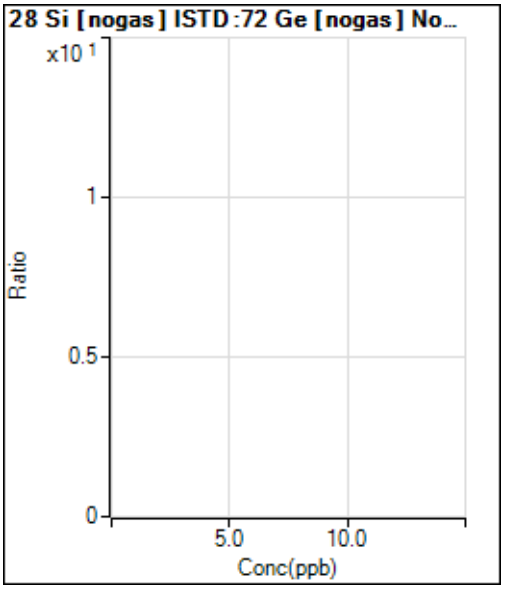
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3630.49	0.0057	P	9.1	
2	☐	2.000	0.546	4050.63	0.0062	P	0.5	-72.7
3	☐	5.000	4.337	6398.11	0.0098	P	1.1	-13.3
4	☐	10.000	8.559	8899.43	0.0139	P	4.6	-14.4
5	☐	100.000	98.686	64019.69	0.0999	P	2.0	-1.3
6	☐	200.000	200.760	123818.63	0.1974	P	1.7	0.4
7	☐	1.000						

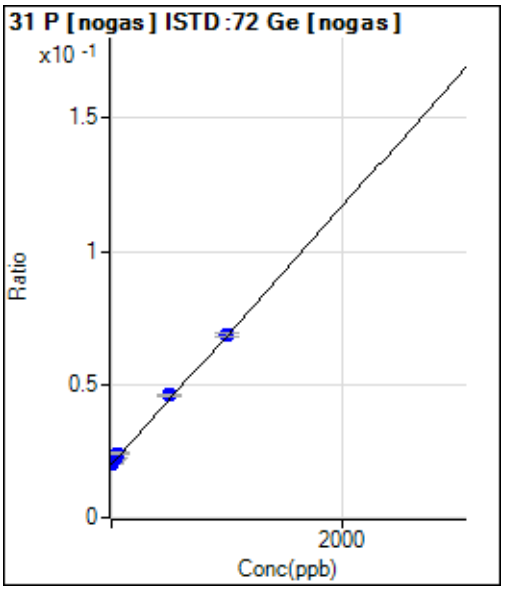
y = 9.5485E-004 * x + 0.0057
R = 1.0000
DL = 1.625 ppb
BEC = 5.951 ppb

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						

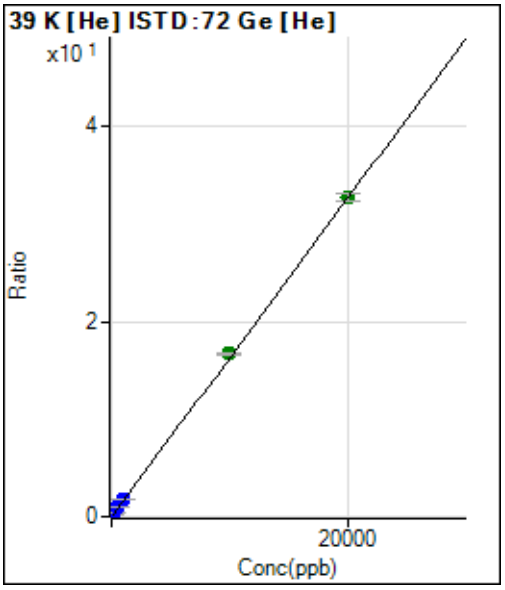
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48092.50	0.0206	P	1.3	
2	☐	10.000	23.567	50487.90	0.0217	P	2.6	135.7
3	☐	25.000	40.230	51998.23	0.0225	P	1.3	60.9
4	☐	50.000	73.295	55734.50	0.0241	P	1.1	46.6
5	☐	500.000	523.343	106937.60	0.0461	P	1.7	4.7
6	☐	1000.000	986.647	154228.91	0.0687	P	1.8	-1.3
7	☐	5.000						

y = 4.8781E-005 * x + 0.0206
R = 0.9996
DL = 15.81 ppb
BEC = 421.5 ppb

Weight: <None>
Min Conc: <None>

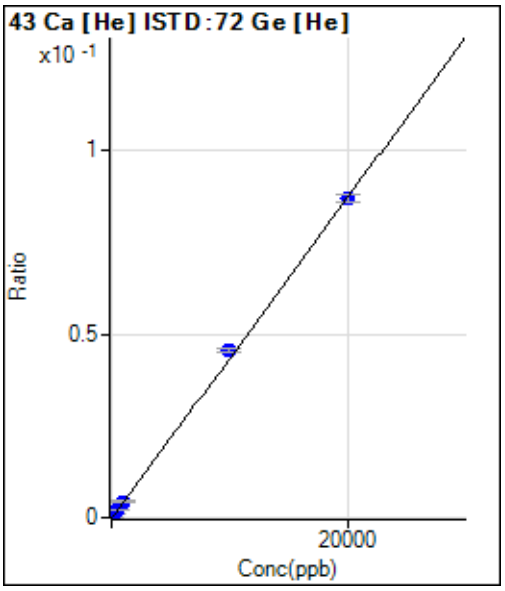


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	94313.24	0.1477	P	0.6	
2	☐	200.000	190.174	299340.94	0.4585	P	1.0	-4.9
3	☐	500.000	461.107	586971.53	0.9012	P	0.6	-7.8
4	☐	1000.000	943.226	1085073.66	1.6891	P	0.4	-5.7
5	☐	10000.00	10118.51	10690889.42	16.6840	A	1.2	1.2
6	☐	20000.00	19944.65	20539381.78	32.7425	A	2.7	-0.3
7	☐	100.000						

y = 0.0016 * x + 0.1477
R = 1.0000
DL = 1.568 ppb
BEC = 90.36 ppb

Weight: <None>
Min Conc: <None>

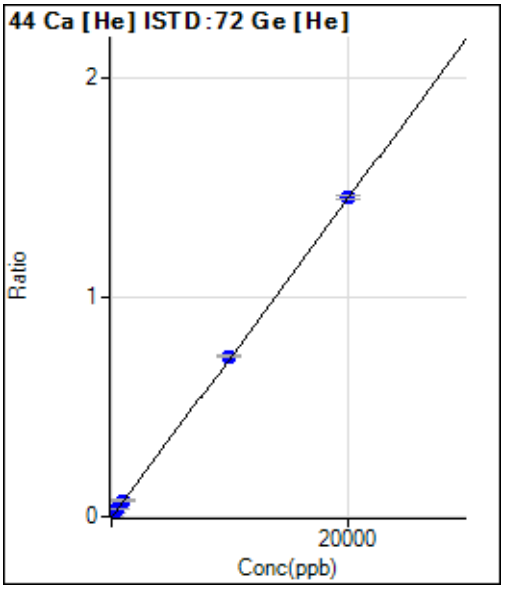
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.34	0.0002	P	65.4	
2	☐	200.000	208.798	703.36	0.0011	P	12.0	4.4
3	☐	500.000	447.446	1383.42	0.0021	P	21.8	-10.5
4	☐	1000.000	958.687	2803.66	0.0044	P	6.1	-4.1
5	☐	10000.00	10331.19	29128.31	0.0454	P	2.1	3.3
6	☐	20000.00	19837.69	54651.57	0.0871	P	2.2	-0.8
7	☐	100.000						

y = 4.3835E-006 * x + 1.6252E-004
R = 0.9998
DL = 72.79 ppb
BEC = 37.08 ppb

Weight: <None>
Min Conc: <None>

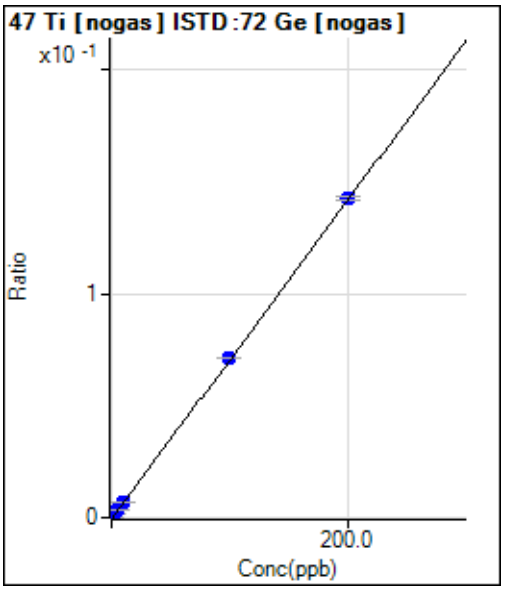


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1943.50	0.0030	P	6.9	
2	☐	200.000	201.031	11544.58	0.0177	P	4.3	0.5
3	☐	500.000	490.098	25224.58	0.0387	P	0.5	-2.0
4	☐	1000.000	982.751	47922.49	0.0746	P	0.7	-1.7
5	☐	10000.00	10013.79	469187.92	0.7322	P	1.4	0.1
6	☐	20000.00	19994.20	915174.31	1.4589	P	1.6	0.0
7	☐	100.000						

y = 7.2812E-005 * x + 0.0030
R = 1.0000
DL = 8.651 ppb
BEC = 41.82 ppb

Weight: <None>
Min Conc: <None>

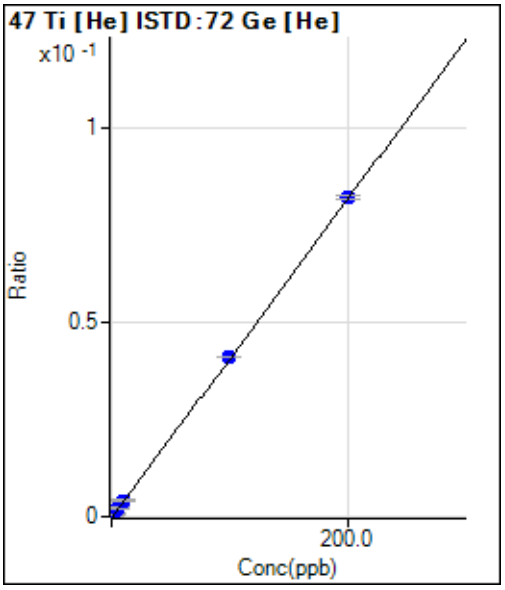
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	196.67	0.0001	P	30.1	
2	☐	2.000	1.901	3343.76	0.0014	P	6.2	-5.0
3	☐	5.000	4.695	7912.21	0.0034	P	7.8	-6.1
4	☐	10.000	9.705	16162.22	0.0070	P	4.0	-2.9
5	☐	100.000	99.679	164951.77	0.0711	P	0.2	-0.3
6	☐	200.000	200.184	320357.84	0.1427	P	1.4	0.1
7	☐	1.000						

y = 7.1234E-004 * x + 8.4155E-005
R = 1.0000
DL = 0.1067 ppb
BEC = 0.1181 ppb

Weight: <None>
Min Conc: <None>

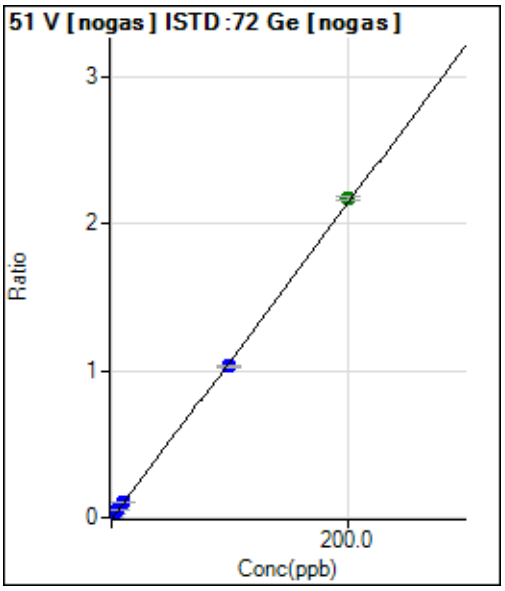


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	49.0	
2	☐	2.000	1.804	506.68	0.0008	P	24.1	-9.8
3	☐	5.000	4.925	1340.09	0.0021	P	19.5	-1.5
4	☐	10.000	9.724	2586.94	0.0040	P	9.8	-2.8
5	☐	100.000	99.802	26269.81	0.0410	P	0.5	-0.2
6	☐	200.000	200.117	51541.09	0.0822	P	1.8	0.1
7	☐	1.000						

y = 4.1037E-004 * x + 3.6428E-005
R = 1.0000
DL = 0.1305 ppb
BEC = 0.08877 ppb

Weight: <None>
Min Conc: <None>

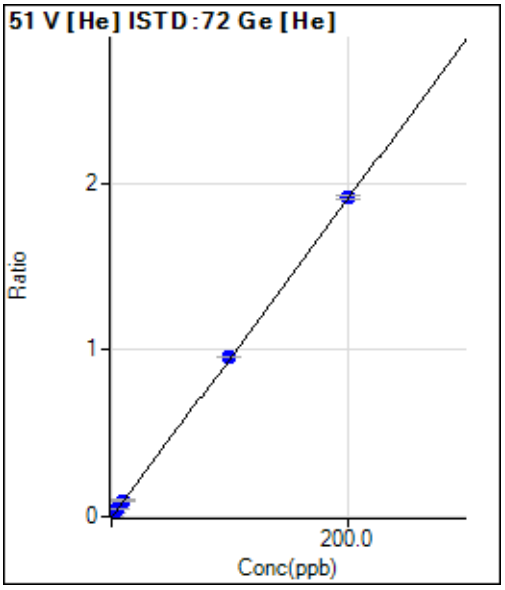
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-262.72	-0.0001	P	-1838.	
2	☐	2.000	1.902	47343.45	0.0204	P	3.8	-4.9
3	☐	5.000	4.690	116332.06	0.0504	P	3.0	-6.2
4	☐	10.000	9.461	235018.45	0.1018	P	1.6	-5.4
5	☐	100.000	95.729	2391572.87	1.0307	P	0.3	-4.3
6	☐	200.000	202.171	4887771.28	2.1769	A	1.0	1.1
7	☐	1.000						

y = 0.0108 * x - 1.1627E-004
R = 0.9997
DL = 0.5954 ppb
BEC = -0.0108 ppb

Weight: <None>
Min Conc: <None>

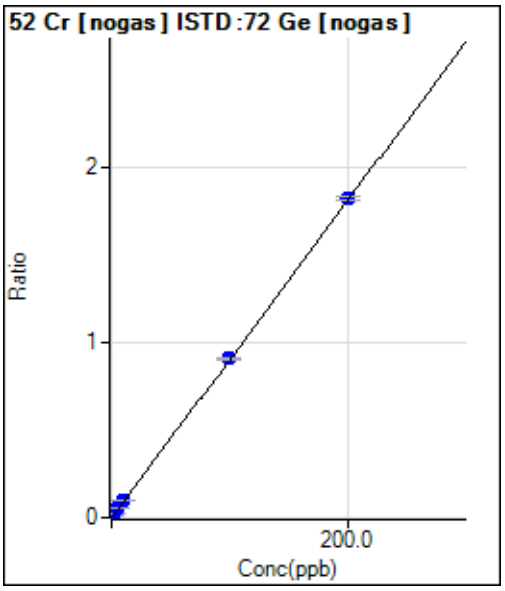


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2707.06	0.0042	P	18.1	
2	☐	2.000	1.894	14570.39	0.0223	P	3.1	-5.3
3	☐	5.000	4.526	30895.81	0.0474	P	4.7	-9.5
4	☐	10.000	9.677	62058.25	0.0966	P	4.2	-3.2
5	☐	100.000	99.827	613389.36	0.9572	P	0.4	-0.2
6	☐	200.000	200.116	1201088.46	1.9145	P	0.7	0.1
7	☐	1.000						

y = 0.0095 * x + 0.0042
R = 1.0000
DL = 0.2411 ppb
BEC = 0.4437 ppb

Weight: <None>
Min Conc: <None>

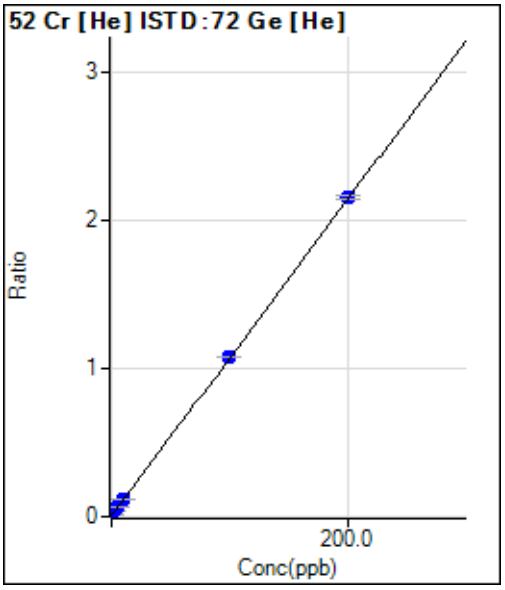
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15655.08	0.0067	P	0.6	
2	☐	2.000	1.892	55461.93	0.0239	P	1.4	-5.4
3	☐	5.000	4.787	115666.46	0.0501	P	1.3	-4.3
4	☐	10.000	9.775	220140.75	0.0953	P	0.1	-2.3
5	☐	100.000	99.356	2106071.53	0.9077	P	0.5	-0.6
6	☐	200.000	200.340	4094238.17	1.8234	P	1.3	0.2
7	☐	1.000						

y = 0.0091 * x + 0.0067
R = 1.0000
DL = 0.01251 ppb
BEC = 0.7381 ppb

Weight: <None>
Min Conc: <None>

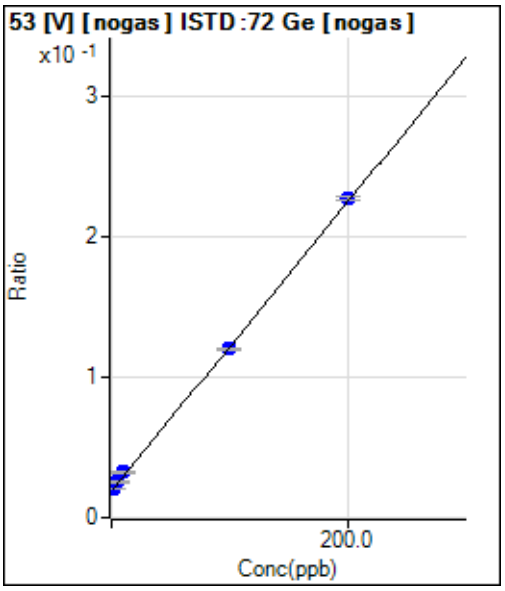


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10073.56	0.0158	P	3.5	
2	☐	2.000	1.747	22503.68	0.0345	P	2.4	-12.6
3	☐	5.000	4.717	43135.28	0.0662	P	1.6	-5.7
4	☐	10.000	9.873	77974.15	0.1214	P	1.3	-1.3
5	☐	100.000	99.718	693663.76	1.0824	P	0.4	-0.3
6	☐	200.000	200.157	1353114.56	2.1568	P	0.7	0.1
7	☐	1.000						

y = 0.0107 * x + 0.0158
R = 1.0000
DL = 0.1548 ppb
BEC = 1.475 ppb

Weight: <None>
Min Conc: <None>

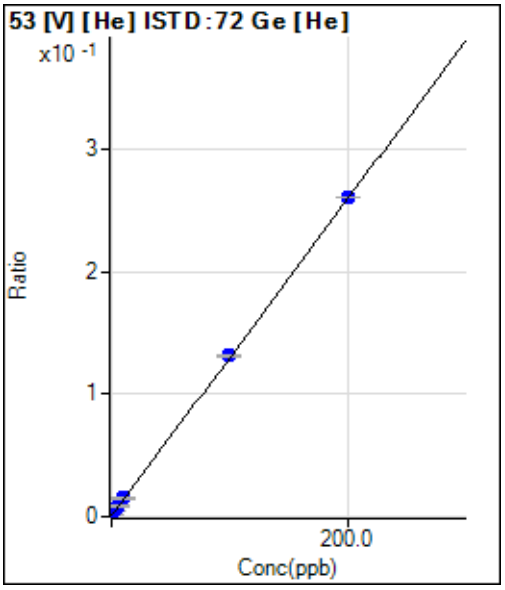
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	47140.51	0.0202	P	2.2	
2	☐	2.000	0.750	48668.74	0.0209	P	1.1	-62.5
3	☐	5.000	5.128	58714.00	0.0254	P	2.1	2.6
4	☐	10.000	12.013	75093.09	0.0325	P	3.7	20.1
5	☐	100.000	97.032	278562.49	0.1201	P	0.7	-3.0
6	☐	200.000	201.393	510852.83	0.2275	P	1.6	0.7
7	☐	1.000						

y = 0.0010 * x + 0.0202
R = 0.9998
DL = 1.308 ppb
BEC = 19.58 ppb

Weight: <None>
Min Conc: <None>

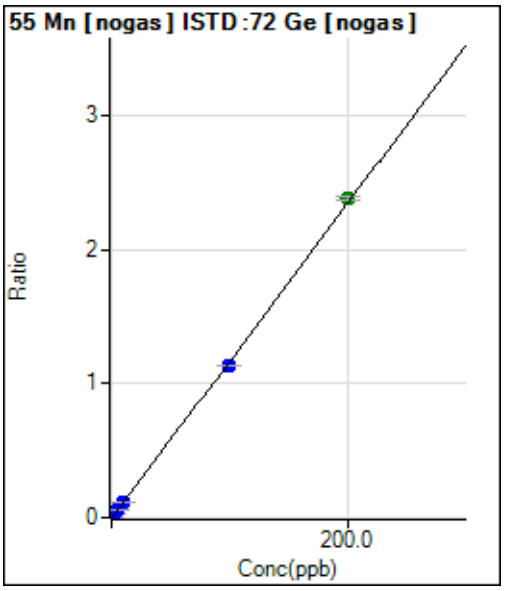


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1253.42	0.0020	P	12.2	
2	☐	2.000	1.723	2740.31	0.0042	P	4.3	-13.8
3	☐	5.000	5.143	5617.83	0.0086	P	5.7	2.9
4	☐	10.000	10.202	9749.98	0.0152	P	6.9	2.0
5	☐	100.000	100.170	84398.48	0.1317	P	0.8	0.2
6	☐	200.000	199.904	163669.30	0.2609	P	0.6	0.0
7	☐	1.000						

y = 0.0013 * x + 0.0020
R = 1.0000
DL = 0.5564 ppb
BEC = 1.516 ppb

Weight: <None>
Min Conc: <None>

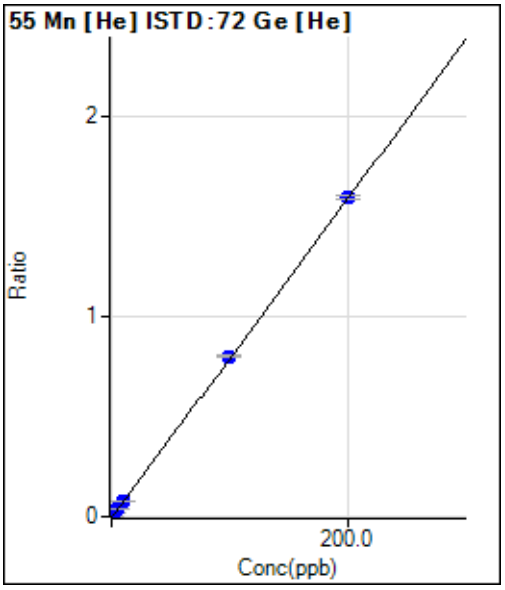
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11671.36	0.0050	P	3.7	
2	☐	2.000	1.884	63165.75	0.0272	P	3.6	-5.8
3	☐	5.000	4.753	140640.94	0.0609	P	0.7	-4.9
4	☐	10.000	9.529	270450.46	0.1171	P	0.7	-4.7
5	☐	100.000	95.954	2631538.61	1.1341	P	0.1	-4.0
6	☐	200.000	202.054	5350073.46	2.3827	A	0.7	1.0
7	☐	1.000						

y = 0.0118 * x + 0.0050
R = 0.9997
DL = 0.04653 ppb
BEC = 0.4241 ppb

Weight: <None>
Min Conc: <None>

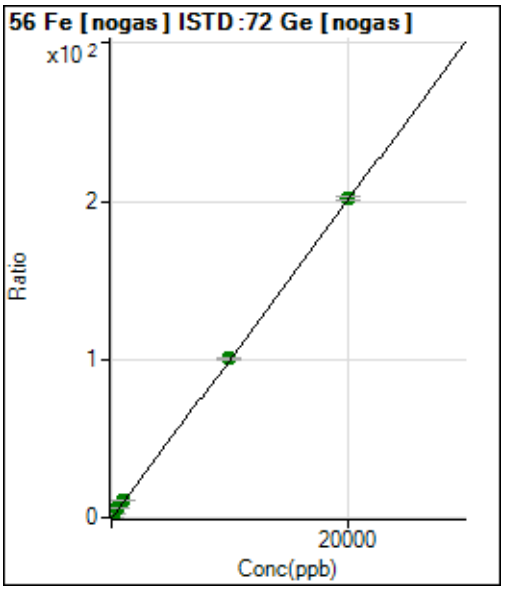


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1150.07	0.0018	P	8.7	
2	☐	2.000	1.813	10640.59	0.0163	P	3.5	-9.4
3	☐	5.000	4.727	25788.99	0.0396	P	1.9	-5.5
4	☐	10.000	9.921	52113.44	0.0811	P	1.5	-0.8
5	☐	100.000	100.307	515159.21	0.8039	P	0.3	0.3
6	☐	200.000	199.859	1003701.78	1.5999	P	1.2	-0.1
7	☐	1.000						

y = 0.0080 * x + 0.0018
R = 1.0000
DL = 0.05888 ppb
BEC = 0.225 ppb

Weight: <None>
Min Conc: <None>

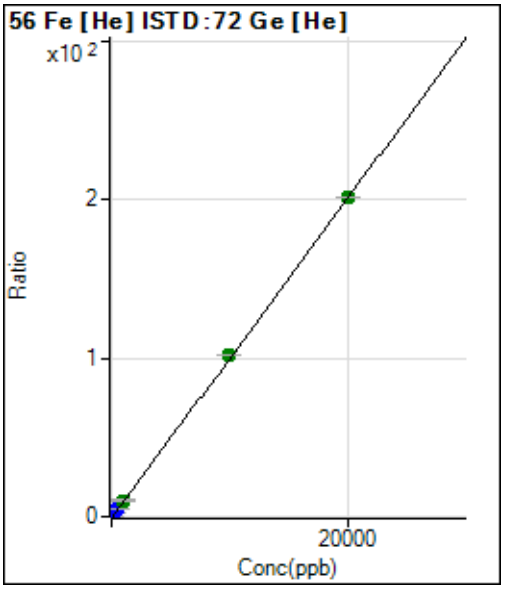
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1136036.49	0.4857	P	1.0	
2	☐	200.000	209.785	6035244.49	2.5953	A	0.4	4.9
3	☐	500.000	507.980	12913988.14	5.5940	A	0.4	1.6
4	☐	1000.000	1013.217	24648868.80	10.6746	A	0.6	1.3
5	☐	10000.00	9941.069	233071916.5	100.452	A	0.7	-0.6
6	☐	20000.00	20028.50	453320513.2	201.891	A	1.0	0.1
7	☐	100.000						

y = 0.0101 * x + 0.4857
R = 1.0000
DL = 1.4 ppb
BEC = 48.3 ppb

Weight: <None>
Min Conc: <None>

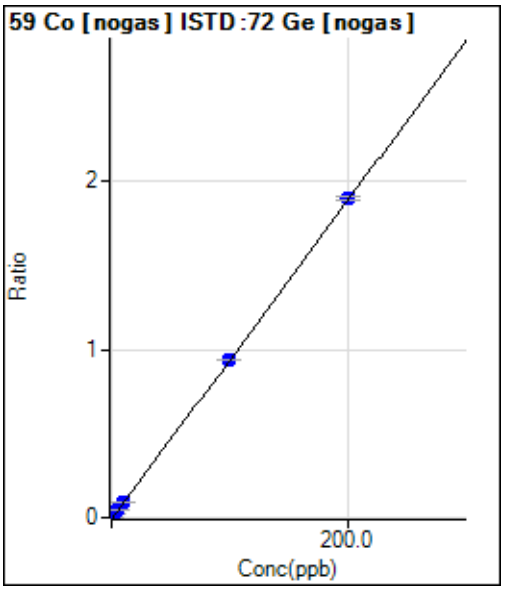


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21745.97	0.0340	P	1.9	
2	☐	200.000	186.503	1251552.04	1.9169	P	1.3	-6.7
3	☐	500.000	452.821	2999582.77	4.6056	P	0.6	-9.4
4	☐	1000.000	1016.570	6614454.07	10.2970	A	0.9	1.7
5	☐	10000.00	10097.21	65348780.69	101.971	A	0.7	1.0
6	☐	20000.00	19951.87	126386998.1	201.460	A	0.3	-0.2
7	☐	100.000						

y = 0.0101 * x + 0.0340
R = 1.0000
DL = 0.1911 ppb
BEC = 3.372 ppb

Weight: <None>
Min Conc: <None>

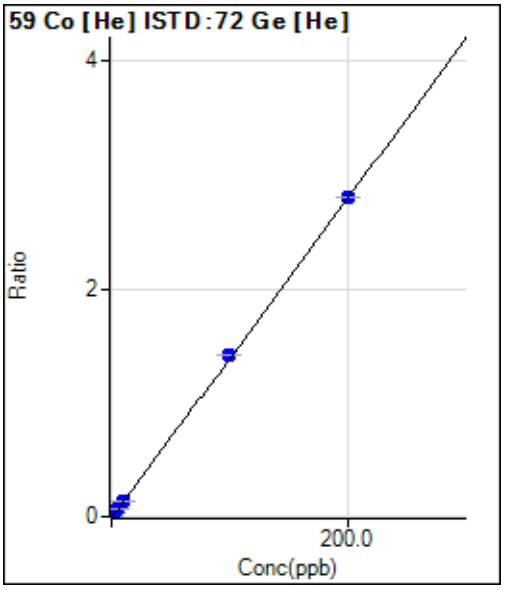
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	53.5	
2	☐	2.000	1.986	44014.80	0.0189	P	0.7	-0.7
3	☐	5.000	4.875	106888.05	0.0463	P	1.0	-2.5
4	☐	10.000	9.931	217545.83	0.0942	P	1.7	-0.7
5	☐	100.000	99.372	2184979.24	0.9417	P	0.2	-0.6
6	☐	200.000	200.321	4261998.58	1.8982	P	1.5	0.2
7	☐	1.000						

y = 0.0095 * x + 1.1272E-004
R = 1.0000
DL = 0.01909 ppb
BEC = 0.0119 ppb

Weight: <None>
Min Conc: <None>

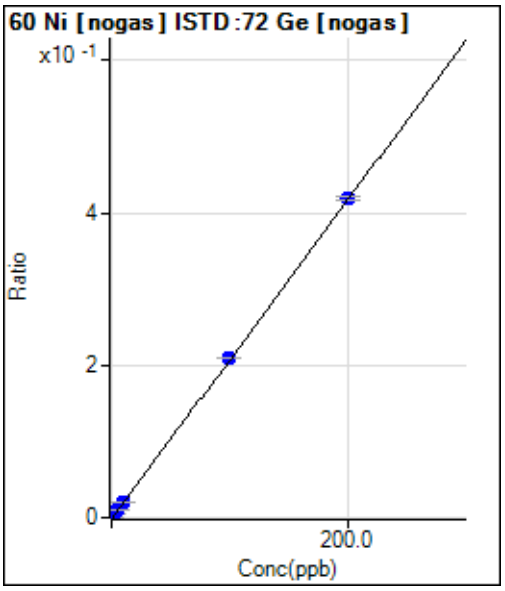


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70.00	0.0001	P	14.2	
2	☐	2.000	2.008	18498.27	0.0283	P	1.3	0.4
3	☐	5.000	4.838	44352.18	0.0681	P	1.1	-3.2
4	☐	10.000	9.822	88727.47	0.1381	P	0.8	-1.8
5	☐	100.000	100.850	908227.51	1.4173	P	0.2	0.9
6	☐	200.000	199.588	1759577.47	2.8048	P	0.3	-0.2
7	☐	1.000						

y = 0.0141 * x + 1.0959E-004
R = 1.0000
DL = 0.003316 ppb
BEC = 0.007799 ppb

Weight: <None>
Min Conc: <None>

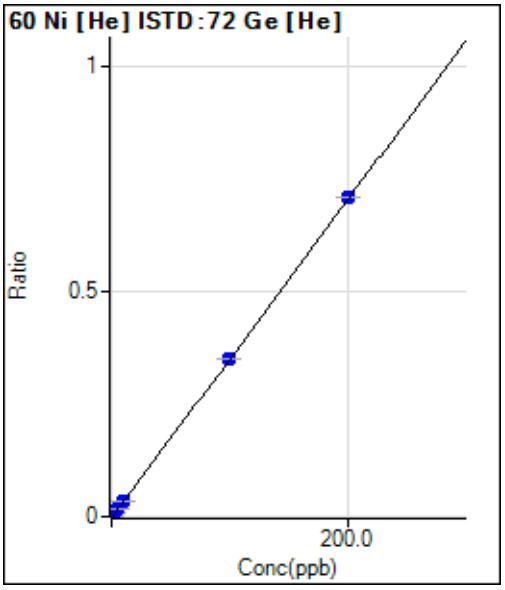
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	566.68	0.0002	P	15.0	
2	☐	2.000	2.048	10540.52	0.0045	P	2.5	2.4
3	☐	5.000	4.946	24483.61	0.0106	P	1.7	-1.1
4	☐	10.000	9.860	48264.16	0.0209	P	2.5	-1.4
5	☐	100.000	99.974	486625.40	0.2097	P	0.6	0.0
6	☐	200.000	200.021	941589.83	0.4193	P	1.7	0.0
7	☐	1.000						

y = 0.0021 * x + 2.4227E-004
R = 1.0000
DL = 0.05194 ppb
BEC = 0.1156 ppb

Weight: <None>
Min Conc: <None>

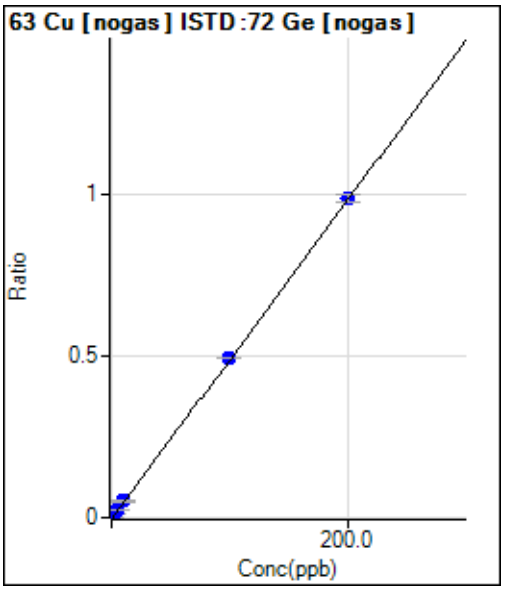


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0004	P	2.9	
2	☐	2.000	2.045	4997.58	0.0077	P	6.9	2.3
3	☐	5.000	4.793	11321.14	0.0174	P	2.0	-4.1
4	☐	10.000	9.918	22824.36	0.0355	P	2.7	-0.8
5	☐	100.000	98.882	224629.84	0.3505	P	0.4	-1.1
6	☐	200.000	200.568	445770.55	0.7106	P	0.6	0.3
7	☐	1.000						

y = 0.0035 * x + 4.1242E-004
R = 1.0000
DL = 0.01023 ppb
BEC = 0.1165 ppb

Weight: <None>
Min Conc: <None>

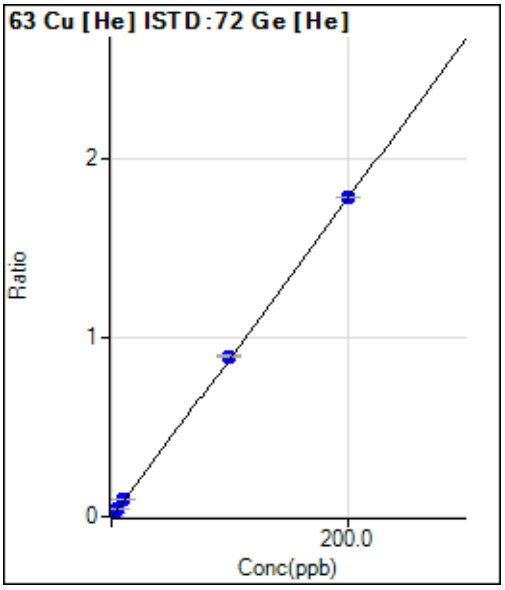
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1193.41	0.0005	P	13.4	
2	☐	2.000	2.037	24567.18	0.0106	P	2.7	1.9
3	☐	5.000	4.976	57861.78	0.0251	P	1.4	-0.5
4	☐	10.000	10.157	116916.18	0.0506	P	2.0	1.6
5	☐	100.000	99.974	1145900.66	0.4939	P	0.1	0.0
6	☐	200.000	200.005	2217216.74	0.9875	P	2.1	0.0
7	☐	1.000						

y = 0.0049 * x + 5.1036E-004
R = 1.0000
DL = 0.04145 ppb
BEC = 0.1034 ppb

Weight: <None>
Min Conc: <None>

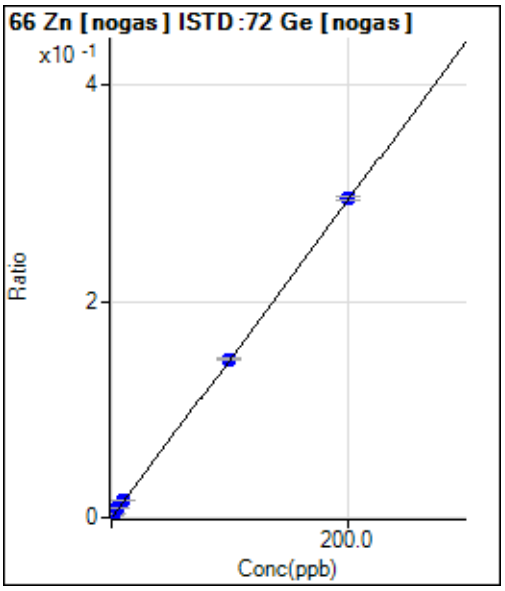


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	596.69	0.0009	P	10.7	
2	☐	2.000	1.991	12225.18	0.0187	P	2.0	-0.5
3	☐	5.000	5.007	29753.16	0.0457	P	0.9	0.1
4	☐	10.000	10.218	59267.36	0.0923	P	0.7	2.2
5	☐	100.000	100.390	575561.71	0.8982	P	0.7	0.4
6	☐	200.000	199.794	1120828.66	1.7866	P	0.4	-0.1
7	☐	1.000						

y = 0.0089 * x + 9.3340E-004
R = 1.0000
DL = 0.03358 ppb
BEC = 0.1044 ppb

Weight: <None>
Min Conc: <None>

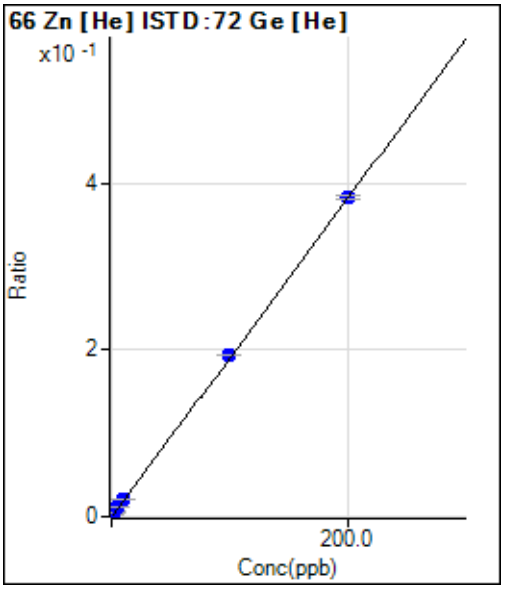
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2653.61	0.0011	P	7.8	
2	☐	2.000	1.900	9122.92	0.0039	P	3.4	-5.0
3	☐	5.000	5.134	20017.00	0.0087	P	4.0	2.7
4	☐	10.000	9.762	35712.97	0.0155	P	3.2	-2.4
5	☐	100.000	99.061	340039.35	0.1465	P	0.8	-0.9
6	☐	200.000	200.479	663312.01	0.2954	P	1.3	0.2
7	☐	1.000						

y = 0.0015 * x + 0.0011
R = 1.0000
DL = 0.1813 ppb
BEC = 0.7728 ppb

Weight: <None>
Min Conc: <None>

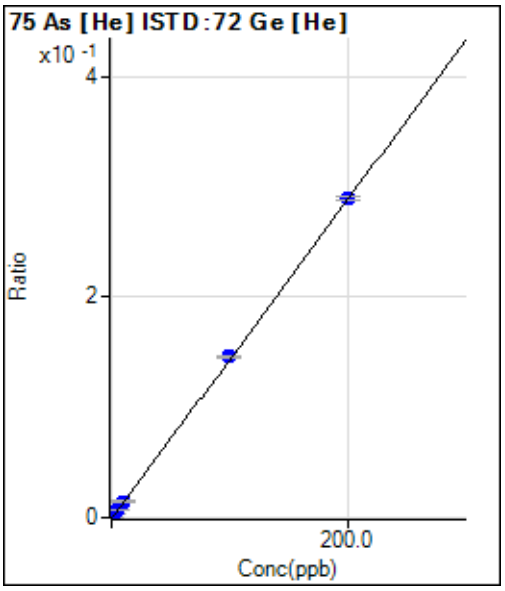


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	830.04	0.0013	P	2.5	
2	☐	2.000	2.297	3720.54	0.0057	P	10.4	14.9
3	☐	5.000	5.348	7512.04	0.0115	P	3.1	7.0
4	☐	10.000	9.958	13075.92	0.0204	P	1.7	-0.4
5	☐	100.000	100.785	124423.61	0.1942	P	0.6	0.8
6	☐	200.000	199.598	240419.42	0.3832	P	0.9	-0.2
7	☐	1.000						

y = 0.0019 * x + 0.0013
R = 1.0000
DL = 0.05152 ppb
BEC = 0.6792 ppb

Weight: <None>
Min Conc: <None>

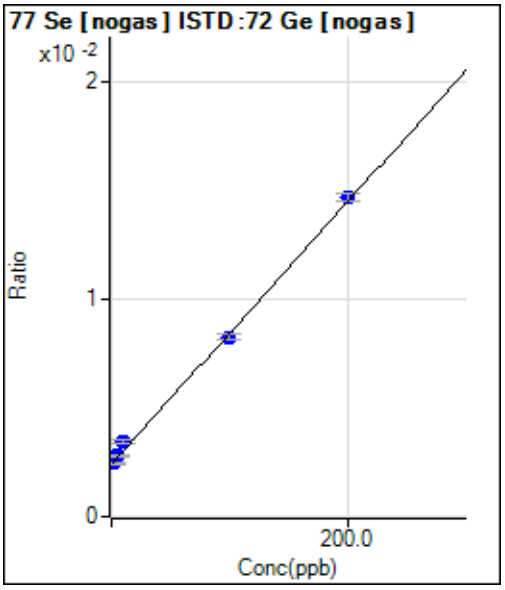
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	197.78	0.0003	P	12.2	
2	☐	2.000	1.997	2090.16	0.0032	P	5.0	-0.2
3	☐	5.000	4.824	4753.00	0.0073	P	2.6	-3.5
4	☐	10.000	9.931	9439.70	0.0147	P	3.7	-0.7
5	☐	100.000	100.510	93501.40	0.1459	P	0.5	0.5
6	☐	200.000	199.753	181729.50	0.2897	P	0.8	-0.1
7	☐	1.000						

y = 0.0014 * x + 3.0936E-004
R = 1.0000
DL = 0.07848 ppb
BEC = 0.2136 ppb

Weight: <None>
Min Conc: <None>

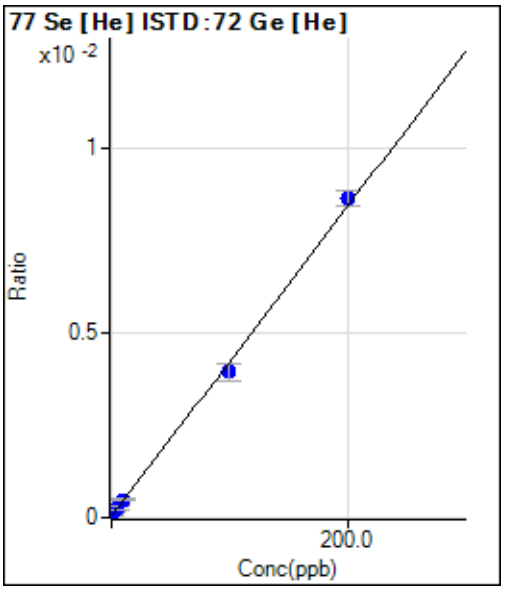


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5841.26	0.0025	P	7.1	
2	☐	2.000	-0.859	5687.85	0.0024	P	2.5	-143.
3	☐	5.000	5.214	6491.52	0.0028	P	2.4	4.3
4	☐	10.000	15.835	7972.28	0.0035	P	4.4	58.3
5	☐	100.000	95.175	19105.87	0.0082	P	3.3	-4.8
6	☐	200.000	202.144	32976.99	0.0147	P	2.7	1.1
7	☐	1.000						

y = 6.0287E-005 * x + 0.0025
R = 0.9990
DL = 8.768 ppb
BEC = 41.43 ppb

Weight: <None>
Min Conc: <None>

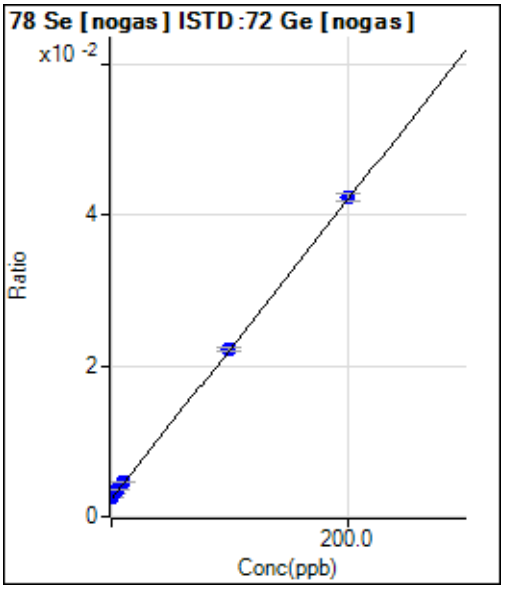
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0001	P	29.4	
2	☐	2.000	1.777	103.33	0.0002	P	24.2	-11.1
3	☐	5.000	4.472	176.67	0.0003	P	40.2	-10.6
4	☐	10.000	9.755	316.68	0.0005	P	20.1	-2.5
5	☐	100.000	91.988	2526.93	0.0039	P	12.0	-8.0
6	☐	200.000	204.033	5421.11	0.0086	P	5.4	2.0
7	☐	1.000						

y = 4.1950E-005 * x + 8.3652E-005
R = 0.9989
DL = 1.756 ppb
BEC = 1.994 ppb

Weight: <None>
Min Conc: <None>

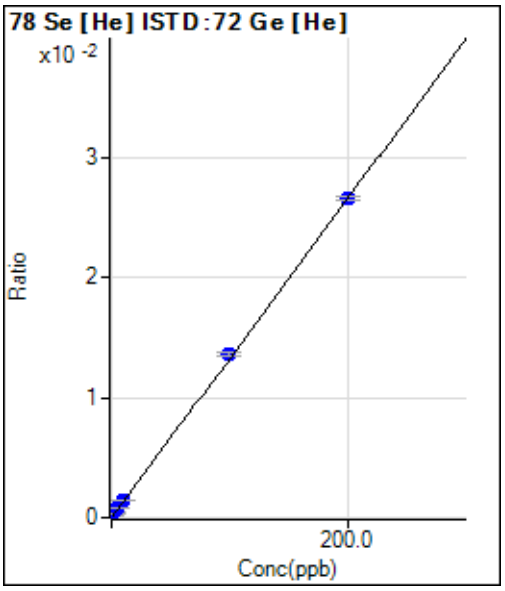


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6027.98	0.0026	P	3.5	
2	☐	2.000	2.036	6931.75	0.0030	P	0.6	1.8
3	☐	5.000	4.587	8049.01	0.0035	P	2.2	-8.3
4	☐	10.000	10.169	10603.97	0.0046	P	0.9	1.7
5	☐	100.000	98.971	51472.87	0.0222	P	2.0	-1.0
6	☐	200.000	200.516	94965.94	0.0423	P	2.3	0.3
7	☐	1.000						

y = 1.9809E-004 * x + 0.0026
R = 1.0000
DL = 1.381 ppb
BEC = 13.01 ppb

Weight: <None>
Min Conc: <None>

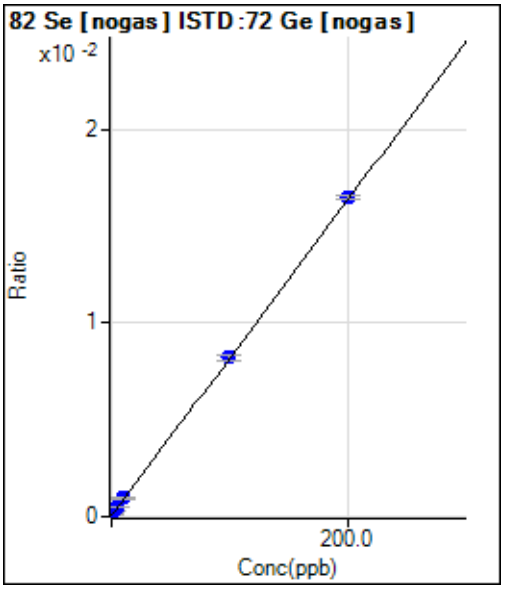
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	78.67	0.0001	P	11.3	
2	☐	2.000	2.102	263.33	0.0004	P	15.5	5.1
3	☐	5.000	4.859	502.01	0.0008	P	3.6	-2.8
4	☐	10.000	9.752	914.03	0.0014	P	2.6	-2.5
5	☐	100.000	101.881	8777.94	0.0137	P	2.5	1.9
6	☐	200.000	199.074	16720.08	0.0267	P	1.3	-0.5
7	☐	1.000						

y = 1.3326E-004 * x + 1.2327E-004
R = 0.9999
DL = 0.3134 ppb
BEC = 0.925 ppb

Weight: <None>
Min Conc: <None>

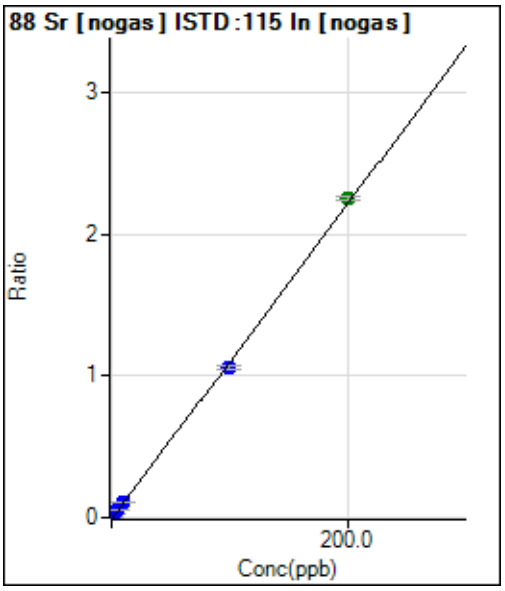


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	320.01	0.0001	P	18.6	
2	☐	2.000	2.139	723.37	0.0003	P	4.0	6.9
3	☐	5.000	4.507	1163.41	0.0005	P	12.4	-9.9
4	☐	10.000	9.985	2196.87	0.0010	P	14.7	-0.1
5	☐	100.000	98.896	19025.81	0.0082	P	2.7	-1.1
6	☐	200.000	200.564	37020.01	0.0165	P	1.4	0.3
7	☐	1.000						

y = 8.1523E-005 * x + 1.3675E-004
R = 1.0000
DL = 0.9349 ppb
BEC = 1.677 ppb

Weight: <None>
Min Conc: <None>

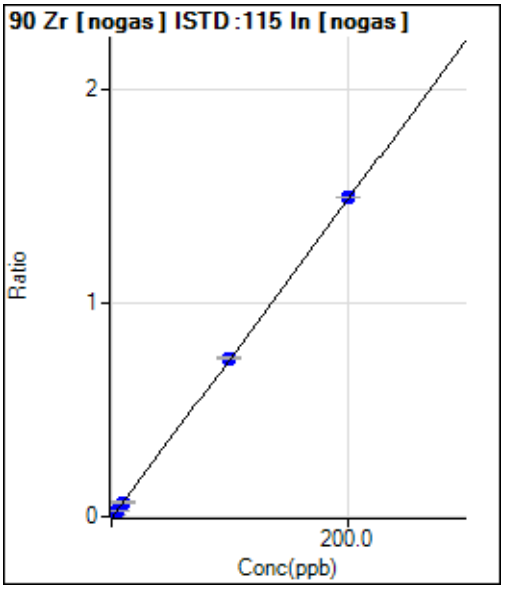
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1553.44	0.0006	P	5.5	
2	☐	2.000	1.851	52925.27	0.0212	P	2.7	-7.4
3	☐	5.000	4.434	124247.13	0.0499	P	0.6	-11.3
4	☐	10.000	9.144	254353.04	0.1023	P	0.9	-8.6
5	☐	100.000	95.120	2602343.81	1.0579	P	1.8	-4.9
6	☐	200.000	202.499	5372346.59	2.2515	A	1.4	1.2
7	☐	1.000						

y = 0.0111 * x + 6.2291E-004
R = 0.9996
DL = 0.009253 ppb
BEC = 0.05604 ppb

Weight: <None>
Min Conc: <None>

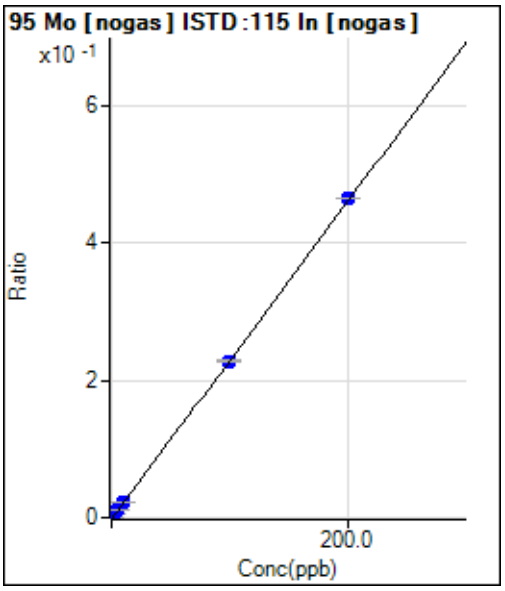


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1246.74	0.0005	P	13.5	
2	☐	2.000	1.418	27646.22	0.0111	P	0.6	-29.1
3	☐	5.000	3.953	74655.41	0.0300	P	0.1	-20.9
4	☐	10.000	8.976	167800.78	0.0675	P	0.9	-10.2
5	☐	100.000	99.111	1819960.23	0.7398	P	1.2	-0.9
6	☐	200.000	200.528	3570335.57	1.4964	P	0.5	0.3
7	☐	1.000						

y = 0.0075 * x + 4.9970E-004
R = 1.0000
DL = 0.02711 ppb
BEC = 0.06699 ppb

Weight: <None>
Min Conc: <None>

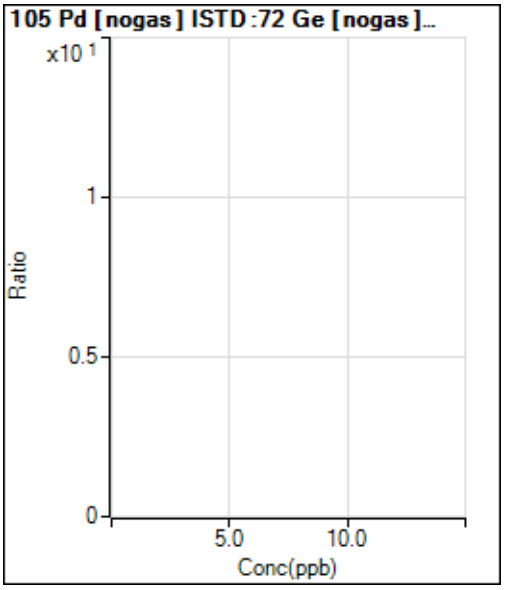
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203.34	0.0001	P	15.3	
2	☐	2.000	1.906	11197.81	0.0045	P	4.8	-4.7
3	☐	5.000	4.548	26360.74	0.0106	P	4.2	-9.0
4	☐	10.000	9.429	54407.93	0.0219	P	4.1	-5.7
5	☐	100.000	98.169	558334.98	0.2270	P	1.2	-1.8
6	☐	200.000	200.956	1108328.21	0.4645	P	0.4	0.5
7	☐	1.000						

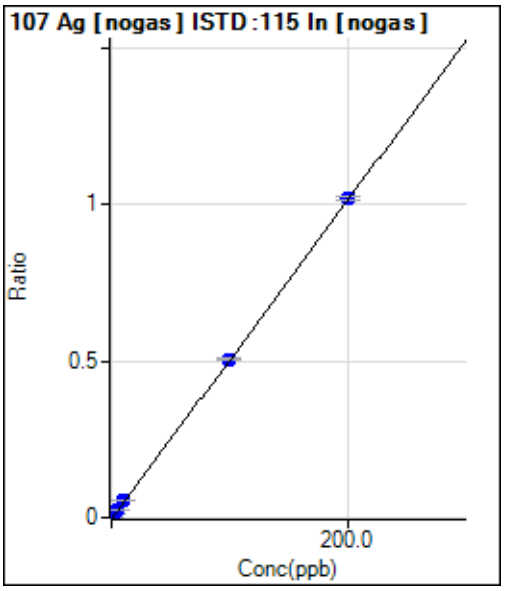
y = 0.0023 * x + 8.1548E-005
R = 0.9999
DL = 0.01618 ppb
BEC = 0.03529 ppb

Weight: <None>
Min Conc: <None>



	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						

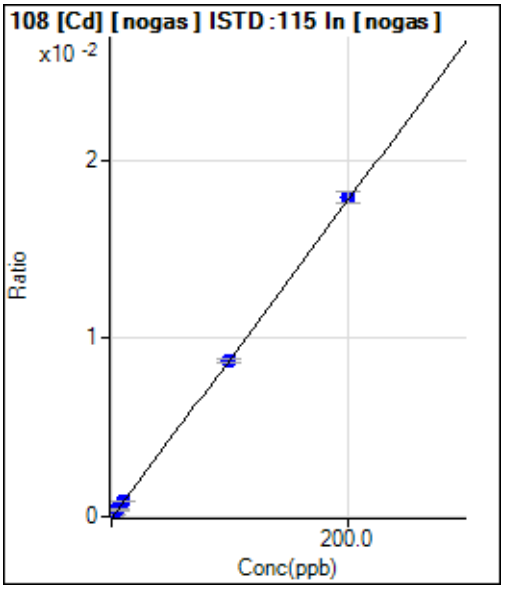
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83.33	0.0000	P	38.5	
2	☐	2.000	2.220	28291.09	0.0113	P	2.8	11.0
3	☐	5.000	5.339	67741.07	0.0272	P	1.4	6.8
4	☐	10.000	11.150	141264.26	0.0568	P	0.7	11.5
5	☐	100.000	99.463	1245529.41	0.5064	P	1.3	-0.5
6	☐	200.000	200.200	2431924.29	1.0192	P	0.8	0.1
7	☐	1.000						

y = 0.0051 * x + 3.3410E-005
R = 1.0000
DL = 0.007582 ppb
BEC = 0.006563 ppb

Weight: <None>
Min Conc: <None>

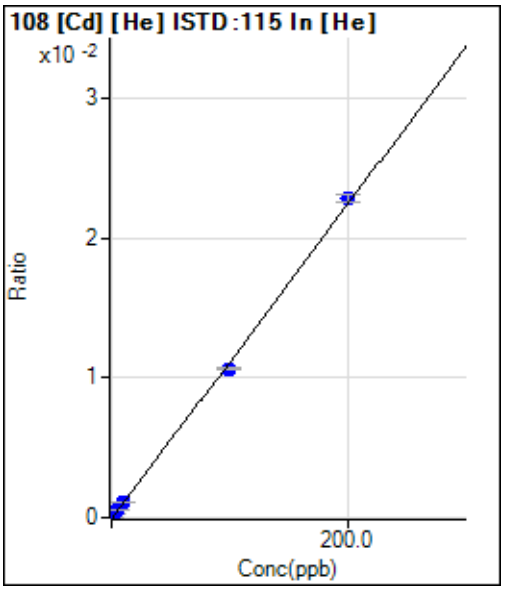


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	1.588	366.68	0.0001	P	10.8	-20.6
3	☐	5.000	4.265	960.05	0.0004	P	14.3	-14.7
4	☐	10.000	9.655	2153.54	0.0009	P	3.0	-3.5
5	☐	100.000	98.185	21539.61	0.0088	P	2.7	-1.8
6	☐	200.000	200.947	42760.10	0.0179	P	3.8	0.5
7	☐	1.000						

y = 8.9136E-005 * x + 5.3287E-006
R = 0.9999
DL = 0.1553 ppb
BEC = 0.05978 ppb

Weight: <None>
Min Conc: <None>

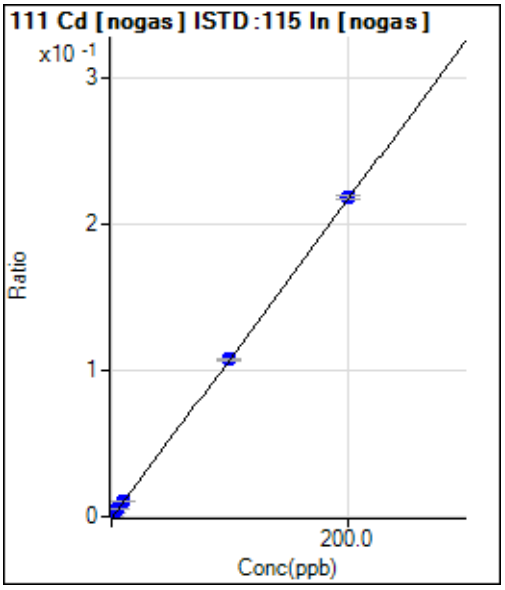
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	42.9	
2	☐	2.000	2.358	260.01	0.0003	P	7.5	17.9
3	☐	5.000	4.901	526.69	0.0006	P	14.8	-2.0
4	☐	10.000	9.891	1043.39	0.0011	P	5.3	-1.1
5	☐	100.000	94.556	9760.11	0.0107	P	2.3	-5.4
6	☐	200.000	202.727	20217.62	0.0229	P	2.5	1.4
7	☐	1.000						

y = 1.1277E-004 * x + 1.4510E-005
R = 0.9995
DL = 0.1657 ppb
BEC = 0.1287 ppb

Weight: <None>
Min Conc: <None>

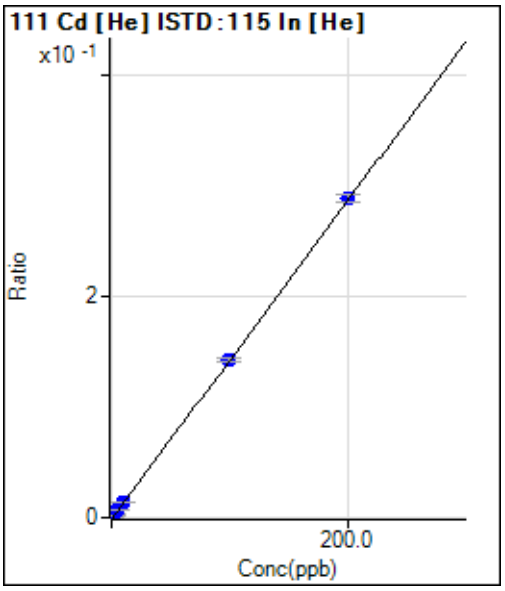


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-4.31	0.0000	P	-291.1	
2	☐	2.000	2.072	5637.92	0.0023	P	7.0	3.6
3	☐	5.000	4.593	12466.43	0.0050	P	1.9	-8.1
4	☐	10.000	9.587	26003.90	0.0105	P	3.2	-4.1
5	☐	100.000	98.957	265466.22	0.1079	P	1.0	-1.0
6	☐	200.000	200.551	521898.70	0.2187	P	1.4	0.3
7	☐	1.000						

y = 0.0011 * x - 1.7085E-006
R = 1.0000
DL = 0.01368 ppb
BEC = -0.001567 ppb

Weight: <None>
Min Conc: <None>

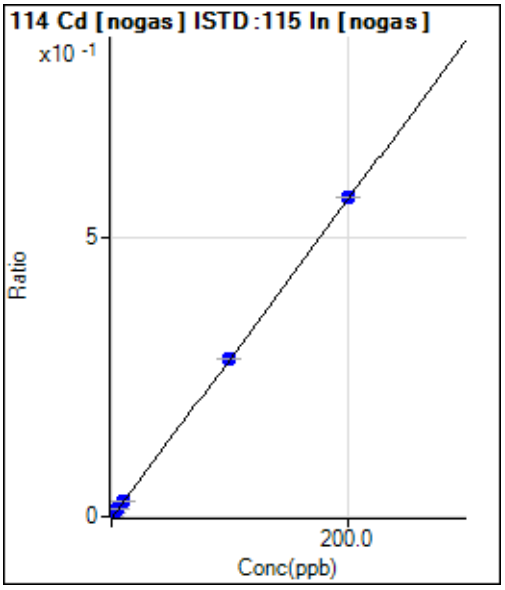
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-14.31	0.0000	P	-42.9	
2	☐	2.000	1.945	2574.67	0.0028	P	14.9	-2.8
3	☐	5.000	4.662	6209.88	0.0067	P	4.4	-6.8
4	☐	10.000	9.609	12737.31	0.0138	P	3.3	-3.9
5	☐	100.000	99.079	130143.27	0.1424	P	2.4	-0.9
6	☐	200.000	200.489	254616.08	0.2881	P	2.3	0.2
7	☐	1.000						

y = 0.0014 * x - 1.5569E-005
R = 1.0000
DL = 0.01395 ppb
BEC = -0.01083 ppb

Weight: <None>
Min Conc: <None>

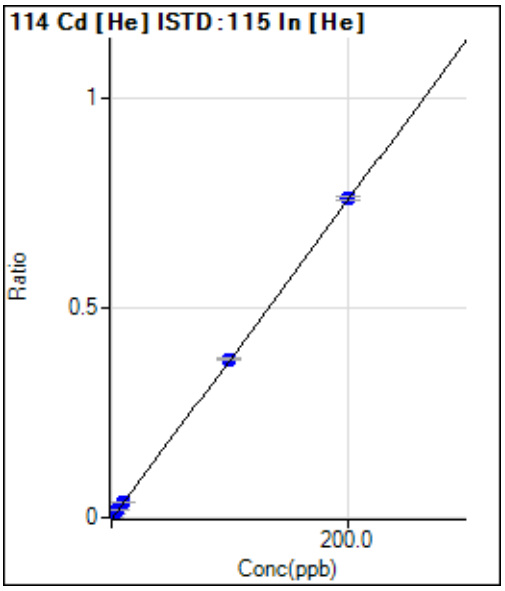


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	43.9	
2	☐	2.000	1.920	13740.08	0.0055	P	6.0	-4.0
3	☐	5.000	4.578	32587.07	0.0131	P	2.0	-8.4
4	☐	10.000	9.489	67423.25	0.0271	P	0.5	-5.1
5	☐	100.000	98.907	694578.11	0.2823	P	0.1	-1.1
6	☐	200.000	200.583	1366204.88	0.5726	P	0.6	0.3
7	☐	1.000						

y = 0.0029 * x + 2.1416E-005
R = 1.0000
DL = 0.009885 ppb
BEC = 0.007503 ppb

Weight: <None>
Min Conc: <None>

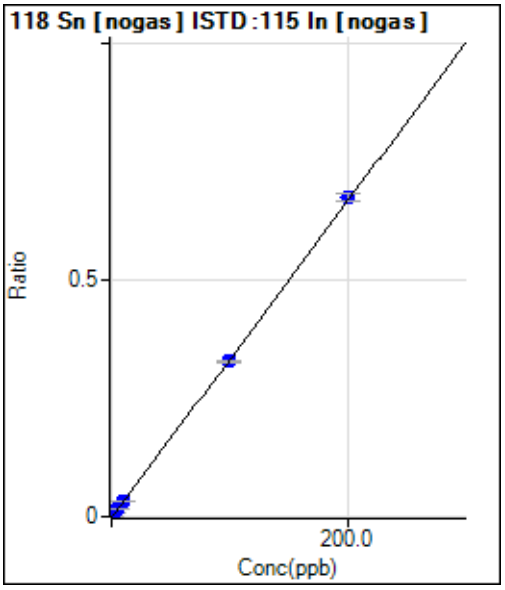
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0001	P	28.4	
2	☐	2.000	1.931	6865.07	0.0074	P	4.3	-3.5
3	☐	5.000	4.685	16626.46	0.0179	P	2.5	-6.3
4	☐	10.000	9.889	34818.96	0.0377	P	1.0	-1.1
5	☐	100.000	99.393	345889.24	0.3784	P	0.5	-0.6
6	☐	200.000	200.318	673957.75	0.7625	P	1.1	0.2
7	☐	1.000						

y = 0.0038 * x + 5.8081E-005
R = 1.0000
DL = 0.01301 ppb
BEC = 0.01526 ppb

Weight: <None>
Min Conc: <None>

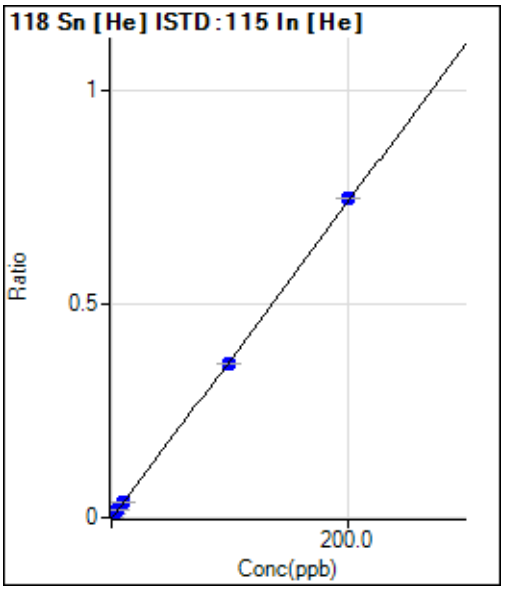


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2766.99	0.0011	P	4.5	
2	☐	2.000	1.852	18258.44	0.0073	P	0.0	-7.4
3	☐	5.000	4.542	40657.50	0.0163	P	2.5	-9.2
4	☐	10.000	9.460	81603.44	0.0328	P	1.7	-5.4
5	☐	100.000	97.619	807306.58	0.3282	P	1.4	-2.4
6	☐	200.000	201.230	1611475.29	0.6754	P	1.8	0.6
7	☐	1.000						

y = 0.0034 * x + 0.0011
R = 0.9999
DL = 0.04489 ppb
BEC = 0.3311 ppb

Weight: <None>
Min Conc: <None>

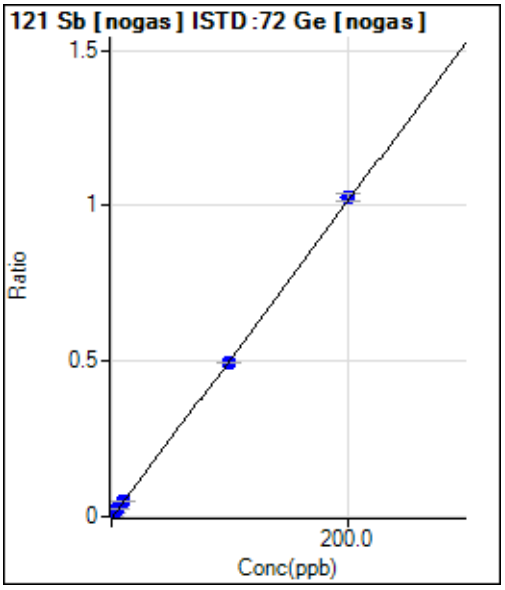
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1163.40	0.0013	P	2.0	
2	☐	2.000	1.902	7705.52	0.0083	P	5.2	-4.9
3	☐	5.000	4.664	17220.44	0.0185	P	3.2	-6.7
4	☐	10.000	9.548	33816.63	0.0366	P	3.7	-4.5
5	☐	100.000	97.322	330555.59	0.3616	P	0.2	-2.7
6	☐	200.000	201.371	660111.11	0.7468	P	0.4	0.7
7	☐	1.000						

y = 0.0037 * x + 0.0013
R = 0.9999
DL = 0.02006 ppb
BEC = 0.3423 ppb

Weight: <None>
Min Conc: <None>

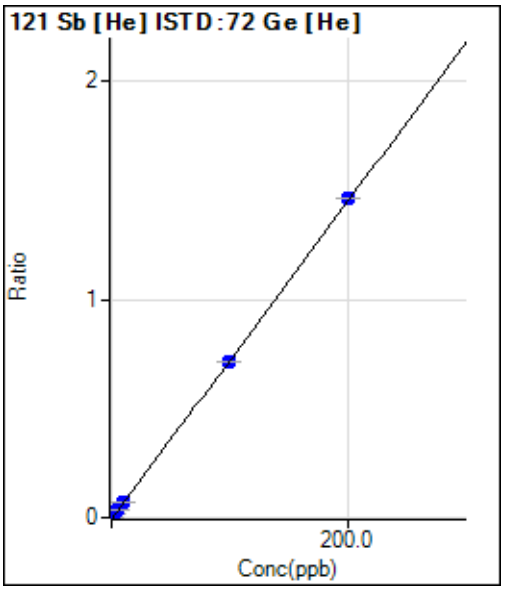


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	576.69	0.0002	P	12.3	
2	☐	2.000	1.863	22654.78	0.0097	P	1.9	-6.8
3	☐	5.000	4.528	53850.92	0.0233	P	2.6	-9.4
4	☐	10.000	9.407	111273.22	0.0482	P	1.1	-5.9
5	☐	100.000	97.131	1149120.11	0.4952	P	0.4	-2.9
6	☐	200.000	201.478	2305797.15	1.0270	P	2.8	0.7
7	☐	1.000						

y = 0.0051 * x + 2.4658E-004
R = 0.9999
DL = 0.01787 ppb
BEC = 0.04839 ppb

Weight: <None>
Min Conc: <None>

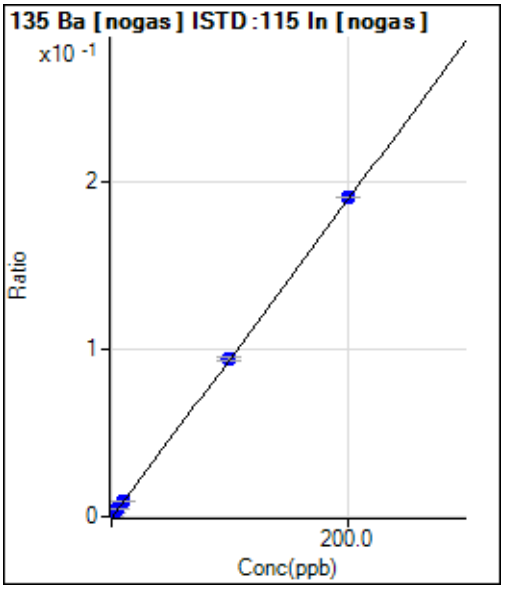
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.68	0.0004	P	23.4	
2	☐	2.000	1.867	9129.71	0.0140	P	0.4	-6.6
3	☐	5.000	4.640	22254.27	0.0342	P	1.8	-7.2
4	☐	10.000	9.640	45334.86	0.0706	P	1.6	-3.6
5	☐	100.000	98.169	458278.66	0.7151	P	0.3	-1.8
6	☐	200.000	200.944	918093.03	1.4634	P	0.1	0.5
7	☐	1.000						

y = 0.0073 * x + 3.8688E-004
R = 0.9999
DL = 0.03733 ppb
BEC = 0.05314 ppb

Weight: <None>
Min Conc: <None>

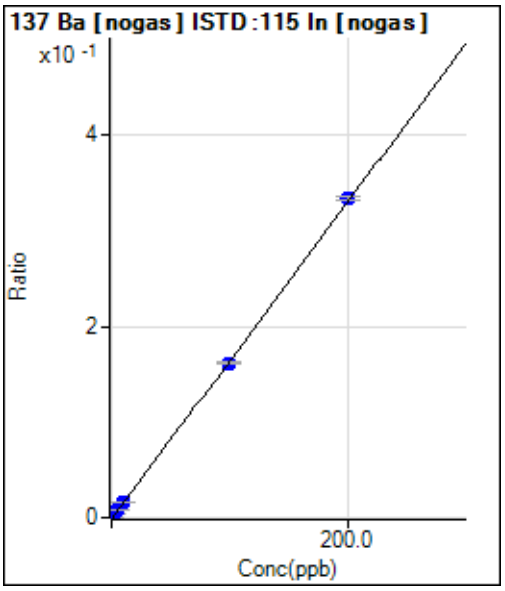


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	7.2	
2	☐	2.000	1.968	4960.94	0.0020	P	4.2	-1.6
3	☐	5.000	4.590	11137.85	0.0045	P	4.2	-8.2
4	☐	10.000	9.688	23152.35	0.0093	P	1.8	-3.1
5	☐	100.000	98.794	230764.33	0.0938	P	1.8	-1.2
6	☐	200.000	200.629	454257.43	0.1904	P	0.1	0.3
7	☐	1.000						

y = 9.4831E-004 * x + 1.2159E-004
R = 1.0000
DL = 0.02752 ppb
BEC = 0.1282 ppb

Weight: <None>
Min Conc: <None>

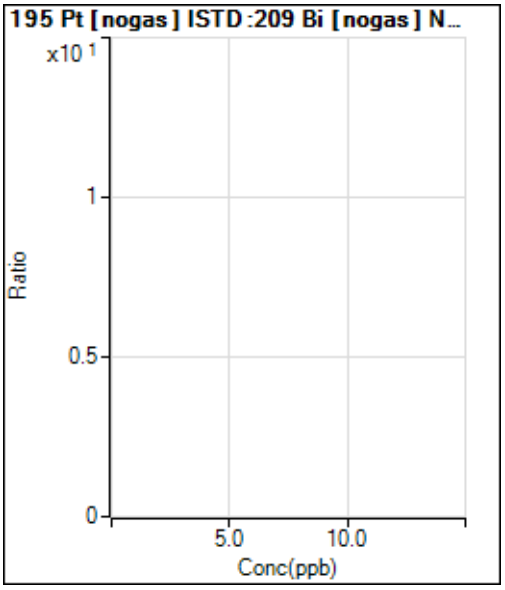
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	530.02	0.0002	P	22.9	
2	☐	2.000	1.974	8699.48	0.0035	P	4.0	-1.3
3	☐	5.000	4.528	19216.54	0.0077	P	2.3	-9.4
4	☐	10.000	9.202	38479.04	0.0155	P	2.5	-8.0
5	☐	100.000	97.526	398258.34	0.1619	P	1.7	-2.5
6	☐	200.000	201.289	796817.70	0.3339	P	1.3	0.6
7	☐	1.000						

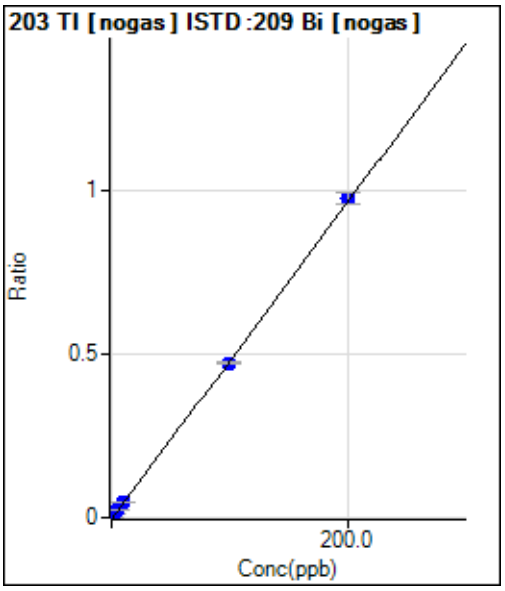
y = 0.0017 * x + 2.1248E-004
R = 0.9999
DL = 0.088 ppb
BEC = 0.1282 ppb

Weight: <None>
Min Conc: <None>



	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						

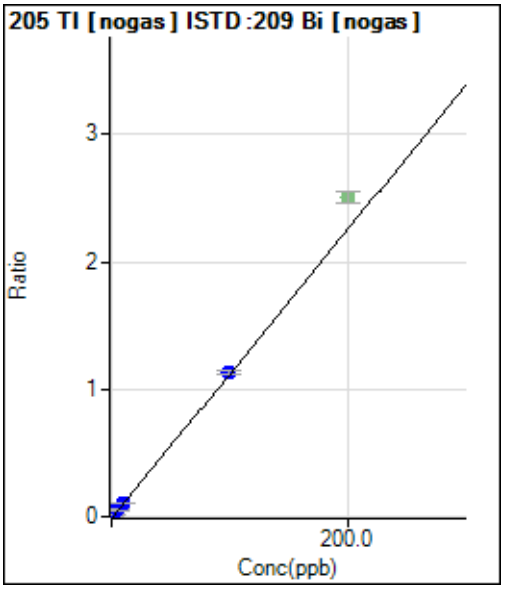
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	40.2	
2	☐	2.000	1.887	20165.13	0.0092	P	5.4	-5.6
3	☐	5.000	4.604	49298.94	0.0223	P	3.6	-7.9
4	☐	10.000	9.415	101109.22	0.0456	P	5.2	-5.8
5	☐	100.000	97.445	1031269.33	0.4716	P	1.2	-2.6
6	☐	200.000	201.318	2053798.72	0.9742	P	3.3	0.7
7	☐	1.000						

y = 0.0048 * x + 1.7866E-005
R = 0.9999
DL = 0.004448 ppb
BEC = 0.003692 ppb

Weight: <None>
Min Conc: <None>

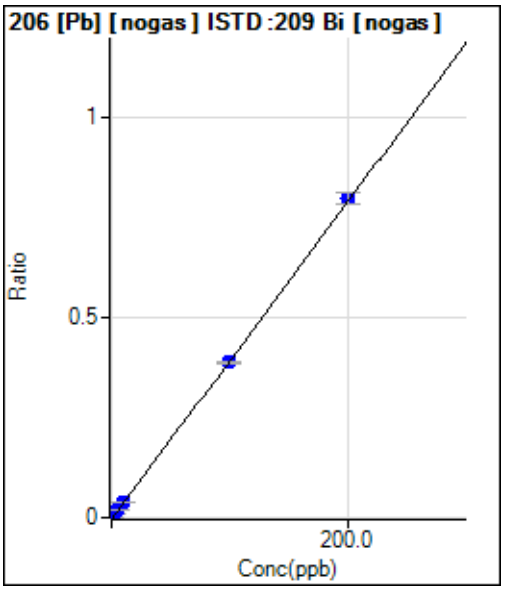


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0000	P	54.1	
2	☐	2.000	1.935	48409.71	0.0220	P	5.4	-3.2
3	☐	5.000	4.680	117290.56	0.0531	P	4.8	-6.4
4	☐	10.000	9.688	243609.45	0.1098	P	4.8	-3.1
5	☐	100.000	100.049	2479027.00	1.1336	P	1.9	0.0
6	☑	200.000		5282592.84	2.5058	A	3.6	
7	☐	1.000						

y = 0.0113 * x + 4.2157E-005
R = 1.0000
DL = 0.006042 ppb
BEC = 0.003721 ppb

Weight: <None>
Min Conc: <None>

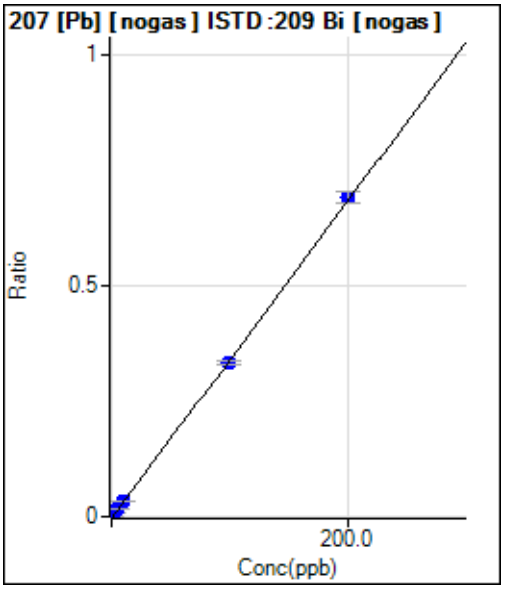
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	170.00	0.0001	P	12.1	
2	☐	2.000	1.922	16977.52	0.0077	P	3.0	-3.9
3	☐	5.000	4.656	41008.50	0.0185	P	3.9	-6.9
4	☐	10.000	9.511	83893.90	0.0378	P	4.3	-4.9
5	☐	100.000	97.704	847965.64	0.3877	P	1.7	-2.3
6	☐	200.000	201.182	1682833.78	0.7983	P	3.8	0.6
7	☐	1.000						

y = 0.0040 * x + 7.6624E-005
R = 0.9999
DL = 0.006987 ppb
BEC = 0.01931 ppb

Weight: <None>
Min Conc: <None>

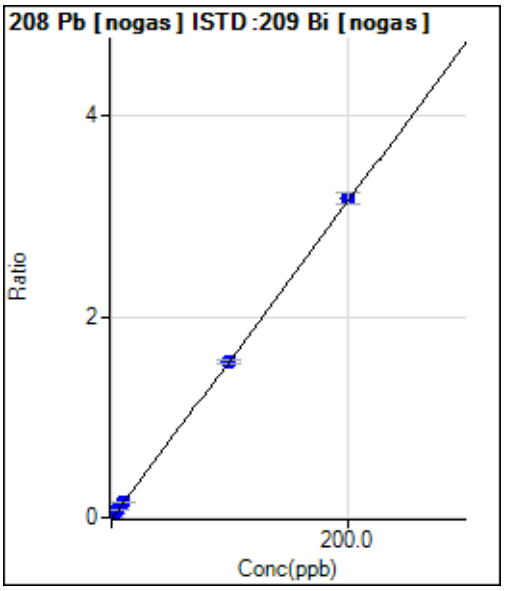


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	160.00	0.0001	P	12.3	
2	☐	2.000	1.875	14364.45	0.0065	P	2.3	-6.2
3	☐	5.000	4.608	35165.89	0.0159	P	2.7	-7.8
4	☐	10.000	9.356	71493.90	0.0322	P	2.3	-6.4
5	☐	100.000	97.445	732243.63	0.3348	P	2.5	-2.6
6	☐	200.000	201.321	1458121.49	0.6917	P	3.5	0.7
7	☐	1.000						

y = 0.0034 * x + 7.2101E-005
R = 0.9999
DL = 0.00774 ppb
BEC = 0.02099 ppb

Weight: <None>
Min Conc: <None>

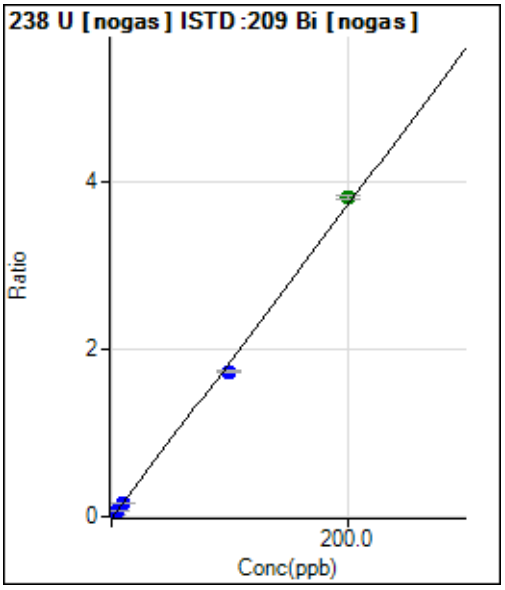
Calibration for 112_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	766.69	0.0003	P	13.4	
2	☐	2.000	1.910	67380.08	0.0306	P	2.7	-4.5
3	☐	5.000	4.615	162154.95	0.0733	P	3.5	-7.7
4	☐	10.000	9.484	333678.01	0.1504	P	3.4	-5.2
5	☐	100.000	98.046	3392612.84	1.5513	P	1.8	-2.0
6	☐	200.000	201.013	6704128.44	3.1800	P	3.3	0.5
7	☐	1.000						

y = 0.0158 * x + 3.4552E-004
R = 0.9999
DL = 0.008776 ppb
BEC = 0.02184 ppb

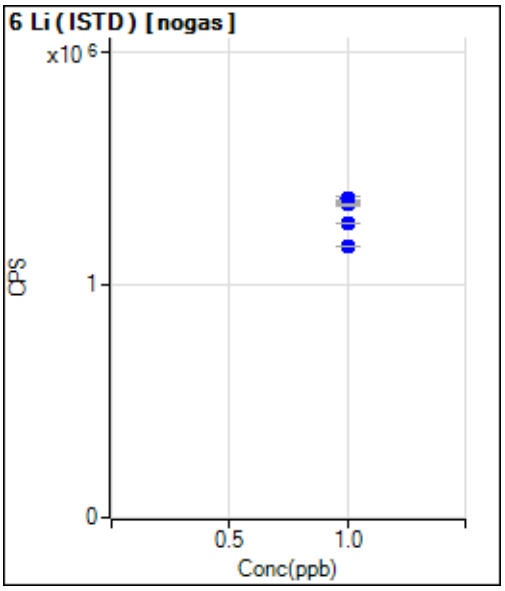
Weight: <None>
Min Conc: <None>



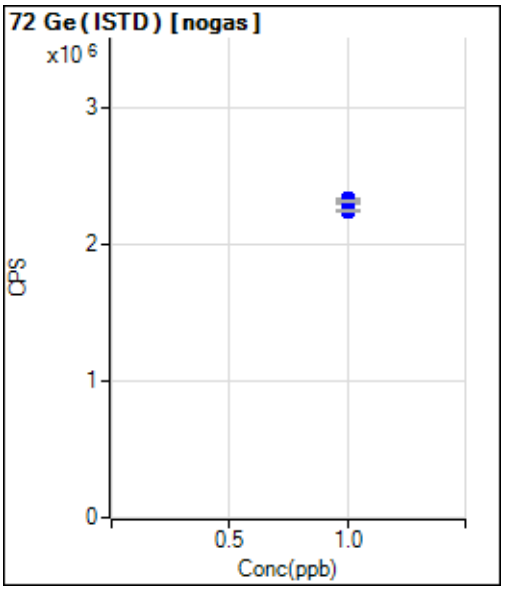
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	310.01	0.0001	P	27.3	
2	☐	2.000	1.729	71722.14	0.0325	P	4.2	-13.6
3	☐	5.000	4.187	173775.86	0.0786	P	3.3	-16.3
4	☐	10.000	8.625	358974.42	0.1618	P	3.4	-13.7
5	☐	100.000	92.359	3785107.86	1.7308	P	1.2	-7.6
6	☐	200.000	203.912	8057755.71	3.8211	A	0.9	2.0
7	☐	1.000						

y = 0.0187 * x + 1.3923E-004
R = 0.9990
DL = 0.006094 ppb
BEC = 0.00743 ppb

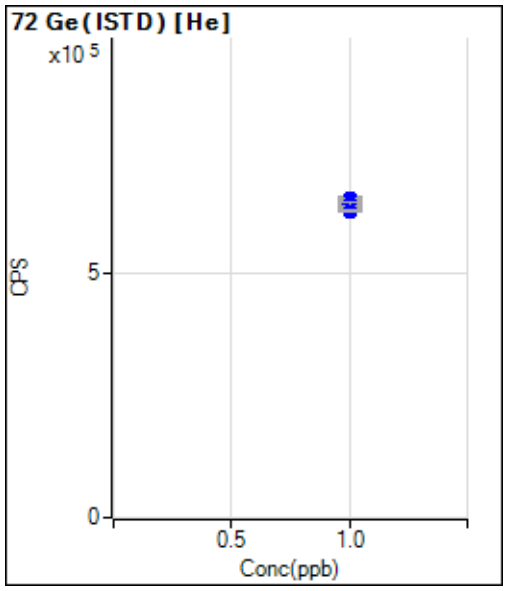
Weight: <None>
Min Conc: <None>



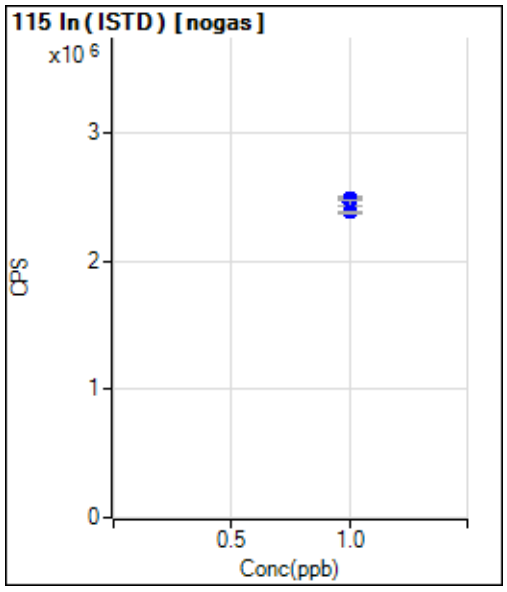
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1369633.52		P	1.0	
2	☐	1.000		1359467.55		P	0.8	
3	☐	1.000		1346307.54		P	0.6	
4	☐	1.000		1342772.90		P	0.3	
5	☐	1.000		1262457.50		P	0.1	
6	☐	1.000		1164046.18		P	0.4	
7	☐	1.000						



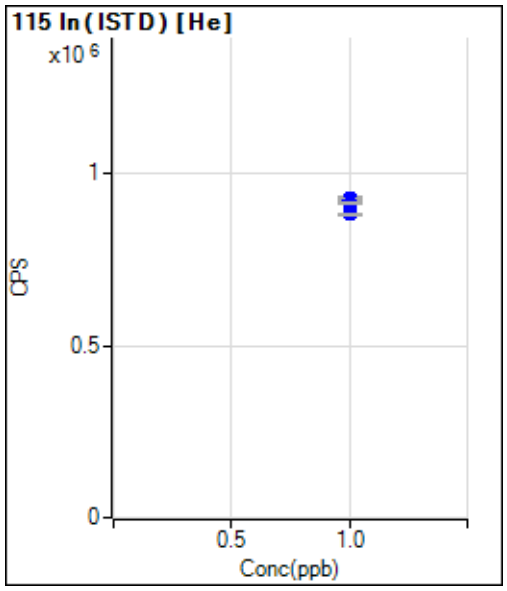
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2338923.77		P	0.4	
2	☐	1.000		2325446.37		P	0.6	
3	☐	1.000		2308596.58		P	0.8	
4	☐	1.000		2309191.06		P	0.8	
5	☐	1.000		2320299.44		P	0.8	
6	☐	1.000		2245378.14		P	0.8	
7	☐	1.000						



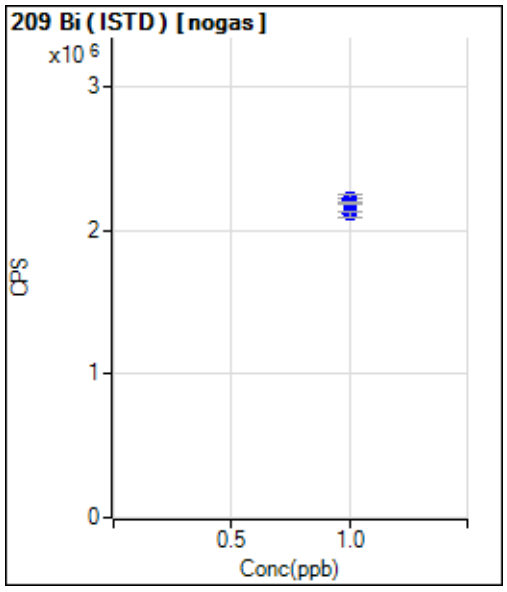
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		638659.62		P	1.4	
2	☐	1.000		652929.73		P	0.6	
3	☐	1.000		651296.75		P	0.1	
4	☐	1.000		642380.95		P	0.3	
5	☐	1.000		640831.47		P	0.9	
6	☐	1.000		627359.40		P	0.6	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2494311.02		P	0.6	
2	☐	1.000		2496167.47		P	0.8	
3	☐	1.000		2489500.65		P	1.0	
4	☐	1.000		2487327.05		P	0.7	
5	☐	1.000		2460060.33		P	1.7	
6	☐	1.000		2386058.06		P	0.9	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		918036.72		P	0.7	
2	☐	1.000		927092.53		P	0.9	
3	☐	1.000		929248.51		P	0.9	
4	☐	1.000		923587.81		P	0.7	
5	☐	1.000		914160.72		P	0.9	
6	☐	1.000		883879.68		P	0.6	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2222206.37		P	2.8	
2	☐	1.000		2205027.15		P	1.8	
3	☐	1.000		2212424.55		P	2.9	
4	☐	1.000		2220260.38		P	2.5	
5	☐	1.000		2187031.79		P	1.0	
6	☐	1.000		2108918.46		P	1.6	
7	☐	1.000						

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCV2
Data File Name	114LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T13:56:30-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref File Name	105CALB.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	1.905	3.772	12720	3.44	2	95.3	70	120	
B	11	1	nogas	14.696	1.317	121507	0.76	10	147.0	70	120	NewName Main CR1 Failed
Al	27	1	nogas	0.726	6.898	109085	1.58	2	36.3	70	120	NewName Main CR1 Failed
P	31	1	nogas	37.333	38.404	51001	0.95	10	373.3	70	120	NewName Main CR1 Failed
Ti	47	1	nogas	2.124	8.359	3637	5.93	2	106.2	70	120	
Ni	60	1	nogas	2.042	2.270	10304	1.10	2	102.1	70	120	
Cu	63	1	nogas	2.088	2.003	24647	2.28	2	104.4	70	120	
Zn	66	1	nogas	2.037	1.797	9403	1.75	2	101.9	70	120	
Se	77	1	nogas	-11.428	-7.285	4124	3.78	2	-571.4	70	120	NewName Main CR1 Failed
Se	82	1	nogas	1.929	8.503	670	3.95	2	96.5	70	120	
Sr	88	1	nogas	1.891	1.745	52300	2.44	2	94.5	70	120	
Mo	95	1	nogas	2.062	1.083	11715	1.52	2	103.1	70	120	
Ag	107	1	nogas	2.304	2.341	28435	4.46	2	115.2	70	120	
Cd	111	1	nogas	2.053	2.949	5407	4.69	2	102.6	70	120	
Sn	118	1	nogas	2.322	5.606	21476	3.59	2	116.1	70	120	
Sb	121	1	nogas	2.194	0.274	26054	1.92	2	109.7	70	120	
Ba	137	1	nogas	2.059	4.684	8760	4.11	2	102.9	70	120	
Tl	205	1	nogas	1.853	1.290	48570	1.99	2	92.7	70	120	
Pb	208	1	nogas	1.991	0.670	67787	2.61	2	99.5	70	120	
[Pb]	206	1	nogas	1.991	2.626	16981	0.51	2	99.6	70	120	
[Pb]	207	1	nogas	2.001	5.565	14798	7.22	2	100.0	70	120	
U	238	1	nogas	1.787	1.836	71571	1.08	2	89.3	70	120	
Li	7	1	nogas	1.930	3.927	134161	0.92	2	96.5	70	120	
Ba	135	1	nogas	1.986	8.700	4851	10.33	2	99.3	70	120	
Tl	203	1	nogas	1.997	2.131	20616	3.85	2	99.8	70	120	
Na	23	2	He	190.576	0.864	408036	0.44	200	95.3	70	120	
Mg	24	2	He	194.759	1.326	197522	1.51	200	97.4	70	120	
Al	27	2	He	0.612	36.325	4044	2.73	2	30.6	70	120	NewName Main CR1 Failed
K	39	2	He	191.167	1.119	296920	0.43	200	95.6	70	120	
Ca	43	2	He	187.993	1.556	637	0.91	200	94.0	70	120	
Ca	44	2	He	197.355	3.341	11238	2.12	200	98.7	70	120	
V	51	2	He	1.791	6.510	13764	4.53	2	89.5	70	120	
Cr	52	2	He	1.718	6.183	22043	3.79	2	85.9	70	120	
Mn	55	2	He	1.893	2.649	10931	3.03	2	94.6	70	120	
Fe	56	2	He	186.925	0.158	1239887	0.75	200	93.5	70	120	
Co	59	2	He	2.004	2.069	18241	2.32	2	100.2	70	120	
Ni	60	2	He	2.037	3.373	4921	3.25	2	101.9	70	120	
Cu	63	2	He	2.019	5.780	12249	6.08	2	100.9	70	120	
Zn	66	2	He	2.209	5.452	3567	4.79	2	110.4	70	120	
As	75	2	He	2.017	4.336	2085	3.32	2	100.8	70	120	
Se	77	2	He	2.185	79.004	113	41.70	2	109.2	70	120	
Sb	121	2	He	2.208	5.478	10624	4.75	2	110.4	70	120	
Se	78	2	He	1.935	9.999	246	6.95	2	96.8	70	120	
Ti	47	2	He	2.039	15.392	563	14.24	2	102.0	70	120	
Zr	90	1	nogas	1.584	1.462	29757	1.49	2	79.2	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	2279634	2.18	2338924	97.47	70	120	
In	115	1	nogas	2416776	2.29	2494311	96.89	70	120	
Li	6	1	nogas	1329480	1.36	1369634	97.07	70	120	
Bi	209	1	nogas	2129238	2.06	2222206	95.82	70	120	
Ge	72	2	He	645378	0.67	638660	101.05	70	120	
In	115	2	He	922610	0.76	918037	100.50	70	120	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCV5
Data File Name	115LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T13:58:37-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref File Name	105CALB.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	4.420	1.699	29677	1.43	5	88.4	70	130	
B	11	1	nogas	26.438	1.556	174664	0.47	25	105.8	70	130	
Al	27	1	nogas	4.195	2.767	169016	0.95	5	83.9	70	130	
P	31	1	nogas	41.419	25.002	51935	0.66	25	165.7	70	130	NewName Main CR1 Failed
Ti	47	1	nogas	4.991	2.665	8372	2.92	5	99.8	70	130	
Ni	60	1	nogas	4.931	1.666	24327	3.15	5	98.6	70	130	
Cu	63	1	nogas	5.012	0.842	58073	2.32	5	100.2	70	130	
Zn	66	1	nogas	5.191	2.995	20137	2.61	5	103.8	70	130	
Se	77	1	nogas	-8.219	-10.293	4607	4.21	5	-164.4	70	130	NewName Main CR1 Failed
Se	82	1	nogas	4.610	12.162	1180	10.28	5	92.2	70	130	
Sr	88	1	nogas	4.488	1.608	124946	0.23	5	89.8	70	130	
Mo	95	1	nogas	4.646	2.191	26765	1.92	5	92.9	70	130	
Ag	107	1	nogas	5.417	0.881	68317	2.29	5	108.3	70	130	
Cd	111	1	nogas	4.741	0.825	12788	1.27	5	94.8	70	130	
Sn	118	1	nogas	4.801	1.315	42546	1.70	5	96.0	70	130	
Sb	121	1	nogas	4.794	2.179	56759	0.49	5	95.9	70	130	
Ba	137	1	nogas	4.496	2.485	18966	2.27	5	89.9	70	130	
Tl	205	1	nogas	4.383	2.639	119190	1.76	5	87.7	70	130	
Pb	208	1	nogas	4.636	2.543	162944	1.13	5	92.7	70	130	
U	238	1	nogas	4.218	3.220	175092	2.05	5	84.4	70	130	
Li	7	1	nogas	4.554	1.877	189382	1.39	5	91.1	70	130	
Na	23	2	He	470.050	1.907	911209	0.10	500	94.0	70	130	
Mg	24	2	He	475.385	2.227	481267	1.29	500	95.1	70	130	
Al	27	2	He	3.975	3.929	6141	2.43	5	79.5	70	130	
K	39	2	He	462.057	1.044	584875	0.93	500	92.4	70	130	
Ca	43	2	He	479.630	8.361	1467	6.86	500	95.9	70	130	
Ca	44	2	He	487.102	2.084	24957	3.59	500	97.4	70	130	
V	51	2	He	4.798	2.000	32424	2.94	5	96.0	70	130	
Cr	52	2	He	4.738	2.165	43052	1.68	5	94.8	70	130	
Mn	55	2	He	4.865	2.712	26374	3.72	5	97.3	70	130	
Fe	56	2	He	454.069	1.440	2991737	0.80	500	90.8	70	130	
Co	59	2	He	4.892	1.930	44600	1.27	5	97.8	70	130	
Ni	60	2	He	4.804	5.509	11281	3.74	5	96.1	70	130	
Cu	63	2	He	5.036	2.115	29760	0.47	5	100.7	70	130	
Zn	66	2	He	5.371	3.818	7502	4.01	5	107.4	70	130	
As	75	2	He	4.952	1.229	4849	1.90	5	99.0	70	130	
Sb	121	2	He	4.751	2.274	22658	0.57	5	95.0	70	130	
Se	78	2	He	4.869	6.803	500	4.45	5	97.4	70	130	
Ti	47	2	He	5.179	19.350	1400	18.68	5	103.6	70	130	
Zr	90	1	nogas	4.014	2.095	75302	1.49	5	80.3	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	2300381	1.68	2338924	98.35	70	120	
In	115	1	nogas	2474133	1.41	2494311	99.19	70	120	
Li	6	1	nogas	1339703	0.77	1369634	97.81	70	120	
Bi	209	1	nogas	2212203	1.61	2222206	99.55	70	120	
Ge	72	2	He	647911	1.67	638660	101.45	70	120	
In	115	2	He	926109	0.15	918037	100.88	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	117_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T14:02:51-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	105CALB.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
Sb	121	1	nogas	0.105	7.2	1833	5.2	2	
V	51	2	He	-0.180	-39.8	1649	26.6	2.5	
Sb	121	2	He	0.107	14.0	763	9.9	2	
V	51	1	nogas	0.076	81.8	1646	95.3	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	2347105	0.21	2338924	100.35	70	120	
In	115	1	nogas	2486843	1.01	2494311	99.70	70	120	
Li	6	1	nogas	1363039	0.40	1369634	99.52	70	120	
Bi	209	1	nogas	2175831	2.78	2222206	97.91	70	120	
Ge	72	2	He	654495	0.57	638660	102.48	70	120	
In	115	2	He	937843	1.52	918037	102.16	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	216CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T18:10:08-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	73	5.37
B	11	1	nogas	81956	0.00
Al	27	1	nogas	92500	0.00
P	31	1	nogas	43960	0.01
Ti	47	1	nogas	187	8.77
Ni	60	1	nogas	890	0.83
Cu	63	1	nogas	1503	0.91
Zn	66	1	nogas	2494	0.20
Se	77	1	nogas	4391	0.15
Se	82	1	nogas	300	5.09
Sr	88	1	nogas	1680	0.38
Mo	95	1	nogas	247	2.51
Ag	107	1	nogas	103	32.89
Cd	111	1	nogas	3	5196.15
Sn	118	1	nogas	2474	0.15
Sb	121	1	nogas	1003	1.41
Ba	137	1	nogas	427	3.03
Tl	205	1	nogas	163	31.21
Pb	208	1	nogas	873	0.99
Li	7	1	nogas	79980	0.00
Na	23	2	He	328086	0.00
Mg	24	2	He	2230	0.04
Al	27	2	He	3414	0.19
K	39	2	He	90182	0.00
Ca	43	2	He	63	28.79
Ca	44	2	He	1750	0.12
V	51	2	He	2235	0.92
Cr	52	2	He	8809	0.08
Mn	55	2	He	680	2.55
Fe	56	2	He	21115	0.02
Co	59	2	He	57	47.57
Ni	60	2	He	300	2.94
Cu	63	2	He	620	0.45
Zn	66	2	He	983	0.43
As	75	2	He	174	6.03
Sb	121	2	He	463	5.86
Se	78	2	He	76	12.48

Calibration Blank Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Ge	72	1	nogas	2222435	1.15
In	115	1	nogas	2487358	0.45

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	nogas	1125226	0.84
Bi	209	1	nogas	2305146	2.99
Ge	72	2	He	633162	1.00
In	115	2	He	884304	1.24

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	217CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T18:12:16-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	216CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	10782	0.00
B	11	1	nogas	119023	0.00
Al	27	1	nogas	105483	0.00
P	31	1	nogas	46471	0.00
Ti	47	1	nogas	3124	0.19
Ni	60	1	nogas	9823	0.02
Cu	63	1	nogas	22878	0.00
Zn	66	1	nogas	8966	0.06
Se	77	1	nogas	4307	0.02
Se	82	1	nogas	717	0.96
Sr	88	1	nogas	52183	0.00
Mo	95	1	nogas	10828	0.02
Ag	107	1	nogas	27897	0.00
Cd	111	1	nogas	5423	0.07
Sn	118	1	nogas	18275	0.00
Sb	121	1	nogas	23643	0.01
Ba	137	1	nogas	8760	0.04
Tl	205	1	nogas	50882	0.01
Pb	208	1	nogas	70780	0.00
Na	23	2	He	662715	0.00
Mg	24	2	He	191470	0.00
Al	27	2	He	3934	0.07
K	39	2	He	279195	0.00
Ca	43	2	He	513	2.90
Ca	44	2	He	10147	0.08
V	51	2	He	14082	0.03
Cr	52	2	He	21172	0.01
Mn	55	2	He	10340	0.02
Fe	56	2	He	1194258	0.00
Co	59	2	He	17664	0.02
Ni	60	2	He	4641	0.06
Cu	63	2	He	12082	0.02
Zn	66	2	He	3424	0.03
As	75	2	He	1959	0.35
Sb	121	2	He	9413	0.01
Se	78	2	He	238	4.51

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	2214779	0.71	2222435	99.66	70	120	
In	115	1	nogas	2471901	1.24	2487358	99.38	70	120	
Li	6	1	nogas	1118916	0.58	1125226	99.44	70	120	
Bi	209	1	nogas	2312630	2.59	2305146	100.32	70	120	
Ge	72	2	He	634848	0.17	633162	100.27	70	120	
In	115	2	He	898542	0.76	884304	101.61	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	218CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T18:14:24-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	216CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	26054	0.01
B	11	1	nogas	168049	0.00
Al	27	1	nogas	164276	0.00
P	31	1	nogas	48280	0.00
Ti	47	1	nogas	7285	0.05
Ni	60	1	nogas	22283	0.01
Cu	63	1	nogas	51990	0.00
Zn	66	1	nogas	19480	0.01
Se	77	1	nogas	4858	0.04
Se	82	1	nogas	1110	0.37
Sr	88	1	nogas	123585	0.00
Mo	95	1	nogas	26347	0.01
Ag	107	1	nogas	67503	0.00
Cd	111	1	nogas	12775	0.05
Sn	118	1	nogas	41533	0.01
Sb	121	1	nogas	56317	0.00
Ba	137	1	nogas	19844	0.00
Tl	205	1	nogas	124578	0.00
Pb	208	1	nogas	170988	0.00
Na	23	2	He	1148036	0.00
Mg	24	2	He	462854	0.00
Al	27	2	He	6035	0.07
K	39	2	He	549005	0.00
Ca	43	2	He	1403	0.68
Ca	44	2	He	23161	0.01
V	51	2	He	29708	0.01
Cr	52	2	He	40765	0.00
Mn	55	2	He	24423	0.01
Fe	56	2	He	2887498	0.00
Co	59	2	He	43463	0.00
Ni	60	2	He	11261	0.01
Cu	63	2	He	29062	0.00
Zn	66	2	He	7252	0.07
As	75	2	He	4556	0.06
Sb	121	2	He	21546	0.01
Se	78	2	He	497	0.94

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	2230837	1.17	2222435	100.38	70	120	
In	115	1	nogas	2497859	0.48	2487358	100.42	70	120	
Li	6	1	nogas	1105343	0.78	1125226	98.23	70	120	
Bi	209	1	nogas	2334615	2.09	2305146	101.28	70	120	
Ge	72	2	He	640223	1.36	633162	101.12	70	120	
In	115	2	He	894364	0.54	884304	101.14	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/1000
Data File Name	219CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T18:16:32-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	216CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	53062	0.01
B	11	1	nogas	258697	0.00
Al	27	1	nogas	226893	0.00
P	31	1	nogas	51537	0.00
Ti	47	1	nogas	15378	0.02
Ni	60	1	nogas	44670	0.00
Cu	63	1	nogas	105972	0.00
Zn	66	1	nogas	35278	0.01
Se	77	1	nogas	5785	0.07
Se	82	1	nogas	2174	0.29
Sr	88	1	nogas	250970	0.00
Mo	95	1	nogas	53180	0.00
Ag	107	1	nogas	137794	0.00
Cd	111	1	nogas	26400	0.00
Sn	118	1	nogas	81966	0.00
Sb	121	1	nogas	114770	0.00
Ba	137	1	nogas	39696	0.01
Tl	205	1	nogas	255543	0.00
Pb	208	1	nogas	354196	0.00
Na	23	2	He	2018593	0.00
Mg	24	2	He	956910	0.00
Al	27	2	He	8342	0.09
K	39	2	He	1027150	0.00
Ca	43	2	He	2624	0.23
Ca	44	2	He	45091	0.01
V	51	2	He	61458	0.00
Cr	52	2	He	75207	0.00
Mn	55	2	He	49759	0.00
Fe	56	2	He	6482680	0.00
Co	59	2	He	89251	0.00
Ni	60	2	He	23395	0.02
Cu	63	2	He	58695	0.00
Zn	66	2	He	13303	0.02
As	75	2	He	8863	0.04
Sb	121	2	He	44355	0.00
Se	78	2	He	895	0.74

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	2221965	1.38	2222435	99.98	70	120	
In	115	1	nogas	2489183	0.88	2487358	100.07	70	120	
Li	6	1	nogas	1104237	1.82	1125226	98.13	70	120	
Bi	209	1	nogas	2342064	1.40	2305146	101.60	70	120	
Ge	72	2	He	625594	1.24	633162	98.80	70	120	
In	115	2	He	884640	0.48	884304	100.04	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	220CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T18:18:39-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	216CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	553083	0.00
B	11	1	nogas	1899183	0.00
Al	27	1	nogas	1648419	0.00
P	31	1	nogas	97501	0.00
Ti	47	1	nogas	155744	0.00
Ni	60	1	nogas	445226	0.00
Cu	63	1	nogas	1050207	0.00
Zn	66	1	nogas	328176	0.00
Se	77	1	nogas	17701	0.02
Se	82	1	nogas	18211	0.02
Sr	88	1	nogas	2582310	0.00
Mo	95	1	nogas	550458	0.00
Ag	107	1	nogas	1241109	0.00
Cd	111	1	nogas	271910	0.00
Sn	118	1	nogas	830399	0.00
Sb	121	1	nogas	1182462	0.00
Ba	137	1	nogas	407611	0.00
Tl	205	1	nogas	2645704	0.00
Pb	208	1	nogas	3632818	0.00
Na	23	2	He	18130218	0.00
Mg	24	2	He	10041143	0.00
Al	27	2	He	59770	0.00
K	39	2	He	10142593	0.00
Ca	43	2	He	26133	0.01
Ca	44	2	He	439951	0.00
V	51	2	He	608366	0.00
Cr	52	2	He	685178	0.00
Mn	55	2	He	493775	0.00
Fe	56	2	He	63819246	0.00
Co	59	2	He	890365	0.00
Ni	60	2	He	224670	0.00
Cu	63	2	He	572925	0.00
Zn	66	2	He	121554	0.00
As	75	2	He	89228	0.00
Sb	121	2	He	458594	0.00
Se	78	2	He	8238	0.02

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	2228956	0.59	2222435	100.29	70	120	
In	115	1	nogas	2478221	0.84	2487358	99.63	70	120	
Li	6	1	nogas	1045724	0.19	1125226	92.93	70	120	
Bi	209	1	nogas	2319777	0.62	2305146	100.63	70	120	
Ge	72	2	He	629745	0.35	633162	99.46	70	120	
In	115	2	He	878642	0.46	884304	99.36	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	221CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T18:20:47-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	216CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	1092318	0.00
B	11	1	nogas	3728156	0.00
Al	27	1	nogas	3205315	0.00
P	31	1	nogas	144021	0.00
Ti	47	1	nogas	307754	0.00
Ni	60	1	nogas	863514	0.00
Cu	63	1	nogas	2046788	0.00
Zn	66	1	nogas	643295	0.00
Se	77	1	nogas	31871	0.00
Se	82	1	nogas	36211	0.01
Sr	88	1	nogas	5438030	0.00
Mo	95	1	nogas	1100550	0.00
Ag	107	1	nogas	2417802	0.00
Cd	111	1	nogas	535224	0.00
Sn	118	1	nogas	1636254	0.00
Sb	121	1	nogas	2383499	0.00
Ba	137	1	nogas	799043	0.00
Tl	205	1	nogas	5719009	0.00
Pb	208	1	nogas	7121596	0.00
Na	23	2	He	35809859	0.00
Mg	24	2	He	19826031	0.00
Al	27	2	He	116103	0.00
K	39	2	He	20022071	0.00
Ca	43	2	He	54009	0.00
Ca	44	2	He	885443	0.00
V	51	2	He	1197877	0.00
Cr	52	2	He	1353393	0.00
Mn	55	2	He	972803	0.00
Fe	56	2	He	125140251	0.00
Co	59	2	He	1774013	0.00
Ni	60	2	He	442393	0.00
Cu	63	2	He	1124138	0.00
Zn	66	2	He	243426	0.00
As	75	2	He	179291	0.00
Sb	121	2	He	918874	0.00
Se	78	2	He	15970	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	2191472	0.29	2222435	98.61	70	120	
In	115	1	nogas	2416582	1.42	2487358	97.15	70	120	
Li	6	1	nogas	975026	1.22	1125226	86.65	70	120	
Bi	209	1	nogas	2249351	1.31	2305146	97.58	70	120	
Ge	72	2	He	626039	0.25	633162	98.88	70	120	
In	115	2	He	863936	0.13	884304	97.70	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	223_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T18:25:01-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	96.454	0.665	559173	0.23	100	96.5	90	110	
B	11	1	nogas	466.278	1.716	1880911	1.19	500	93.3	90	110	
Al	27	1	nogas	100.343	0.797	1687144	1.65	100	100.3	90	110	
P	31	1	nogas	1977.572	1.764	250305	1.85	500	395.5	90	110	ICV Main CR1 Failed
Ti	47	1	nogas	101.206	0.385	159380	1.26	100	101.2	90	110	
Ni	60	1	nogas	102.417	1.836	454461	2.69	100	102.4	90	110	
Cu	63	1	nogas	102.282	1.954	1074547	2.90	100	102.3	90	110	
Zn	66	1	nogas	101.258	0.596	334745	1.47	100	101.3	90	110	
Se	77	1	nogas	96.671	1.865	17928	2.23	100	96.7	90	110	
Se	82	1	nogas	98.337	3.020	18315	2.62	100	98.3	90	110	
Sr	88	1	nogas	96.727	0.513	2651853	0.57	100	96.7	90	110	
Mo	95	1	nogas	99.311	0.206	556471	0.35	100	99.3	90	110	
Ag	107	1	nogas	108.144	1.123	1338540	1.32	100	108.1	90	110	
Cd	111	1	nogas	101.245	2.362	276706	2.51	100	101.2	90	110	
Sn	118	1	nogas	101.273	1.618	847015	1.77	100	101.3	90	110	
Sb	121	1	nogas	101.162	0.759	1228799	1.65	100	101.2	90	110	
Ba	137	1	nogas	101.572	0.840	414941	1.04	100	101.6	90	110	
Tl	205	1	nogas	95.834	2.639	2740605	1.37	100	95.8	90	110	
Pb	208	1	nogas	100.980	3.589	3664377	2.35	100	101.0	90	110	
U	238	1	nogas	96.496	3.622	4233160	2.46	100	96.5	90	110	
Li	7	1	nogas	95.602	0.794	1697814	0.79	100	95.6	90	110	
Ba	135	1	nogas	101.370	2.166	237522	2.32	100	101.4	90	110	
Tl	203	1	nogas	103.713	3.180	1132928	2.05	100	103.7	90	110	
Na	23	2	He	10061.114	0.495	18234192	0.94	10000	100.6	90	110	
Mg	24	2	He	10182.219	0.192	10146236	0.62	10000	101.8	90	110	
Al	27	2	He	100.691	1.927	60279	2.23	100	100.7	90	110	
K	39	2	He	10370.018	0.242	10468323	0.53	10000	103.7	90	110	
Ca	43	2	He	10099.246	0.588	27191	0.77	10000	101.0	90	110	
Ca	44	2	He	10159.001	1.156	451065	1.59	10000	101.6	90	110	
V	51	2	He	102.595	0.635	618849	0.41	100	102.6	90	110	
Cr	52	2	He	102.839	0.840	702797	0.68	100	102.8	90	110	
Mn	55	2	He	103.634	0.962	507212	1.39	100	103.6	90	110	
Fe	56	2	He	10340.940	1.284	65141576	1.40	10000	103.4	90	110	
Co	59	2	He	104.120	1.194	926718	1.43	100	104.1	90	110	
Ni	60	2	He	103.839	0.783	231140	0.77	100	103.8	90	110	
Cu	63	2	He	104.489	0.381	591378	0.19	100	104.5	90	110	
Zn	66	2	He	103.783	0.389	126995	0.79	100	103.8	90	110	
As	75	2	He	103.816	0.297	93285	0.57	100	103.8	90	110	
Sb	121	2	He	103.735	0.525	477795	0.34	100	103.7	90	110	
Se	78	2	He	105.248	3.092	8508	3.50	100	105.2	90	110	
Ti	47	2	He	103.532	2.204	26086	2.15	100	103.5	90	110	
Zr	90	1	nogas	80.236	1.106	1445715	1.14	100	80.2	90	110	ICV Main CR1 Failed

QC ISTD Table

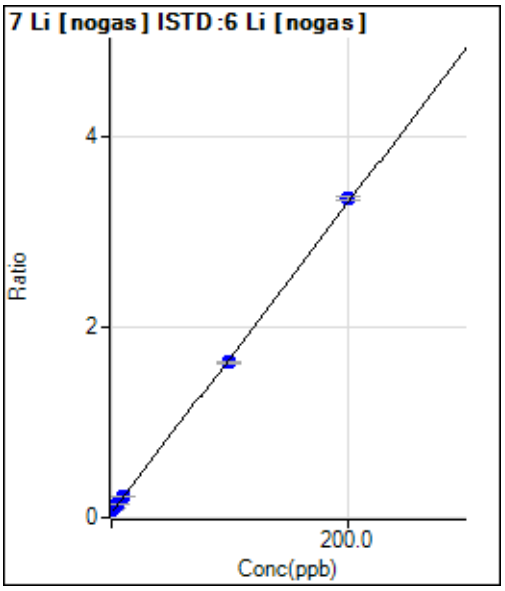
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2244187	0.98	2222435	100.98	70	120	
In	115	1	nogas	2472839	0.20	2487358	99.42	70	120	
Li	6	1	nogas	1046855	0.58	1125226	93.04	70	120	
Bi	209	1	nogas	2297722	1.32	2305146	99.68	70	120	
Ge	72	2	He	628438	0.47	633162	99.25	70	120	
In	115	2	He	881771	0.64	884304	99.71	70	120	

Calibration for 223_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070424A.b\
Analysis File: 070424A.batch.bin
DA Date-Time: 7/4/2024 9:09:53 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	216CALB.d	CAL BLK	7/4/2024 6:10:08 PM
2	217CALS.d	2/10/200	7/4/2024 6:12:16 PM
3	218CALS.d	5/25/500	7/4/2024 6:14:24 PM
4	219CALS.d	10/50/1000	7/4/2024 6:16:32 PM
5	220CALS.d	100/500/10K	7/4/2024 6:18:39 PM
6	221CALS.d	200/1000/20K	7/4/2024 6:20:47 PM
7			

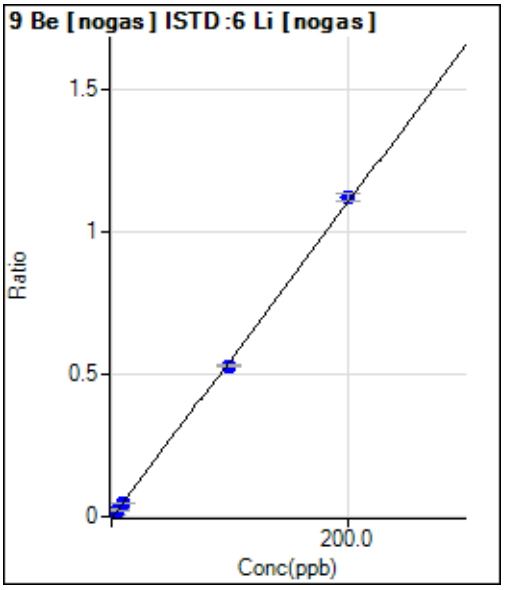
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79980.31	0.0711	P	0.9	
2	☐	2.000	1.729	110906.12	0.0991	P	0.9	-13.6
3	☐	5.000	4.404	157534.81	0.1425	P	0.5	-11.9
4	☐	10.000	8.996	239601.78	0.2170	P	0.8	-10.0
5	☐	100.000	96.008	1702889.82	1.6284	P	0.6	-4.0
6	☐	200.000	202.064	3264717.24	3.3488	P	1.5	1.0
7	☐	1.000						

y = 0.0162 * x + 0.0711
R = 0.9997
DL = 0.1206 ppb
BEC = 4.382 ppb

Weight: <None>
Min Conc: <None>

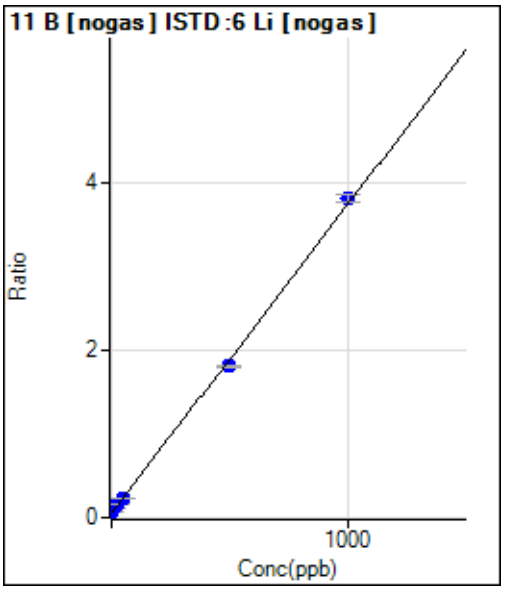


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73.33	0.0001	P	3.2	
2	☐	2.000	1.728	10782.14	0.0096	P	0.6	-13.6
3	☐	5.000	4.246	26053.52	0.0236	P	3.1	-15.1
4	☐	10.000	8.667	53061.86	0.0481	P	2.9	-13.3
5	☐	100.000	95.503	553083.25	0.5289	P	0.8	-4.5
6	☐	200.000	202.337	1092317.75	1.1205	P	2.0	1.2
7	☐	1.000						

y = 0.0055 * x + 6.5163E-005
R = 0.9997
DL = 0.001145 ppb
BEC = 0.01177 ppb

Weight: <None>
Min Conc: <None>

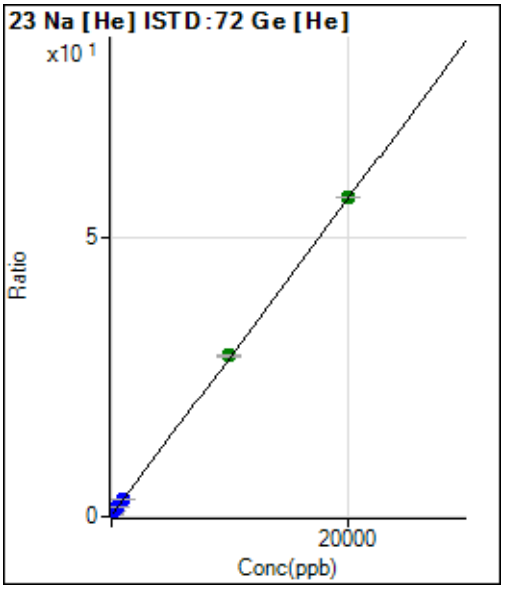
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	81956.31	0.0728	P	1.6	
2	☐	10.000	9.072	119022.88	0.1064	P	2.2	-9.3
3	☐	25.000	21.423	168048.99	0.1520	P	2.2	-14.3
4	☐	50.000	43.670	258696.62	0.2343	P	1.2	-12.7
5	☐	500.000	471.499	1899183.04	1.8161	P	1.2	-5.7
6	☐	1000.000	1014.666	3728155.78	3.8244	P	2.6	1.5
7	☐	5.000						

y = 0.0037 * x + 0.0728
R = 0.9995
DL = 0.943 ppb
BEC = 19.7 ppb

Weight: <None>
Min Conc: <None>

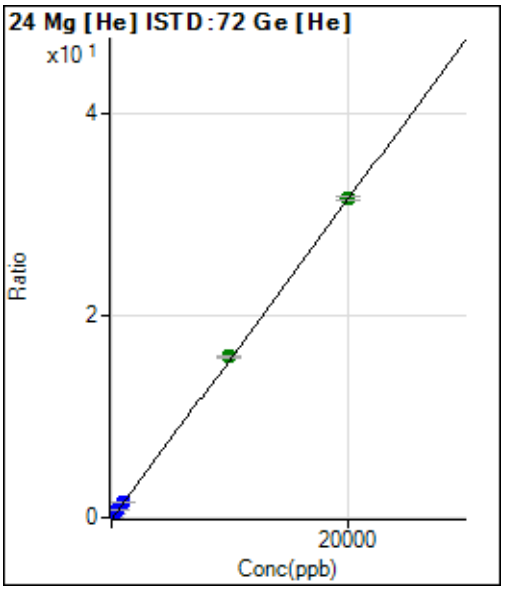


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	328086.46	0.5182	P	2.2	
2	☐	200.000	185.593	662714.68	1.0439	P	0.2	-7.2
3	☐	500.000	450.239	1148035.74	1.7935	P	1.7	-10.0
4	☐	1000.000	956.346	2018593.46	3.2269	P	1.3	-4.4
5	☐	10000.00	9981.846	18130218.48	28.7902	A	0.6	-0.2
6	☐	20000.00	20012.64	35809858.63	57.2008	A	0.3	0.1
7	☐	100.000						

y = 0.0028 * x + 0.5182
R = 1.0000
DL = 11.98 ppb
BEC = 183 ppb

Weight: <None>
Min Conc: <None>

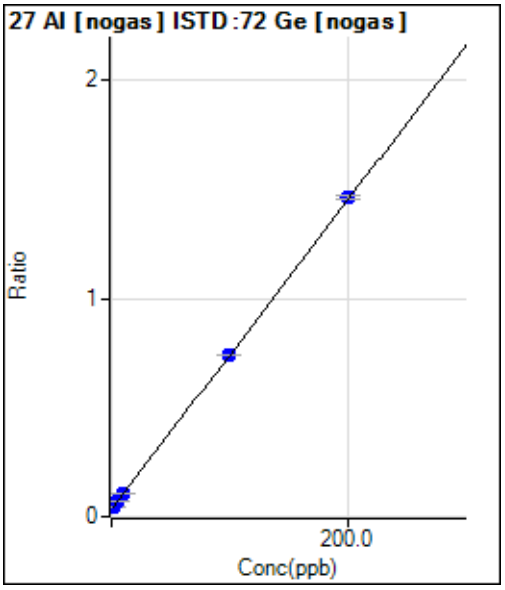
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2230.21	0.0035	P	1.5	
2	☐	200.000	188.029	191470.41	0.3016	P	0.6	-6.0
3	☐	500.000	453.903	462854.11	0.7231	P	2.0	-9.2
4	☐	1000.000	962.758	956910.22	1.5298	P	1.4	-3.7
5	☐	10000.00	10056.03	10041143.39	15.9451	A	0.7	0.6
6	☐	20000.00	19975.11	19826031.37	31.6695	A	1.0	-0.1
7	☐	100.000						

y = 0.0016 * x + 0.0035
R = 1.0000
DL = 0.1023 ppb
BEC = 2.222 ppb

Weight: <None>
Min Conc: <None>

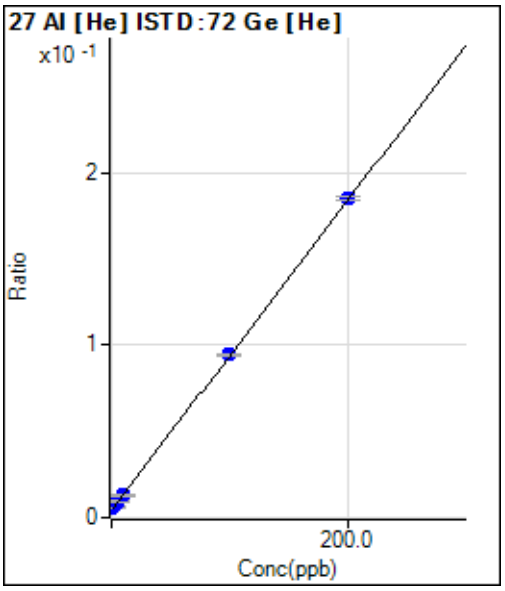


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	92500.28	0.0416	P	1.1	
2	☐	2.000	0.848	105483.09	0.0476	P	0.5	-57.6
3	☐	5.000	4.525	164275.95	0.0736	P	1.4	-9.5
4	☐	10.000	8.548	226892.63	0.1021	P	1.0	-14.5
5	☐	100.000	98.618	1648418.57	0.7395	P	0.7	-1.4
6	☐	200.000	200.787	3205314.64	1.4626	P	1.0	0.4
7	☐	1.000						

y = 0.0071 * x + 0.0416
R = 1.0000
DL = 0.186 ppb
BEC = 5.882 ppb

Weight: <None>
Min Conc: <None>

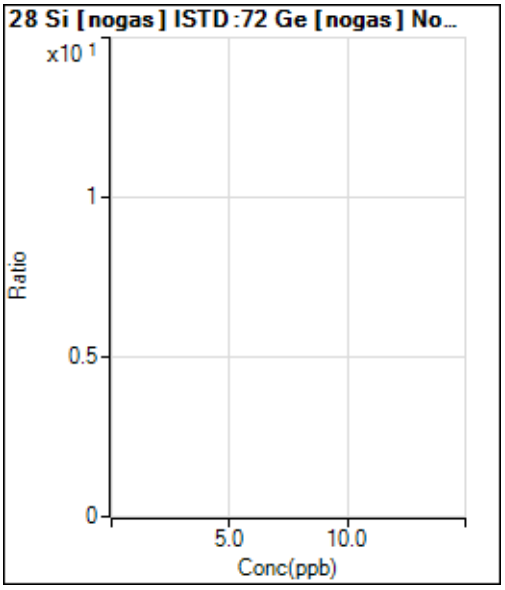
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3413.78	0.0054	P	6.3	
2	☐	2.000	0.896	3933.92	0.0062	P	2.5	-55.2
3	☐	5.000	4.492	6034.62	0.0094	P	5.1	-10.2
4	☐	10.000	8.844	8342.43	0.0133	P	8.3	-11.6
5	☐	100.000	99.576	59769.59	0.0949	P	1.1	-0.4
6	☐	200.000	200.293	116102.52	0.1855	P	1.2	0.1
7	☐	1.000						

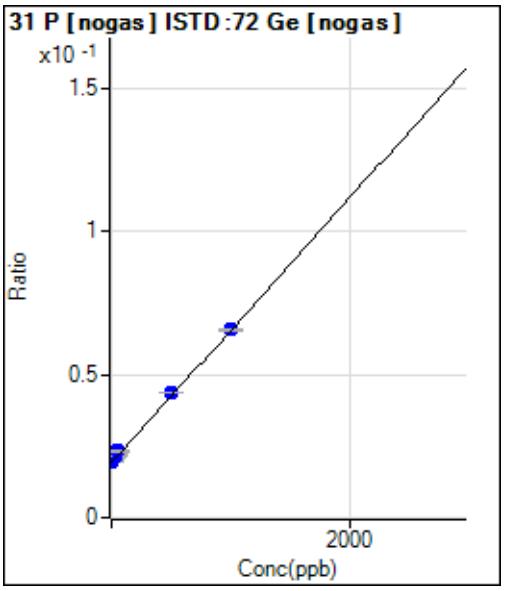
y = 8.9902E-004 * x + 0.0054
R = 1.0000
DL = 1.125 ppb
BEC = 5.997 ppb

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						

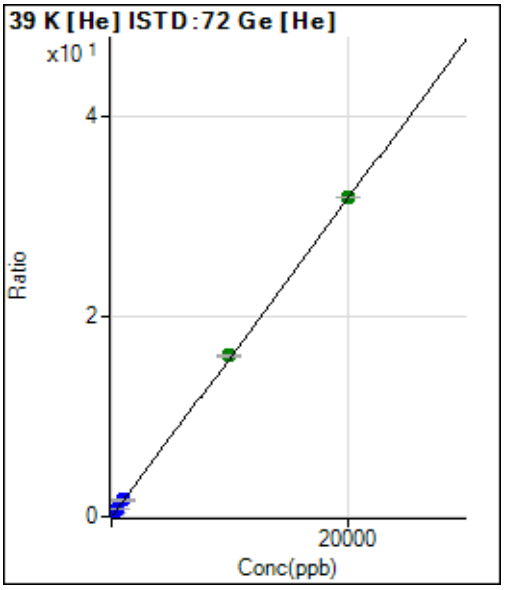
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43959.88	0.0198	P	3.3	
2	☐	10.000	25.879	46470.75	0.0210	P	2.3	158.8
3	☐	25.000	40.144	48279.51	0.0216	P	2.6	60.6
4	☐	50.000	73.597	51536.99	0.0232	P	2.1	47.2
5	☐	500.000	516.412	97501.34	0.0437	P	0.3	3.3
6	☐	1000.000	990.077	144020.78	0.0657	P	0.9	-1.0
7	☐	5.000						

y = 4.6395E-005 * x + 0.0198
R = 0.9997
DL = 42.28 ppb
BEC = 426.4 ppb

Weight: <None>
Min Conc: <None>

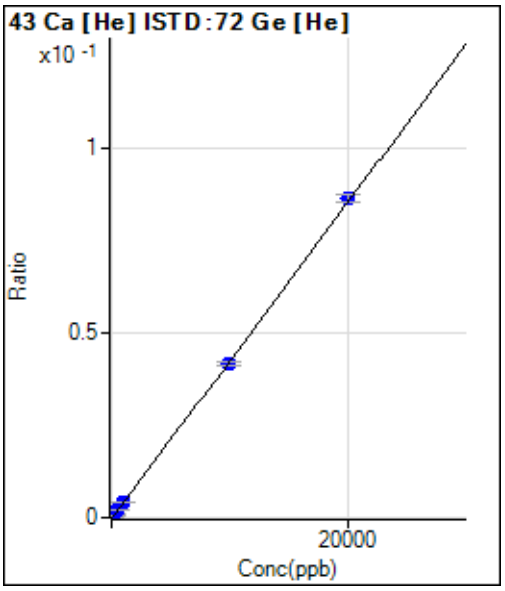


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90182.06	0.1425	P	2.8	
2	☐	200.000	186.688	279195.47	0.4398	P	1.7	-6.7
3	☐	500.000	449.049	549005.36	0.8576	P	1.1	-10.2
4	☐	1000.000	941.607	1027149.65	1.6421	P	1.4	-5.8
5	☐	10000.00	10023.83	10142593.39	16.1064	A	1.4	0.2
6	☐	20000.00	19992.40	20022071.37	31.9822	A	0.3	0.0
7	☐	100.000						

y = 0.0016 * x + 0.1425
R = 1.0000
DL = 7.458 ppb
BEC = 89.45 ppb

Weight: <None>
Min Conc: <None>

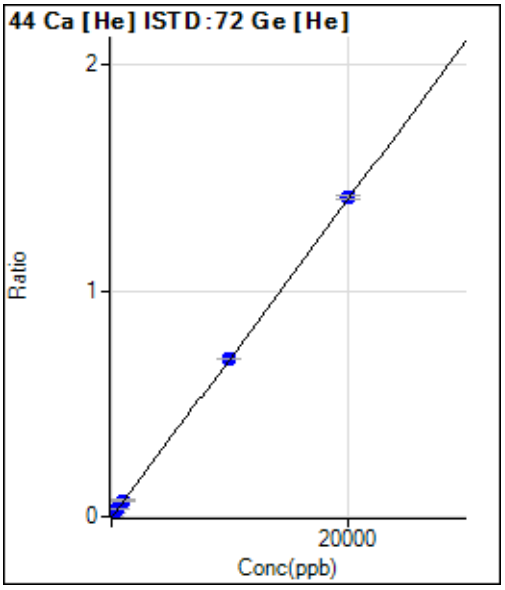
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	18.9	
2	☐	200.000	165.737	513.35	0.0008	P	14.8	-17.1
3	☐	500.000	489.775	1403.43	0.0022	P	10.5	-2.0
4	☐	1000.000	958.196	2623.61	0.0042	P	7.0	-4.2
5	☐	10000.00	9684.733	26132.88	0.0415	P	1.8	-3.2
6	☐	20000.00	20160.32	54009.36	0.0863	P	2.2	0.8
7	☐	100.000						

y = 4.2744E-006 * x + 1.0012E-004
R = 0.9998
DL = 13.28 ppb
BEC = 23.42 ppb

Weight: <None>
Min Conc: <None>

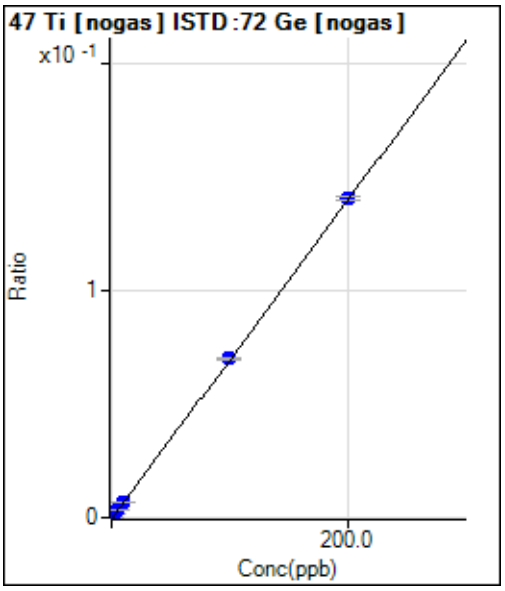


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1750.14	0.0028	P	2.7	
2	☐	200.000	187.805	10146.90	0.0160	P	8.0	-6.1
3	☐	500.000	474.762	23161.26	0.0362	P	2.0	-5.0
4	☐	1000.000	985.162	45090.54	0.0721	P	3.7	-1.5
5	☐	10000.00	9887.492	439950.63	0.6986	P	0.5	-1.1
6	☐	20000.00	20057.74	885442.80	1.4144	P	1.3	0.3
7	☐	100.000						

y = 7.0378E-005 * x + 0.0028
R = 1.0000
DL = 3.203 ppb
BEC = 39.28 ppb

Weight: <None>
Min Conc: <None>

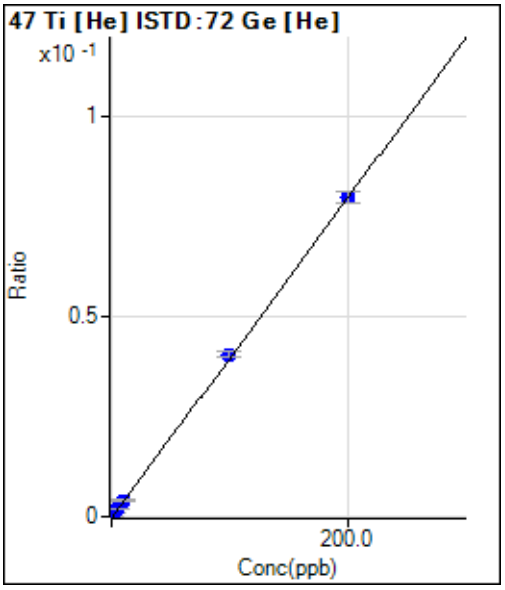
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0001	P	17.6	
2	☐	2.000	1.893	3123.72	0.0014	P	6.2	-5.4
3	☐	5.000	4.539	7285.21	0.0033	P	2.5	-9.2
4	☐	10.000	9.755	15378.09	0.0069	P	2.4	-2.5
5	☐	100.000	99.571	155743.56	0.0699	P	0.5	-0.4
6	☐	200.000	200.239	307753.80	0.1404	P	1.4	0.1
7	☐	1.000						

y = 7.0088E-004 * x + 8.4108E-005
R = 1.0000
DL = 0.06321 ppb
BEC = 0.12 ppb

Weight: <None>
Min Conc: <None>

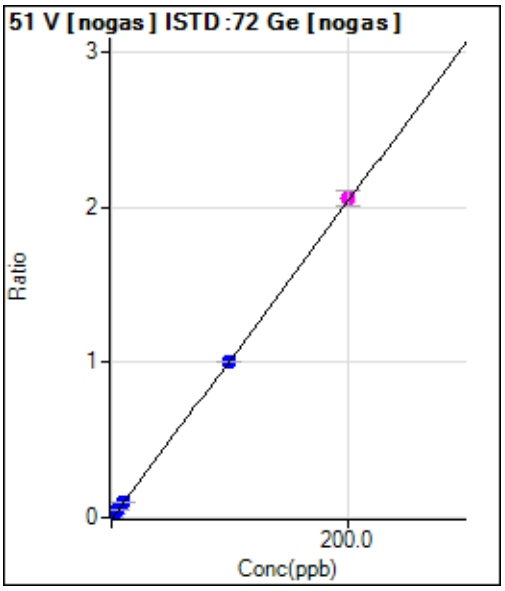


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	88.1	
2	☐	2.000	1.796	486.68	0.0008	P	7.4	-10.2
3	☐	5.000	4.679	1230.07	0.0019	P	5.8	-6.4
4	☐	10.000	9.979	2530.26	0.0040	P	7.6	-0.2
5	☐	100.000	101.335	25588.63	0.0406	P	3.6	1.3
6	☐	200.000	199.344	50006.10	0.0799	P	3.3	-0.3
7	☐	1.000						

y = 4.0048E-004 * x + 4.7276E-005
R = 1.0000
DL = 0.312 ppb
BEC = 0.118 ppb

Weight: <None>
Min Conc: <None>

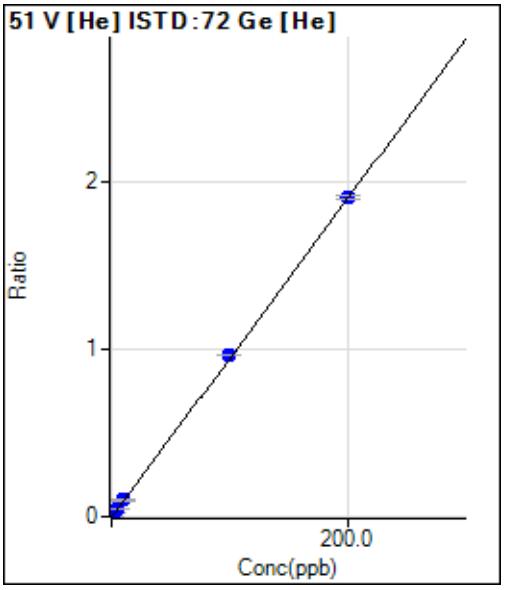
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	371.32	0.0001	P	1656.0	
2	☐	2.000	1.957	44752.45	0.0202	P	4.7	-2.2
3	☐	5.000	4.496	103143.34	0.0462	P	1.8	-10.1
4	☐	10.000	9.423	214913.61	0.0967	P	0.7	-5.8
5	☐	100.000	98.020	2239740.44	1.0048	P	0.5	-2.0
6	☐	200.000	201.032	4516305.63	2.0607	M	4.4	0.5
7	☐	1.000						

y = 0.0102 * x + 1.4946E-004
R = 0.9999
DL = 0.7244 ppb
BEC = 0.01458 ppb

Weight: <None>
Min Conc: <None>

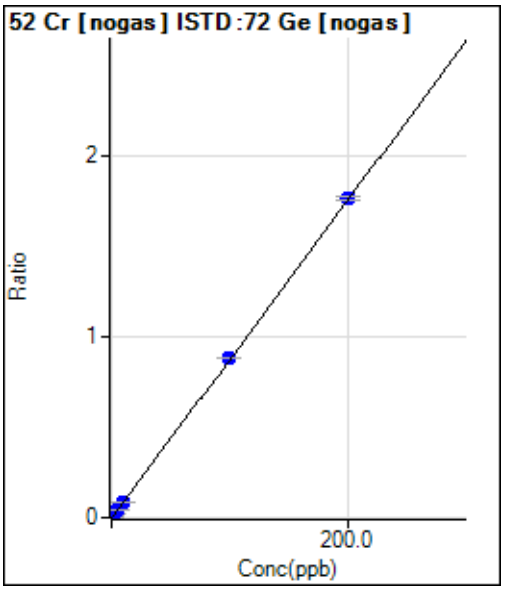


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2235.49	0.0035	P	21.2	
2	☐	2.000	1.950	14082.10	0.0222	P	4.0	-2.5
3	☐	5.000	4.485	29708.13	0.0464	P	5.3	-10.3
4	☐	10.000	9.904	61458.46	0.0983	P	2.2	-1.0
5	☐	100.000	100.641	608366.05	0.9661	P	0.7	0.6
6	☐	200.000	199.698	1197877.45	1.9134	P	0.7	-0.2
7	☐	1.000						

y = 0.0096 * x + 0.0035
R = 1.0000
DL = 0.2354 ppb
BEC = 0.3696 ppb

Weight: <None>
Min Conc: <None>

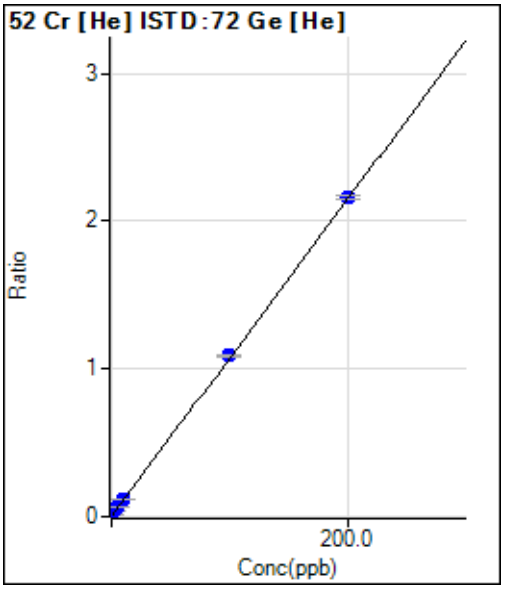
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11798.12	0.0053	P	3.4	
2	☐	2.000	1.937	49528.03	0.0224	P	0.8	-3.2
3	☐	5.000	4.671	103592.94	0.0464	P	0.7	-6.6
4	☐	10.000	9.637	200329.79	0.0902	P	0.6	-3.6
5	☐	100.000	99.656	1967695.60	0.8828	P	0.3	-0.3
6	☐	200.000	200.199	3874711.92	1.7681	P	0.9	0.1
7	☐	1.000						

y = 0.0088 * x + 0.0053
R = 1.0000
DL = 0.0622 ppb
BEC = 0.603 ppb

Weight: <None>
Min Conc: <None>

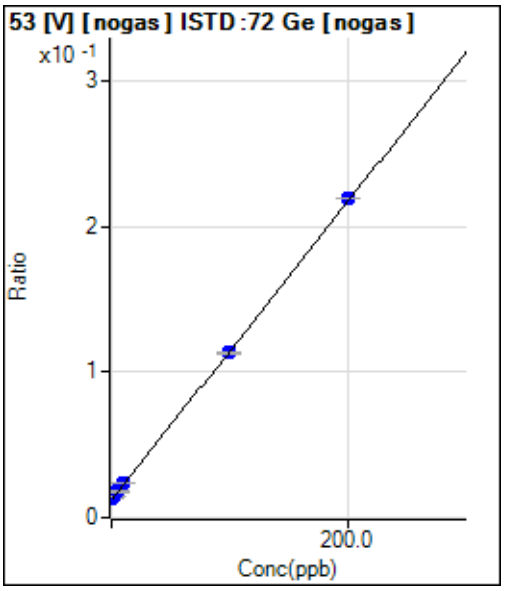


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8809.38	0.0139	P	7.6	
2	☐	2.000	1.809	21171.76	0.0333	P	1.7	-9.5
3	☐	5.000	4.633	40765.31	0.0637	P	0.8	-7.3
4	☐	10.000	9.900	75206.67	0.1202	P	2.3	-1.0
5	☐	100.000	100.017	685177.93	1.0880	P	0.4	0.0
6	☐	200.000	200.008	1353392.74	2.1619	P	0.8	0.0
7	☐	1.000						

y = 0.0107 * x + 0.0139
R = 1.0000
DL = 0.2953 ppb
BEC = 1.296 ppb

Weight: <None>
Min Conc: <None>

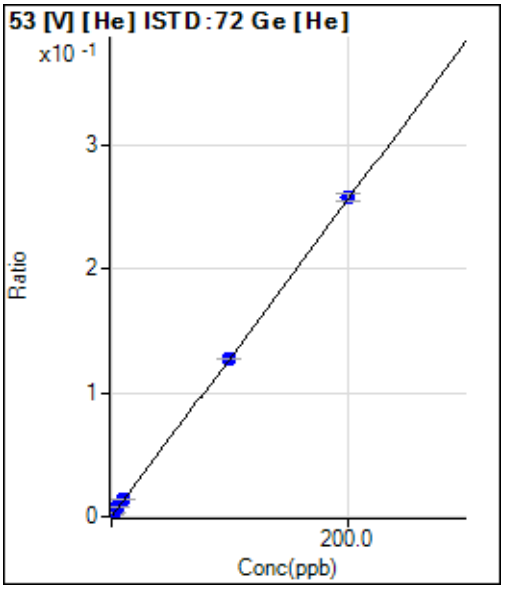
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	29368.84	0.0132	P	4.4	
2	☐	2.000	0.711	30888.48	0.0139	P	0.9	-64.5
3	☐	5.000	4.581	39949.81	0.0179	P	1.8	-8.4
4	☐	10.000	10.427	53086.74	0.0239	P	1.6	4.3
5	☐	100.000	97.579	252128.41	0.1131	P	1.0	-2.4
6	☐	200.000	201.213	480404.25	0.2192	P	0.4	0.6
7	☐	1.000						

y = 0.0010 * x + 0.0132
R = 0.9999
DL = 1.686 ppb
BEC = 12.91 ppb

Weight: <None>
Min Conc: <None>

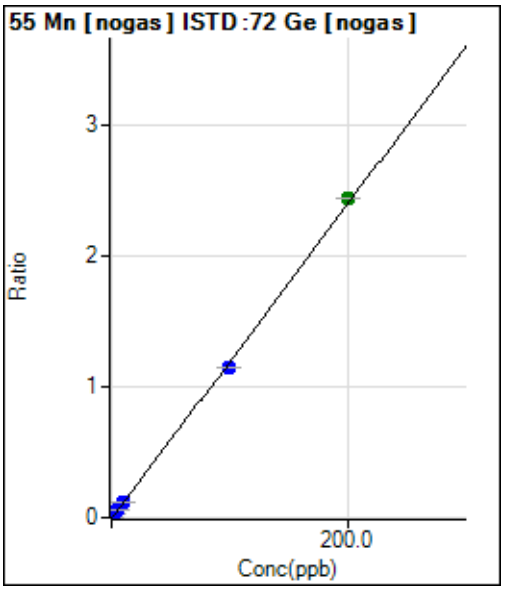


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	880.04	0.0014	P	10.2	
2	☐	2.000	1.736	2293.56	0.0036	P	6.3	-13.2
3	☐	5.000	5.057	5037.60	0.0079	P	3.0	1.1
4	☐	10.000	9.890	8792.71	0.0141	P	2.6	-1.1
5	☐	100.000	98.885	80641.22	0.1281	P	0.3	-1.1
6	☐	200.000	200.564	161699.26	0.2583	P	2.0	0.3
7	☐	1.000						

y = 0.0013 * x + 0.0014
R = 1.0000
DL = 0.3332 ppb
BEC = 1.084 ppb

Weight: <None>
Min Conc: <None>

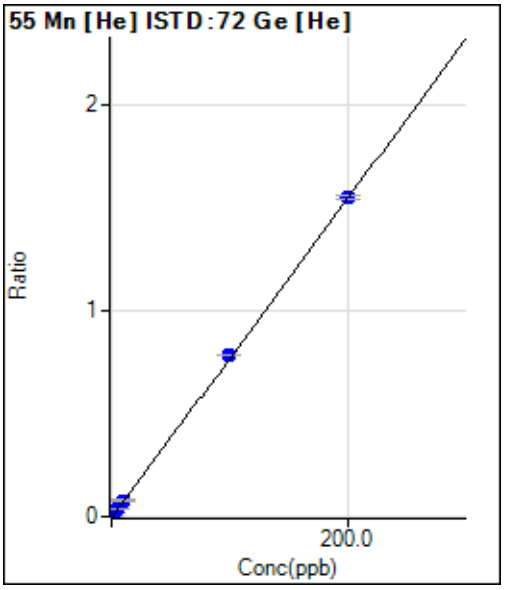
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8459.20	0.0038	P	3.6	
2	☐	2.000	1.878	58533.59	0.0264	P	0.8	-6.1
3	☐	5.000	4.565	131135.80	0.0588	P	0.9	-8.7
4	☐	10.000	9.209	254893.85	0.1147	P	0.7	-7.9
5	☐	100.000	94.961	2557556.84	1.1474	P	0.4	-5.0
6	☐	200.000	202.571	5354649.09	2.4434	A	0.2	1.3
7	☐	1.000						

y = 0.0120 * x + 0.0038
R = 0.9996
DL = 0.03456 ppb
BEC = 0.316 ppb

Weight: <None>
Min Conc: <None>

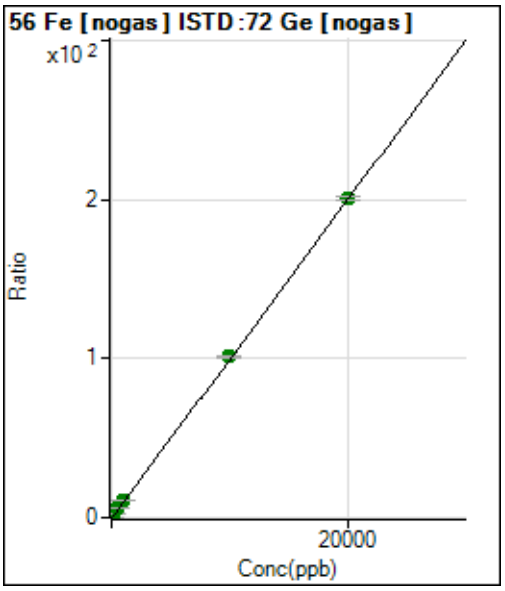


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	680.03	0.0011	P	18.4	
2	☐	2.000	1.956	10340.35	0.0163	P	2.1	-2.2
3	☐	5.000	4.767	24423.49	0.0381	P	0.5	-4.7
4	☐	10.000	10.091	49758.98	0.0796	P	3.0	0.9
5	☐	100.000	100.678	493774.76	0.7841	P	0.2	0.7
6	☐	200.000	199.663	972803.45	1.5539	P	1.0	-0.2
7	☐	1.000						

y = 0.0078 * x + 0.0011
R = 1.0000
DL = 0.07625 ppb
BEC = 0.1383 ppb

Weight: <None>
Min Conc: <None>

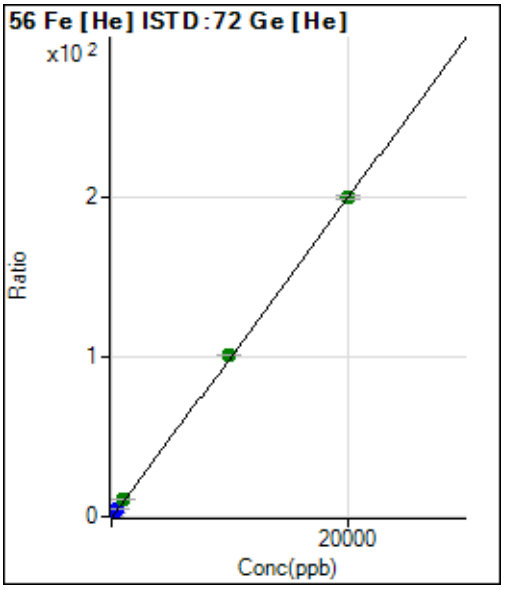
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	931203.74	0.4190	P	1.2	
2	☐	200.000	210.742	5616877.42	2.5362	A	1.1	5.4
3	☐	500.000	506.817	12292400.65	5.5106	A	1.3	1.4
4	☐	1000.000	1014.567	23578243.81	10.6115	A	0.4	1.5
5	☐	10000.00	10038.21	225698983.3	101.263	A	1.6	0.4
6	☐	20000.00	19979.88	440792446.7	201.139	A	0.6	-0.1
7	☐	100.000						

y = 0.0100 * x + 0.4190
R = 1.0000
DL = 1.511 ppb
BEC = 41.71 ppb

Weight: <None>
Min Conc: <None>

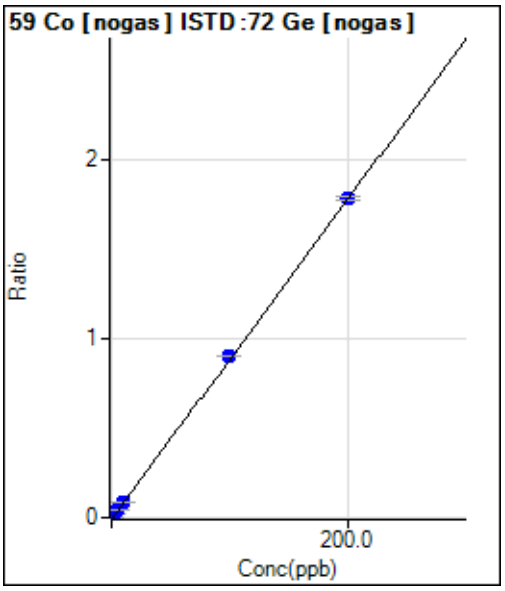


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21115.16	0.0333	P	2.9	
2	☐	200.000	184.403	1194257.56	1.8812	P	0.7	-7.8
3	☐	500.000	446.829	2887498.08	4.5109	P	1.7	-10.6
4	☐	1000.000	1030.893	6482679.90	10.3635	A	1.5	3.1
5	☐	10000.00	10109.87	63819245.72	101.340	A	0.5	1.1
6	☐	20000.00	19945.00	125140251.4	199.894	A	0.8	-0.3
7	☐	100.000						

y = 0.0100 * x + 0.0333
R = 1.0000
DL = 0.2887 ppb
BEC = 3.328 ppb

Weight: <None>
Min Conc: <None>

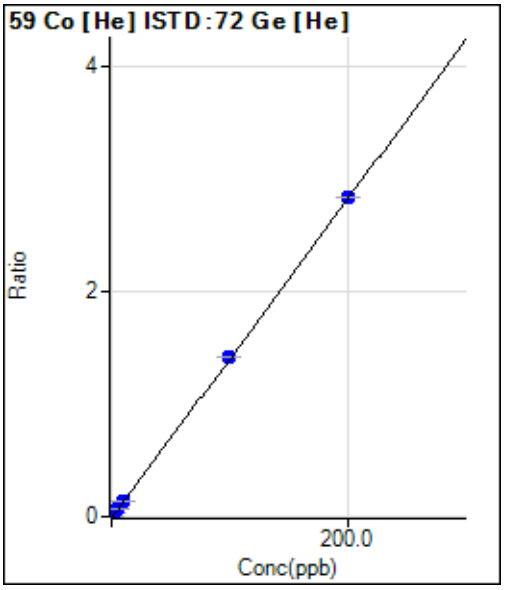
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0001	P	10.5	
2	☐	2.000	2.023	40434.54	0.0183	P	2.0	1.2
3	☐	5.000	4.842	97058.27	0.0435	P	1.6	-3.2
4	☐	10.000	9.886	197109.81	0.0887	P	0.4	-1.1
5	☐	100.000	100.970	2017006.79	0.9049	P	0.4	1.0
6	☐	200.000	199.524	3918487.13	1.7880	P	0.9	-0.2
7	☐	1.000						

y = 0.0090 * x + 1.2743E-004
R = 1.0000
DL = 0.004498 ppb
BEC = 0.01422 ppb

Weight: <None>
Min Conc: <None>

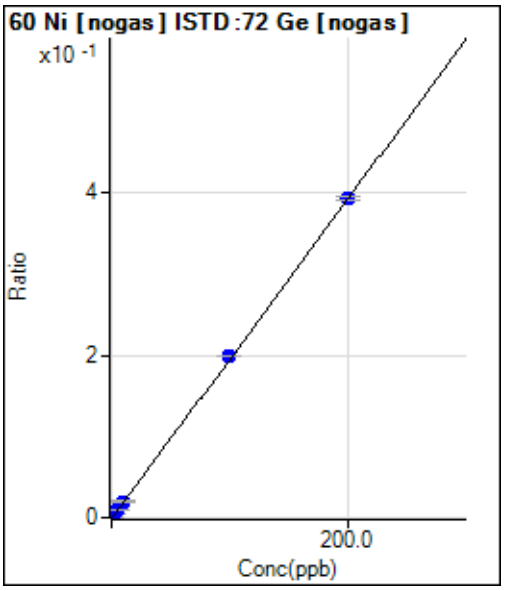


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0001	P	26.7	
2	☐	2.000	1.958	17664.04	0.0278	P	4.1	-2.1
3	☐	5.000	4.788	43463.08	0.0679	P	2.2	-4.2
4	☐	10.000	10.067	89251.14	0.1427	P	2.1	0.7
5	☐	100.000	99.828	890365.38	1.4138	P	0.3	-0.2
6	☐	200.000	200.088	1774013.41	2.8337	P	0.3	0.0
7	☐	1.000						

y = 0.0142 * x + 8.9484E-005
R = 1.0000
DL = 0.005069 ppb
BEC = 0.006319 ppb

Weight: <None>
Min Conc: <None>

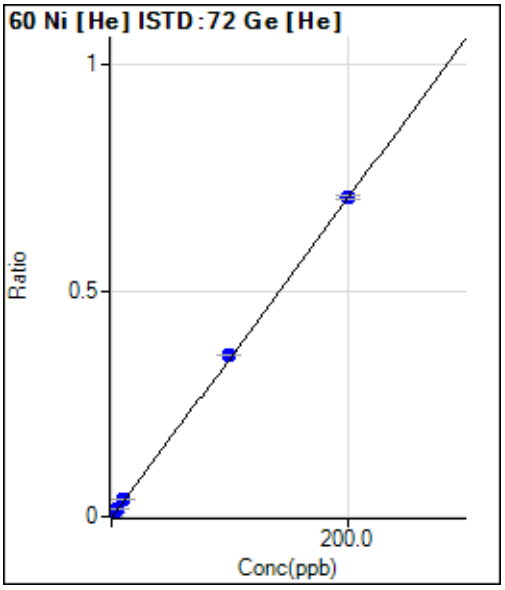
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	890.04	0.0004	P	8.1	
2	☐	2.000	2.045	9823.40	0.0044	P	0.8	2.2
3	☐	5.000	4.859	22283.50	0.0100	P	2.2	-2.8
4	☐	10.000	9.988	44669.90	0.0201	P	2.8	-0.1
5	☐	100.000	101.029	445226.10	0.1997	P	0.3	1.0
6	☐	200.000	199.489	863514.23	0.3940	P	1.6	-0.3
7	☐	1.000						

y = 0.0020 * x + 4.0064E-004
R = 1.0000
DL = 0.04913 ppb
BEC = 0.203 ppb

Weight: <None>
Min Conc: <None>

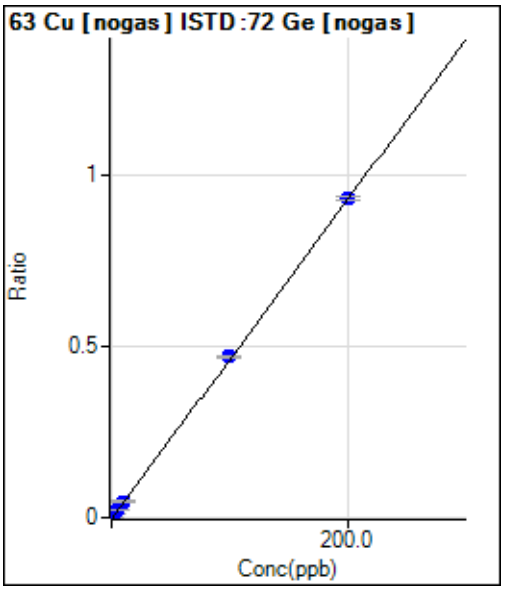


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0005	P	8.0	
2	☐	2.000	1.933	4640.79	0.0073	P	3.0	-3.4
3	☐	5.000	4.840	11261.09	0.0176	P	3.0	-3.2
4	☐	10.000	10.436	23395.17	0.0374	P	4.5	4.4
5	☐	100.000	100.717	224670.02	0.3568	P	0.3	0.7
6	☐	200.000	199.624	442392.97	0.7066	P	0.9	-0.2
7	☐	1.000						

y = 0.0035 * x + 4.7362E-004
R = 1.0000
DL = 0.03218 ppb
BEC = 0.1339 ppb

Weight: <None>
Min Conc: <None>

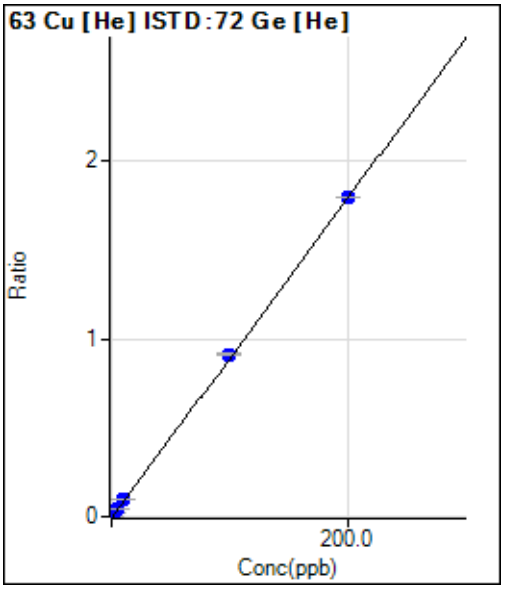
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1503.44	0.0007	P	12.6	
2	☐	2.000	2.065	22877.75	0.0103	P	0.9	3.3
3	☐	5.000	4.842	51990.43	0.0233	P	2.5	-3.2
4	☐	10.000	10.060	105972.35	0.0477	P	1.1	0.6
5	☐	100.000	100.657	1050207.43	0.4712	P	1.7	0.7
6	☐	200.000	199.672	2046788.46	0.9340	P	1.1	-0.2
7	☐	1.000						

y = 0.0047 * x + 6.7584E-004
R = 1.0000
DL = 0.05486 ppb
BEC = 0.1446 ppb

Weight: <None>
Min Conc: <None>

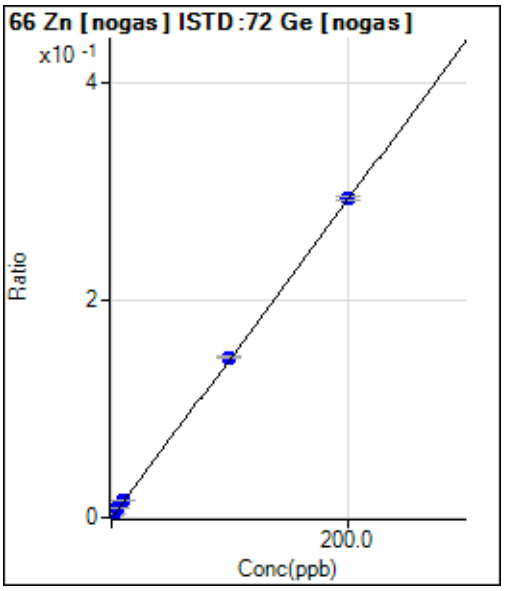


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	620.02	0.0010	P	1.9	
2	☐	2.000	2.007	12081.68	0.0190	P	3.1	0.3
3	☐	5.000	4.937	29061.76	0.0454	P	1.8	-1.3
4	☐	10.000	10.320	58694.59	0.0938	P	0.9	3.2
5	☐	100.000	101.013	572925.49	0.9098	P	1.2	1.0
6	☐	200.000	199.479	1124138.19	1.7956	P	0.2	-0.3
7	☐	1.000						

y = 0.0090 * x + 9.7914E-004
R = 1.0000
DL = 0.00615 ppb
BEC = 0.1088 ppb

Weight: <None>
Min Conc: <None>

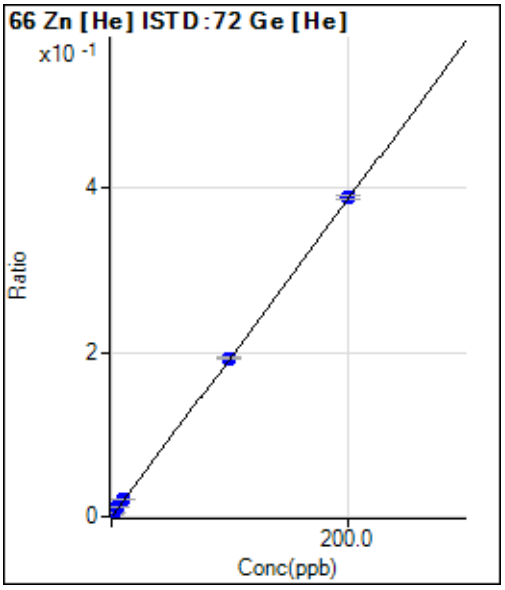
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2493.59	0.0011	P	3.9	
2	☐	2.000	2.001	8966.16	0.0040	P	4.8	0.1
3	☐	5.000	5.206	19479.55	0.0087	P	2.0	4.1
4	☐	10.000	10.093	35278.47	0.0159	P	2.7	0.9
5	☐	100.000	99.941	328175.84	0.1472	P	1.6	-0.1
6	☐	200.000	200.019	643294.56	0.2935	P	0.7	0.0
7	☐	1.000						

y = 0.0015 * x + 0.0011
R = 1.0000
DL = 0.09061 ppb
BEC = 0.7673 ppb

Weight: <None>
Min Conc: <None>

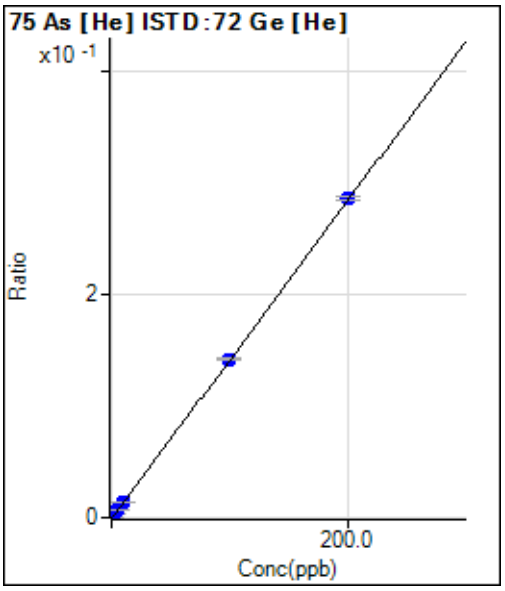


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	983.38	0.0016	P	5.2	
2	☐	2.000	1.987	3423.77	0.0054	P	1.0	-0.6
3	☐	5.000	5.058	7251.88	0.0113	P	4.8	1.2
4	☐	10.000	10.203	13302.80	0.0213	P	2.9	2.0
5	☐	100.000	99.093	121553.67	0.1930	P	0.9	-0.9
6	☐	200.000	200.442	243426.44	0.3888	P	0.7	0.2
7	☐	1.000						

y = 0.0019 * x + 0.0016
R = 1.0000
DL = 0.1266 ppb
BEC = 0.8041 ppb

Weight: <None>
Min Conc: <None>

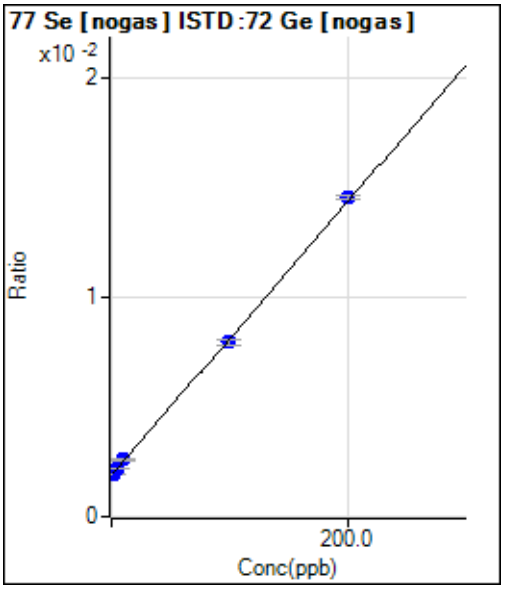
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	174.45	0.0003	P	10.0	
2	☐	2.000	1.969	1959.03	0.0031	P	7.1	-1.5
3	☐	5.000	4.793	4556.28	0.0071	P	1.7	-4.1
4	☐	10.000	9.733	8862.69	0.0142	P	3.5	-2.7
5	☐	100.000	99.084	89227.64	0.1417	P	1.4	-0.9
6	☐	200.000	200.477	179290.51	0.2864	P	1.2	0.2
7	☐	1.000						

y = 0.0014 * x + 2.7542E-004
R = 1.0000
DL = 0.05771 ppb
BEC = 0.193 ppb

Weight: <None>
Min Conc: <None>

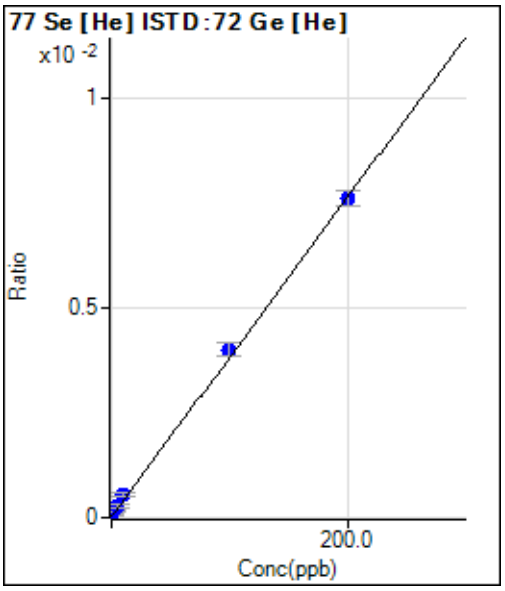


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4390.72	0.0020	P	7.6	
2	☐	2.000	-0.512	4307.39	0.0019	P	1.2	-125.
3	☐	5.000	3.226	4857.54	0.0022	P	1.0	-35.5
4	☐	10.000	10.079	5784.57	0.0026	P	4.2	0.8
5	☐	100.000	95.938	17700.78	0.0079	P	3.5	-4.1
6	☐	200.000	202.097	31871.23	0.0145	P	1.1	1.0
7	☐	1.000						

y = 6.2182E-005 * x + 0.0020
R = 0.9997
DL = 7.232 ppb
BEC = 31.79 ppb

Weight: <None>
Min Conc: <None>

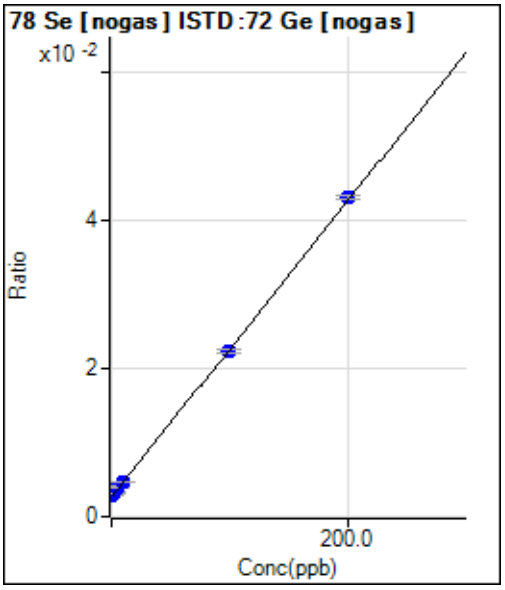
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	41.2	
2	☐	2.000	3.032	110.00	0.0002	P	31.5	51.6
3	☐	5.000	5.724	176.67	0.0003	P	26.2	14.5
4	☐	10.000	12.624	336.68	0.0005	P	12.6	26.2
5	☐	100.000	103.562	2520.28	0.0040	P	7.3	3.6
6	☐	200.000	198.060	4757.52	0.0076	P	4.4	-1.0
7	☐	1.000						

y = 3.8080E-005 * x + 5.7786E-005
R = 0.9998
DL = 1.875 ppb
BEC = 1.517 ppb

Weight: <None>
Min Conc: <None>

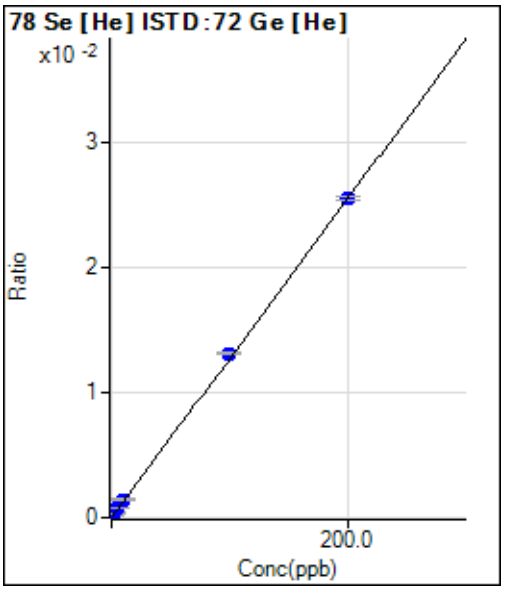


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6444.87	0.0029	P	4.1	
2	☐	2.000	1.505	7088.48	0.0032	P	3.5	-24.7
3	☐	5.000	5.139	8759.43	0.0039	P	6.0	2.8
4	☐	10.000	9.166	10513.90	0.0047	P	2.4	-8.3
5	☐	100.000	97.426	49867.40	0.0224	P	2.2	-2.6
6	☐	200.000	201.330	94540.12	0.0431	P	1.3	0.7
7	☐	1.000						

y = 1.9987E-004 * x + 0.0029
R = 0.9999
DL = 1.779 ppb
BEC = 14.51 ppb

Weight: <None>
Min Conc: <None>

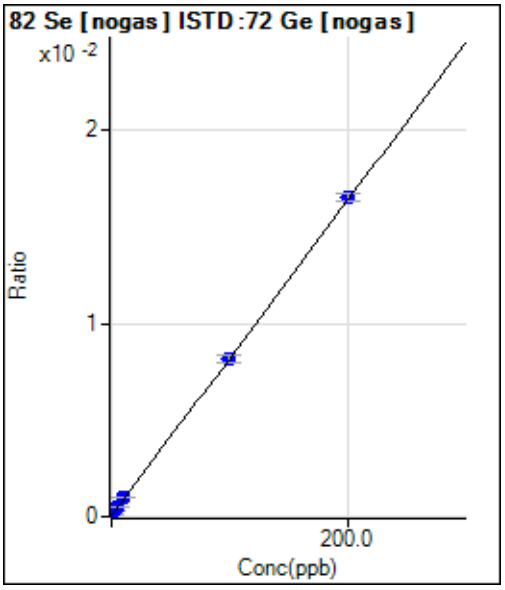
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.00	0.0001	P	10.0	
2	☐	2.000	1.999	238.00	0.0004	P	10.7	-0.1
3	☐	5.000	5.155	497.34	0.0008	P	6.1	3.1
4	☐	10.000	10.280	895.36	0.0014	P	5.5	2.8
5	☐	100.000	101.665	8237.63	0.0131	P	1.4	1.7
6	☐	200.000	199.150	15969.91	0.0255	P	0.8	-0.4
7	☐	1.000						

y = 1.2749E-004 * x + 1.2008E-004
R = 1.0000
DL = 0.2831 ppb
BEC = 0.9419 ppb

Weight: <None>
Min Conc: <None>

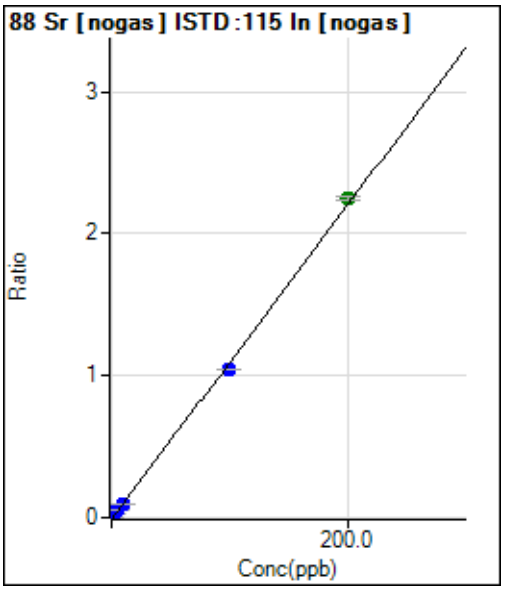


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.01	0.0001	P	14.2	
2	☐	2.000	2.313	716.70	0.0003	P	7.1	15.6
3	☐	5.000	4.443	1110.07	0.0005	P	3.4	-11.1
4	☐	10.000	10.332	2173.54	0.0010	P	6.0	3.3
5	☐	100.000	98.454	18211.43	0.0082	P	4.3	-1.5
6	☐	200.000	200.767	36211.28	0.0165	P	2.7	0.4
7	☐	1.000						

y = 8.1627E-005 * x + 1.3485E-004
R = 0.9999
DL = 0.7031 ppb
BEC = 1.652 ppb

Weight: <None>
Min Conc: <None>

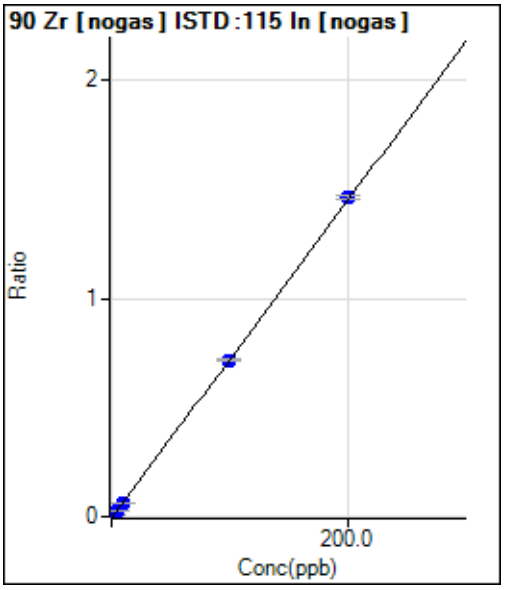
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1680.13	0.0007	P	6.8	
2	☐	2.000	1.844	52182.56	0.0211	P	0.8	-7.8
3	☐	5.000	4.404	123584.92	0.0495	P	1.0	-11.9
4	☐	10.000	9.038	250970.03	0.1008	P	1.1	-9.6
5	☐	100.000	93.986	2582309.70	1.0420	P	0.4	-6.0
6	☐	200.000	203.071	5438029.92	2.2507	A	1.8	1.5
7	☐	1.000						

y = 0.0111 * x + 6.7558E-004
R = 0.9994
DL = 0.0124 ppb
BEC = 0.06097 ppb

Weight: <None>
Min Conc: <None>

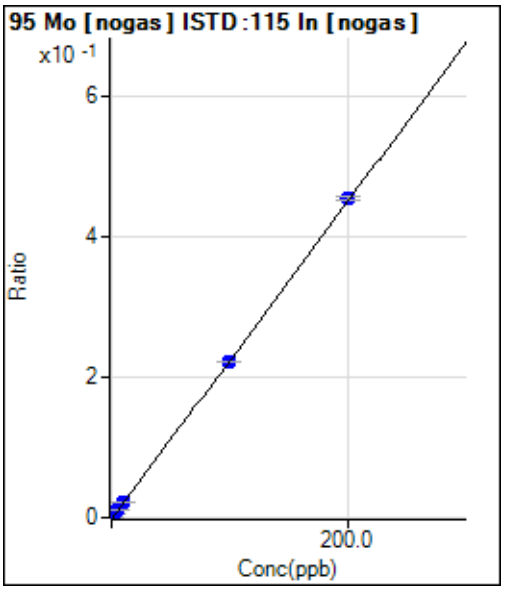


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1213.41	0.0005	P	9.2	
2	☐	2.000	1.375	25949.85	0.0105	P	3.3	-31.3
3	☐	5.000	3.907	72267.48	0.0289	P	1.3	-21.9
4	☐	10.000	8.811	160915.75	0.0646	P	2.6	-11.9
5	☐	100.000	98.419	1776879.03	0.7170	P	0.7	-1.6
6	☐	200.000	200.883	3535339.11	1.4630	P	0.7	0.4
7	☐	1.000						

y = 0.0073 * x + 4.8773E-004
R = 1.0000
DL = 0.01849 ppb
BEC = 0.06699 ppb

Weight: <None>
Min Conc: <None>

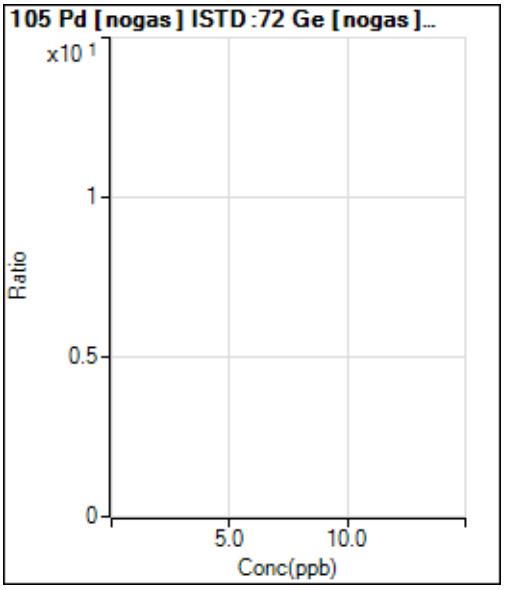
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.68	0.0001	P	5.9	
2	☐	2.000	1.891	10827.51	0.0044	P	3.5	-5.5
3	☐	5.000	4.613	26347.39	0.0105	P	1.8	-7.7
4	☐	10.000	9.388	53180.06	0.0214	P	1.5	-6.1
5	☐	100.000	98.025	550458.44	0.2221	P	0.8	-2.0
6	☐	200.000	201.029	1100549.59	0.4554	P	1.5	0.5
7	☐	1.000						

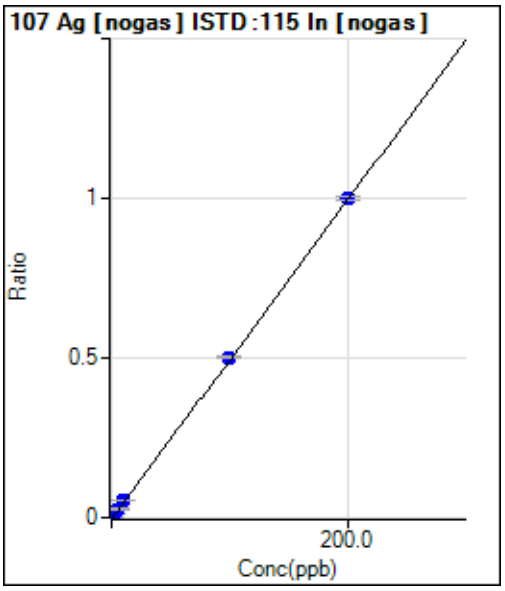
y = 0.0023 * x + 9.9160E-005
R = 0.9999
DL = 0.007706 ppb
BEC = 0.04378 ppb

Weight: <None>
Min Conc: <None>



	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						

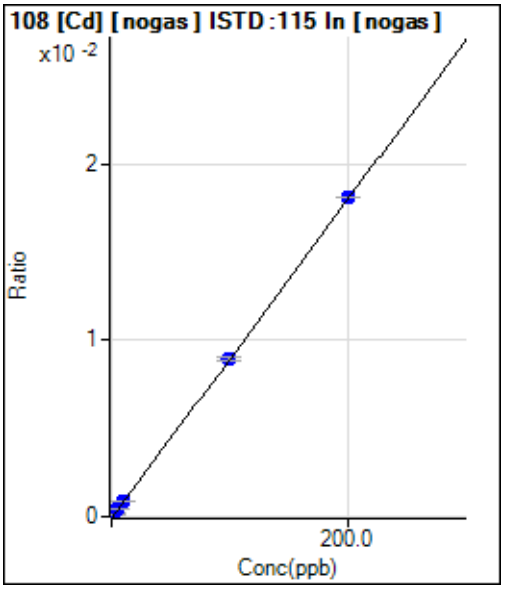
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.33	0.0000	P	33.6	
2	☐	2.000	2.247	27897.08	0.0113	P	0.4	12.3
3	☐	5.000	5.391	67503.10	0.0270	P	1.1	7.8
4	☐	10.000	11.052	137794.48	0.0554	P	1.3	10.5
5	☐	100.000	100.049	1241108.58	0.5008	P	1.1	0.0
6	☐	200.000	199.911	2417802.31	1.0006	P	1.6	0.0
7	☐	1.000						

y = 0.0050 * x + 4.1506E-005
R = 1.0000
DL = 0.008348 ppb
BEC = 0.008293 ppb

Weight: <None>
Min Conc: <None>

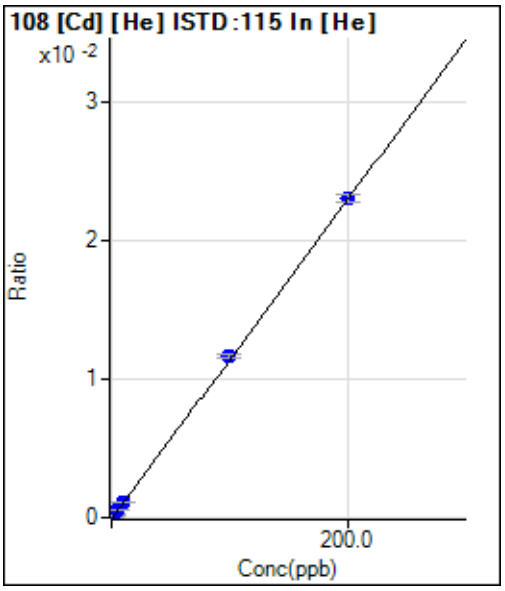


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	1.905	426.68	0.0002	P	18.8	-4.8
3	☐	5.000	4.750	1073.39	0.0004	P	7.4	-5.0
4	☐	10.000	9.885	2226.88	0.0009	P	6.5	-1.2
5	☐	100.000	99.291	22263.97	0.0090	P	2.7	-0.7
6	☐	200.000	200.368	43809.72	0.0181	P	0.6	0.2
7	☐	1.000						

y = 9.0480E-005 * x + 0.0000E+000
R = 1.0000
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

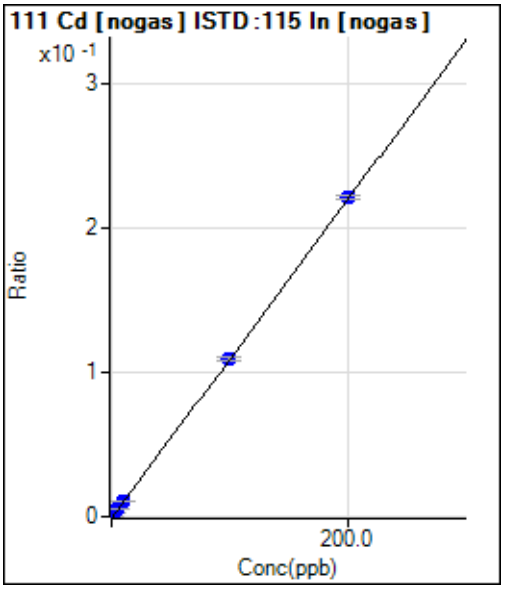
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.894	200.01	0.0002	P	34.7	-5.3
3	☐	5.000	4.717	490.02	0.0005	P	16.5	-5.7
4	☐	10.000	9.829	1006.72	0.0011	P	4.3	-1.7
5	☐	100.000	100.592	10203.73	0.0116	P	2.6	0.6
6	☐	200.000	199.721	19917.23	0.0231	P	2.8	-0.1
7	☐	1.000						

y = 1.1541E-004 * x + 3.7167E-006
R = 1.0000
DL = 0.1673 ppb
BEC = 0.0322 ppb

Weight: <None>
Min Conc: <None>

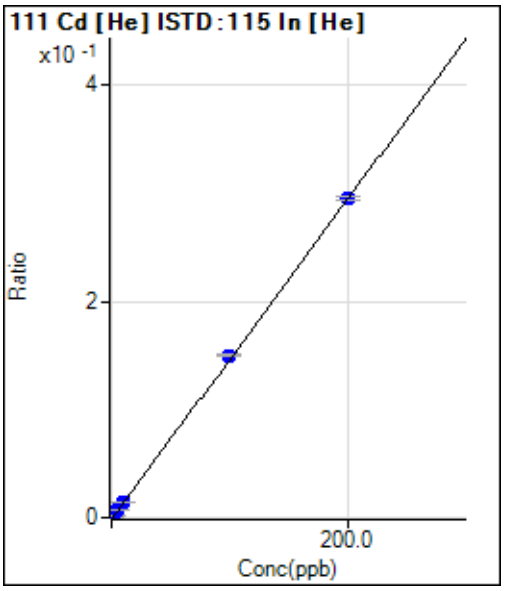


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.984	5423.47	0.0022	P	2.6	-0.8
3	☐	5.000	4.626	12775.13	0.0051	P	6.2	-7.5
4	☐	10.000	9.596	26399.63	0.0106	P	1.6	-4.0
5	☐	100.000	99.281	271909.56	0.1097	P	1.8	-0.7
6	☐	200.000	200.389	535223.69	0.2215	P	1.3	0.2
7	☐	1.000						

y = 0.0011 * x + 1.3438E-006
R = 1.0000
DL = 0.006318 ppb
BEC = 0.001216 ppb

Weight: <None>
Min Conc: <None>

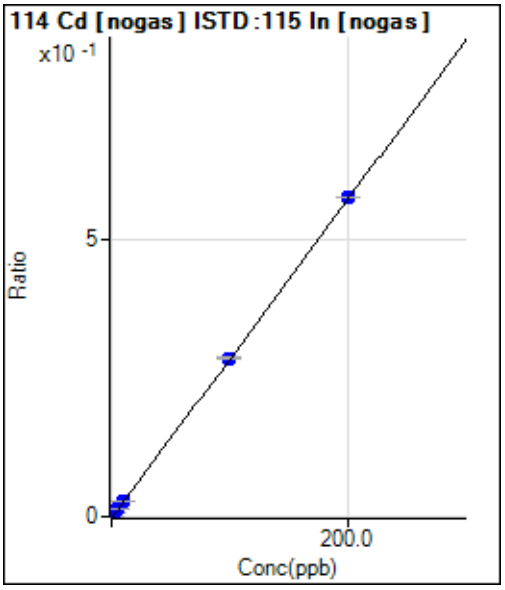
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-3.58	0.0000	P	-173.2	
2	☐	2.000	1.757	2335.67	0.0026	P	0.9	-12.2
3	☐	5.000	4.791	6345.93	0.0071	P	1.5	-4.2
4	☐	10.000	10.008	13116.98	0.0148	P	3.0	0.1
5	☐	100.000	101.132	131663.40	0.1499	P	0.8	1.1
6	☐	200.000	199.441	255317.82	0.2955	P	0.8	-0.3
7	☐	1.000						

y = 0.0015 * x - 3.9880E-006
R = 1.0000
DL = 0.01398 ppb
BEC = -0.002691 ppb

Weight: <None>
Min Conc: <None>

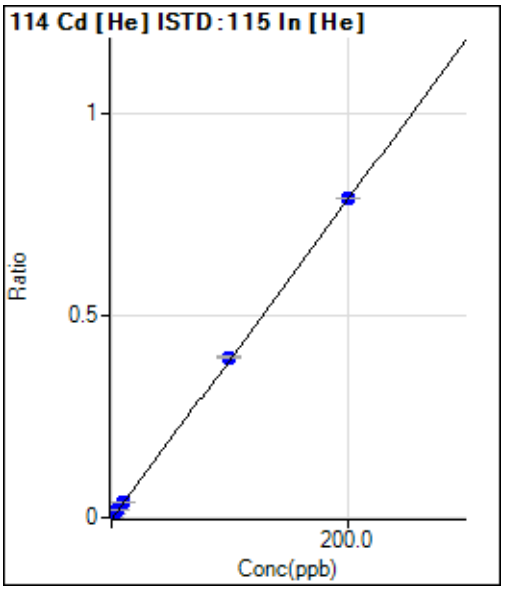


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	11.1	
2	☐	2.000	2.035	14547.58	0.0059	P	4.9	1.8
3	☐	5.000	4.615	33275.30	0.0133	P	0.6	-7.7
4	☐	10.000	9.751	70006.02	0.0281	P	0.5	-2.5
5	☐	100.000	99.278	709127.20	0.2861	P	1.2	-0.7
6	☐	200.000	200.383	1395668.57	0.5775	P	0.4	0.2
7	☐	1.000						

y = 0.0029 * x + 2.1446E-005
R = 1.0000
DL = 0.002475 ppb
BEC = 0.007441 ppb

Weight: <None>
Min Conc: <None>

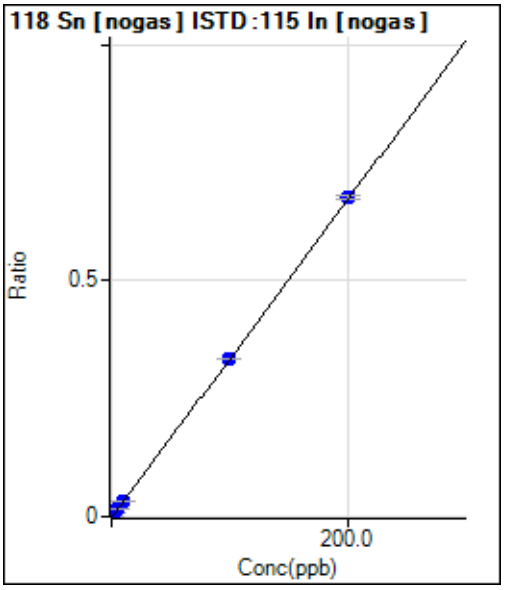
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	88.9	
2	☐	2.000	1.992	7091.88	0.0079	P	2.9	-0.4
3	☐	5.000	4.585	16212.64	0.0181	P	1.5	-8.3
4	☐	10.000	9.735	34023.76	0.0385	P	3.0	-2.7
5	☐	100.000	100.293	347967.26	0.3960	P	0.6	0.3
6	☐	200.000	199.877	681849.00	0.7892	P	0.1	-0.1
7	☐	1.000						

y = 0.0039 * x + 2.6237E-005
R = 1.0000
DL = 0.01772 ppb
BEC = 0.006645 ppb

Weight: <None>
Min Conc: <None>

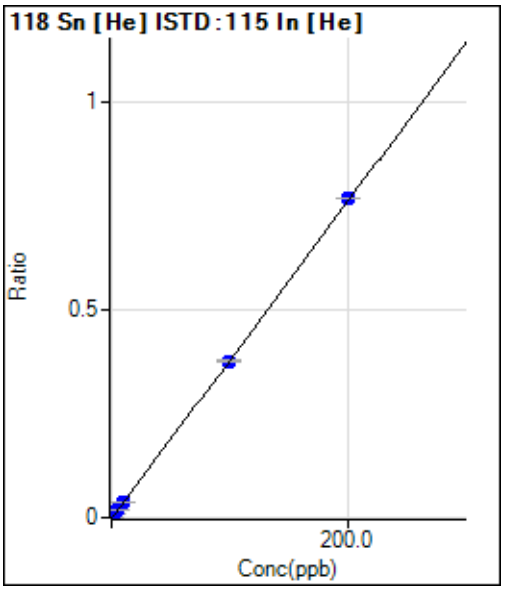


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2473.59	0.0010	P	3.4	
2	☐	2.000	1.898	18275.15	0.0074	P	1.1	-5.1
3	☐	5.000	4.635	41533.49	0.0166	P	2.1	-7.3
4	☐	10.000	9.468	81965.50	0.0329	P	2.5	-5.3
5	☐	100.000	99.064	830398.84	0.3351	P	0.7	-0.9
6	☐	200.000	200.505	1636254.30	0.6772	P	1.5	0.3
7	☐	1.000						

y = 0.0034 * x + 9.9443E-004
R = 1.0000
DL = 0.0304 ppb
BEC = 0.2949 ppb

Weight: <None>
Min Conc: <None>

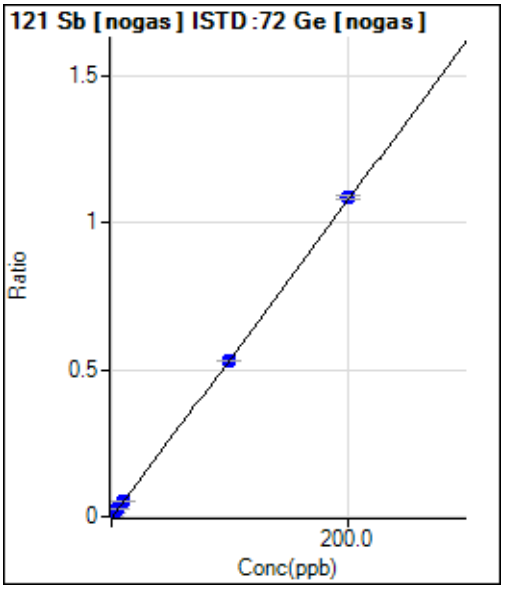
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1070.06	0.0012	P	17.3	
2	☐	2.000	1.767	7155.23	0.0080	P	2.0	-11.6
3	☐	5.000	4.540	16593.16	0.0186	P	3.0	-9.2
4	☐	10.000	9.389	32804.34	0.0371	P	2.3	-6.1
5	☐	100.000	98.148	330509.14	0.3761	P	1.0	-1.9
6	☐	200.000	200.970	664315.88	0.7689	P	0.3	0.5
7	☐	1.000						

y = 0.0038 * x + 0.0012
R = 0.9999
DL = 0.1648 ppb
BEC = 0.3172 ppb

Weight: <None>
Min Conc: <None>

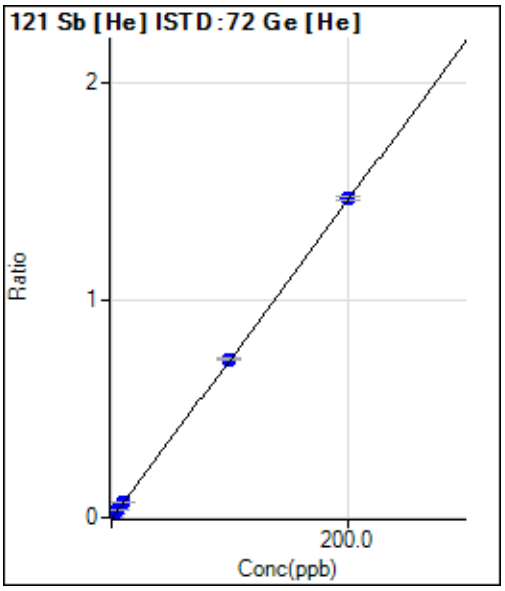


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1003.39	0.0005	P	14.5	
2	☐	2.000	1.891	23643.03	0.0107	P	3.5	-5.5
3	☐	5.000	4.585	56316.94	0.0252	P	0.3	-8.3
4	☐	10.000	9.468	114770.29	0.0517	P	0.8	-5.3
5	☐	100.000	98.013	1182461.91	0.5305	P	0.4	-2.0
6	☐	200.000	201.032	2383498.56	1.0876	P	1.2	0.5
7	☐	1.000						

y = 0.0054 * x + 4.5165E-004
R = 0.9999
DL = 0.03641 ppb
BEC = 0.08352 ppb

Weight: <None>
Min Conc: <None>

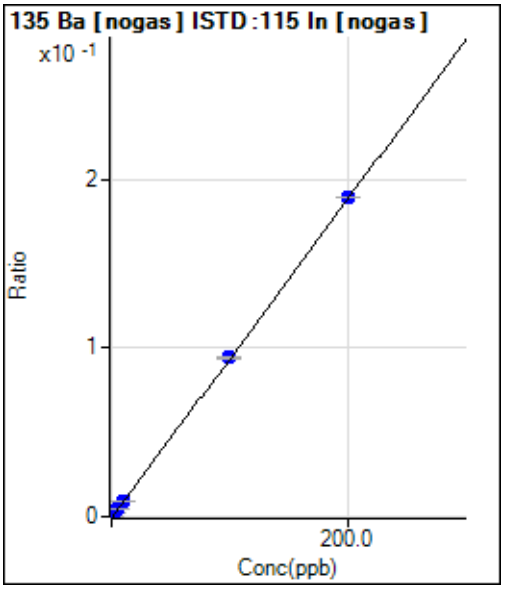
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	463.35	0.0007	P	27.4	
2	☐	2.000	1.925	9413.21	0.0148	P	0.6	-3.8
3	☐	5.000	4.496	21546.37	0.0337	P	0.8	-10.1
4	☐	10.000	9.585	44355.11	0.0709	P	2.7	-4.2
5	☐	100.000	99.357	458594.40	0.7282	P	1.5	-0.6
6	☐	200.000	200.356	918873.58	1.4678	P	0.8	0.2
7	☐	1.000						

y = 0.0073 * x + 7.3241E-004
R = 1.0000
DL = 0.08227 ppb
BEC = 0.1 ppb

Weight: <None>
Min Conc: <None>

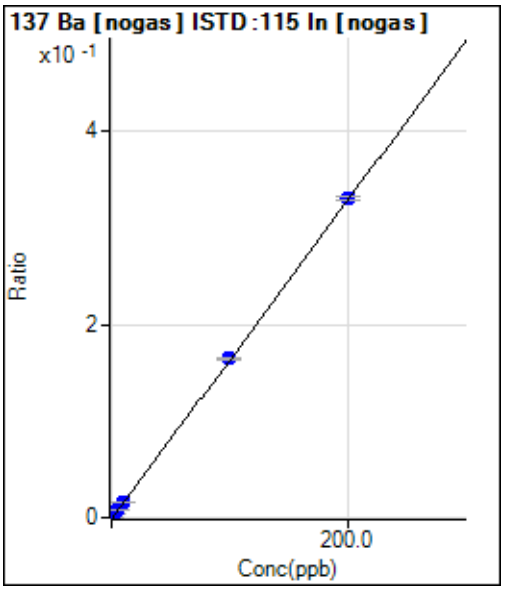


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0001	P	11.2	
2	☐	2.000	1.925	4784.24	0.0019	P	3.8	-3.7
3	☐	5.000	4.626	11221.25	0.0045	P	5.1	-7.5
4	☐	10.000	9.583	22862.00	0.0092	P	1.7	-4.2
5	☐	100.000	99.728	234180.56	0.0945	P	0.8	-0.3
6	☐	200.000	200.167	458059.88	0.1896	P	0.3	0.1
7	☐	1.000						

y = 9.4640E-004 * x + 1.1395E-004
R = 1.0000
DL = 0.04042 ppb
BEC = 0.1204 ppb

Weight: <None>
Min Conc: <None>

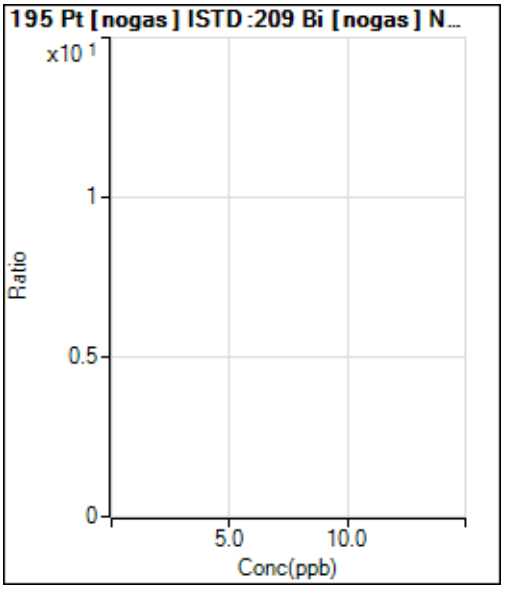
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0002	P	12.5	
2	☐	2.000	2.044	8759.53	0.0035	P	4.4	2.2
3	☐	5.000	4.710	19844.13	0.0079	P	1.4	-5.8
4	☐	10.000	9.558	39695.72	0.0159	P	2.9	-4.4
5	☐	100.000	99.559	407610.66	0.1645	P	1.8	-0.4
6	☐	200.000	200.250	799042.54	0.3306	P	0.9	0.1
7	☐	1.000						

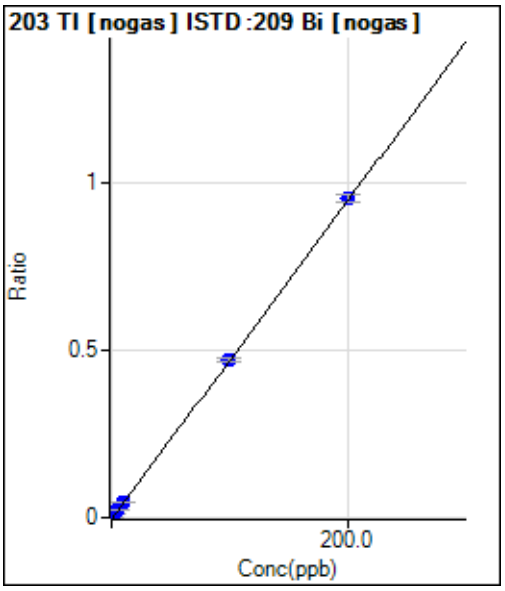
y = 0.0017 * x + 1.7149E-004
R = 1.0000
DL = 0.03906 ppb
BEC = 0.1039 ppb

Weight: <None>
Min Conc: <None>



	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						

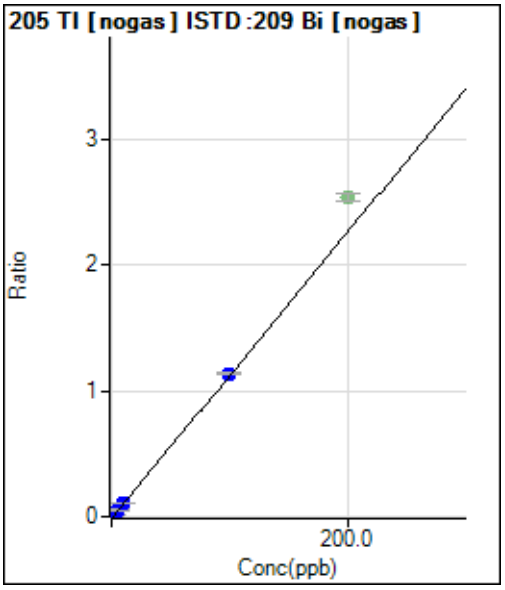
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0000	P	27.4	
2	☐	2.000	1.920	21206.71	0.0092	P	1.2	-4.0
3	☐	5.000	4.591	51035.50	0.0219	P	3.4	-8.2
4	☐	10.000	9.532	106233.69	0.0454	P	1.9	-4.7
5	☐	100.000	98.965	1091693.29	0.4706	P	1.6	-1.0
6	☐	200.000	200.552	2144746.27	0.9537	P	2.5	0.3
7	☐	1.000						

y = 0.0048 * x + 4.0501E-005
R = 1.0000
DL = 0.006994 ppb
BEC = 0.008518 ppb

Weight: <None>
Min Conc: <None>

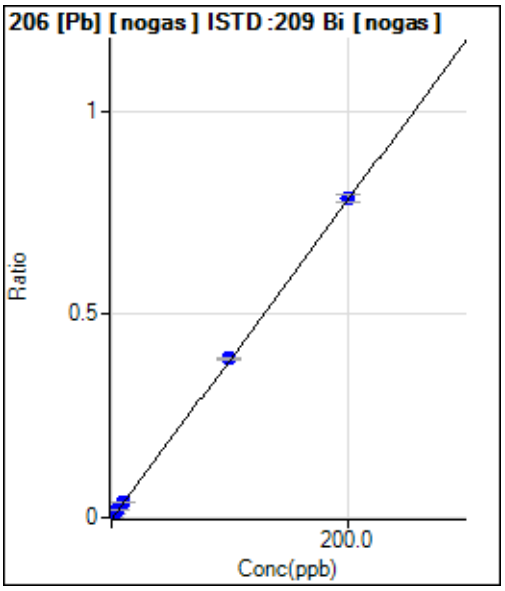


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	163.34	0.0001	P	49.6	
2	☐	2.000	1.926	50881.91	0.0220	P	4.8	-3.7
3	☐	5.000	4.678	124578.33	0.0534	P	3.4	-6.4
4	☐	10.000	9.569	255543.50	0.1091	P	3.2	-4.3
5	☐	100.000	100.061	2645703.71	1.1406	P	2.0	0.1
6	☑	200.000		5719008.87	2.5429	A	2.3	
7	☐	1.000						

y = 0.0114 * x + 7.0500E-005
R = 1.0000
DL = 0.009204 ppb
BEC = 0.006185 ppb

Weight: <None>
Min Conc: <None>

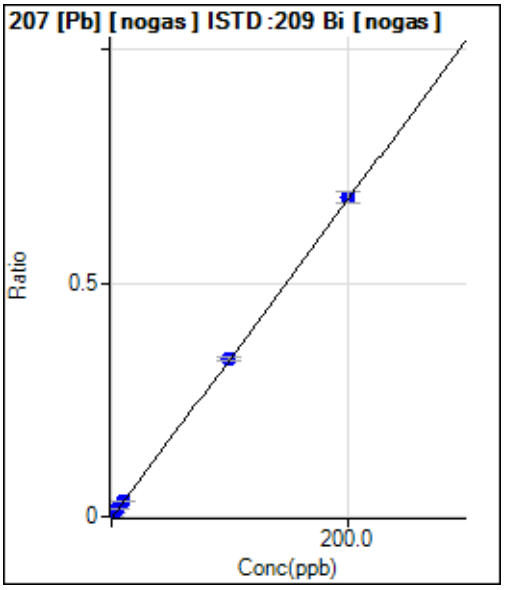
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0001	P	7.9	
2	☐	2.000	1.921	17688.45	0.0076	P	2.6	-3.9
3	☐	5.000	4.740	43670.18	0.0187	P	4.4	-5.2
4	☐	10.000	9.734	89754.29	0.0383	P	1.2	-2.7
5	☐	100.000	99.660	907964.13	0.3914	P	1.5	-0.3
6	☐	200.000	200.191	1768067.68	0.7862	P	2.7	0.1
7	☐	1.000						

y = 0.0039 * x + 1.0545E-004
R = 1.0000
DL = 0.006393 ppb
BEC = 0.02686 ppb

Weight: <None>
Min Conc: <None>

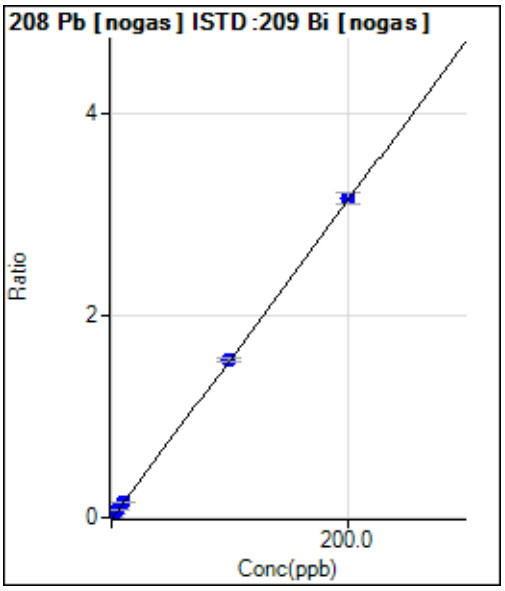


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	5.4	
2	☐	2.000	1.898	15148.60	0.0066	P	6.6	-5.1
3	☐	5.000	4.546	36372.21	0.0156	P	3.7	-9.1
4	☐	10.000	9.496	76041.57	0.0325	P	3.0	-5.0
5	☐	100.000	98.872	782448.01	0.3373	P	1.7	-1.1
6	☐	200.000	200.601	1538915.08	0.6843	P	3.4	0.3
7	☐	1.000						

y = 0.0034 * x + 8.3808E-005
R = 1.0000
DL = 0.003992 ppb
BEC = 0.02457 ppb

Weight: <None>
Min Conc: <None>

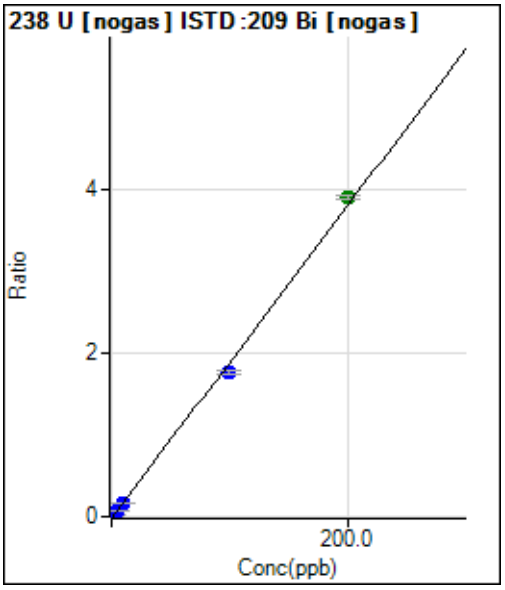
Calibration for 223_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	873.37	0.0004	P	5.8	
2	☐	2.000	1.915	70780.19	0.0306	P	4.6	-4.2
3	☐	5.000	4.616	170987.85	0.0733	P	3.7	-7.7
4	☐	10.000	9.553	354195.73	0.1513	P	2.3	-4.5
5	☐	100.000	99.132	3632817.52	1.5661	P	1.9	-0.9
6	☐	200.000	200.467	7121595.52	3.1666	P	3.2	0.2
7	☐	1.000						

y = 0.0158 * x + 3.7848E-004
R = 1.0000
DL = 0.004161 ppb
BEC = 0.02396 ppb

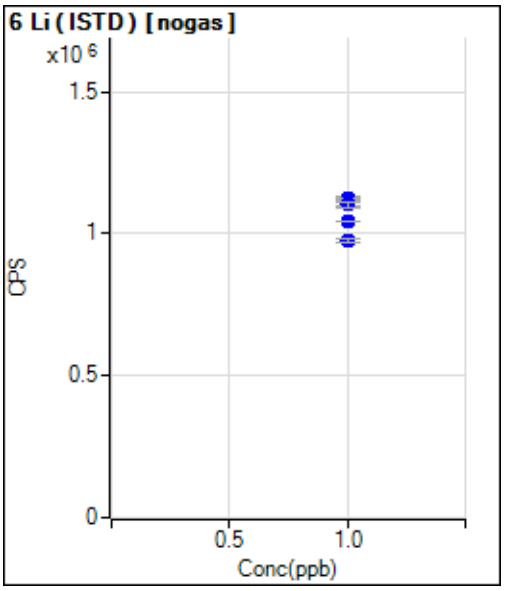
Weight: <None>
Min Conc: <None>



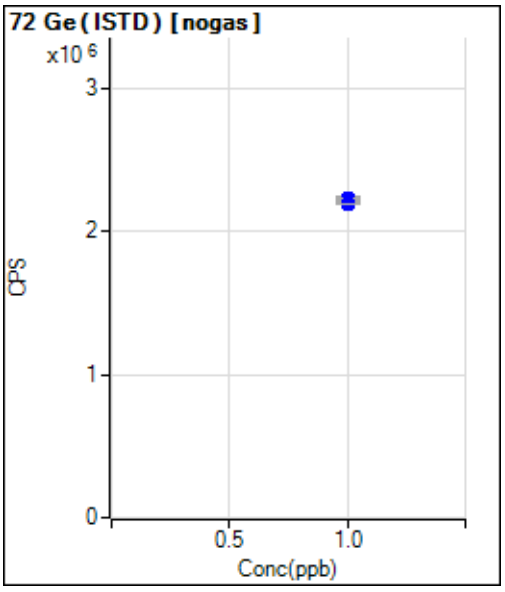
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	363.34	0.0002	P	20.1	
2	☐	2.000	1.743	77262.82	0.0334	P	5.4	-12.9
3	☐	5.000	4.186	186933.62	0.0801	P	2.9	-16.3
4	☐	10.000	8.594	384672.94	0.1643	P	1.4	-14.1
5	☐	100.000	91.817	4067539.52	1.7535	P	2.4	-8.2
6	☐	200.000	204.185	8770936.74	3.8994	A	0.7	2.1
7	☐	1.000						

y = 0.0191 * x + 1.5824E-004
R = 0.9989
DL = 0.005007 ppb
BEC = 0.008286 ppb

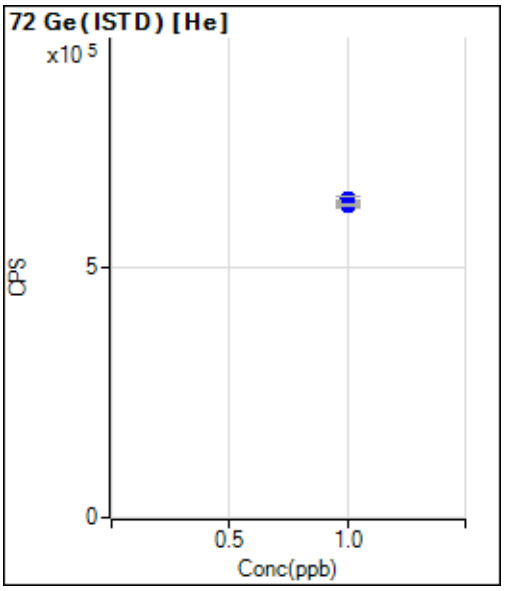
Weight: <None>
Min Conc: <None>



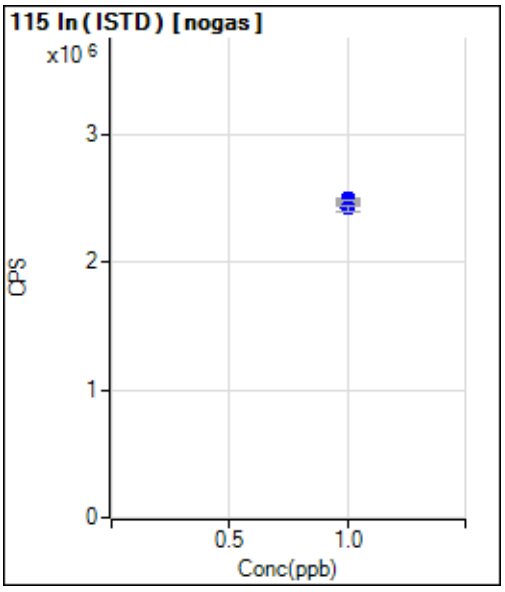
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1125226.07		P	0.8	
2	☐	1.000		1118916.05		P	0.6	
3	☐	1.000		1105343.47		P	0.8	
4	☐	1.000		1104237.37		P	1.8	
5	☐	1.000		1045724.49		P	0.2	
6	☐	1.000		975026.13		P	1.2	
7	☐	1.000						



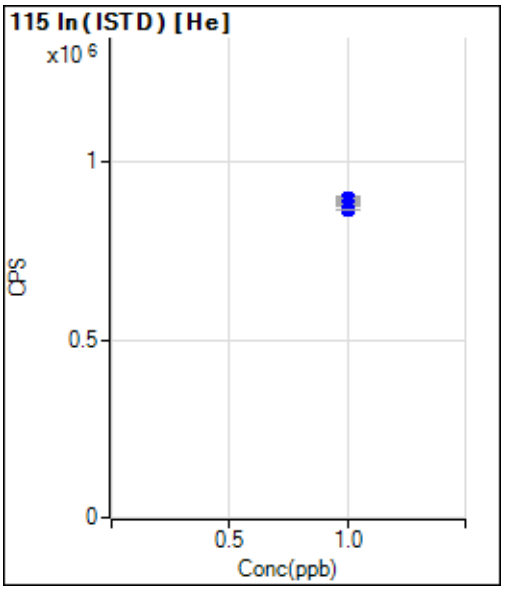
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2222434.71		P	1.2	
2	☐	1.000		2214779.39		P	0.7	
3	☐	1.000		2230836.63		P	1.2	
4	☐	1.000		2221965.18		P	1.4	
5	☐	1.000		2228956.37		P	0.6	
6	☐	1.000		2191471.79		P	0.3	
7	☐	1.000						



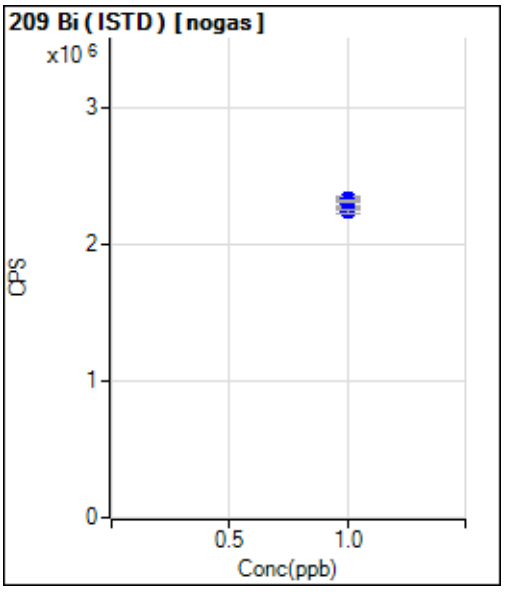
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		633161.91		P	1.0	
2	☐	1.000		634847.59		P	0.2	
3	☐	1.000		640223.40		P	1.4	
4	☐	1.000		625594.42		P	1.2	
5	☐	1.000		629744.72		P	0.3	
6	☐	1.000		626039.09		P	0.2	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2487358.46		P	0.5	
2	☐	1.000		2471900.52		P	1.2	
3	☐	1.000		2497859.23		P	0.5	
4	☐	1.000		2489183.28		P	0.9	
5	☐	1.000		2478221.04		P	0.8	
6	☐	1.000		2416582.25		P	1.4	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		884304.36		P	1.2	
2	☐	1.000		898541.86		P	0.8	
3	☐	1.000		894364.17		P	0.5	
4	☐	1.000		884640.49		P	0.5	
5	☐	1.000		878641.58		P	0.5	
6	☐	1.000		863935.79		P	0.1	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2305145.54		P	3.0	
2	☐	1.000		2312630.49		P	2.6	
3	☐	1.000		2334614.86		P	2.1	
4	☐	1.000		2342063.82		P	1.4	
5	☐	1.000		2319777.26		P	0.6	
6	☐	1.000		2249351.11		P	1.3	
7	☐	1.000						

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCV2
Data File Name	225LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T18:29:18-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	1.757	3.533	10707	3.66	2	87.8	70	120	
B	11	1	nogas	13.903	3.698	135814	1.23	10	139.0	70	120	NewName Main CR1 Failed
Al	27	1	nogas	1.041	8.399	108175	0.43	2	52.0	70	120	NewName Main CR1 Failed
P	31	1	nogas	31.570	58.891	46905	2.78	10	315.7	70	120	NewName Main CR1 Failed
Ti	47	1	nogas	2.002	4.568	3284	2.93	2	100.1	70	120	
Ni	60	1	nogas	1.982	4.123	9520	4.18	2	99.1	70	120	
Cu	63	1	nogas	2.029	1.649	22434	3.00	2	101.4	70	120	
Zn	66	1	nogas	2.172	7.810	9493	6.64	2	108.6	70	120	
Se	77	1	nogas	-7.871	-14.521	3284	4.20	2	-393.5	70	120	NewName Main CR1 Failed
Se	82	1	nogas	2.491	5.662	747	3.37	2	124.5	70	120	NewName Main CR1 Failed
Sr	88	1	nogas	1.866	0.835	52674	0.91	2	93.3	70	120	
Mo	95	1	nogas	2.024	0.990	11555	1.39	2	101.2	70	120	
Ag	107	1	nogas	2.287	2.699	28348	3.10	2	114.4	70	120	
Cd	111	1	nogas	1.953	3.528	5327	3.04	2	97.6	70	120	
Sn	118	1	nogas	2.184	1.245	20628	1.54	2	109.2	70	120	
Sb	121	1	nogas	2.160	2.615	26789	1.22	2	108.0	70	120	
Ba	137	1	nogas	1.975	2.101	8466	2.62	2	98.8	70	120	
Tl	205	1	nogas	1.781	2.864	51571	1.11	2	89.0	70	120	
Pb	208	1	nogas	1.915	2.784	71013	1.01	2	95.7	70	120	
[Pb]	206	1	nogas	1.933	2.863	17852	1.49	2	96.7	70	120	
[Pb]	207	1	nogas	1.933	3.458	15482	1.92	2	96.6	70	120	
U	238	1	nogas	1.734	3.809	77145	1.98	2	86.7	70	120	
Li	7	1	nogas	1.813	4.130	109849	1.13	2	90.6	70	120	
Ba	135	1	nogas	1.980	5.520	4904	4.49	2	99.0	70	120	
Tl	203	1	nogas	1.912	1.234	21180	1.31	2	95.6	70	120	
Na	23	2	He	145.579	1.576	594135	0.32	200	72.8	70	120	
Mg	24	2	He	188.384	0.405	192924	0.40	200	94.2	70	120	
Al	27	2	He	0.363	47.153	3651	3.01	2	18.1	70	120	NewName Main CR1 Failed
K	39	2	He	187.141	0.803	281247	0.45	200	93.6	70	120	
Ca	43	2	He	145.026	24.426	460	21.41	200	72.5	70	120	
Ca	44	2	He	200.435	5.046	10771	3.96	200	100.2	70	120	
V	51	2	He	1.944	5.138	14128	4.43	2	97.2	70	120	
Cr	52	2	He	1.847	7.044	21552	4.25	2	92.4	70	120	
Mn	55	2	He	1.977	3.608	10504	3.16	2	98.9	70	120	
Fe	56	2	He	184.854	0.664	1203961	0.25	200	92.4	70	120	
Co	59	2	He	1.951	1.340	17697	0.82	2	97.5	70	120	
Ni	60	2	He	2.046	5.897	4924	6.06	2	102.3	70	120	
Cu	63	2	He	1.974	1.765	11962	1.43	2	98.7	70	120	
Zn	66	2	He	2.157	4.827	3654	3.99	2	107.9	70	120	
As	75	2	He	1.948	3.156	1951	2.65	2	97.4	70	120	
Se	77	2	He	2.049	50.799	87	29.04	2	102.4	70	120	
Sb	121	2	He	2.148	2.160	10511	2.62	2	107.4	70	120	
Se	78	2	He	1.867	11.201	229	7.54	2	93.4	70	120	
Ti	47	2	He	1.799	9.873	490	8.90	2	89.9	70	120	
Zr	90	1	nogas	1.506	2.011	28258	2.55	2	75.3	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	2208305	1.45	2222435	99.36	70	120	
In	115	1	nogas	2467210	0.73	2487358	99.19	70	120	
Li	6	1	nogas	1093174	0.32	1125226	97.15	70	120	
Bi	209	1	nogas	2320138	2.08	2305146	100.65	70	120	
Ge	72	2	He	638485	0.57	633162	100.84	70	120	
In	115	2	He	889881	1.22	884304	100.63	70	120	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCV5
Data File Name	226LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T18:31:28-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	4.306	1.264	26230	0.60	5	86.1	70	130	
B	11	1	nogas	26.235	2.838	186309	0.98	25	104.9	70	130	
Al	27	1	nogas	4.493	3.678	163386	1.79	5	89.9	70	130	
P	31	1	nogas	44.283	2.764	48594	0.25	25	177.1	70	130	NewName Main CR1 Failed
Ti	47	1	nogas	4.803	4.507	7679	4.83	5	96.1	70	130	
Ni	60	1	nogas	4.845	1.318	22167	1.49	5	96.9	70	130	
Cu	63	1	nogas	4.872	1.158	52171	0.83	5	97.4	70	130	
Zn	66	1	nogas	5.224	2.070	19490	1.90	5	104.5	70	130	
Se	77	1	nogas	-2.536	-55.671	4047	4.48	5	-50.7	70	130	NewName Main CR1 Failed
Se	82	1	nogas	4.388	15.091	1097	10.49	5	87.8	70	130	
Sr	88	1	nogas	4.425	1.323	123403	1.58	5	88.5	70	130	
Mo	95	1	nogas	4.646	3.691	26371	3.37	5	92.9	70	130	
Ag	107	1	nogas	5.444	1.694	67751	1.25	5	108.9	70	130	
Cd	111	1	nogas	4.590	2.321	12597	1.86	5	91.8	70	130	
Sn	118	1	nogas	4.876	4.126	43292	3.59	5	97.5	70	130	
Sb	121	1	nogas	4.719	0.410	57796	0.88	5	94.4	70	130	
Ba	137	1	nogas	4.737	2.194	19837	2.36	5	94.7	70	130	
Tl	205	1	nogas	4.294	4.404	124658	2.22	5	85.9	70	130	
Pb	208	1	nogas	4.643	3.261	171710	0.83	5	92.9	70	130	
U	238	1	nogas	4.174	3.441	186044	1.02	5	83.5	70	130	
Li	7	1	nogas	4.329	2.438	155015	0.53	5	86.6	70	130	
Na	23	2	He	416.659	2.185	1084522	1.01	500	83.3	70	130	
Mg	24	2	He	455.194	1.216	463056	0.83	500	91.0	70	130	
Al	27	2	He	4.419	12.768	5978	4.44	5	88.4	70	130	
K	39	2	He	447.300	1.420	545875	0.71	500	89.5	70	130	
Ca	43	2	He	457.401	16.630	1313	16.37	500	91.5	70	130	
Ca	44	2	He	467.085	1.227	22757	0.91	500	93.4	70	130	
V	51	2	He	4.471	2.719	29562	1.09	5	89.4	70	130	
Cr	52	2	He	4.641	3.198	40708	1.06	5	92.8	70	130	
Mn	55	2	He	4.865	1.966	24847	1.04	5	97.3	70	130	
Fe	56	2	He	452.620	1.546	2917473	0.27	500	90.5	70	130	
Co	59	2	He	4.804	2.254	43507	2.53	5	96.1	70	130	
Ni	60	2	He	4.863	3.710	11291	4.57	5	97.3	70	130	
Cu	63	2	He	4.963	1.167	29142	2.41	5	99.3	70	130	
Zn	66	2	He	5.287	6.665	7519	6.66	5	105.7	70	130	
As	75	2	He	4.660	2.412	4424	3.15	5	93.2	70	130	
Sb	121	2	He	4.778	1.954	22808	0.59	5	95.6	70	130	
Se	78	2	He	4.786	8.647	467	8.66	5	95.7	70	130	
Ti	47	2	He	4.590	9.723	1203	8.53	5	91.8	70	130	
Zr	90	1	nogas	3.978	2.675	73111	2.25	5	79.6	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	2225198	0.48	2222435	100.12	70	120	
In	115	1	nogas	2482952	0.50	2487358	99.82	70	120	
Li	6	1	nogas	1097052	0.68	1125226	97.50	70	120	
Bi	209	1	nogas	2330545	2.46	2305146	101.10	70	120	
Ge	72	2	He	638646	1.44	633162	100.87	70	120	
In	115	2	He	896194	1.23	884304	101.34	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	227_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T18:33:37-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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
Sb	121	1	nogas	0.179	10.3	3180	7.2	2	
V	51	2	He	-0.177	-19.0	1175	17.8	2.5	
Sb	121	2	He	0.137	11.8	1107	7.3	2	
V	51	1	nogas	0.016	731.0	708	390.4	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	2243536	0.54	2222435	100.95	70	120	
In	115	1	nogas	2519618	0.71	2487358	101.30	70	120	
Li	6	1	nogas	1130797	0.59	1125226	100.50	70	120	
Bi	209	1	nogas	2298698	2.04	2305146	99.72	70	120	
Ge	72	2	He	637466	0.54	633162	100.68	70	120	
In	115	2	He	906713	0.14	884304	102.53	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	266_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T20:00:29-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	91.236	0.769	533435	1.48	100	91.2	90	110	
B	11	1	nogas	447.452	2.006	1823880	3.36	500	89.5	90	110	CCV Main CR1-2 Failed
Al	27	1	nogas	99.606	0.340	1676990	3.07	100	99.6	90	110	
P	31	1	nogas	1505.026	0.877	201263	2.24	500	301.0	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	98.481	1.393	155262	3.92	100	98.5	90	110	
Ni	60	1	nogas	98.214	0.590	436188	2.65	100	98.2	90	110	
Cu	63	1	nogas	98.011	1.120	1030479	2.63	100	98.0	90	110	
Zn	66	1	nogas	96.564	1.039	319659	3.45	100	96.6	90	110	
Se	77	1	nogas	99.468	6.152	18318	2.07	100	99.5	90	110	
Se	82	1	nogas	95.038	1.487	17724	1.61	100	95.0	90	110	
Sr	88	1	nogas	93.087	0.438	2566738	2.61	100	93.1	90	110	
Mo	95	1	nogas	94.917	0.824	535016	3.62	100	94.9	90	110	
Ag	107	1	nogas	104.478	0.873	1300903	3.89	100	104.5	90	110	
Cd	111	1	nogas	97.264	0.820	267352	2.91	100	97.3	90	110	
Sn	118	1	nogas	97.220	0.434	817990	3.36	100	97.2	90	110	
Sb	121	1	nogas	96.720	0.247	1175934	2.90	100	96.7	90	110	
Ba	137	1	nogas	97.381	1.946	400024	1.99	100	97.4	90	110	
Tl	205	1	nogas	90.856	4.742	2602668	3.56	100	90.9	90	110	
Pb	208	1	nogas	96.878	3.842	3522158	2.87	100	96.9	90	110	
U	238	1	nogas	91.058	3.893	4001975	2.74	100	91.1	90	110	
Li	7	1	nogas	92.040	1.186	1651200	1.35	100	92.0	90	110	
Ba	135	1	nogas	97.739	1.120	230302	1.97	100	97.7	90	110	
Tl	203	1	nogas	98.261	4.483	1075254	3.31	100	98.3	90	110	
Na	23	2	He	9757.065	1.773	17950963	1.32	10000	97.6	90	110	
Mg	24	2	He	9770.096	1.289	9877695	0.61	10000	97.7	90	110	
Al	27	2	He	101.146	1.374	61420	1.45	100	101.1	90	110	
K	39	2	He	9897.656	2.242	10141208	1.74	10000	99.0	90	110	
Ca	43	2	He	9963.384	1.174	27218	0.60	10000	99.6	90	110	
Ca	44	2	He	9749.158	1.239	439249	0.88	10000	97.5	90	110	
V	51	2	He	97.932	1.422	599452	0.94	100	97.9	90	110	
Cr	52	2	He	98.833	1.077	685679	1.41	100	98.8	90	110	
Mn	55	2	He	100.033	1.341	496757	1.20	100	100.0	90	110	
Fe	56	2	He	10175.046	0.644	65034472	0.46	10000	101.8	90	110	
Co	59	2	He	99.832	1.706	901488	0.89	100	99.8	90	110	
Ni	60	2	He	100.169	1.270	226241	0.84	100	100.2	90	110	
Cu	63	2	He	98.676	0.973	566676	0.23	100	98.7	90	110	
Zn	66	2	He	98.350	0.304	122162	0.78	100	98.4	90	110	
As	75	2	He	98.037	1.855	89385	1.08	100	98.0	90	110	
Sb	121	2	He	98.830	1.856	461855	1.03	100	98.8	90	110	
Se	78	2	He	98.389	2.660	8074	2.32	100	98.4	90	110	
Ti	47	2	He	99.343	5.252	25395	4.83	100	99.3	90	110	
Zr	90	1	nogas	81.944	0.764	1485255	3.73	100	81.9	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2246243	2.81	2222435	101.07	70	120	
In	115	1	nogas	2487228	3.03	2487358	99.99	70	120	
Li	6	1	nogas	1055787	1.62	1125226	93.83	70	120	
Bi	209	1	nogas	2302011	1.40	2305146	99.86	70	120	
Ge	72	2	He	637656	0.96	633162	100.71	70	120	
In	115	2	He	901317	0.84	884304	101.92	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	267_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T20:02:43-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.053	1.0	413	1.8	2.5	
B	11	1	nogas	11.847	8.1	134933	1.8	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-0.857	-16.2	82496	3.1	5	
P	31	1	nogas	3.492	79.8	46270	0.7	2.5	CCB Main CR1 Failed
Ti	47	1	nogas	0.206	58.1	530	36.4	2.5	
Ni	60	1	nogas	0.032	44.3	1077	5.7	2.5	
Cu	63	1	nogas	0.060	24.9	2214	7.2	5	
Zn	66	1	nogas	0.545	9.9	4451	4.5	2.5	
Se	77	1	nogas	-12.145	-14.5	2834	8.9	2.5	
Se	82	1	nogas	0.178	70.8	347	7.3	5	
Sr	88	1	nogas	0.062	20.5	3494	10.2	2.5	
Mo	95	1	nogas	0.541	31.5	3394	29.3	2.5	
Ag	107	1	nogas	0.073	10.0	1037	9.2	2.5	
Cd	111	1	nogas	0.043	8.7	126	8.6	2.5	
Sn	118	1	nogas	0.753	12.6	9063	9.2	2.5	
Sb	121	1	nogas	0.743	11.1	10367	9.6	2	
Ba	137	1	nogas	0.024	114.7	540	21.4	2.5	
Tl	205	1	nogas	0.366	54.3	11046	55.4	2.5	
Pb	208	1	nogas	0.071	8.1	3577	7.8	2.5	
U	238	1	nogas	0.077	26.3	3877	25.7	2.5	
Na	23	2	He	-28.937	-6.3	282789	0.2	100	
Mg	24	2	He	4.707	8.4	7122	6.2	100	
Al	27	2	He	-0.797	-22.6	3030	3.8	5	
K	39	2	He	-1.005	-139.2	91302	1.0	100	
Ca	43	2	He	3.002	297.3	73	34.3	100	
Ca	44	2	He	-8.525	-22.6	1403	6.7	100	
V	51	2	He	-0.113	-81.2	1596	36.3	2.5	
Cr	52	2	He	-0.425	-6.2	6065	3.5	2.5	
Mn	55	2	He	0.107	6.7	1237	2.8	2.5	
Fe	56	2	He	6.691	9.8	65071	6.5	100	
Co	59	2	He	0.060	4.9	607	3.8	2.5	
Ni	60	2	He	0.086	24.5	503	9.2	2.5	
Cu	63	2	He	0.065	39.8	1013	14.2	5	
Zn	66	2	He	0.524	6.2	1663	1.5	2.5	
As	75	2	He	0.056	91.7	230	19.9	2.5	
Sb	121	2	He	0.536	2.4	3020	1.5	2	
Se	78	2	He	0.294	83.0	102	18.7	5	
Ti	47	2	He	0.023	516.6	37	83.3	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	2319832	0.44	2222435	104.38	70	120	
In	115	1	nogas	2563196	0.23	2487358	103.05	70	120	
Li	6	1	nogas	1157126	1.27	1125226	102.83	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2373911	1.81	2305146	102.98	70	120	
Ge	72	2	He	648244	0.96	633162	102.38	70	120	
In	115	2	He	917799	0.35	884304	103.79	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	276_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T21:05:56-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	92.676	0.945	557488	0.55	100	92.7	90	110	
B	11	1	nogas	466.824	2.143	1953857	1.61	500	93.4	90	110	
Al	27	1	nogas	106.396	2.157	1836344	3.23	100	106.4	90	110	
P	31	1	nogas	1273.870	2.695	182249	0.88	500	254.8	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	100.148	1.455	162368	0.40	100	100.1	90	110	
Ni	60	1	nogas	100.989	1.306	461324	0.54	100	101.0	90	110	
Cu	63	1	nogas	100.643	1.285	1088531	1.63	100	100.6	90	110	
Zn	66	1	nogas	99.015	0.581	337061	0.69	100	99.0	90	110	
Se	77	1	nogas	111.362	1.981	20568	1.75	100	111.4	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	99.557	2.374	19086	1.17	100	99.6	90	110	
Sr	88	1	nogas	93.638	0.561	2621363	0.31	100	93.6	90	110	
Mo	95	1	nogas	97.497	0.878	557842	0.67	100	97.5	90	110	
Ag	107	1	nogas	107.764	1.075	1361961	0.91	100	107.8	90	110	
Cd	111	1	nogas	97.328	1.347	271603	1.11	100	97.3	90	110	
Sn	118	1	nogas	98.113	1.427	837958	1.18	100	98.1	90	110	
Sb	121	1	nogas	96.296	1.048	1204284	0.94	100	96.3	90	110	
Ba	137	1	nogas	98.812	1.422	412185	1.18	100	98.8	90	110	
Tl	205	1	nogas	89.015	3.938	2609425	1.50	100	89.0	90	110	CCV Main CR1-2 Failed
Pb	208	1	nogas	95.813	3.922	3564332	1.39	100	95.8	90	110	
U	238	1	nogas	89.252	3.680	4013976	1.19	100	89.3	90	110	CCV Main CR1-2 Failed
Li	7	1	nogas	94.338	0.427	1739453	0.76	100	94.3	90	110	
Ba	135	1	nogas	99.471	2.370	237984	2.12	100	99.5	90	110	
Tl	203	1	nogas	97.070	4.262	1086913	1.77	100	97.1	90	110	
Na	23	2	He	9965.626	1.823	18587670	1.24	10000	99.7	90	110	
Mg	24	2	He	9936.833	1.411	10189652	1.68	10000	99.4	90	110	
Al	27	2	He	103.565	1.359	63695	0.58	100	103.6	90	110	
K	39	2	He	10186.292	1.840	10583946	2.33	10000	101.9	90	110	
Ca	43	2	He	9787.829	0.532	27121	1.14	10000	97.9	90	110	
Ca	44	2	He	10036.024	1.191	458549	0.97	10000	100.4	90	110	
V	51	2	He	99.383	0.643	616961	0.44	100	99.4	90	110	
Cr	52	2	He	100.400	0.946	706278	0.83	100	100.4	90	110	
Mn	55	2	He	100.141	1.116	504357	0.94	100	100.1	90	110	
Fe	56	2	He	10071.554	0.470	65289074	0.84	10000	100.7	90	110	
Co	59	2	He	99.976	0.438	915703	1.02	100	100.0	90	110	
Ni	60	2	He	100.694	0.635	230660	0.50	100	100.7	90	110	
Cu	63	2	He	100.255	0.652	583935	0.70	100	100.3	90	110	
Zn	66	2	He	99.394	1.309	125197	1.03	100	99.4	90	110	
As	75	2	He	99.291	0.467	91822	1.07	100	99.3	90	110	
Sb	121	2	He	98.424	0.879	466520	0.39	100	98.4	90	110	
Se	78	2	He	99.206	1.366	8256	0.61	100	99.2	90	110	
Ti	47	2	He	99.018	0.653	25676	1.00	100	99.0	90	110	
Zr	90	1	nogas	86.868	1.638	1598127	1.51	100	86.9	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2310674	1.18	2222435	103.97	70	120	
In	115	1	nogas	2525044	0.25	2487358	101.52	70	120	
Li	6	1	nogas	1086242	0.50	1125226	96.54	70	120	
Bi	209	1	nogas	2356357	2.59	2305146	102.22	70	120	
Ge	72	2	He	646706	0.75	633162	102.14	70	120	
In	115	2	He	895623	1.32	884304	101.28	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	277_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T21:08:33-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.029	29.3	257	20.6	2.5	
B	11	1	nogas	19.790	5.9	167922	3.3	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.476	-4.2	72470	2.0	5	
P	31	1	nogas	-1.887	-228.0	45779	1.4	2.5	
Ti	47	1	nogas	0.136	29.7	417	15.6	2.5	
Ni	60	1	nogas	0.138	2.8	1563	0.4	2.5	
Cu	63	1	nogas	0.137	3.1	3057	2.3	5	
Zn	66	1	nogas	0.474	4.8	4217	2.6	2.5	
Se	77	1	nogas	-12.646	-5.6	2767	4.0	2.5	
Se	82	1	nogas	0.171	454.3	347	43.4	5	
Sr	88	1	nogas	0.023	18.1	2384	5.0	2.5	
Mo	95	1	nogas	0.435	28.8	2767	26.4	2.5	
Ag	107	1	nogas	0.050	27.3	740	23.6	2.5	
Cd	111	1	nogas	0.025	110.1	74	105.1	2.5	
Sn	118	1	nogas	0.573	19.7	7459	12.9	2.5	
Sb	121	1	nogas	0.699	17.6	9827	15.0	2	
Ba	137	1	nogas	-0.026	-33.3	327	11.6	2.5	
Tl	205	1	nogas	0.402	66.9	11327	69.3	2.5	
Pb	208	1	nogas	0.040	10.6	2407	9.6	2.5	
U	238	1	nogas	0.054	21.7	2877	22.6	2.5	
Na	23	2	He	-40.114	-4.6	265592	0.9	100	
Mg	24	2	He	2.122	20.6	4521	9.9	100	
Al	27	2	He	-1.602	-15.6	2594	5.7	5	
K	39	2	He	-2.974	-31.9	90410	1.9	100	
Ca	43	2	He	-0.825	-1013.9	63	36.5	100	
Ca	44	2	He	-9.316	-60.5	1383	18.3	100	
V	51	2	He	-0.186	-31.9	1151	32.1	2.5	
Cr	52	2	He	-0.445	-4.8	6001	3.2	2.5	
Mn	55	2	He	0.111	38.3	1273	16.9	2.5	
Fe	56	2	He	4.395	6.9	50813	4.8	100	
Co	59	2	He	0.039	12.6	420	10.4	2.5	
Ni	60	2	He	0.094	44.7	530	19.1	2.5	
Cu	63	2	He	0.049	92.0	930	28.2	5	
Zn	66	2	He	0.245	25.8	1330	5.4	2.5	
As	75	2	He	0.036	150.4	214	24.3	2.5	
Sb	121	2	He	0.456	6.4	2674	5.1	2	
Se	78	2	He	0.261	51.3	101	10.9	5	
Ti	47	2	He	0.022	509.5	37	78.7	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	2324254	0.88	2222435	104.58	70	120	
In	115	1	nogas	2548251	0.48	2487358	102.45	70	120	
Li	6	1	nogas	1150028	0.59	1125226	102.20	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2395595	3.51	2305146	103.92	70	120	
Ge	72	2	He	656441	0.86	633162	103.68	70	120	
In	115	2	He	918274	0.92	884304	103.84	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	284_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T21:27:28-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	93.019	0.961	582230	0.35	100	93.0	90	110	
B	11	1	nogas	479.576	0.168	2086501	0.77	500	95.9	90	110	
Al	27	1	nogas	103.037	0.264	1899629	0.92	100	103.0	90	110	
P	31	1	nogas	1258.849	0.920	192684	0.79	500	251.8	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	99.413	0.467	171921	1.05	100	99.4	90	110	
Ni	60	1	nogas	99.651	0.329	485575	1.34	100	99.7	90	110	
Cu	63	1	nogas	100.118	0.247	1154940	1.23	100	100.1	90	110	
Zn	66	1	nogas	98.935	0.522	359234	1.66	100	98.9	90	110	
Se	77	1	nogas	102.739	3.991	20611	1.97	100	102.7	90	110	
Se	82	1	nogas	96.495	0.559	19743	0.77	100	96.5	90	110	
Sr	88	1	nogas	94.470	2.050	2819144	2.28	100	94.5	90	110	
Mo	95	1	nogas	97.028	0.920	591778	1.21	100	97.0	90	110	
Ag	107	1	nogas	106.167	0.758	1430269	0.95	100	106.2	90	110	
Cd	111	1	nogas	95.923	0.990	285342	1.28	100	95.9	90	110	
Sn	118	1	nogas	97.951	0.619	891758	0.79	100	98.0	90	110	
Sb	121	1	nogas	95.677	0.643	1276306	1.69	100	95.7	90	110	
Ba	137	1	nogas	97.392	1.155	433075	1.45	100	97.4	90	110	
Tl	205	1	nogas	98.884	5.012	2737344	2.66	100	98.9	90	110	
Pb	208	1	nogas	97.651	4.097	3747125	1.82	100	97.7	90	110	
U	238	1	nogas	90.864	4.384	4214778	1.97	100	90.9	90	110	
Li	7	1	nogas	94.567	1.014	1814102	0.56	100	94.6	90	110	
Ba	135	1	nogas	97.268	1.622	248081	1.92	100	97.3	90	110	
Tl	203	1	nogas	98.394	5.293	1136259	2.86	100	98.4	90	110	
Na	23	2	He	9778.014	0.257	19395120	0.36	10000	97.8	90	110	
Mg	24	2	He	9748.417	1.815	10625825	1.43	10000	97.5	90	110	
Al	27	2	He	101.991	2.001	66741	2.03	100	102.0	90	110	
K	39	2	He	9992.430	0.886	11037874	0.62	10000	99.9	90	110	
Ca	43	2	He	9833.249	2.029	28961	1.44	10000	98.3	90	110	
Ca	44	2	He	9807.117	0.924	476372	0.34	10000	98.1	90	110	
V	51	2	He	97.880	0.649	645997	1.21	100	97.9	90	110	
Cr	52	2	He	98.036	0.683	733344	0.35	100	98.0	90	110	
Mn	55	2	He	100.819	0.540	539770	0.10	100	100.8	90	110	
Fe	56	2	He	10095.315	0.790	69568287	1.11	10000	101.0	90	110	
Co	59	2	He	99.109	0.941	964930	0.51	100	99.1	90	110	
Ni	60	2	He	99.094	1.184	241306	0.98	100	99.1	90	110	
Cu	63	2	He	98.177	0.570	607887	0.72	100	98.2	90	110	
Zn	66	2	He	99.284	0.478	132943	0.22	100	99.3	90	110	
As	75	2	He	98.127	0.697	96465	0.94	100	98.1	90	110	
Sb	121	2	He	97.298	0.651	490274	0.79	100	97.3	90	110	
Se	78	2	He	100.403	1.161	8882	1.02	100	100.4	90	110	
Ti	47	2	He	98.979	2.951	27285	3.29	100	99.0	90	110	
Zr	90	1	nogas	87.420	1.640	1714390	1.90	100	87.4	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2464467	1.17	2222435	110.89	70	120	
In	115	1	nogas	2691523	0.31	2487358	108.21	70	120	
Li	6	1	nogas	1130280	0.61	1125226	100.45	70	120	
Bi	209	1	nogas	2430541	2.47	2305146	105.44	70	120	
Ge	72	2	He	687464	0.61	633162	108.58	70	120	
In	115	2	He	959967	1.32	884304	108.56	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	285_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T21:29:46-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.046	15.8	387	12.2	2.5	
B	11	1	nogas	23.644	7.3	192828	4.1	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.485	-3.5	76845	1.0	5	
P	31	1	nogas	-15.602	-67.0	47076	2.3	2.5	
Ti	47	1	nogas	0.177	35.1	513	20.5	2.5	
Ni	60	1	nogas	0.143	27.8	1687	11.0	2.5	
Cu	63	1	nogas	0.081	24.1	2607	8.1	5	
Zn	66	1	nogas	0.530	7.5	4684	3.6	2.5	
Se	77	1	nogas	-12.931	-6.1	2897	4.7	2.5	
Se	82	1	nogas	0.085	562.2	350	27.3	5	
Sr	88	1	nogas	0.099	8.2	4834	5.0	2.5	
Mo	95	1	nogas	0.516	31.9	3467	29.2	2.5	
Ag	107	1	nogas	0.053	12.7	843	11.0	2.5	
Cd	111	1	nogas	0.055	40.4	170	39.4	2.5	
Sn	118	1	nogas	0.642	15.0	8633	10.1	2.5	
Sb	121	1	nogas	0.897	16.2	13096	14.4	2	
Ba	137	1	nogas	-0.009	-183.7	427	17.9	2.5	
Tl	205	1	nogas	0.451	60.9	13239	63.8	2.5	
Pb	208	1	nogas	0.053	14.4	3060	9.8	2.5	
U	238	1	nogas	0.065	23.3	3507	24.4	2.5	
Na	23	2	He	43.581	7.1	449126	0.3	100	
Mg	24	2	He	5.599	6.8	8676	3.7	100	
Al	27	2	He	-1.596	-17.5	2770	7.4	5	
K	39	2	He	-3.628	-10.4	95675	1.0	100	
Ca	43	2	He	4.535	338.0	83	54.1	100	
Ca	44	2	He	-2.756	-97.2	1800	8.2	100	
V	51	2	He	-0.104	-74.3	1775	28.8	2.5	
Cr	52	2	He	-0.412	-17.3	6645	7.8	2.5	
Mn	55	2	He	0.116	18.9	1383	9.9	2.5	
Fe	56	2	He	5.003	8.5	58460	6.3	100	
Co	59	2	He	0.047	6.5	527	6.7	2.5	
Ni	60	2	He	0.060	36.9	480	12.7	2.5	
Cu	63	2	He	0.056	38.9	1040	12.5	5	
Zn	66	2	He	0.370	53.5	1590	18.0	2.5	
As	75	2	He	0.100	3.2	292	0.7	2.5	
Sb	121	2	He	0.636	9.7	3774	9.6	2	
Se	78	2	He	0.419	32.8	121	9.1	5	
Ti	47	2	He	0.049	154.8	47	44.6	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	2470051	0.54	2222435	111.14	70	120	
In	115	1	nogas	2733915	0.26	2487358	109.91	70	120	
Li	6	1	nogas	1203217	0.34	1125226	106.93	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2505416	3.58	2305146	108.69	70	120	
Ge	72	2	He	700014	1.23	633162	110.56	70	120	
In	115	2	He	978485	1.04	884304	110.65	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	295_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T21:52:56-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	94.457	0.760	574949	1.41	100	94.5	90	110	
B	11	1	nogas	468.391	1.258	1983327	0.56	500	93.7	90	110	
Al	27	1	nogas	103.716	0.420	1894772	0.87	100	103.7	90	110	
P	31	1	nogas	1248.138	2.128	189772	0.40	500	249.6	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	99.312	1.406	170237	0.95	100	99.3	90	110	
Ni	60	1	nogas	98.880	0.442	477601	0.80	100	98.9	90	110	
Cu	63	1	nogas	98.681	1.668	1128470	2.17	100	98.7	90	110	
Zn	66	1	nogas	99.257	1.058	357227	1.37	100	99.3	90	110	
Se	77	1	nogas	90.439	5.700	18572	5.11	100	90.4	90	110	
Se	82	1	nogas	97.167	0.586	19707	1.79	100	97.2	90	110	
Sr	88	1	nogas	94.323	1.661	2792077	1.86	100	94.3	90	110	
Mo	95	1	nogas	96.669	0.688	584882	1.76	100	96.7	90	110	
Ag	107	1	nogas	106.078	1.453	1417579	1.60	100	106.1	90	110	
Cd	111	1	nogas	97.960	1.690	289106	2.89	100	98.0	90	110	
Sn	118	1	nogas	98.067	1.123	885828	2.83	100	98.1	90	110	
Sb	121	1	nogas	96.338	1.297	1273916	2.15	100	96.3	90	110	
Ba	137	1	nogas	98.085	0.307	432691	2.08	100	98.1	90	110	
Tl	205	1	nogas	99.223	4.595	2769026	2.34	100	99.2	90	110	
Pb	208	1	nogas	96.813	3.869	3744945	1.56	100	96.8	90	110	
U	238	1	nogas	91.829	4.955	4293465	2.69	100	91.8	90	110	
Li	7	1	nogas	93.898	0.817	1752194	1.35	100	93.9	90	110	
Ba	135	1	nogas	97.594	0.302	246927	1.84	100	97.6	90	110	
Tl	203	1	nogas	98.513	4.413	1146963	2.12	100	98.5	90	110	
Na	23	2	He	9604.954	1.165	19432364	1.09	10000	96.0	90	110	
Mg	24	2	He	9773.228	1.234	10862489	1.15	10000	97.7	90	110	
Al	27	2	He	101.082	0.560	67478	0.41	100	101.1	90	110	
K	39	2	He	10012.936	2.101	11277381	1.86	10000	100.1	90	110	
Ca	43	2	He	9520.445	2.771	28594	2.57	10000	95.2	90	110	
Ca	44	2	He	9716.784	1.118	481278	0.91	10000	97.2	90	110	
V	51	2	He	96.512	0.926	649484	0.69	100	96.5	90	110	
Cr	52	2	He	97.273	1.353	741998	1.11	100	97.3	90	110	
Mn	55	2	He	99.533	0.916	543361	0.70	100	99.5	90	110	
Fe	56	2	He	9959.382	0.383	69978179	0.16	10000	99.6	90	110	
Co	59	2	He	98.661	0.670	979453	0.51	100	98.7	90	110	
Ni	60	2	He	99.409	0.697	246830	0.62	100	99.4	90	110	
Cu	63	2	He	98.821	0.731	623889	0.75	100	98.8	90	110	
Zn	66	2	He	97.533	1.082	133185	1.18	100	97.5	90	110	
As	75	2	He	97.047	1.496	97278	1.41	100	97.0	90	110	
Sb	121	2	He	95.664	0.605	491512	0.56	100	95.7	90	110	
Se	78	2	He	98.182	0.928	8858	0.90	100	98.2	90	110	
Ti	47	2	He	98.907	2.303	27799	2.49	100	98.9	90	110	
Zr	90	1	nogas	86.931	1.678	1691167	2.31	100	86.9	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2442959	1.21	2222435	109.92	70	120	
In	115	1	nogas	2670146	1.80	2487358	107.35	70	120	
Li	6	1	nogas	1099144	1.51	1125226	97.68	70	120	
Bi	209	1	nogas	2450031	2.36	2305146	106.29	70	120	
Ge	72	2	He	700960	0.23	633162	110.71	70	120	
In	115	2	He	970342	0.73	884304	109.73	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	296_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T21:55:15-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	8.4	355	6.5	2.5	
B	11	1	nogas	10.408	11.5	132427	4.1	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.428	-4.3	77790	0.6	5	
P	31	1	nogas	-12.277	-27.3	47424	0.4	2.5	
Ti	47	1	nogas	0.148	63.6	463	35.0	2.5	
Ni	60	1	nogas	0.016	225.0	1067	16.9	2.5	
Cu	63	1	nogas	0.067	5.7	2437	1.3	5	
Zn	66	1	nogas	0.430	20.1	4321	7.6	2.5	
Se	77	1	nogas	-18.164	-8.2	2090	10.2	2.5	
Se	82	1	nogas	0.449	21.2	423	4.9	5	
Sr	88	1	nogas	0.033	8.8	2844	2.7	2.5	
Mo	95	1	nogas	0.493	30.8	3320	28.4	2.5	
Ag	107	1	nogas	0.065	8.8	1003	7.5	2.5	
Cd	111	1	nogas	0.040	40.4	124	39.4	2.5	
Sn	118	1	nogas	0.686	9.1	9033	6.7	2.5	
Sb	121	1	nogas	0.983	14.7	14224	13.1	2	
Ba	137	1	nogas	0.009	62.5	507	4.6	2.5	
Tl	205	1	nogas	0.469	64.0	13626	67.0	2.5	
Pb	208	1	nogas	0.060	10.4	3284	10.4	2.5	
U	238	1	nogas	0.067	21.8	3587	22.7	2.5	
Na	23	2	He	-68.258	-2.0	228671	0.6	100	
Mg	24	2	He	3.213	2.4	6065	2.3	100	
Al	27	2	He	-1.629	-13.1	2764	4.8	5	
K	39	2	He	-4.586	-25.8	95128	1.5	100	
Ca	43	2	He	-4.566	-224.8	57	53.9	100	
Ca	44	2	He	-6.636	-23.0	1617	4.0	100	
V	51	2	He	-0.092	-62.1	1865	20.3	2.5	
Cr	52	2	He	-0.412	-1.7	6682	0.7	2.5	
Mn	55	2	He	0.112	4.6	1370	1.3	2.5	
Fe	56	2	He	5.410	10.0	61630	6.2	100	
Co	59	2	He	0.044	14.8	503	13.2	2.5	
Ni	60	2	He	0.037	61.0	427	14.1	2.5	
Cu	63	2	He	0.061	8.2	1077	2.8	5	
Zn	66	2	He	0.345	41.0	1563	13.1	2.5	
As	75	2	He	0.107	44.2	301	16.6	2.5	
Sb	121	2	He	0.707	9.2	4157	8.2	2	
Se	78	2	He	0.567	36.1	135	13.2	5	
Ti	47	2	He	-0.036	-150.3	23	65.5	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	2468288	0.80	2222435	111.06	70	120	
In	115	1	nogas	2729641	0.38	2487358	109.74	70	120	
Li	6	1	nogas	1189599	0.15	1125226	105.72	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2478276	3.69	2305146	107.51	70	120	
Ge	72	2	He	703857	0.82	633162	111.17	70	120	
In	115	2	He	978539	0.85	884304	110.66	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	307_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T22:21:04-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	91.676	0.624	539860	0.90	100	91.7	90	110	
B	11	1	nogas	467.666	1.942	1916141	2.20	500	93.5	90	110	
Al	27	1	nogas	102.586	1.003	1777680	1.61	100	102.6	90	110	
P	31	1	nogas	1228.683	1.185	177814	0.40	500	245.7	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	98.224	1.534	159623	1.99	100	98.2	90	110	
Ni	60	1	nogas	99.058	0.728	453561	1.22	100	99.1	90	110	
Cu	63	1	nogas	99.892	1.286	1082773	1.28	100	99.9	90	110	
Zn	66	1	nogas	98.185	1.417	335019	2.01	100	98.2	90	110	
Se	77	1	nogas	99.671	1.712	18932	2.46	100	99.7	90	110	
Se	82	1	nogas	101.209	3.298	19443	3.22	100	101.2	90	110	
Sr	88	1	nogas	94.563	1.421	2681869	2.19	100	94.6	90	110	
Mo	95	1	nogas	98.378	0.804	570223	1.62	100	98.4	90	110	
Ag	107	1	nogas	107.216	0.315	1372709	1.39	100	107.2	90	110	
Cd	111	1	nogas	97.600	2.177	275941	2.99	100	97.6	90	110	
Sn	118	1	nogas	98.163	0.455	849362	1.74	100	98.2	90	110	
Sb	121	1	nogas	97.695	0.652	1224566	1.59	100	97.7	90	110	
Ba	137	1	nogas	99.730	0.944	421407	0.60	100	99.7	90	110	
Tl	205	1	nogas	99.804	3.659	2714971	2.25	100	99.8	90	110	
Pb	208	1	nogas	97.803	3.421	3687475	2.02	100	97.8	90	110	
U	238	1	nogas	91.578	3.456	4174036	2.10	100	91.6	90	110	
Li	7	1	nogas	93.531	0.757	1688807	0.77	100	93.5	90	110	
Ba	135	1	nogas	99.877	1.000	242074	1.52	100	99.9	90	110	
Tl	203	1	nogas	97.626	3.359	1107962	1.95	100	97.6	90	110	
Na	23	2	He	9647.472	1.081	18223598	0.97	10000	96.5	90	110	
Mg	24	2	He	9815.898	1.325	10187061	1.28	10000	98.2	90	110	
Al	27	2	He	102.638	0.782	63923	0.91	100	102.6	90	110	
K	39	2	He	10120.978	0.579	10643205	0.81	10000	101.2	90	110	
Ca	43	2	He	9644.666	0.741	27048	0.70	10000	96.4	90	110	
Ca	44	2	He	9790.454	0.539	452794	0.77	10000	97.9	90	110	
V	51	2	He	99.075	0.596	622496	0.41	100	99.1	90	110	
Cr	52	2	He	99.659	0.317	709614	0.21	100	99.7	90	110	
Mn	55	2	He	100.243	0.899	510984	1.06	100	100.2	90	110	
Fe	56	2	He	10031.373	1.083	65814177	1.13	10000	100.3	90	110	
Co	59	2	He	100.001	0.576	926984	0.70	100	100.0	90	110	
Ni	60	2	He	100.802	1.158	233704	1.36	100	100.8	90	110	
Cu	63	2	He	100.014	0.589	589581	0.78	100	100.0	90	110	
Zn	66	2	He	98.163	2.091	125160	2.27	100	98.2	90	110	
As	75	2	He	97.971	0.813	91697	0.90	100	98.0	90	110	
Sb	121	2	He	98.356	1.637	471848	1.68	100	98.4	90	110	
Se	78	2	He	98.741	0.745	8318	0.49	100	98.7	90	110	
Ti	47	2	He	97.375	1.774	25555	1.86	100	97.4	90	110	
Zr	90	1	nogas	87.734	1.729	1635184	2.52	100	87.7	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2315787	1.17	2222435	104.20	70	120	
In	115	1	nogas	2557941	1.31	2487358	102.84	70	120	
Li	6	1	nogas	1063322	0.35	1125226	94.50	70	120	
Bi	209	1	nogas	2387349	1.44	2305146	103.57	70	120	
Ge	72	2	He	654515	0.25	633162	103.37	70	120	
In	115	2	He	923587	0.76	884304	104.44	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	308_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T22:23:26-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.038	9.3	317	7.5	2.5	
B	11	1	nogas	22.816	4.3	180981	2.3	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.537	-5.1	72892	1.0	5	
P	31	1	nogas	-22.963	-16.6	44374	0.3	2.5	
Ti	47	1	nogas	0.175	30.8	490	17.4	2.5	
Ni	60	1	nogas	0.026	74.9	1070	8.1	2.5	
Cu	63	1	nogas	0.028	27.0	1913	3.7	5	
Zn	66	1	nogas	0.388	7.8	4004	1.8	2.5	
Se	77	1	nogas	-16.527	-1.2	2250	2.0	2.5	
Se	82	1	nogas	0.327	117.3	383	19.9	5	
Sr	88	1	nogas	0.034	18.5	2800	6.8	2.5	
Mo	95	1	nogas	0.507	22.6	3310	21.0	2.5	
Ag	107	1	nogas	0.052	0.6	803	0.7	2.5	
Cd	111	1	nogas	0.035	10.1	107	9.8	2.5	
Sn	118	1	nogas	0.608	6.5	8086	4.6	2.5	
Sb	121	1	nogas	0.740	10.2	10557	8.6	2	
Ba	137	1	nogas	-0.005	-145.3	433	7.1	2.5	
Tl	205	1	nogas	0.436	60.4	12555	63.3	2.5	
Pb	208	1	nogas	0.056	10.3	3104	10.1	2.5	
U	238	1	nogas	0.065	21.1	3441	22.5	2.5	
Na	23	2	He	-40.991	-4.3	269578	1.5	100	
Mg	24	2	He	3.280	8.6	5848	5.6	100	
Al	27	2	He	-1.479	-8.6	2724	4.3	5	
K	39	2	He	-6.490	-12.8	88566	0.5	100	
Ca	43	2	He	-6.044	-148.2	50	52.9	100	
Ca	44	2	He	-6.775	-19.6	1533	3.8	100	
V	51	2	He	-0.061	-19.7	1978	5.4	2.5	
Cr	52	2	He	-0.469	-8.5	5955	3.5	2.5	
Mn	55	2	He	0.119	25.5	1343	11.8	2.5	
Fe	56	2	He	5.089	4.0	56553	3.9	100	
Co	59	2	He	0.046	10.3	500	10.4	2.5	
Ni	60	2	He	0.078	39.2	503	14.9	2.5	
Cu	63	2	He	0.051	44.9	963	13.8	5	
Zn	66	2	He	0.466	45.8	1647	17.5	2.5	
As	75	2	He	0.080	49.7	261	16.0	2.5	
Sb	121	2	He	0.525	7.5	3070	7.4	2	
Se	78	2	He	0.345	59.0	110	15.9	5	
Ti	47	2	He	0.068	144.6	50	52.9	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	2370782	0.85	2222435	106.67	70	120	
In	115	1	nogas	2654937	0.32	2487358	106.74	70	120	
Li	6	1	nogas	1151304	0.46	1125226	102.32	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2456382	3.66	2305146	106.56	70	120	
Ge	72	2	He	670408	1.48	633162	105.88	70	120	
In	115	2	He	946483	1.34	884304	107.03	70	120	

Sample Report

Sample Table

Sample Name	MBLK-214353
Data File Name	314SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T22:37:55-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	216CALB.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	-0.001	-392.92	67	0.00	2000	
B	11	1	nogas	14.552	14.552	0.64	141849	0.01	2000	
Al	27	1	nogas	1.704	1.704	3.32	124289	0.00	2000	
Ti	47	1	nogas	-0.021	-0.021	-77.77	160	-0.01	2000	
Ni	60	1	nogas	0.082	0.082	46.69	1303	0.01	2000	
Cu	63	1	nogas	0.061	0.061	18.87	2224	0.00	2000	
Zn	66	1	nogas	1.128	1.128	10.88	6418	0.02	2000	
Se	77	1	nogas	-5.810	-5.810	-4.72	3741	-0.16	2000	
Se	82	1	nogas	-0.224	-0.224	-140.96	270	-0.08	2000	
Sr	88	1	nogas	0.059	0.059	9.20	3450	0.00	2000	
Mo	95	1	nogas	0.074	0.074	14.57	690	0.01	2000	
Ag	107	1	nogas	0.007	0.007	64.63	193	0.00	2000	
Cd	111	1	nogas	0.001	0.001	879.27	6	0.02	2000	
Sn	118	1	nogas	0.066	0.066	48.38	3160	0.00	2000	
Sb	121	1	nogas	0.496	0.496	8.01	7252	0.01	2000	
Ba	137	1	nogas	-0.024	-0.024	-9.59	340	-0.01	2000	
Tl	205	1	nogas	0.012	0.012	30.75	500	0.00	2000	
Pb	208	1	nogas	0.008	0.008	43.55	1200	0.00	2000	
U	238	1	nogas	-0.001	-0.001	-431.11	353	0.00	2000	
Na	23	2	He	-64.598	-64.598	-1.18	221715	-0.03	200000	
Mg	24	2	He	0.242	0.242	100.45	2584	0.01	200000	
Al	27	2	He	1.702	1.702	22.14	4577	0.04	2000	
K	39	2	He	-6.819	-6.819	-17.17	87027	-0.01	200000	
Ca	43	2	He	22.570	22.570	15.96	130	17.36	200000	
Ca	44	2	He	11.427	11.427	29.22	2360	0.48	200000	
V	51	2	He	0.063	0.063	74.30	2735	0.00	2000	
Cr	52	2	He	0.085	0.085	35.15	9807	0.00	2000	
Mn	55	2	He	0.292	0.292	28.07	2210	0.01	2000	
Fe	56	2	He	1.377	1.377	15.90	31179	0.00	200000	
Co	59	2	He	0.013	0.013	9.49	177	0.01	2000	
Ni	60	2	He	0.174	0.174	8.20	720	0.02	2000	
Cu	63	2	He	0.067	0.067	31.52	1047	0.01	2000	
Zn	66	2	He	1.072	1.072	12.31	2397	0.04	2000	
As	75	2	He	0.001	0.001	1218.36	183	0.00	2000	
Sb	121	2	He	0.412	0.412	19.45	2480	0.02	2000	
Se	78	2	He	0.094	0.094	203.26	87	0.11	2000	
Ti	47	2	He	-0.030	-0.030	-264.01	23	-0.13	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	2315342	0.61	2222435	104.18	70	120	
In	115	1	nogas	2594116	0.33	2487358	104.29	70	120	
Li	6	1	nogas	1120082	0.84	1125226	99.54	70	120	
Bi	209	1	nogas	2389991	2.50	2305146	103.68	70	120	

Sample Report

Ge	72	2	He	661303	0.23	633162	104.44	70	120	
In	115	2	He	921276	1.42	884304	104.18	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	316_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T22:42:42-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	94.528	1.170	558677	0.47	100	94.5	90	110	
B	11	1	nogas	469.008	3.306	1928105	2.28	500	93.8	90	110	
Al	27	1	nogas	102.954	0.225	1827620	1.68	100	103.0	90	110	
P	31	1	nogas	1244.797	2.775	184014	3.54	500	249.0	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	98.945	0.370	164753	1.80	100	98.9	90	110	
Ni	60	1	nogas	100.857	0.895	473118	1.09	100	100.9	90	110	
Cu	63	1	nogas	100.042	0.611	1111082	1.20	100	100.0	90	110	
Zn	66	1	nogas	98.759	0.209	345248	1.56	100	98.8	90	110	
Se	77	1	nogas	89.089	5.598	17828	2.63	100	89.1	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	96.453	2.082	18999	1.71	100	96.5	90	110	
Sr	88	1	nogas	95.087	0.314	2727512	0.59	100	95.1	90	110	
Mo	95	1	nogas	98.404	1.373	576919	1.69	100	98.4	90	110	
Ag	107	1	nogas	107.795	0.960	1395951	1.26	100	107.8	90	110	
Cd	111	1	nogas	97.785	1.894	279611	2.04	100	97.8	90	110	
Sn	118	1	nogas	99.149	0.597	867669	0.83	100	99.1	90	110	
Sb	121	1	nogas	95.832	0.686	1230684	0.82	100	95.8	90	110	
Ba	137	1	nogas	98.400	0.653	420590	0.89	100	98.4	90	110	
Tl	205	1	nogas	98.947	5.684	2691374	2.48	100	98.9	90	110	
Pb	208	1	nogas	97.564	4.441	3679260	2.08	100	97.6	90	110	
U	238	1	nogas	90.827	4.178	4140769	1.55	100	90.8	90	110	
Li	7	1	nogas	95.063	1.107	1721506	0.15	100	95.1	90	110	
Ba	135	1	nogas	98.192	1.051	240727	1.26	100	98.2	90	110	
Tl	203	1	nogas	97.120	5.739	1102118	2.86	100	97.1	90	110	
Na	23	2	He	9772.635	0.625	18943354	0.61	10000	97.7	90	110	
Mg	24	2	He	9721.134	1.311	10355143	1.08	10000	97.2	90	110	
Al	27	2	He	102.505	1.968	65540	2.68	100	102.5	90	110	
K	39	2	He	10062.183	0.877	10861214	0.52	10000	100.6	90	110	
Ca	43	2	He	9674.907	0.526	27849	0.46	10000	96.7	90	110	
Ca	44	2	He	9791.310	1.859	464763	1.23	10000	97.9	90	110	
V	51	2	He	99.249	1.196	640036	0.43	100	99.2	90	110	
Cr	52	2	He	99.053	1.283	723961	0.48	100	99.1	90	110	
Mn	55	2	He	99.685	0.568	521573	0.89	100	99.7	90	110	
Fe	56	2	He	10021.616	1.201	67484197	0.33	10000	100.2	90	110	
Co	59	2	He	99.243	1.304	944231	0.85	100	99.2	90	110	
Ni	60	2	He	101.003	0.619	240355	0.75	100	101.0	90	110	
Cu	63	2	He	100.002	0.895	605073	0.80	100	100.0	90	110	
Zn	66	2	He	98.784	1.467	129274	1.89	100	98.8	90	110	
As	75	2	He	97.652	0.727	93817	1.23	100	97.7	90	110	
Sb	121	2	He	97.923	1.144	482166	0.28	100	97.9	90	110	
Se	78	2	He	98.794	1.859	8542	2.18	100	98.8	90	110	
Ti	47	2	He	98.050	1.770	26410	1.04	100	98.1	90	110	
Zr	90	1	nogas	87.724	1.264	1653679	1.58	100	87.7	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2372776	1.49	2222435	106.76	70	120	
In	115	1	nogas	2587244	0.32	2487358	104.02	70	120	
Li	6	1	nogas	1067271	0.92	1125226	94.85	70	120	
Bi	209	1	nogas	2389239	3.36	2305146	103.65	70	120	
Ge	72	2	He	671824	0.86	633162	106.11	70	120	
In	115	2	He	930992	0.65	884304	105.28	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	317_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T22:45:07-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.037	7.9	310	5.8	2.5	
B	11	1	nogas	15.089	7.6	148388	3.1	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.782	-1.1	69966	1.7	5	
P	31	1	nogas	-18.250	-38.3	45662	1.0	2.5	
Ti	47	1	nogas	0.182	10.1	510	5.2	2.5	
Ni	60	1	nogas	-0.010	-271.4	917	13.9	2.5	
Cu	63	1	nogas	0.020	21.5	1860	3.4	5	
Zn	66	1	nogas	0.208	48.6	3437	9.9	2.5	
Se	77	1	nogas	-16.145	-12.1	2344	11.1	2.5	
Se	82	1	nogas	0.515	34.4	427	8.9	5	
Sr	88	1	nogas	0.026	12.6	2527	3.8	2.5	
Mo	95	1	nogas	0.522	30.7	3367	27.9	2.5	
Ag	107	1	nogas	0.054	7.3	823	5.7	2.5	
Cd	111	1	nogas	0.032	71.6	97	68.8	2.5	
Sn	118	1	nogas	0.775	9.8	9497	6.8	2.5	
Sb	121	1	nogas	0.870	10.9	12422	8.8	2	
Ba	137	1	nogas	-0.009	-246.6	413	22.0	2.5	
Tl	205	1	nogas	0.480	59.7	13652	63.4	2.5	
Pb	208	1	nogas	0.047	10.2	2720	11.1	2.5	
U	238	1	nogas	0.054	29.7	2920	30.5	2.5	
Na	23	2	He	-80.840	-0.8	197201	0.8	100	
Mg	24	2	He	2.062	18.3	4631	9.0	100	
Al	27	2	He	-1.955	-7.7	2477	3.8	5	
K	39	2	He	-6.336	-39.6	90235	2.9	100	
Ca	43	2	He	-3.989	-130.0	57	27.0	100	
Ca	44	2	He	-8.094	-58.7	1497	15.5	100	
V	51	2	He	-0.078	-92.1	1905	24.7	2.5	
Cr	52	2	He	-0.274	-13.0	7482	3.5	2.5	
Mn	55	2	He	0.034	69.6	913	14.0	2.5	
Fe	56	2	He	4.135	10.9	50976	6.0	100	
Co	59	2	He	0.041	17.1	453	15.0	2.5	
Ni	60	2	He	0.022	41.4	377	5.5	2.5	
Cu	63	2	He	0.028	14.9	837	3.0	5	
Zn	66	2	He	0.206	18.8	1330	4.2	2.5	
As	75	2	He	0.091	31.6	277	10.5	2.5	
Sb	121	2	He	0.691	7.6	3951	6.6	2	
Se	78	2	He	0.293	57.1	107	13.7	5	
Ti	47	2	He	0.126	93.7	67	48.2	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	2411542	1.26	2222435	108.51	70	120	
In	115	1	nogas	2631450	0.58	2487358	105.79	70	120	
Li	6	1	nogas	1153691	0.34	1125226	102.53	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2423068	4.39	2305146	105.12	70	120	
Ge	72	2	He	681727	0.38	633162	107.67	70	120	
In	115	2	He	945299	1.39	884304	106.90	70	120	

Sample Report

Sample Table

Sample Name	HS24061247-01SD
Data File Name	319SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T22:49:56-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 214363
ISTD Ref FileName	216CALB.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	-0.009	-95.26	63	0.00	2000	
B	11	1	nogas	29.458	147.291	2.12	209788	0.01	2000	
Al	27	1	nogas	27.881	139.407	1.53	570904	0.00	2000	
Ti	47	1	nogas	0.352	1.759	11.99	790	0.04	2000	
Ni	60	1	nogas	-0.026	-0.128	-119.78	837	0.00	2000	
Cu	63	1	nogas	-0.003	-0.017	-271.99	1577	0.00	2000	
Zn	66	1	nogas	0.688	3.441	6.93	5084	0.01	2000	
Se	77	1	nogas	-15.052	-75.258	-4.76	2487	-0.61	2000	
Se	82	1	nogas	-0.046	-0.230	-1064.08	313	-0.01	2000	
Sr	88	1	nogas	2.056	10.281	1.76	61582	0.00	2000	
Mo	95	1	nogas	0.169	0.843	9.51	1263	0.01	2000	
Ag	107	1	nogas	0.004	0.022	55.56	167	0.00	2000	
Cd	111	1	nogas	0.100	0.498	16.03	293	0.03	2000	
Sn	118	1	nogas	0.120	0.598	24.51	3671	0.00	2000	
Sb	121	1	nogas	0.110	0.551	9.08	2504	0.00	2000	
Ba	137	1	nogas	3.611	18.056	4.33	16096	0.02	2000	
Tl	205	1	nogas	0.009	0.045	20.61	423	0.00	2000	
Pb	208	1	nogas	0.025	0.126	11.98	1893	0.00	2000	
U	238	1	nogas	0.004	0.018	77.73	553	0.00	2000	
Na	23	2	He	4004.001	20020.006	1.59	8115927	0.05	200000	
Mg	24	2	He	84.248	421.240	1.84	93804	0.09	200000	
Al	27	2	He	27.649	138.244	8.19	20689	0.13	2000	
K	39	2	He	739.100	3695.502	0.94	903074	0.08	200000	
Ca	43	2	He	270.660	1353.301	3.80	860	31.47	200000	
Ca	44	2	He	276.776	1383.880	1.29	15225	1.82	200000	
V	51	2	He	-0.032	-0.159	-71.32	2211	0.00	2000	
Cr	52	2	He	-0.269	-1.344	-10.98	7549	0.00	2000	
Mn	55	2	He	12.385	61.923	1.17	66654	0.02	2000	
Fe	56	2	He	333.357	1666.785	1.32	2308814	0.01	200000	
Co	59	2	He	0.029	0.147	29.57	347	0.01	2000	
Ni	60	2	He	0.036	0.178	67.71	410	0.01	2000	
Cu	63	2	He	0.026	0.129	114.90	827	0.00	2000	
Zn	66	2	He	0.541	2.707	15.92	1780	0.03	2000	
As	75	2	He	0.010	0.048	234.54	198	0.00	2000	
Sb	121	2	He	0.098	0.491	13.79	993	0.01	2000	
Se	78	2	He	0.120	0.602	45.18	93	0.13	2000	
Ti	47	2	He	0.392	1.960	23.34	140	0.28	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	2389262	0.20	2222435	107.51	70	120	
In	115	1	nogas	2625388	0.15	2487358	105.55	70	120	
Li	6	1	nogas	1154263	0.51	1125226	102.58	70	120	
Bi	209	1	nogas	2443387	4.13	2305146	106.00	70	120	

Sample Report

Ge	72	2	He	684435	1.61	633162	108.10	70	120	
In	115	2	He	956772	0.67	884304	108.19	70	120	

Sample Report

Sample Table

Sample Name	HS24061247-01PDS
Data File Name	322SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T22:57:09-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	216CALB.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	89.564	89.564	0.39	549475	0.02	2000	
B	11	1	nogas	105.850	105.850	1.55	514239	0.02	2000	
Al	27	1	nogas	239.164	239.164	0.71	4022060	0.01	2000	
Ti	47	1	nogas	105.378	105.378	0.73	171511	0.06	2000	
Ni	60	1	nogas	100.929	100.929	0.80	462879	0.02	2000	
Cu	63	1	nogas	101.535	101.535	1.64	1102302	0.01	2000	
Zn	66	1	nogas	100.102	100.102	1.12	342064	0.03	2000	
Se	77	1	nogas	96.059	96.059	2.43	18442	0.52	2000	
Se	82	1	nogas	100.613	100.613	2.67	19356	0.52	2000	
Sr	88	1	nogas	10.059	10.059	0.54	285967	0.00	2000	
Mo	95	1	nogas	101.297	101.297	1.77	585371	0.02	2000	
Ag	107	1	nogas	113.212	113.212	1.70	1445148	0.01	2000	
Cd	111	1	nogas	98.863	98.863	2.16	278614	0.04	2000	
Sn	118	1	nogas	1.069	1.069	16.84	11712	0.01	2000	
Sb	121	1	nogas	95.861	95.861	0.08	1203452	0.01	2000	
Ba	137	1	nogas	117.497	117.497	1.14	494997	0.02	2000	
Tl	205	1	nogas	100.938	100.938	4.31	2653208	0.00	2000	
Pb	208	1	nogas	99.565	99.565	3.66	3627682	0.00	2000	
U	238	1	nogas	0.051	0.051	6.30	2607	0.00	2000	
Na	23	2	He	29364.532	29364.532	0.89	55710553	0.05	200000	
Mg	24	2	He	10562.005	10562.005	0.55	11148458	0.09	200000	
Al	27	2	He	231.872	231.872	2.44	142337	0.16	2000	
K	39	2	He	14398.079	14398.079	1.34	15358589	0.09	200000	
Ca	43	2	He	11232.924	11232.924	0.51	32031	35.07	200000	
Ca	44	2	He	11363.654	11363.654	1.29	534203	2.13	200000	
V	51	2	He	100.743	100.743	0.35	643755	0.02	2000	
Cr	52	2	He	101.632	101.632	0.78	735825	0.01	2000	
Mn	55	2	He	159.020	159.020	1.15	823970	0.02	2000	
Fe	56	2	He	12138.461	12138.461	1.70	80986090	0.01	200000	
Co	59	2	He	100.369	100.369	1.25	946231	0.01	2000	
Ni	60	2	He	100.826	100.826	1.57	237737	0.04	2000	
Cu	63	2	He	102.156	102.156	1.27	612442	0.02	2000	
Zn	66	2	He	99.594	99.594	1.73	129126	0.08	2000	
As	75	2	He	98.259	98.259	0.94	93536	0.11	2000	
Sb	121	2	He	96.361	96.361	1.65	470147	0.02	2000	
Se	78	2	He	99.623	99.623	3.05	8533	1.17	2000	
Ti	47	2	He	103.370	103.370	1.02	27589	0.37	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	2319430	1.79	2222435	104.36	70	120	
In	115	1	nogas	2550295	1.91	2487358	102.53	70	120	
Li	6	1	nogas	1107795	0.20	1125226	98.45	70	120	
Bi	209	1	nogas	2307742	2.66	2305146	100.11	70	120	

Sample Report

Ge	72	2	He	665707	1.02	633162	105.14	70	120	
In	115	2	He	923628	0.49	884304	104.45	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	323_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T22:59:36-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	94.103	1.052	559875	1.82	100	94.1	90	110	
B	11	1	nogas	465.552	1.583	1927546	2.30	500	93.1	90	110	
Al	27	1	nogas	104.880	1.496	1861474	1.98	100	104.9	90	110	
P	31	1	nogas	1259.891	1.316	185787	1.46	500	252.0	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	100.165	2.009	166919	2.54	100	100.2	90	110	
Ni	60	1	nogas	100.115	0.263	470037	0.44	100	100.1	90	110	
Cu	63	1	nogas	100.200	0.907	1113776	1.43	100	100.2	90	110	
Zn	66	1	nogas	99.119	0.255	346762	0.36	100	99.1	90	110	
Se	77	1	nogas	88.093	4.253	17701	2.94	100	88.1	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	98.827	0.902	19476	1.18	100	98.8	90	110	
Sr	88	1	nogas	94.704	0.904	2740955	1.67	100	94.7	90	110	
Mo	95	1	nogas	98.661	0.269	583602	1.38	100	98.7	90	110	
Ag	107	1	nogas	107.268	0.468	1401577	1.44	100	107.3	90	110	
Cd	111	1	nogas	97.582	1.521	281555	2.54	100	97.6	90	110	
Sn	118	1	nogas	97.854	0.856	864042	1.45	100	97.9	90	110	
Sb	121	1	nogas	97.412	1.108	1252050	1.53	100	97.4	90	110	
Ba	137	1	nogas	98.238	0.894	423689	2.00	100	98.2	90	110	
Tl	205	1	nogas	99.623	4.698	2700935	2.25	100	99.6	90	110	
Pb	208	1	nogas	97.436	4.593	3661280	2.15	100	97.4	90	110	
U	238	1	nogas	91.766	4.197	4168783	1.71	100	91.8	90	110	
Li	7	1	nogas	94.441	0.372	1722039	0.51	100	94.4	90	110	
Ba	135	1	nogas	97.152	1.441	240297	1.14	100	97.2	90	110	
Tl	203	1	nogas	98.158	3.464	1110457	0.98	100	98.2	90	110	
Na	23	2	He	9745.026	0.185	19089525	0.28	10000	97.5	90	110	
Mg	24	2	He	9832.940	0.278	10584567	0.27	10000	98.3	90	110	
Al	27	2	He	103.277	1.969	66694	2.18	100	103.3	90	110	
K	39	2	He	10120.746	1.073	11038892	1.01	10000	101.2	90	110	
Ca	43	2	He	9954.179	2.302	28951	1.99	10000	99.5	90	110	
Ca	44	2	He	9798.956	0.906	470038	0.54	10000	98.0	90	110	
V	51	2	He	98.058	0.502	639065	0.63	100	98.1	90	110	
Cr	52	2	He	98.808	1.504	729792	1.08	100	98.8	90	110	
Mn	55	2	He	99.876	0.968	528052	0.79	100	99.9	90	110	
Fe	56	2	He	10036.811	1.444	68300011	1.39	10000	100.4	90	110	
Co	59	2	He	99.527	1.074	956914	1.00	100	99.5	90	110	
Ni	60	2	He	101.348	0.693	243708	0.27	100	101.3	90	110	
Cu	63	2	He	99.815	0.469	610302	0.67	100	99.8	90	110	
Zn	66	2	He	98.762	0.673	130598	0.24	100	98.8	90	110	
As	75	2	He	97.243	1.286	94406	1.57	100	97.2	90	110	
Sb	121	2	He	97.685	0.788	486077	0.89	100	97.7	90	110	
Se	78	2	He	98.079	1.056	8570	0.62	100	98.1	90	110	
Ti	47	2	He	98.713	2.616	26871	2.82	100	98.7	90	110	
Zr	90	1	nogas	88.178	2.176	1677139	2.60	100	88.2	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2374623	0.60	2222435	106.85	70	120	
In	115	1	nogas	2610432	1.12	2487358	104.95	70	120	
Li	6	1	nogas	1074275	0.83	1125226	95.47	70	120	
Bi	209	1	nogas	2380382	2.56	2305146	103.26	70	120	
Ge	72	2	He	678877	0.42	633162	107.22	70	120	
In	115	2	He	934627	0.81	884304	105.69	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	324_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:02:01-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.051	23.0	392	18.6	2.5	
B	11	1	nogas	11.300	7.2	130023	2.9	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.729	-7.0	70090	2.9	5	
P	31	1	nogas	-11.564	-60.1	45906	1.7	2.5	
Ti	47	1	nogas	0.205	18.9	543	11.8	2.5	
Ni	60	1	nogas	-0.005	-711.9	930	19.7	2.5	
Cu	63	1	nogas	0.021	33.3	1843	4.1	5	
Zn	66	1	nogas	0.267	23.3	3607	6.0	2.5	
Se	77	1	nogas	-15.358	-7.6	2437	7.0	2.5	
Se	82	1	nogas	0.386	51.0	397	9.5	5	
Sr	88	1	nogas	0.026	25.4	2524	8.5	2.5	
Mo	95	1	nogas	0.573	31.0	3644	28.6	2.5	
Ag	107	1	nogas	0.065	21.5	950	18.6	2.5	
Cd	111	1	nogas	0.050	7.8	148	7.0	2.5	
Sn	118	1	nogas	0.719	9.9	8916	7.4	2.5	
Sb	121	1	nogas	1.134	11.6	15709	10.6	2	
Ba	137	1	nogas	-0.013	-226.5	390	33.3	2.5	
Tl	205	1	nogas	0.503	64.3	14034	67.0	2.5	
Pb	208	1	nogas	0.051	18.5	2817	16.1	2.5	
U	238	1	nogas	0.056	31.7	2954	31.3	2.5	
Na	23	2	He	-89.107	-1.9	179172	0.7	100	
Mg	24	2	He	2.387	8.8	4924	3.9	100	
Al	27	2	He	-1.627	-24.3	2647	8.3	5	
K	39	2	He	-4.658	-24.4	91017	1.0	100	
Ca	43	2	He	3.170	351.6	77	41.9	100	
Ca	44	2	He	-9.415	-27.7	1417	8.7	100	
V	51	2	He	-0.052	-80.1	2047	12.1	2.5	
Cr	52	2	He	-0.244	-31.8	7615	6.6	2.5	
Mn	55	2	He	0.047	86.5	973	22.1	2.5	
Fe	56	2	He	4.762	2.3	54646	2.5	100	
Co	59	2	He	0.050	14.5	540	13.0	2.5	
Ni	60	2	He	0.031	113.4	393	20.6	2.5	
Cu	63	2	He	0.048	34.3	950	11.0	5	
Zn	66	2	He	0.161	112.6	1257	18.8	2.5	
As	75	2	He	0.104	11.2	286	2.9	2.5	
Sb	121	2	He	0.804	13.9	4464	13.5	2	
Se	78	2	He	0.323	7.9	109	2.1	5	
Ti	47	2	He	0.178	34.0	80	21.7	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	2385080	0.13	2222435	107.32	70	120	
In	115	1	nogas	2607570	0.82	2487358	104.83	70	120	
Li	6	1	nogas	1134362	0.48	1125226	100.81	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2386568	3.36	2305146	103.53	70	120	
Ge	72	2	He	674047	1.13	633162	106.46	70	120	
In	115	2	He	943298	0.27	884304	106.67	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSA
Data File Name	325ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:04:28-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.039	16.874	282	13.09	2	2.0	100	50	
B	11	1	nogas	14.890	3.415	127790	1.51	20	74.5	100	50	ICSA Main CR1 Failed
Al	27	1	nogas	102601.931	1.454	1592370163	1.16	10	1026019.3	100	0	
P	31	1	nogas	909451.580	0.750	92574465	1.16	20	4547257.9	100	50	ICSA Main CR1 FailedICSA Main CR2 Failed
Ti	47	1	nogas	2147.574	0.540	3301258	1.71	5	42951.5	100	50	ICSA Main CR1 Failed
Ni	60	1	nogas	1.629	5.452	7926	3.69	5	32.6	100	50	
Cu	63	1	nogas	1.199	6.321	13777	6.54	2	59.9	100	50	
Zn	66	1	nogas	3.841	3.328	14774	3.05	5	76.8	100	50	ICSA Main CR1 Failed
Se	77	1	nogas	8.655	21.310	5514	4.19	5	173.1	100	50	ICSA Main CR1 Failed
Se	82	1	nogas	0.077	558.725	310	25.61	2	3.9	100	50	
Sr	88	1	nogas	0.946	2.179	25566	1.76	5	18.9	100	50	
Mo	95	1	nogas	2275.211	1.207	11812432	1.33	5	45504.2	100	50	ICSA Main CR1 Failed
Ag	107	1	nogas	0.043	10.561	583	8.80	5	0.9	100	50	
Cd	111	1	nogas	0.737	6.948	1871	7.72	2	36.8	100	50	
Sn	118	1	nogas	0.644	1.495	7259	1.04	10	6.4	100	50	
Sb	121	1	nogas	0.460	5.896	6445	4.80	4	11.5	100	50	
Ba	137	1	nogas	0.749	7.932	3227	6.33	5	15.0	100	50	
Tl	205	1	nogas	0.052	2.960	1343	5.78	2	2.6	100	50	
Pb	208	1	nogas	0.912	6.097	30147	2.26	5	18.2	100	50	
U	238	1	nogas	0.009	28.022	667	17.06	5	0.2	0	50	
Li	7	1	nogas	0.592	6.228	80619	0.75		#DIV/0!	0	50	
Ba	135	1	nogas	0.753	5.550	1893	4.49		#DIV/0!	0	50	
Tl	203	1	nogas	0.039	1.126	463	3.30		#DIV/0!	0	50	
Na	23	2	He	107458.168	0.607	186787697	0.25	200	53729.1	100	0	
Mg	24	2	He	105123.182	0.335	102105795	0.88	200	52561.6	100	0	
Al	27	2	He	107545.185	1.700	59236356	1.10	10	1075451.8	100	0	
K	39	2	He	109685.633	1.133	107109405	0.74	200	54842.8	100	0	
Ca	43	2	He	100918.312	1.088	264343	0.97	200	50459.2	100	0	
Ca	44	2	He	107170.684	6.897	4622839	6.94	200	53585.3	100	0	
V	51	2	He	0.354	12.939	4238	6.60	5	7.1	100	50	
Cr	52	2	He	0.853	7.097	14143	3.36	5	17.1	100	50	
Mn	55	2	He	1.511	5.358	7859	4.93	5	30.2	100	50	
Fe	56	2	He	106911.727	1.181	656384724	1.03	200	53455.9	100	50	ICSA Main CR1 Failed
Co	59	2	He	1.095	2.992	9560	3.38	5	21.9	100	50	
Ni	60	2	He	1.247	6.323	2994	5.75	5	24.9	100	50	
Cu	63	2	He	0.800	1.533	5011	1.74	2	40.0	100	50	
Zn	66	2	He	3.367	5.534	4938	4.16	5	67.3	100	50	ICSA Main CR1 Failed
As	75	2	He	0.449	15.289	561	10.70	5	9.0	100	50	
Sb	121	2	He	0.477	9.014	2590	7.75	4	11.9	100	50	
Se	78	2	He	0.279	78.962	95	17.84	2	14.0	100	50	
Ti	47	2	He	2108.009	1.329	517243	0.89	5	42160.2	100	50	ICSA Main CR1 Failed
Cr	52	1	nogas	0.704	5.939	25238	4.53		#DIV/0!	0	50	
Mn	55	1	nogas	0.992	3.047	34557	2.52		#DIV/0!	0	50	
Co	59	1	nogas	1.007	4.054	20060	4.08		#DIV/0!	0	50	
V	51	1	nogas	0.197	31.893	4766	29.96		#DIV/0!	0	50	
Fe	56	1	nogas	105070.076	0.751	2315853619	1.82		#DIV/0!	0	50	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2193049	1.33	2222435	98.68	70	120	
In	115	1	nogas	2292205	0.77	2487358	92.15	70	120	
Li	6	1	nogas	999195	0.24	1125226	88.80	70	120	
Bi	209	1	nogas	2042457	3.84	2305146	88.60	70	120	
Ge	72	2	He	612683	0.64	633162	96.77	70	120	
In	115	2	He	808635	0.82	884304	91.44	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	326ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:06:53-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	93.024	1.130	480426	1.71	100	93.0	80	120	
B	11	1	nogas	511.660	1.779	1832065	1.90	100	511.7	80	120	ICSB Main CR1 Failed
Al	27	1	nogas	101307.723	1.016	1559697950	1.21	100100	101.2	80	120	
Ti	47	1	nogas	2246.276	0.775	3425006	1.27	2100	107.0	80	120	
Ni	60	1	nogas	94.669	0.751	407265	2.20	100	94.7	80	120	
Cu	63	1	nogas	93.231	0.893	949545	2.35	100	93.2	80	120	
Zn	66	1	nogas	99.236	0.287	318059	1.79	100	99.2	80	120	
Se	77	1	nogas	112.259	1.878	19486	2.26	100	112.3	80	120	
Se	82	1	nogas	101.280	0.850	18278	1.70	100	101.3	80	120	
Sr	88	1	nogas	99.450	0.871	2522889	1.84	100	99.5	80	120	
Mo	95	1	nogas	2348.958	1.294	12174440	2.22	2100	111.9	80	120	
Ag	107	1	nogas	108.561	1.050	1243359	1.88	100	108.6	80	120	
Cd	111	1	nogas	97.941	1.092	247686	1.97	100	97.9	80	120	
Sn	118	1	nogas	99.834	0.250	772739	2.38	100	99.8	80	120	
Sb	121	1	nogas	96.860	0.481	1140554	1.95	100	96.9	80	120	
Ba	137	1	nogas	101.015	1.032	381857	1.96	100	101.0	80	120	
Tl	205	1	nogas	100.204	4.752	2331773	3.36	100	100.2	80	120	
Pb	208	1	nogas	98.960	3.242	3192202	2.19	100	99.0	80	120	
U	238	1	nogas	93.568	3.961	3648535	2.84	100	93.6	80	120	
Li	7	1	nogas	98.817	0.773	1561027	0.92	100	98.8	80	120	
Na	23	2	He	112205.076	0.323	198104704	0.83	110000	102.0	80	120	
Mg	24	2	He	109591.617	0.382	108124708	1.05	110000	99.6	80	120	
Al	27	2	He	103674.091	0.868	58013946	2.02	100100	103.6	80	120	
K	39	2	He	114638.353	0.955	113719668	1.92	110000	104.2	80	120	
Ca	43	2	He	108435.041	0.700	288509	0.84	110000	98.6	80	120	
Ca	44	2	He	120492.518	1.354	5278839	0.67	110000	109.5	80	120	
V	51	2	He	98.277	1.492	587232	2.59	100	98.3	80	120	
Cr	52	2	He	96.298	0.380	652307	1.48	100	96.3	80	120	
Mn	55	2	He	98.181	1.147	475934	2.26	100	98.2	80	120	
Fe	56	2	He	112008.420	0.870	698595883	1.99	110000	101.8	80	120	
Co	59	2	He	95.239	0.334	839488	1.43	100	95.2	80	120	
Ni	60	2	He	93.058	1.262	205154	0.71	100	93.1	80	120	
Cu	63	2	He	92.297	1.473	517342	0.54	100	92.3	80	120	
Zn	66	2	He	97.034	1.326	117653	1.96	100	97.0	80	120	
As	75	2	He	99.728	1.395	88745	0.77	100	99.7	80	120	
Sb	121	2	He	97.356	0.873	444083	0.60	100	97.4	80	120	
Se	78	2	He	101.776	2.170	8149	1.46	100	101.8	80	120	
Ti	47	2	He	2151.671	1.133	536359	2.22	100	2151.7	80	120	ICSB Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2175445	1.52	2222435	97.89	70	120	
In	115	1	nogas	2288482	2.46	2487358	92.00	70	120	
Li	6	1	nogas	932586	1.57	1125226	82.88	70	120	
Bi	209	1	nogas	2042524	1.93	2305146	88.61	70	120	
Ge	72	2	He	622359	1.15	633162	98.29	70	120	
In	115	2	He	821795	1.40	884304	92.93	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	331_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:19:07-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	95.236	0.535	530070	1.10	100	95.2	90	110	
B	11	1	nogas	465.453	0.868	1802836	1.49	500	93.1	90	110	
Al	27	1	nogas	104.190	0.472	1763236	1.18	100	104.2	90	110	
P	31	1	nogas	1193.876	0.808	170173	2.07	500	238.8	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	99.725	0.444	158401	1.23	100	99.7	90	110	
Ni	60	1	nogas	99.128	1.190	443711	2.70	100	99.1	90	110	
Cu	63	1	nogas	99.823	0.363	1057738	1.98	100	99.8	90	110	
Zn	66	1	nogas	98.633	0.051	328947	1.57	100	98.6	90	110	
Se	77	1	nogas	87.974	1.548	16856	1.42	100	88.0	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	100.576	1.286	18889	1.96	100	100.6	90	110	
Sr	88	1	nogas	93.348	0.706	2616566	1.30	100	93.3	90	110	
Mo	95	1	nogas	98.135	0.891	562178	0.88	100	98.1	90	110	
Ag	107	1	nogas	106.424	1.207	1346614	0.29	100	106.4	90	110	
Cd	111	1	nogas	97.968	0.553	273753	1.77	100	98.0	90	110	
Sn	118	1	nogas	98.758	0.400	844523	1.08	100	98.8	90	110	
Sb	121	1	nogas	99.978	0.883	1224812	1.10	100	100.0	90	110	
Ba	137	1	nogas	98.058	0.332	409574	1.38	100	98.1	90	110	
Tl	205	1	nogas	99.418	3.561	2621848	1.28	100	99.4	90	110	
Pb	208	1	nogas	97.513	3.462	3564174	1.13	100	97.5	90	110	
U	238	1	nogas	92.023	5.032	4065224	2.88	100	92.0	90	110	
Li	7	1	nogas	94.953	0.349	1619421	1.04	100	95.0	90	110	
Ba	135	1	nogas	97.451	0.569	233480	2.00	100	97.5	90	110	
Tl	203	1	nogas	97.749	4.766	1075248	2.56	100	97.7	90	110	
Na	23	2	He	9482.102	1.209	17985615	1.34	10000	94.8	90	110	
Mg	24	2	He	9548.768	0.579	9947564	0.06	10000	95.5	90	110	
Al	27	2	He	102.764	1.680	64238	1.09	100	102.8	90	110	
K	39	2	He	9911.720	0.536	10464884	0.95	10000	99.1	90	110	
Ca	43	2	He	9676.839	0.038	27241	0.49	10000	96.8	90	110	
Ca	44	2	He	9653.939	0.336	448206	0.66	10000	96.5	90	110	
V	51	2	He	97.427	0.164	614516	0.46	100	97.4	90	110	
Cr	52	2	He	97.754	0.229	698886	0.74	100	97.8	90	110	
Mn	55	2	He	97.592	0.749	499395	1.16	100	97.6	90	110	
Fe	56	2	He	9961.918	0.226	65607884	0.54	10000	99.6	90	110	
Co	59	2	He	98.119	0.200	913014	0.65	100	98.1	90	110	
Ni	60	2	He	98.311	0.582	228802	0.55	100	98.3	90	110	
Cu	63	2	He	98.056	0.525	580244	0.38	100	98.1	90	110	
Zn	66	2	He	97.514	0.165	124810	0.65	100	97.5	90	110	
As	75	2	He	96.949	0.665	91090	1.13	100	96.9	90	110	
Sb	121	2	He	97.643	0.506	470225	1.03	100	97.6	90	110	
Se	78	2	He	97.560	1.324	8251	1.84	100	97.6	90	110	
Ti	47	2	He	96.646	2.545	25458	2.02	100	96.6	90	110	
Zr	90	1	nogas	85.936	0.159	1583018	1.30	100	85.9	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2263631	1.62	2222435	101.85	70	120	
In	115	1	nogas	2528290	1.45	2487358	101.65	70	120	
Li	6	1	nogas	1005016	0.71	1125226	89.32	70	120	
Bi	209	1	nogas	2314904	2.41	2305146	100.42	70	120	
Ge	72	2	He	657013	0.53	633162	103.77	70	120	
In	115	2	He	909627	0.56	884304	102.86	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	332_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:21:34-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.053	16.8	385	13.7	2.5	
B	11	1	nogas	8.002	10.2	110311	3.0	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.111	-5.9	76557	1.1	5	
P	31	1	nogas	-54.418	-21.9	39137	2.8	2.5	
Ti	47	1	nogas	0.310	18.9	683	13.6	2.5	
Ni	60	1	nogas	0.002	262.2	917	2.3	2.5	
Cu	63	1	nogas	0.034	28.5	1893	5.1	5	
Zn	66	1	nogas	0.291	27.2	3507	7.1	2.5	
Se	77	1	nogas	-15.191	-10.4	2340	9.2	2.5	
Se	82	1	nogas	0.365	66.5	373	12.1	5	
Sr	88	1	nogas	0.023	10.8	2320	3.3	2.5	
Mo	95	1	nogas	0.725	17.2	4367	16.5	2.5	
Ag	107	1	nogas	0.061	17.9	867	15.7	2.5	
Cd	111	1	nogas	0.045	36.5	128	35.8	2.5	
Sn	118	1	nogas	0.683	17.3	8269	12.3	2.5	
Sb	121	1	nogas	1.214	10.5	15912	9.5	2	
Ba	137	1	nogas	-0.010	-112.9	390	11.2	2.5	
Tl	205	1	nogas	0.480	59.9	13215	63.4	2.5	
Pb	208	1	nogas	0.053	10.5	2874	11.4	2.5	
U	238	1	nogas	0.058	26.9	2990	27.8	2.5	
Na	23	2	He	-108.599	-1.4	136666	1.2	100	
Mg	24	2	He	3.211	12.1	5588	6.8	100	
Al	27	2	He	-1.047	-14.0	2887	2.5	5	
K	39	2	He	-3.021	-33.3	89314	1.0	100	
Ca	43	2	He	-0.570	-755.8	63	18.2	100	
Ca	44	2	He	-9.705	-26.1	1350	7.8	100	
V	51	2	He	-0.068	-13.6	1869	3.8	2.5	
Cr	52	2	He	-0.273	-5.6	7132	2.3	2.5	
Mn	55	2	He	0.032	39.1	860	8.1	2.5	
Fe	56	2	He	5.970	5.0	60458	3.5	100	
Co	59	2	He	0.047	5.1	490	5.4	2.5	
Ni	60	2	He	0.052	49.5	427	12.9	2.5	
Cu	63	2	He	0.044	10.6	893	2.8	5	
Zn	66	2	He	0.142	18.2	1187	3.2	2.5	
As	75	2	He	0.077	3.6	250	0.0	2.5	
Sb	121	2	He	0.884	5.9	4674	5.7	2	
Se	78	2	He	0.316	11.1	104	1.9	5	
Ti	47	2	He	0.190	34.0	80	21.7	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	2267836	0.46	2222435	102.04	70	120	
In	115	1	nogas	2507715	0.37	2487358	100.82	70	120	
Li	6	1	nogas	1076986	0.14	1125226	95.71	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2344980	4.24	2305146	101.73	70	120	
Ge	72	2	He	648892	1.02	633162	102.48	70	120	
In	115	2	He	907187	0.80	884304	102.59	70	120	

Sample Report

Sample Table

Sample Name	HS24061313-01
Data File Name	333SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:24:01-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	216CALB.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	0.070	0.070	11.37	472	0.01	2000	
B	11	1	nogas	24.666	24.666	1.54	171480	0.01	2000	
Al	27	1	nogas	25.857	25.857	2.42	495629	0.01	2000	
Ti	47	1	nogas	2.486	2.486	2.50	4031	0.06	2000	
Ni	60	1	nogas	12.358	12.358	0.96	54676	0.02	2000	
Cu	63	1	nogas	0.916	0.916	5.53	10941	0.01	2000	
Zn	66	1	nogas	4.617	4.617	0.69	17364	0.03	2000	
Se	77	1	nogas	-1.199	-1.199	-42.80	4197	-0.03	2000	
Se	82	1	nogas	-0.003	-0.003	-7157.27	297	0.00	2000	
Sr	88	1	nogas	122.883	122.883	1.46	3364937	0.00	2000	
Mo	95	1	nogas	2.320	2.320	6.63	13226	0.02	2000	
Ag	107	1	nogas	0.035	0.035	23.74	540	0.01	2000	
Cd	111	1	nogas	0.145	0.145	24.31	400	0.04	2000	
Sn	118	1	nogas	0.682	0.682	2.02	8139	0.01	2000	
Sb	121	1	nogas	0.528	0.528	9.32	7295	0.01	2000	
Ba	137	1	nogas	109.207	109.207	2.02	445659	0.02	2000	
Tl	205	1	nogas	0.051	0.051	5.73	1487	0.00	2000	
Pb	208	1	nogas	0.202	0.202	8.16	8184	0.00	2000	
U	238	1	nogas	0.038	0.038	9.74	2027	0.00	2000	
Na	23	2	He	25873.344	25873.344	1.27	47303986	0.05	200000	
Mg	24	2	He	3221.492	3221.492	0.53	3275618	0.10	200000	
Al	27	2	He	25.653	25.653	1.90	18238	0.14	2000	
K	39	2	He	2126.797	2126.797	1.58	2262287	0.09	200000	
Ca	43	2	He	6663.980	6663.980	1.03	18321	36.37	200000	
Ca	44	2	He	6463.475	6463.475	1.56	293327	2.20	200000	
V	51	2	He	0.598	0.598	37.05	5926	0.01	2000	
Cr	52	2	He	7.358	7.358	2.87	59571	0.01	2000	
Mn	55	2	He	94.135	94.135	0.18	469963	0.02	2000	
Fe	56	2	He	7082.611	7082.611	0.88	45512641	0.02	200000	
Co	59	2	He	0.196	0.196	2.38	1840	0.01	2000	
Ni	60	2	He	12.273	12.273	1.61	28133	0.04	2000	
Cu	63	2	He	0.872	0.872	0.51	5658	0.02	2000	
Zn	66	2	He	4.486	4.486	0.80	6552	0.07	2000	
As	75	2	He	0.261	0.261	12.44	416	0.06	2000	
Sb	121	2	He	0.501	0.501	9.45	2820	0.02	2000	
Se	78	2	He	0.372	0.372	43.68	107	0.35	2000	
Ti	47	2	He	2.128	2.128	12.15	577	0.37	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	2206145	1.56	2222435	99.27	70	120	
In	115	1	nogas	2470569	2.03	2487358	99.33	70	120	
Li	6	1	nogas	1045386	0.66	1125226	92.90	70	120	
Bi	209	1	nogas	2296674	2.54	2305146	99.63	70	120	

Sample Report

Ge	72	2	He	640974	0.47	633162	101.23	70	120	
In	115	2	He	896510	0.75	884304	101.38	70	120	

Sample Report

Sample Table

Sample Name	HS24061313-01SD
Data File Name	334SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:26:29-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 214363
ISTD Ref FileName	216CALB.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	0.008	0.041	87.06	120	0.01	2000	
B	11	1	nogas	5.622	28.109	8.38	101965	0.01	2000	
Al	27	1	nogas	3.852	19.258	11.17	158692	0.00	2000	
Ti	47	1	nogas	0.545	2.723	12.38	1073	0.05	2000	
Ni	60	1	nogas	2.422	12.111	6.46	11935	0.02	2000	
Cu	63	1	nogas	0.125	0.624	4.10	2900	0.00	2000	
Zn	66	1	nogas	0.856	4.279	11.14	5468	0.02	2000	
Se	77	1	nogas	-10.709	-53.545	-12.13	3020	-0.35	2000	
Se	82	1	nogas	-0.235	-1.173	-112.09	267	-0.09	2000	
Sr	88	1	nogas	24.387	121.936	0.72	694863	0.00	2000	
Mo	95	1	nogas	0.570	2.848	11.16	3564	0.02	2000	
Ag	107	1	nogas	0.009	0.047	52.53	227	0.00	2000	
Cd	111	1	nogas	0.024	0.122	35.49	73	0.03	2000	
Sn	118	1	nogas	0.077	0.385	16.96	3217	0.00	2000	
Sb	121	1	nogas	0.198	0.991	3.18	3510	0.01	2000	
Ba	137	1	nogas	21.716	108.580	1.61	92381	0.02	2000	
Tl	205	1	nogas	0.011	0.054	23.24	463	0.00	2000	
Pb	208	1	nogas	0.032	0.159	13.21	2090	0.00	2000	
U	238	1	nogas	0.008	0.038	39.03	723	0.00	2000	
Na	23	2	He	5089.243	25446.216	0.66	9845400	0.05	200000	
Mg	24	2	He	645.097	3225.484	1.04	676544	0.10	200000	
Al	27	2	He	3.845	19.226	15.11	5835	0.07	2000	
K	39	2	He	414.758	2073.790	1.09	529409	0.08	200000	
Ca	43	2	He	1379.531	6897.653	1.83	3954	34.89	200000	
Ca	44	2	He	1286.522	6432.609	2.41	61518	2.09	200000	
V	51	2	He	0.024	0.121	344.19	2483	0.00	2000	
Cr	52	2	He	1.121	5.607	7.48	17117	0.01	2000	
Mn	55	2	He	19.104	95.521	0.85	98668	0.02	2000	
Fe	56	2	He	1460.012	7300.059	0.64	9667692	0.02	200000	
Co	59	2	He	0.043	0.215	16.84	460	0.01	2000	
Ni	60	2	He	2.677	13.383	4.92	6555	0.04	2000	
Cu	63	2	He	0.142	0.709	10.33	1487	0.01	2000	
Zn	66	2	He	0.808	4.039	19.68	2054	0.04	2000	
As	75	2	He	0.011	0.056	278.47	192	0.01	2000	
Sb	121	2	He	0.175	0.874	18.29	1327	0.01	2000	
Se	78	2	He	0.113	0.564	75.93	89	0.13	2000	
Ti	47	2	He	0.501	2.505	42.01	163	0.31	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	2303994	0.33	2222435	103.67	70	120	
In	115	1	nogas	2565267	1.01	2487358	103.13	70	120	
Li	6	1	nogas	1089217	1.52	1125226	96.80	70	120	
Bi	209	1	nogas	2380303	3.49	2305146	103.26	70	120	

Sample Report

Ge	72	2	He	659309	0.48	633162	104.13	70	120	
In	115	2	He	927490	0.70	884304	104.88	70	120	

Sample Report

Sample Table

Sample Name	HS24061313-01PDS
Data File Name	337SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:33:52-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	216CALB.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	89.335	89.335	0.86	515647	0.02	2000	
B	11	1	nogas	18.417	18.417	3.25	146874	0.01	2000	
Al	27	1	nogas	115.688	115.688	1.16	1937446	0.01	2000	
Ti	47	1	nogas	100.945	100.945	1.39	159549	0.06	2000	
Ni	60	1	nogas	105.799	105.799	0.59	471056	0.02	2000	
Cu	63	1	nogas	95.922	95.922	1.05	1011194	0.01	2000	
Zn	66	1	nogas	96.939	96.939	0.59	321722	0.03	2000	
Se	77	1	nogas	95.114	95.114	1.16	17771	0.54	2000	
Se	82	1	nogas	93.038	93.038	1.73	17410	0.53	2000	
Sr	88	1	nogas	118.671	118.671	0.21	3268259	0.00	2000	
Mo	95	1	nogas	98.191	98.191	0.62	552779	0.02	2000	
Ag	107	1	nogas	108.850	108.850	1.00	1353426	0.01	2000	
Cd	111	1	nogas	95.104	95.104	0.25	261128	0.04	2000	
Sn	118	1	nogas	0.961	0.961	10.25	10511	0.01	2000	
Sb	121	1	nogas	92.745	92.745	1.36	1130686	0.01	2000	
Ba	137	1	nogas	203.426	203.426	0.72	834551	0.02	2000	
Tl	205	1	nogas	96.826	96.826	3.58	2478028	0.00	2000	
Pb	208	1	nogas	96.333	96.333	3.43	3417083	0.00	2000	
U	238	1	nogas	0.062	0.062	4.72	2994	0.00	2000	
Na	23	2	He	34032.706	34032.706	1.22	62829536	0.05	200000	
Mg	24	2	He	13018.366	13018.366	1.62	13382010	0.10	200000	
Al	27	2	He	112.204	112.204	1.73	68895	0.16	2000	
K	39	2	He	12208.414	12208.414	0.32	12697707	0.10	200000	
Ca	43	2	He	15727.796	15727.796	1.60	43650	36.03	200000	
Ca	44	2	He	15510.636	15510.636	0.13	709502	2.19	200000	
V	51	2	He	95.493	95.493	0.48	594393	0.02	2000	
Cr	52	2	He	103.110	103.110	0.35	726933	0.01	2000	
Mn	55	2	He	183.955	183.955	0.46	928248	0.02	2000	
Fe	56	2	He	16707.281	16707.281	0.61	108560992	0.02	200000	
Co	59	2	He	95.203	95.203	0.32	874161	0.01	2000	
Ni	60	2	He	107.231	107.231	0.45	246235	0.04	2000	
Cu	63	2	He	96.470	96.470	0.89	563324	0.02	2000	
Zn	66	2	He	96.069	96.069	2.34	121348	0.08	2000	
As	75	2	He	94.453	94.453	1.17	87572	0.11	2000	
Sb	121	2	He	92.191	92.191	1.02	438112	0.02	2000	
Se	78	2	He	92.290	92.290	2.03	7706	1.20	2000	
Ti	47	2	He	96.416	96.416	2.28	25064	0.38	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	2252160	1.54	2222435	101.34	70	120	
In	115	1	nogas	2484420	1.62	2487358	99.88	70	120	
Li	6	1	nogas	1042290	1.13	1125226	92.63	70	120	
Bi	209	1	nogas	2246389	2.22	2305146	97.45	70	120	

Sample Report

Ge	72	2	He	648321	0.20	633162	102.39	70	120	
In	115	2	He	900298	0.08	884304	101.81	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	338_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:36:20-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	94.694	0.562	534029	1.09	100	94.7	90	110	
B	11	1	nogas	459.777	1.081	1805291	1.40	500	92.0	90	110	
Al	27	1	nogas	101.877	0.781	1756214	1.08	100	101.9	90	110	
P	31	1	nogas	1196.560	1.302	173400	0.88	500	239.3	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	99.148	1.004	160219	0.65	100	99.1	90	110	
Ni	60	1	nogas	100.019	0.572	455414	1.15	100	100.0	90	110	
Cu	63	1	nogas	99.123	1.389	1068426	0.44	100	99.1	90	110	
Zn	66	1	nogas	98.679	0.675	334806	0.97	100	98.7	90	110	
Se	77	1	nogas	88.773	3.937	17270	4.37	100	88.8	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	96.347	3.894	18418	3.11	100	96.3	90	110	
Sr	88	1	nogas	94.910	1.187	2662363	1.92	100	94.9	90	110	
Mo	95	1	nogas	97.492	1.989	558950	2.56	100	97.5	90	110	
Ag	107	1	nogas	106.064	0.885	1343116	1.01	100	106.1	90	110	
Cd	111	1	nogas	96.837	1.832	270761	1.67	100	96.8	90	110	
Sn	118	1	nogas	98.064	2.002	839229	2.33	100	98.1	90	110	
Sb	121	1	nogas	98.030	1.286	1221843	1.00	100	98.0	90	110	
Ba	137	1	nogas	98.048	1.263	409804	1.24	100	98.0	90	110	
Tl	205	1	nogas	99.785	4.788	2647306	2.25	100	99.8	90	110	
Pb	208	1	nogas	97.429	5.032	3582299	2.52	100	97.4	90	110	
U	238	1	nogas	91.008	4.654	4045505	2.20	100	91.0	90	110	
Li	7	1	nogas	94.491	0.318	1633192	0.51	100	94.5	90	110	
Ba	135	1	nogas	97.737	0.873	234306	0.89	100	97.7	90	110	
Tl	203	1	nogas	98.425	5.419	1089244	2.89	100	98.4	90	110	
Na	23	2	He	9788.041	1.778	18542386	1.87	10000	97.9	90	110	
Mg	24	2	He	9874.260	1.224	10279675	1.18	10000	98.7	90	110	
Al	27	2	He	102.824	0.999	64234	1.19	100	102.8	90	110	
K	39	2	He	10160.719	1.661	10718028	1.72	10000	101.6	90	110	
Ca	43	2	He	9743.118	0.893	27408	0.75	10000	97.4	90	110	
Ca	44	2	He	9747.528	1.440	452202	0.88	10000	97.5	90	110	
V	51	2	He	98.767	0.680	622508	0.46	100	98.8	90	110	
Cr	52	2	He	99.355	0.649	709694	0.65	100	99.4	90	110	
Mn	55	2	He	100.165	0.861	512171	0.26	100	100.2	90	110	
Fe	56	2	He	10234.157	1.682	67348862	0.75	10000	102.3	90	110	
Co	59	2	He	99.945	0.466	929367	0.67	100	99.9	90	110	
Ni	60	2	He	99.904	1.273	232335	0.37	100	99.9	90	110	
Cu	63	2	He	99.468	1.208	588164	0.31	100	99.5	90	110	
Zn	66	2	He	98.497	0.822	125979	1.67	100	98.5	90	110	
As	75	2	He	98.426	0.485	92410	0.73	100	98.4	90	110	
Sb	121	2	He	97.811	1.483	470676	0.80	100	97.8	90	110	
Se	78	2	He	95.943	0.949	8110	0.89	100	95.9	90	110	
Ti	47	2	He	97.972	0.679	25792	0.93	100	98.0	90	110	
Zr	90	1	nogas	86.859	1.393	1601244	2.22	100	86.9	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2303040	1.57	2222435	103.63	70	120	
In	115	1	nogas	2530021	0.86	2487358	101.72	70	120	
Li	6	1	nogas	1018326	0.78	1125226	90.50	70	120	
Bi	209	1	nogas	2329414	2.61	2305146	101.05	70	120	
Ge	72	2	He	656580	0.93	633162	103.70	70	120	
In	115	2	He	898855	0.54	884304	101.65	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	339_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:38:48-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.053	3.0	397	2.9	2.5	
B	11	1	nogas	3.510	24.9	94589	4.2	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.682	-2.8	68104	1.7	5	
P	31	1	nogas	-37.156	-13.7	41380	1.5	2.5	
Ti	47	1	nogas	0.177	49.8	477	29.7	2.5	
Ni	60	1	nogas	-0.010	-358.2	873	19.1	2.5	
Cu	63	1	nogas	0.046	5.1	2040	1.5	5	
Zn	66	1	nogas	0.266	19.8	3460	5.6	2.5	
Se	77	1	nogas	-13.211	-1.4	2647	0.6	2.5	
Se	82	1	nogas	0.273	67.6	360	9.6	5	
Sr	88	1	nogas	0.028	18.2	2530	5.2	2.5	
Mo	95	1	nogas	0.562	22.0	3514	19.9	2.5	
Ag	107	1	nogas	0.063	19.2	920	16.7	2.5	
Cd	111	1	nogas	0.058	36.5	168	35.7	2.5	
Sn	118	1	nogas	0.692	13.0	8529	8.5	2.5	
Sb	121	1	nogas	1.143	14.2	15195	13.3	2	
Ba	137	1	nogas	0.004	537.0	457	20.3	2.5	
Tl	205	1	nogas	0.491	61.6	13563	64.8	2.5	
Pb	208	1	nogas	0.061	15.6	3170	14.1	2.5	
U	238	1	nogas	0.057	26.7	2940	27.3	2.5	
Na	23	2	He	-107.283	-0.8	139380	0.8	100	
Mg	24	2	He	3.180	7.3	5568	4.0	100	
Al	27	2	He	-1.542	-21.3	2604	6.9	5	
K	39	2	He	-2.181	-83.6	90364	1.8	100	
Ca	43	2	He	-3.028	-71.6	57	10.2	100	
Ca	44	2	He	-6.647	-40.6	1493	8.4	100	
V	51	2	He	-0.078	-31.1	1814	7.9	2.5	
Cr	52	2	He	-0.286	-24.0	7052	7.1	2.5	
Mn	55	2	He	0.079	32.8	1100	12.3	2.5	
Fe	56	2	He	5.253	3.7	55904	1.7	100	
Co	59	2	He	0.047	14.7	493	12.9	2.5	
Ni	60	2	He	0.047	7.2	417	1.4	2.5	
Cu	63	2	He	0.060	32.5	987	10.9	5	
Zn	66	2	He	0.225	45.1	1293	10.4	2.5	
As	75	2	He	0.100	31.8	272	11.0	2.5	
Sb	121	2	He	0.821	7.0	4387	6.3	2	
Se	78	2	He	0.466	38.1	117	12.0	5	
Ti	47	2	He	0.112	58.2	60	28.9	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	2291253	0.57	2222435	103.10	70	120	
In	115	1	nogas	2562671	0.74	2487358	103.03	70	120	
Li	6	1	nogas	1102124	0.49	1125226	97.95	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2356735	3.82	2305146	102.24	70	120	
Ge	72	2	He	650212	0.59	633162	102.69	70	120	
In	115	2	He	905579	0.54	884304	102.41	70	120	

Sample Report

Sample Table

Sample Name	HS24061313-03
Data File Name	341SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:43:45-05:00
Sample Type	Sample
Dilution	10
Comment	TW DOD B 214363
ISTD Ref FileName	216CALB.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	0.018	0.178	30.54	178	0.01	2000	
B	11	1	nogas	1.162	11.617	17.98	83970	0.00	2000	
Al	27	1	nogas	12.889	128.890	1.82	303141	0.00	2000	
Ti	47	1	nogas	0.264	2.636	18.78	613	0.04	2000	
Ni	60	1	nogas	0.116	1.163	35.18	1437	0.01	2000	
Cu	63	1	nogas	0.036	0.360	21.42	1927	0.00	2000	
Zn	66	1	nogas	0.792	7.919	4.72	5201	0.02	2000	
Se	77	1	nogas	-4.657	-46.573	-25.75	3851	-0.12	2000	
Se	82	1	nogas	0.421	4.206	106.56	387	0.11	2000	
Sr	88	1	nogas	29.376	293.759	0.86	832151	0.00	2000	
Mo	95	1	nogas	0.095	0.947	22.97	800	0.01	2000	
Ag	107	1	nogas	0.017	0.173	26.07	327	0.01	2000	
Cd	111	1	nogas	0.016	0.163	115.05	49	0.03	2000	
Sn	118	1	nogas	0.175	1.751	3.15	4044	0.00	2000	
Sb	121	1	nogas	0.195	1.950	4.59	3437	0.01	2000	
Ba	137	1	nogas	28.770	287.702	0.78	121578	0.02	2000	
Tl	205	1	nogas	0.015	0.153	22.93	573	0.00	2000	
Pb	208	1	nogas	0.044	0.439	19.07	2500	0.00	2000	
U	238	1	nogas	0.012	0.120	10.05	903	0.00	2000	
Na	23	2	He	3681.286	36812.859	2.67	7180131	0.05	200000	
Mg	24	2	He	943.939	9439.388	1.23	984130	0.10	200000	
Al	27	2	He	13.128	131.275	5.42	11278	0.12	2000	
K	39	2	He	139.204	1392.041	2.35	238927	0.06	200000	
Ca	43	2	He	1719.960	17199.595	4.51	4888	35.19	200000	
Ca	44	2	He	1713.138	17131.381	0.99	80922	2.12	200000	
V	51	2	He	0.113	1.134	24.21	3033	0.00	2000	
Cr	52	2	He	0.065	0.649	35.85	9590	0.00	2000	
Mn	55	2	He	206.860	2068.598	1.38	1056261	0.02	2000	
Fe	56	2	He	3738.677	37386.772	2.43	24599457	0.02	200000	
Co	59	2	He	0.244	2.440	4.39	2327	0.01	2000	
Ni	60	2	He	0.117	1.174	19.93	583	0.02	2000	
Cu	63	2	He	0.074	0.741	3.21	1080	0.01	2000	
Zn	66	2	He	0.758	7.580	8.44	1980	0.04	2000	
As	75	2	He	0.318	3.183	3.86	479	0.07	2000	
Sb	121	2	He	0.168	1.684	6.05	1290	0.01	2000	
Se	78	2	He	0.253	2.529	65.71	100	0.25	2000	
Ti	47	2	He	0.123	1.227	33.99	63	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	2281981	1.10	2222435	102.68	70	120	
In	115	1	nogas	2551435	0.37	2487358	102.58	70	120	
Li	6	1	nogas	1088639	0.53	1125226	96.75	70	120	
Bi	209	1	nogas	2339371	3.59	2305146	101.48	70	120	

Sample Report

Ge	72	2	He	656200	1.61	633162	103.64	70	120	
In	115	2	He	915866	0.29	884304	103.57	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	347_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-04T23:58:45-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	94.615	1.919	536514	1.46	100	94.6	90	110	
B	11	1	nogas	457.202	2.672	1805401	2.02	500	91.4	90	110	
Al	27	1	nogas	103.255	0.549	1766545	1.17	100	103.3	90	110	
P	31	1	nogas	1243.166	3.857	177127	1.54	500	248.6	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	100.136	0.730	160717	1.24	100	100.1	90	110	
Ni	60	1	nogas	98.936	0.438	447450	1.88	100	98.9	90	110	
Cu	63	1	nogas	98.727	0.473	1057012	1.29	100	98.7	90	110	
Zn	66	1	nogas	97.948	0.284	330098	1.61	100	97.9	90	110	
Se	77	1	nogas	92.093	3.818	17617	2.56	100	92.1	90	110	
Se	82	1	nogas	99.415	3.915	18862	2.25	100	99.4	90	110	
Sr	88	1	nogas	93.505	0.800	2622773	1.11	100	93.5	90	110	
Mo	95	1	nogas	96.731	0.961	554526	0.79	100	96.7	90	110	
Ag	107	1	nogas	106.132	0.670	1343975	1.13	100	106.1	90	110	
Cd	111	1	nogas	96.669	0.903	270302	1.39	100	96.7	90	110	
Sn	118	1	nogas	98.249	1.227	840781	1.58	100	98.2	90	110	
Sb	121	1	nogas	96.030	0.819	1188961	2.25	100	96.0	90	110	
Ba	137	1	nogas	96.951	1.344	405239	1.78	100	97.0	90	110	
Tl	205	1	nogas	96.636	5.090	2559205	1.78	100	96.6	90	110	
Pb	208	1	nogas	95.925	5.227	3520752	1.86	100	95.9	90	110	
U	238	1	nogas	90.496	5.541	4014985	2.20	100	90.5	90	110	
Li	7	1	nogas	94.443	1.047	1641434	0.46	100	94.4	90	110	
Ba	135	1	nogas	97.798	1.474	234460	1.93	100	97.8	90	110	
Tl	203	1	nogas	95.749	5.168	1057884	2.17	100	95.7	90	110	
Na	23	2	He	9686.168	1.122	18490242	0.56	10000	96.9	90	110	
Mg	24	2	He	9883.253	1.604	10366198	1.29	10000	98.8	90	110	
Al	27	2	He	101.708	2.095	64050	1.70	100	101.7	90	110	
K	39	2	He	10008.905	0.783	10638556	0.55	10000	100.1	90	110	
Ca	43	2	He	9702.820	6.338	27495	5.79	10000	97.0	90	110	
Ca	44	2	He	9689.132	2.754	452869	2.24	10000	96.9	90	110	
V	51	2	He	97.425	1.666	618679	1.17	100	97.4	90	110	
Cr	52	2	He	98.292	1.508	707455	0.97	100	98.3	90	110	
Mn	55	2	He	98.567	1.617	507788	1.09	100	98.6	90	110	
Fe	56	2	He	10074.280	1.130	66799724	0.81	10000	100.7	90	110	
Co	59	2	He	99.085	0.602	928308	0.90	100	99.1	90	110	
Ni	60	2	He	99.149	0.503	232329	0.53	100	99.1	90	110	
Cu	63	2	He	99.135	0.752	590628	0.30	100	99.1	90	110	
Zn	66	2	He	97.514	0.768	125664	0.98	100	97.5	90	110	
As	75	2	He	96.476	1.211	91261	0.68	100	96.5	90	110	
Sb	121	2	He	95.836	0.505	464678	0.42	100	95.8	90	110	
Se	78	2	He	96.830	2.813	8245	2.47	100	96.8	90	110	
Ti	47	2	He	97.629	3.151	25893	2.63	100	97.6	90	110	
Zr	90	1	nogas	86.694	0.579	1598057	0.92	100	86.7	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2287315	1.61	2222435	102.92	70	120	
In	115	1	nogas	2529932	0.49	2487358	101.71	70	120	
Li	6	1	nogas	1023996	0.66	1125226	91.00	70	120	
Bi	209	1	nogas	2326145	3.64	2305146	100.91	70	120	
Ge	72	2	He	661509	0.54	633162	104.48	70	120	
In	115	2	He	908754	1.26	884304	102.76	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	348_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T00:01:15-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	8.4	375	6.7	2.5	
B	11	1	nogas	2.675	32.0	91933	3.7	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.681	-3.4	69081	1.3	5	
P	31	1	nogas	-28.378	-8.3	42914	0.6	2.5	
Ti	47	1	nogas	0.150	12.3	440	6.8	2.5	
Ni	60	1	nogas	-0.018	-138.9	850	13.3	2.5	
Cu	63	1	nogas	0.030	18.6	1893	3.2	5	
Zn	66	1	nogas	0.352	8.5	3804	2.7	2.5	
Se	77	1	nogas	-10.680	-9.0	3050	4.5	2.5	
Se	82	1	nogas	0.088	524.0	330	26.4	5	
Sr	88	1	nogas	0.033	37.2	2694	12.7	2.5	
Mo	95	1	nogas	0.450	28.2	2887	25.4	2.5	
Ag	107	1	nogas	0.057	9.7	843	8.3	2.5	
Cd	111	1	nogas	0.049	57.5	143	55.9	2.5	
Sn	118	1	nogas	0.615	10.1	7932	6.5	2.5	
Sb	121	1	nogas	0.731	15.6	10231	14.1	2	
Ba	137	1	nogas	0.000	-75105.9	443	20.2	2.5	
Tl	205	1	nogas	0.473	60.5	13048	63.4	2.5	
Pb	208	1	nogas	0.056	20.2	2980	17.8	2.5	
U	238	1	nogas	0.065	30.5	3304	30.9	2.5	
Na	23	2	He	-112.262	-1.6	130444	2.7	100	
Mg	24	2	He	3.018	12.5	5411	7.3	100	
Al	27	2	He	-1.852	-6.3	2427	2.6	5	
K	39	2	He	-3.224	-55.8	89444	2.3	100	
Ca	43	2	He	-9.061	-142.7	40	90.1	100	
Ca	44	2	He	-8.156	-1.8	1427	0.4	100	
V	51	2	He	-0.059	-96.3	1938	18.1	2.5	
Cr	52	2	He	-0.269	-24.9	7185	6.4	2.5	
Mn	55	2	He	0.084	15.7	1123	5.9	2.5	
Fe	56	2	He	4.927	3.5	53880	2.3	100	
Co	59	2	He	0.051	8.5	527	7.7	2.5	
Ni	60	2	He	0.040	84.6	400	19.5	2.5	
Cu	63	2	He	0.038	74.4	860	19.2	5	
Zn	66	2	He	0.200	25.4	1263	5.3	2.5	
As	75	2	He	0.136	39.4	306	16.1	2.5	
Sb	121	2	He	0.468	12.0	2707	10.1	2	
Se	78	2	He	0.262	9.8	100	2.0	5	
Ti	47	2	He	0.010	603.3	33	45.8	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	2323806	0.05	2222435	104.56	70	120	
In	115	1	nogas	2584935	0.35	2487358	103.92	70	120	
Li	6	1	nogas	1111308	0.10	1125226	98.76	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2355554	3.59	2305146	102.19	70	120	
Ge	72	2	He	651329	0.22	633162	102.87	70	120	
In	115	2	He	910784	0.52	884304	102.99	70	120	

Sample Report

Sample Table

Sample Name	HS24061313-02
Data File Name	349SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T00:03:47-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	216CALB.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	0.021	0.021	21.64	195	0.01	2000	
B	11	1	nogas	17.026	17.026	3.92	143863	0.01	2000	
Al	27	1	nogas	10.846	10.846	4.38	263748	0.00	2000	
Ti	47	1	nogas	1.876	1.876	3.50	3117	0.06	2000	
Ni	60	1	nogas	4.305	4.305	2.17	19817	0.02	2000	
Cu	63	1	nogas	0.586	0.586	1.61	7612	0.01	2000	
Zn	66	1	nogas	7.442	7.442	0.46	26737	0.03	2000	
Se	77	1	nogas	4.009	4.009	63.43	4958	0.08	2000	
Se	82	1	nogas	-0.038	-0.038	-571.48	293	-0.01	2000	
Sr	88	1	nogas	44.953	44.953	0.53	1245434	0.00	2000	
Mo	95	1	nogas	0.904	0.904	4.34	5364	0.02	2000	
Ag	107	1	nogas	0.020	0.020	13.87	350	0.01	2000	
Cd	111	1	nogas	0.171	0.171	13.87	475	0.04	2000	
Sn	118	1	nogas	0.593	0.593	6.72	7479	0.01	2000	
Sb	121	1	nogas	0.212	0.212	6.93	3561	0.01	2000	
Ba	137	1	nogas	92.489	92.489	0.83	381590	0.02	2000	
Tl	205	1	nogas	0.047	0.047	13.43	1393	0.00	2000	
Pb	208	1	nogas	0.078	0.078	5.73	3694	0.00	2000	
U	238	1	nogas	0.025	0.025	24.72	1457	0.00	2000	
Na	23	2	He	26572.943	26572.943	0.71	49272618	0.05	200000	
Mg	24	2	He	1653.856	1653.856	1.41	1706835	0.10	200000	
Al	27	2	He	11.136	11.136	9.18	10010	0.11	2000	
K	39	2	He	1364.763	1364.763	1.87	1505676	0.09	200000	
Ca	43	2	He	2802.607	2802.607	1.75	7855	35.68	200000	
Ca	44	2	He	2687.008	2687.008	1.75	124739	2.15	200000	
V	51	2	He	0.036	0.036	269.69	2527	0.00	2000	
Cr	52	2	He	9.448	9.448	2.06	75016	0.01	2000	
Mn	55	2	He	230.170	230.170	1.56	1164512	0.02	2000	
Fe	56	2	He	7778.433	7778.433	1.88	50694578	0.02	200000	
Co	59	2	He	1.523	1.523	1.75	14083	0.01	2000	
Ni	60	2	He	4.290	4.290	2.75	10177	0.04	2000	
Cu	63	2	He	0.533	0.533	8.37	3754	0.01	2000	
Zn	66	2	He	7.757	7.757	2.09	10757	0.07	2000	
As	75	2	He	0.163	0.163	24.66	331	0.05	2000	
Sb	121	2	He	0.161	0.161	4.40	1243	0.01	2000	
Se	78	2	He	0.066	0.066	515.74	83	0.08	2000	
Ti	47	2	He	1.483	1.483	15.58	417	0.36	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	2227866	0.80	2222435	100.24	70	120	
In	115	1	nogas	2497218	1.18	2487358	100.40	70	120	
Li	6	1	nogas	1059540	0.69	1125226	94.16	70	120	
Bi	209	1	nogas	2306439	2.50	2305146	100.06	70	120	

Sample Report

Ge	72	2	He	650219	1.30	633162	102.69	70	120	
In	115	2	He	904449	1.08	884304	102.28	70	120	

Sample Report

Sample Table

Sample Name	HS24061313-03
Data File Name	350SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T00:06:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	216CALB.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	0.073	0.073	16.76	490	0.01	2000	
B	11	1	nogas	17.319	17.319	3.38	143296	0.01	2000	
Al	27	1	nogas	127.387	127.387	2.35	2125572	0.01	2000	
Ti	47	1	nogas	2.511	2.511	5.10	4161	0.06	2000	
Ni	60	1	nogas	1.720	1.720	1.97	8556	0.02	2000	
Cu	63	1	nogas	0.811	0.811	1.30	10070	0.01	2000	
Zn	66	1	nogas	8.303	8.303	1.96	29887	0.03	2000	
Se	77	1	nogas	4.308	4.308	47.32	5058	0.09	2000	
Se	82	1	nogas	0.005	0.005	10976.94	303	0.00	2000	
Sr	88	1	nogas	296.892	296.892	1.21	8084504	0.00	2000	
Mo	95	1	nogas	0.191	0.191	10.64	1307	0.01	2000	
Ag	107	1	nogas	0.016	0.016	48.79	297	0.01	2000	
Cd	111	1	nogas	0.069	0.069	23.89	192	0.04	2000	
Sn	118	1	nogas	0.645	0.645	4.53	7789	0.01	2000	
Sb	121	1	nogas	0.097	0.097	12.79	2197	0.00	2000	
Ba	137	1	nogas	260.601	260.601	0.99	1057273	0.02	2000	
Tl	205	1	nogas	0.013	0.013	20.78	473	0.00	2000	
Pb	208	1	nogas	0.408	0.408	4.19	15064	0.00	2000	
U	238	1	nogas	0.111	0.111	2.06	5034	0.00	2000	
Na	23	2	He	32288.930	32288.930	1.71	60025324	0.05	200000	
Mg	24	2	He	8876.916	8876.916	1.87	9186505	0.10	200000	
Al	27	2	He	125.771	125.771	3.37	77308	0.16	2000	
K	39	2	He	1279.779	1279.779	0.52	1423254	0.09	200000	
Ca	43	2	He	15235.554	15235.554	3.31	42577	35.78	200000	
Ca	44	2	He	14929.074	14929.074	0.93	687611	2.17	200000	
V	51	2	He	0.698	0.698	6.20	6664	0.01	2000	
Cr	52	2	He	0.819	0.819	13.21	14821	0.01	2000	
Mn	55	2	He	2019.586	2019.586	0.69	10252292	0.02	2000	>LDR
Fe	56	2	He	32110.252	32110.252	1.84	210016870	0.02	200000	
Co	59	2	He	2.106	2.106	0.36	19526	0.01	2000	
Ni	60	2	He	1.663	1.663	5.68	4151	0.04	2000	
Cu	63	2	He	0.752	0.752	9.72	5051	0.01	2000	
Zn	66	2	He	8.105	8.105	5.32	11234	0.07	2000	
As	75	2	He	2.641	2.641	4.66	2640	0.10	2000	
Sb	121	2	He	0.085	0.085	29.21	887	0.01	2000	
Se	78	2	He	0.269	0.269	101.99	101	0.27	2000	
Ti	47	2	He	1.846	1.846	7.74	513	0.36	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	2254521	2.45	2222435	101.44	70	120	
In	115	1	nogas	2457450	1.38	2487358	98.80	70	120	
Li	6	1	nogas	1047112	1.66	1125226	93.06	70	120	
Bi	209	1	nogas	2207067	2.59	2305146	95.75	70	120	

Sample Report

Ge	72	2	He	652697	0.82	633162	103.09	70	120	
In	115	2	He	887121	0.84	884304	100.32	70	120	

Sample Report

Sample Table

Sample Name	HS24061313-04
Data File Name	351SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T00:08:46-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	216CALB.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	0.114	0.114	6.43	740	0.02	2000	
B	11	1	nogas	2.813	2.813	30.78	88457	0.00	2000	
Al	27	1	nogas	107.533	107.533	1.37	1812329	0.01	2000	
Ti	47	1	nogas	2.492	2.492	1.66	4134	0.06	2000	
Ni	60	1	nogas	1.737	1.737	4.74	8646	0.02	2000	
Cu	63	1	nogas	0.707	0.707	3.78	8983	0.01	2000	
Zn	66	1	nogas	6.059	6.059	2.00	22537	0.03	2000	
Se	77	1	nogas	6.128	6.128	14.28	5324	0.12	2000	
Se	82	1	nogas	-0.210	-0.210	-226.91	267	-0.08	2000	
Sr	88	1	nogas	34.038	34.038	0.38	945538	0.00	2000	
Mo	95	1	nogas	0.033	0.033	27.80	437	0.01	2000	
Ag	107	1	nogas	0.011	0.011	14.61	237	0.00	2000	
Cd	111	1	nogas	0.128	0.128	9.74	359	0.04	2000	
Sn	118	1	nogas	0.264	0.264	18.06	4721	0.01	2000	
Sb	121	1	nogas	0.145	0.145	3.39	2790	0.01	2000	
Ba	137	1	nogas	77.510	77.510	1.24	320527	0.02	2000	
Tl	205	1	nogas	0.012	0.012	5.54	483	0.00	2000	
Pb	208	1	nogas	0.512	0.512	4.68	19449	0.00	2000	
U	238	1	nogas	0.063	0.063	4.73	3140	0.00	2000	
Na	23	2	He	33416.250	33416.250	1.88	61927304	0.05	200000	
Mg	24	2	He	1065.277	1065.277	1.24	1101290	0.10	200000	
Al	27	2	He	108.145	108.145	0.45	66782	0.16	2000	
K	39	2	He	297.803	297.803	6.23	401250	0.07	200000	
Ca	43	2	He	1469.256	1469.256	8.53	4154	35.37	200000	
Ca	44	2	He	1521.300	1521.300	1.13	71475	2.13	200000	
V	51	2	He	0.486	0.486	37.21	5333	0.01	2000	
Cr	52	2	He	0.873	0.873	6.87	15158	0.01	2000	
Mn	55	2	He	20.464	20.464	0.52	104278	0.02	2000	
Fe	56	2	He	302.631	302.631	1.10	1995221	0.02	200000	
Co	59	2	He	1.240	1.240	6.43	11478	0.01	2000	
Ni	60	2	He	1.800	1.800	4.73	4454	0.04	2000	
Cu	63	2	He	0.608	0.608	4.10	4194	0.01	2000	
Zn	66	2	He	5.932	5.932	1.75	8469	0.07	2000	
As	75	2	He	1.060	1.060	16.08	1163	0.09	2000	
Sb	121	2	He	0.138	0.138	6.09	1133	0.01	2000	
Se	78	2	He	0.281	0.281	103.91	101	0.28	2000	
Ti	47	2	He	2.325	2.325	3.68	637	0.37	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	2258049	1.40	2222435	101.60	70	120	
In	115	1	nogas	2502747	1.69	2487358	100.62	70	120	
Li	6	1	nogas	1062862	0.71	1125226	94.46	70	120	
Bi	209	1	nogas	2299422	3.02	2305146	99.75	70	120	

Sample Report

Ge	72	2	He	650823	1.08	633162	102.79	70	120	
In	115	2	He	901327	1.31	884304	101.92	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	356_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T00:21:25-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	94.163	0.734	532957	0.81	100	94.2	90	110	
B	11	1	nogas	456.902	2.123	1800892	1.80	500	91.4	90	110	
Al	27	1	nogas	103.062	0.832	1773258	1.24	100	103.1	90	110	
P	31	1	nogas	1215.109	1.028	175158	0.95	500	243.0	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	98.778	0.301	159428	1.37	100	98.8	90	110	
Ni	60	1	nogas	99.210	1.146	451195	2.24	100	99.2	90	110	
Cu	63	1	nogas	99.050	0.597	1066355	0.98	100	99.1	90	110	
Zn	66	1	nogas	98.205	0.744	332825	2.20	100	98.2	90	110	
Se	77	1	nogas	101.310	2.533	19032	0.34	100	101.3	90	110	
Se	82	1	nogas	100.075	1.736	19099	2.37	100	100.1	90	110	
Sr	88	1	nogas	94.955	0.696	2646077	0.79	100	95.0	90	110	
Mo	95	1	nogas	97.276	0.973	554043	1.20	100	97.3	90	110	
Ag	107	1	nogas	105.369	1.427	1325674	1.89	100	105.4	90	110	
Cd	111	1	nogas	96.312	2.509	267547	2.60	100	96.3	90	110	
Sn	118	1	nogas	97.648	1.365	830222	1.70	100	97.6	90	110	
Sb	121	1	nogas	95.975	0.368	1194849	1.77	100	96.0	90	110	
Ba	137	1	nogas	99.231	2.312	412083	2.85	100	99.2	90	110	
Tl	205	1	nogas	97.825	6.736	2590735	3.67	100	97.8	90	110	
Pb	208	1	nogas	96.700	5.202	3550516	2.16	100	96.7	90	110	
U	238	1	nogas	91.547	4.314	4064224	1.22	100	91.5	90	110	
Li	7	1	nogas	94.144	0.664	1633380	0.76	100	94.1	90	110	
Ba	135	1	nogas	99.068	0.957	235954	1.41	100	99.1	90	110	
Tl	203	1	nogas	97.492	6.507	1077197	3.48	100	97.5	90	110	
Na	23	2	He	9599.232	0.915	18301701	1.19	10000	96.0	90	110	
Mg	24	2	He	9619.771	0.656	10075555	0.62	10000	96.2	90	110	
Al	27	2	He	100.314	1.426	63130	1.04	100	100.3	90	110	
K	39	2	He	9984.452	0.063	10597565	0.40	10000	99.8	90	110	
Ca	43	2	He	9711.598	1.850	27485	1.61	10000	97.1	90	110	
Ca	44	2	He	9635.588	0.984	449768	1.19	10000	96.4	90	110	
V	51	2	He	97.024	0.221	615277	0.42	100	97.0	90	110	
Cr	52	2	He	97.576	0.314	701379	0.21	100	97.6	90	110	
Mn	55	2	He	98.128	0.616	504820	0.48	100	98.1	90	110	
Fe	56	2	He	10013.390	0.899	66301677	1.01	10000	100.1	90	110	
Co	59	2	He	98.507	0.392	921537	0.15	100	98.5	90	110	
Ni	60	2	He	99.590	0.918	233020	0.72	100	99.6	90	110	
Cu	63	2	He	99.465	0.530	591745	0.54	100	99.5	90	110	
Zn	66	2	He	97.357	1.346	125277	0.99	100	97.4	90	110	
As	75	2	He	96.200	0.871	90872	0.94	100	96.2	90	110	
Sb	121	2	He	95.182	0.406	460840	0.31	100	95.2	90	110	
Se	78	2	He	97.169	2.129	8262	2.36	100	97.2	90	110	
Ti	47	2	He	97.395	1.619	25796	1.64	100	97.4	90	110	
Zr	90	1	nogas	87.079	1.413	1594710	1.54	100	87.1	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2300072	1.58	2222435	103.49	70	120	
In	115	1	nogas	2513504	0.56	2487358	101.05	70	120	
Li	6	1	nogas	1022018	0.42	1125226	90.83	70	120	
Bi	209	1	nogas	2326696	3.19	2305146	100.93	70	120	
Ge	72	2	He	660546	0.34	633162	104.32	70	120	
In	115	2	He	910238	1.34	884304	102.93	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	357_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T00:23:57-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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
Be	9	1	nogas	0.042	42.0	323	33.3	2.5	
B	11	1	nogas	-0.486	-169.2	76978	5.0	2.5	
Al	27	1	nogas	-1.847	-1.4	65048	0.3	5	
P	31	1	nogas	-29.290	-28.8	41978	2.0	2.5	
Ti	47	1	nogas	0.099	57.2	350	25.4	2.5	
Ni	60	1	nogas	-0.038	-42.5	740	9.7	2.5	
Cu	63	1	nogas	-0.005	-241.4	1483	8.6	5	
Zn	66	1	nogas	0.193	11.4	3197	1.9	2.5	
Se	77	1	nogas	-1.533	-89.3	4287	5.0	2.5	
Se	82	1	nogas	0.249	229.9	353	29.7	5	
Sr	88	1	nogas	0.018	55.4	2224	12.5	2.5	
Mo	95	1	nogas	0.471	34.4	2944	31.1	2.5	
Ag	107	1	nogas	0.060	30.9	867	26.8	2.5	
Cd	111	1	nogas	0.033	52.1	95	50.4	2.5	
Sn	118	1	nogas	0.663	17.5	8156	11.6	2.5	
Sb	121	1	nogas	0.687	15.6	9497	13.7	2	
Ba	137	1	nogas	0.001	1717.4	437	14.0	2.5	
Tl	205	1	nogas	0.482	66.5	13343	69.6	2.5	
Pb	208	1	nogas	0.040	28.7	2377	21.5	2.5	
U	238	1	nogas	0.059	31.9	3034	32.0	2.5	
Na	23	2	He	-102.816	-0.2	147627	0.7	100	
Mg	24	2	He	1.472	29.4	3807	11.6	100	
Al	27	2	He	-1.792	-20.7	2457	8.2	5	
K	39	2	He	-7.204	-7.2	85173	0.4	100	
Ca	43	2	He	-11.484	-95.3	33	91.7	100	
Ca	44	2	He	-10.739	-22.4	1307	9.1	100	
V	51	2	He	-0.044	-165.5	2023	21.7	2.5	
Cr	52	2	He	-0.164	-68.9	7902	9.2	2.5	
Mn	55	2	He	0.024	53.4	823	8.6	2.5	
Fe	56	2	He	3.375	9.1	43673	4.4	100	
Co	59	2	He	0.037	8.2	397	7.3	2.5	
Ni	60	2	He	0.018	76.5	350	8.6	2.5	
Cu	63	2	He	0.027	74.5	793	14.2	5	
Zn	66	2	He	0.079	21.5	1110	2.4	2.5	
As	75	2	He	0.082	61.1	256	18.5	2.5	
Sb	121	2	He	0.432	11.0	2534	8.7	2	
Se	78	2	He	0.360	28.2	108	8.5	5	
Ti	47	2	He	-0.003	-2203.7	30	57.7	2.5	

Continuing Calibration Blank (CCB) Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2278410	0.59	2222435	102.52	70	120	
In	115	1	nogas	2526397	0.68	2487358	101.57	70	120	
Li	6	1	nogas	1083493	2.05	1125226	96.29	70	120	
Bi	209	1	nogas	2358934	3.95	2305146	102.33	70	120	
Ge	72	2	He	650278	0.74	633162	102.70	70	120	
In	115	2	He	900944	1.09	884304	101.88	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	363_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T00:39:20-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	96.648	0.644	544420	1.47	100	96.6	90	110	
B	11	1	nogas	476.581	2.458	1866228	2.11	500	95.3	90	110	
Al	27	1	nogas	99.721	0.713	1723254	1.11	100	99.7	90	110	
P	31	1	nogas	1281.542	0.549	182720	1.43	500	256.3	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	99.030	1.037	160255	2.34	100	99.0	90	110	
Ni	60	1	nogas	99.367	1.015	453002	0.96	100	99.4	90	110	
Cu	63	1	nogas	98.907	0.377	1067545	1.10	100	98.9	90	110	
Zn	66	1	nogas	98.386	0.037	334255	1.37	100	98.4	90	110	
Se	77	1	nogas	98.755	3.863	18715	2.53	100	98.8	90	110	
Se	82	1	nogas	99.038	4.468	18949	4.01	100	99.0	90	110	
Sr	88	1	nogas	94.813	1.651	2659368	1.76	100	94.8	90	110	
Mo	95	1	nogas	98.061	1.440	562222	2.50	100	98.1	90	110	
Ag	107	1	nogas	104.602	0.907	1324653	1.85	100	104.6	90	110	
Cd	111	1	nogas	98.141	1.715	274446	2.78	100	98.1	90	110	
Sn	118	1	nogas	98.605	1.521	843893	2.53	100	98.6	90	110	
Sb	121	1	nogas	97.498	0.865	1216918	2.10	100	97.5	90	110	
Ba	137	1	nogas	98.529	0.516	411816	1.23	100	98.5	90	110	
Tl	205	1	nogas	99.822	5.080	2644683	2.27	100	99.8	90	110	
Pb	208	1	nogas	98.251	4.739	3607964	1.98	100	98.3	90	110	
U	238	1	nogas	91.616	5.960	4066118	3.17	100	91.6	90	110	
Li	7	1	nogas	95.851	0.254	1653728	0.98	100	95.9	90	110	
Ba	135	1	nogas	99.432	1.154	238381	2.13	100	99.4	90	110	
Tl	203	1	nogas	98.818	5.575	1092126	2.80	100	98.8	90	110	
Na	23	2	He	9849.517	0.805	18643673	0.57	10000	98.5	90	110	
Mg	24	2	He	10051.943	0.837	10457469	0.57	10000	100.5	90	110	
Al	27	2	He	97.324	1.374	60944	1.05	100	97.3	90	110	
K	39	2	He	10179.555	1.506	10730169	1.26	10000	101.8	90	110	
Ca	43	2	He	9889.576	2.044	27802	2.38	10000	98.9	90	110	
Ca	44	2	He	9824.552	1.005	455466	0.70	10000	98.2	90	110	
V	51	2	He	99.114	0.669	624267	0.55	100	99.1	90	110	
Cr	52	2	He	100.058	0.676	714163	0.50	100	100.1	90	110	
Mn	55	2	He	99.754	1.569	509720	1.21	100	99.8	90	110	
Fe	56	2	He	10219.717	0.834	67212641	0.48	10000	102.2	90	110	
Co	59	2	He	100.898	1.653	937558	1.30	100	100.9	90	110	
Ni	60	2	He	100.874	0.617	234439	0.30	100	100.9	90	110	
Cu	63	2	He	101.290	0.566	598553	0.74	100	101.3	90	110	
Zn	66	2	He	98.854	1.511	126343	1.80	100	98.9	90	110	
As	75	2	He	98.365	1.035	92289	0.92	100	98.4	90	110	
Sb	121	2	He	96.829	0.429	465671	0.46	100	96.8	90	110	
Se	78	2	He	97.802	0.745	8260	0.81	100	97.8	90	110	
Ti	47	2	He	99.348	1.520	26136	1.56	100	99.3	90	110	
Zr	90	1	nogas	87.205	0.565	1607470	1.28	100	87.2	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2305874	1.33	2222435	103.75	70	120	
In	115	1	nogas	2529958	1.08	2487358	101.71	70	120	
Li	6	1	nogas	1017140	1.06	1125226	90.39	70	120	
Bi	209	1	nogas	2326565	2.88	2305146	100.93	70	120	
Ge	72	2	He	656122	0.36	633162	103.63	70	120	
In	115	2	He	904721	0.47	884304	102.31	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	364_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T00:41:53-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.031	38.3	255	27.7	2.5	
B	11	1	nogas	10.466	10.5	121247	3.7	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.677	-9.0	67912	3.8	5	
P	31	1	nogas	-33.959	-11.5	41553	0.6	2.5	
Ti	47	1	nogas	0.118	34.2	380	16.4	2.5	
Ni	60	1	nogas	-0.004	-1091.7	897	22.5	2.5	
Cu	63	1	nogas	-0.011	-25.6	1427	1.8	5	
Zn	66	1	nogas	0.214	8.7	3274	1.7	2.5	
Se	77	1	nogas	-5.221	-2.9	3771	1.1	2.5	
Se	82	1	nogas	0.334	152.3	370	25.8	5	
Sr	88	1	nogas	0.016	30.6	2147	6.3	2.5	
Mo	95	1	nogas	0.493	37.1	3077	34.2	2.5	
Ag	107	1	nogas	0.053	10.5	780	9.2	2.5	
Cd	111	1	nogas	0.021	57.3	61	54.3	2.5	
Sn	118	1	nogas	0.630	12.4	7882	8.7	2.5	
Sb	121	1	nogas	0.706	12.8	9740	11.0	2	
Ba	137	1	nogas	-0.012	-25.1	383	3.0	2.5	
Tl	205	1	nogas	0.392	60.7	10946	64.0	2.5	
Pb	208	1	nogas	0.045	30.7	2597	24.1	2.5	
U	238	1	nogas	0.055	31.2	2890	31.5	2.5	
Na	23	2	He	-84.248	-2.5	180804	0.4	100	
Mg	24	2	He	1.471	8.8	3787	4.5	100	
Al	27	2	He	-1.815	-24.4	2430	10.1	5	
K	39	2	He	-6.349	-13.0	85592	1.3	100	
Ca	43	2	He	-10.183	-54.0	37	41.7	100	
Ca	44	2	He	-10.994	-22.7	1287	7.8	100	
V	51	2	He	-0.048	-12.0	1988	3.5	2.5	
Cr	52	2	He	-0.170	-32.8	7816	3.3	2.5	
Mn	55	2	He	0.039	13.6	890	1.9	2.5	
Fe	56	2	He	3.458	9.1	43991	5.5	100	
Co	59	2	He	0.031	35.2	347	31.1	2.5	
Ni	60	2	He	0.007	163.6	323	8.9	2.5	
Cu	63	2	He	0.020	38.6	750	7.4	5	
Zn	66	2	He	0.033	89.9	1047	4.9	2.5	
As	75	2	He	0.067	40.2	240	11.9	2.5	
Sb	121	2	He	0.471	8.7	2707	8.2	2	
Se	78	2	He	0.531	24.7	121	7.6	5	
Ti	47	2	He	0.127	48.4	63	24.1	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	2282215	0.50	2222435	102.69	70	120	
In	115	1	nogas	2527843	0.35	2487358	101.63	70	120	
Li	6	1	nogas	1087082	0.04	1125226	96.61	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2373343	4.19	2305146	102.96	70	120	
Ge	72	2	He	646782	1.74	633162	102.15	70	120	
In	115	2	He	912551	1.07	884304	103.19	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	372_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T01:03:15-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	92.524	1.521	521668	0.52	100	92.5	90	110	
B	11	1	nogas	492.425	1.425	1927781	0.54	500	98.5	90	110	
Al	27	1	nogas	98.777	0.426	1677397	0.80	100	98.8	90	110	
P	31	1	nogas	1267.296	1.434	177976	2.10	500	253.5	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	98.634	0.816	156764	1.90	100	98.6	90	110	
Ni	60	1	nogas	99.792	1.052	446883	2.14	100	99.8	90	110	
Cu	63	1	nogas	99.597	0.923	1055891	1.93	100	99.6	90	110	
Zn	66	1	nogas	98.162	1.968	327596	3.04	100	98.2	90	110	
Se	77	1	nogas	99.497	0.114	18488	1.01	100	99.5	90	110	
Se	82	1	nogas	95.942	4.239	18041	4.24	100	95.9	90	110	
Sr	88	1	nogas	94.020	1.968	2611660	1.47	100	94.0	90	110	
Mo	95	1	nogas	95.906	1.583	544486	0.80	100	95.9	90	110	
Ag	107	1	nogas	102.375	1.254	1283842	0.40	100	102.4	90	110	
Cd	111	1	nogas	96.650	1.177	267627	0.30	100	96.7	90	110	
Sn	118	1	nogas	97.595	1.961	827077	1.24	100	97.6	90	110	
Sb	121	1	nogas	96.583	0.786	1183926	1.43	100	96.6	90	110	
Ba	137	1	nogas	98.755	2.697	408741	2.04	100	98.8	90	110	
Tl	205	1	nogas	97.122	6.193	2591352	2.22	100	97.1	90	110	
Pb	208	1	nogas	95.126	6.081	3517763	2.06	100	95.1	90	110	
U	238	1	nogas	90.220	5.957	4033443	2.09	100	90.2	90	110	
Li	7	1	nogas	93.012	1.893	1608415	1.22	100	93.0	90	110	
Ba	135	1	nogas	97.338	3.499	231073	2.93	100	97.3	90	110	
Tl	203	1	nogas	96.538	6.493	1074476	2.50	100	96.5	90	110	
Na	23	2	He	9877.003	0.465	18063236	0.24	10000	98.8	90	110	
Mg	24	2	He	10073.882	1.942	10125648	1.31	10000	100.7	90	110	
Al	27	2	He	98.318	1.528	59455	1.84	100	98.3	90	110	
K	39	2	He	10091.230	1.589	10279330	2.08	10000	100.9	90	110	
Ca	43	2	He	9707.222	2.588	26370	3.04	10000	97.1	90	110	
Ca	44	2	He	9862.818	0.419	441801	0.83	10000	98.6	90	110	
V	51	2	He	99.365	0.273	604710	0.76	100	99.4	90	110	
Cr	52	2	He	99.859	0.658	688682	0.48	100	99.9	90	110	
Mn	55	2	He	100.687	0.084	497120	0.60	100	100.7	90	110	
Fe	56	2	He	10309.387	0.158	65513754	0.78	10000	103.1	90	110	
Co	59	2	He	100.744	1.053	904563	1.55	100	100.7	90	110	
Ni	60	2	He	101.598	1.252	228146	1.35	100	101.6	90	110	
Cu	63	2	He	100.627	1.005	574552	1.07	100	100.6	90	110	
Zn	66	2	He	98.680	0.840	121863	1.45	100	98.7	90	110	
As	75	2	He	98.725	0.757	89497	0.38	100	98.7	90	110	
Sb	121	2	He	99.639	0.637	462976	0.30	100	99.6	90	110	
Se	78	2	He	97.582	2.252	7963	2.26	100	97.6	90	110	
Ti	47	2	He	98.720	1.359	25094	1.66	100	98.7	90	110	
Zr	90	1	nogas	85.889	2.594	1567794	1.82	100	85.9	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2264739	1.09	2222435	101.90	70	120	
In	115	1	nogas	2505657	0.97	2487358	100.74	70	120	
Li	6	1	nogas	1018274	1.84	1125226	90.50	70	120	
Bi	209	1	nogas	2344700	4.12	2305146	101.72	70	120	
Ge	72	2	He	633960	0.63	633162	100.13	70	120	
In	115	2	He	883002	0.28	884304	99.85	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	373_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T01:05:51-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.039	17.9	298	13.0	2.5	
B	11	1	nogas	40.214	7.8	236698	4.6	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-1.861	-2.9	63755	0.9	5	
P	31	1	nogas	-44.354	-18.3	39715	1.5	2.5	
Ti	47	1	nogas	0.162	42.4	443	24.1	2.5	
Ni	60	1	nogas	-0.014	-322.0	837	22.4	2.5	
Cu	63	1	nogas	-0.013	-136.6	1373	13.1	5	
Zn	66	1	nogas	0.117	59.9	2897	7.7	2.5	
Se	77	1	nogas	-8.464	-21.7	3250	8.1	2.5	
Se	82	1	nogas	0.390	39.7	373	6.7	5	
Sr	88	1	nogas	0.038	30.7	2710	11.3	2.5	
Mo	95	1	nogas	0.494	22.4	3007	20.0	2.5	
Ag	107	1	nogas	0.041	25.3	610	20.5	2.5	
Cd	111	1	nogas	0.020	49.6	58	46.5	2.5	
Sn	118	1	nogas	0.644	24.5	7822	16.4	2.5	
Sb	121	1	nogas	0.691	17.7	9373	15.1	2	
Ba	137	1	nogas	0.013	82.8	477	8.7	2.5	
Tl	205	1	nogas	0.389	64.7	10773	68.4	2.5	
Pb	208	1	nogas	0.043	17.6	2477	16.0	2.5	
U	238	1	nogas	0.059	36.6	3037	36.9	2.5	
Na	23	2	He	-49.957	-1.9	239722	1.3	100	
Mg	24	2	He	1.852	20.2	4107	8.1	100	
Al	27	2	He	-1.946	-6.5	2317	2.5	5	
K	39	2	He	-7.188	-22.7	83350	0.6	100	
Ca	43	2	He	-6.224	-72.7	47	24.7	100	
Ca	44	2	He	-12.325	-13.7	1207	5.5	100	
V	51	2	He	0.031	185.5	2439	14.2	2.5	
Cr	52	2	He	-0.156	-39.4	7789	3.9	2.5	
Mn	55	2	He	0.043	84.5	900	21.2	2.5	
Fe	56	2	He	3.395	3.7	42871	3.3	100	
Co	59	2	He	0.027	28.4	297	21.4	2.5	
Ni	60	2	He	0.032	30.6	373	5.6	2.5	
Cu	63	2	He	0.026	76.7	773	13.6	5	
Zn	66	2	He	0.172	10.1	1200	0.8	2.5	
As	75	2	He	0.096	14.7	262	6.3	2.5	
Sb	121	2	He	0.380	15.6	2237	13.2	2	
Se	78	2	He	0.414	9.7	110	3.1	5	
Ti	47	2	He	0.065	193.0	47	68.9	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	2240784	0.99	2222435	100.83	70	120	
In	115	1	nogas	2472197	0.52	2487358	99.39	70	120	
Li	6	1	nogas	1068777	0.84	1125226	94.98	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	2345031	4.76	2305146	101.73	70	120	
Ge	72	2	He	636336	1.44	633162	100.50	70	120	
In	115	2	He	890725	0.51	884304	100.73	70	120	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV2
Data File Name	374LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T01:08:28-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref File Name	216CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

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	-0.007	-44.987	77	39.85	2	-0.4	70	120	NewName Main CR1 Failed
B	11	1	nogas	-7.561	-52.076	160300	5.89	10	-75.6	70	120	NewName Main CR1 Failed
Al	27	1	nogas	-2.822	-5.656	150086	30.50	2	-141.1	70	120	NewName Main CR1 Failed
P	31	1	nogas	-340.684	-12.144	24854	13.43	10	-3406.8	70	120	NewName Main CR1 Failed
Ti	47	1	nogas	-0.070	-27.154	230	30.44	2	-3.5	70	120	NewName Main CR1 Failed
Ni	60	1	nogas	-0.168	-1.395	480	26.02	2	-8.4	70	120	NewName Main CR1 Failed
Cu	63	1	nogas	-0.117	-2.374	870	22.61	2	-5.9	70	120	NewName Main CR1 Failed
Zn	66	1	nogas	-0.354	-7.912	4161	30.02	2	-17.7	70	120	NewName Main CR1 Failed
Se	77	1	nogas	-31.077	-1.112	280	18.90	2	-1553.9	70	120	NewName Main CR1 Failed
Se	82	1	nogas	0.257	424.466	953	23.60	2	12.9	70	120	NewName Main CR1 Failed
Sr	88	1	nogas	-0.041	-8.440	1763	19.54	2	-2.0	70	120	NewName Main CR1 Failed
Mo	95	1	nogas	0.006	239.205	863	4.39	2	0.3	70	120	NewName Main CR1 Failed
Ag	107	1	nogas	-0.005	-74.759	127	75.86	2	-0.2	70	120	NewName Main CR1 Failed
Cd	111	1	nogas	-0.002	-100.193	-8	-198.83	2	-0.1	70	120	NewName Main CR1 Failed
Sn	118	1	nogas	-0.205	-14.520	2307	11.51	2	-10.3	70	120	NewName Main CR1 Failed
Sb	121	1	nogas	-0.019	-92.707	2297	7.84	2	-0.9	70	120	NewName Main CR1 Failed
Ba	137	1	nogas	-0.080	-2.448	310	22.35	2	-4.0	70	120	NewName Main CR1 Failed
Tl	205	1	nogas	0.031	63.108	1133	19.86	2	1.5	70	120	NewName Main CR1 Failed
Pb	208	1	nogas	0.019	157.006	1670	14.00	2	1.0	70	120	NewName Main CR1 Failed
[Pb]	206	1	nogas	0.017	156.852	437	16.57	2	0.8	70	120	NewName Main CR1 Failed
[Pb]	207	1	nogas	0.026	164.392	393	29.25	2	1.3	70	120	NewName Main CR1 Failed
U	238	1	nogas	0.023	84.196	1540	2.34	2	1.1	70	120	NewName Main CR1 Failed
Li	7	1	nogas	-0.348	-30.873	250697	31.96	2	-17.4	70	120	NewName Main CR1 Failed
Ba	135	1	nogas	-0.094	-2.924	200	18.03	2	-4.7	70	120	NewName Main CR1 Failed
Tl	203	1	nogas	0.034	74.397	527	10.46	2	1.7	70	120	NewName Main CR1 Failed
Na	23	2	He	-139.757	-2.859	285539	1.59	200	-69.9	70	120	NewName Main CR1 Failed
Mg	24	2	He	-1.711	-12.743	1930	49.82	200	-0.9	70	120	NewName Main CR1 Failed
Al	27	2	He	-2.748	-8.224	6852	11.83	2	-137.4	70	120	NewName Main CR1 Failed
K	39	2	He	-81.397	-0.976	30141	15.82	200	-40.7	70	120	NewName Main CR1 Failed
Ca	43	2	He	-17.865	-25.770	53	75.78	200	-8.9	70	120	NewName Main CR1 Failed
Ca	44	2	He	-33.887	-2.000	887	10.84	200	-16.9	70	120	NewName Main CR1 Failed
V	51	2	He	-0.364	-1.052	126	72.93	2	-18.2	70	120	NewName Main CR1 Failed
Cr	52	2	He	-1.251	-1.307	1150	43.82	2	-62.6	70	120	NewName Main CR1 Failed
Mn	55	2	He	-0.107	-7.116	577	26.32	2	-5.3	70	120	NewName Main CR1 Failed
Fe	56	2	He	-2.135	-15.235	28089	31.17	200	-1.1	70	120	NewName Main CR1 Failed
Co	59	2	He	-0.003	-54.542	123	46.81	2	-0.1	70	120	NewName Main CR1 Failed
Ni	60	2	He	-0.097	-7.228	303	16.59	2	-4.9	70	120	NewName Main CR1 Failed
Cu	63	2	He	-0.086	-5.226	497	28.28	2	-4.3	70	120	NewName Main CR1 Failed
Zn	66	2	He	-0.393	-7.900	1857	3.50	2	-19.6	70	120	NewName Main CR1 Failed
As	75	2	He	-0.115	-16.720	263	30.72	2	-5.7	70	120	NewName Main CR1 Failed
Se	77	2	He	-0.933	-40.217	50	52.92	2	-46.7	70	120	NewName Main CR1 Failed
Sb	121	2	He	-0.029	-118.960	1247	56.05	2	-1.4	70	120	NewName Main CR1 Failed
Se	78	2	He	-0.616	-10.624	98	26.53	2	-30.8	70	120	NewName Main CR1 Failed
Ti	47	2	He	-0.067	-50.471	50	72.12	2	-3.3	70	120	NewName Main CR1 Failed
Zr	90	1	nogas	0.336	28.313	22705	9.46	2	16.8	70	120	NewName Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	6940763	31.36	2222435	312.30	70	120	ISTD Failed
In	115	1	nogas	8026868	23.09	2487358	322.71	70	120	ISTD Failed
Li	6	1	nogas	3854329	34.17	1125226	342.54	70	120	ISTD Failed
Bi	209	1	nogas	3618429	73.73	2305146	156.97	70	120	ISTD Failed
Ge	72	2	He	2347953	10.33	633162	370.83	70	120	ISTD Failed
In	115	2	He	3413493	11.52	884304	386.01	70	120	ISTD Failed

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV5
Data File Name	375LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T01:11:03-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref File Name	216CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

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	0.011	180.651	350	83.70	5	0.2	70	130	NewName Main CR1 Failed
B	11	1	nogas	-7.707	-22.880	128692	6.19	25	-30.8	70	130	NewName Main CR1 Failed
Al	27	1	nogas	-2.644	-16.100	117150	16.30	5	-52.9	70	130	NewName Main CR1 Failed
P	31	1	nogas	-322.259	-13.432	23586	23.77	25	-1289.0	70	130	NewName Main CR1 Failed
Ti	47	1	nogas	-0.025	-207.686	320	37.89	5	-0.5	70	130	NewName Main CR1 Failed
Ni	60	1	nogas	-0.127	-34.666	717	41.80	5	-2.5	70	130	NewName Main CR1 Failed
Cu	63	1	nogas	-0.082	-42.620	1413	38.82	5	-1.6	70	130	NewName Main CR1 Failed
Zn	66	1	nogas	-0.329	-15.083	3267	12.73	5	-6.6	70	130	NewName Main CR1 Failed
Se	77	1	nogas	-31.089	-1.084	210	33.33	5	-621.8	70	130	NewName Main CR1 Failed
Se	82	1	nogas	0.515	214.393	853	34.01	5	10.3	70	130	NewName Main CR1 Failed
Sr	88	1	nogas	-0.014	-201.218	3010	58.86	5	-0.3	70	130	NewName Main CR1 Failed
Mo	95	1	nogas	0.016	210.205	783	56.85	5	0.3	70	130	NewName Main CR1 Failed
Ag	107	1	nogas	0.029	104.749	1070	83.76	5	0.6	70	130	NewName Main CR1 Failed
Cd	111	1	nogas	0.031	97.704	207	97.03	5	0.6	70	130	NewName Main CR1 Failed
Sn	118	1	nogas	-0.219	-13.642	1497	38.18	5	-4.4	70	130	NewName Main CR1 Failed
Sb	121	1	nogas	-0.013	-181.375	1870	16.11	5	-0.3	70	130	NewName Main CR1 Failed
Ba	137	1	nogas	-0.045	-57.168	557	36.87	5	-0.9	70	130	NewName Main CR1 Failed
Tl	205	1	nogas	0.089	36.307	2247	62.85	5	1.8	70	130	NewName Main CR1 Failed
Pb	208	1	nogas	0.104	36.707	4037	61.05	5	2.1	70	130	NewName Main CR1 Failed
U	238	1	nogas	0.101	35.166	4094	57.01	5	2.0	70	130	NewName Main CR1 Failed
Li	7	1	nogas	-0.334	-45.313	192469	11.66	5	-6.7	70	130	NewName Main CR1 Failed
Na	23	2	He	-113.741	-25.778	356675	28.05	500	-22.7	70	130	NewName Main CR1 Failed
Mg	24	2	He	27.808	85.910	83191	69.20	500	5.6	70	130	NewName Main CR1 Failed
Al	27	2	He	-2.044	-36.735	6622	6.70	5	-40.9	70	130	NewName Main CR1 Failed
K	39	2	He	-47.344	-57.938	118980	52.94	500	-9.5	70	130	NewName Main CR1 Failed
Ca	43	2	He	12.016	264.877	263	79.69	500	2.4	70	130	NewName Main CR1 Failed
Ca	44	2	He	-2.826	-908.531	4538	58.40	500	-0.6	70	130	NewName Main CR1 Failed
V	51	2	He	-0.083	-279.559	4768	71.63	5	-1.7	70	130	NewName Main CR1 Failed
Cr	52	2	He	-0.914	-29.105	7246	57.98	5	-18.3	70	130	NewName Main CR1 Failed
Mn	55	2	He	0.217	126.886	4858	66.02	5	4.3	70	130	NewName Main CR1 Failed
Fe	56	2	He	26.542	89.006	523922	68.39	500	5.3	70	130	NewName Main CR1 Failed
Co	59	2	He	0.304	81.524	7656	70.23	5	6.1	70	130	NewName Main CR1 Failed
Ni	60	2	He	0.220	119.725	2197	63.39	5	4.4	70	130	NewName Main CR1 Failed
Cu	63	2	He	0.243	111.613	5548	66.55	5	4.9	70	130	NewName Main CR1 Failed
Zn	66	2	He	-0.024	-992.329	2784	17.73	5	-0.5	70	130	NewName Main CR1 Failed
As	75	2	He	0.140	182.190	834	65.21	5	2.8	70	130	NewName Main CR1 Failed
Sb	121	2	He	0.205	99.159	3961	54.36	5	4.1	70	130	NewName Main CR1 Failed
Se	78	2	He	-0.311	-117.388	145	44.58	5	-6.2	70	130	NewName Main CR1 Failed
Ti	47	2	He	0.286	108.853	287	64.54	5	5.7	70	130	NewName Main CR1 Failed
Zr	90	1	nogas	0.031	26.481	4161	8.38	5	0.6	70	130	NewName Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	5174855	21.82	2222435	232.85	70	120	ISTD Failed
In	115	1	nogas	5899771	14.33	2487358	237.19	70	120	ISTD Failed
Li	6	1	nogas	2942390	15.65	1125226	261.49	70	120	ISTD Failed
Bi	209	1	nogas	2461942	93.56	2305146	106.80	70	120	
Ge	72	2	He	1904062	17.56	633162	300.72	70	120	ISTD Failed
In	115	2	He	2827528	13.67	884304	319.75	70	120	ISTD Failed

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSA
Data File Name	376ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T01:13:40-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	0.033	17.289	237	14.38	2	1.7	100	50	
B	11	1	nogas	50.816	10.394	246791	8.94	20	254.1	100	50	ICSA Main CR1 FailedICSA Main CR2 Failed
Al	27	1	nogas	100389.967	0.691	1483171231	0.47	10	1003899.7	100	0	
P	31	1	nogas	894832.496	0.381	86706405	0.50	20	4474162.5	100	50	ICSA Main CR1 FailedICSA Main CR2 Failed
Ti	47	1	nogas	2103.102	0.678	3077202	0.55	5	42062.0	100	50	ICSA Main CR1 Failed
Ni	60	1	nogas	1.540	5.174	7179	4.43	5	30.8	100	50	
Cu	63	1	nogas	1.111	4.118	12255	3.53	2	55.6	100	50	
Zn	66	1	nogas	3.828	4.080	14023	3.19	5	76.6	100	50	ICSA Main CR1 Failed
Se	77	1	nogas	12.161	24.429	5705	6.57	5	243.2	100	50	ICSA Main CR1 Failed
Se	82	1	nogas	0.715	40.628	403	12.48	2	35.7	100	50	
Sr	88	1	nogas	0.921	5.557	23830	3.79	5	18.4	100	50	
Mo	95	1	nogas	2272.130	2.136	11276631	0.66	5	45442.6	100	50	ICSA Main CR1 Failed
Ag	107	1	nogas	0.023	12.441	347	10.13	5	0.5	100	50	
Cd	111	1	nogas	0.877	14.178	2127	13.91	2	43.9	100	50	
Sn	118	1	nogas	0.412	13.420	5228	8.57	10	4.1	100	50	
Sb	121	1	nogas	0.137	10.098	2487	6.45	4	3.4	100	50	
Ba	137	1	nogas	0.751	1.139	3094	2.47	5	15.0	100	50	
Tl	205	1	nogas	0.035	20.037	983	20.65	2	1.7	100	50	
Pb	208	1	nogas	0.846	8.159	28746	2.46	5	16.9	100	50	
U	238	1	nogas	0.010	32.110	733	17.05	5	0.2	0	50	
Li	7	1	nogas	0.388	13.303	73188	0.82		#DIV/0!	0	50	
Ba	135	1	nogas	0.741	7.070	1787	5.08		#DIV/0!	0	50	
Tl	203	1	nogas	0.027	18.272	350	8.57		#DIV/0!	0	50	
Na	23	2	He	105148.325	1.132	176382977	0.43	200	52574.2	100	0	
Mg	24	2	He	103121.478	0.408	96658559	0.84	200	51560.7	100	0	
Al	27	2	He	105403.756	1.594	56026426	0.86	10	1054037.6	100	0	
K	39	2	He	106298.210	0.773	100175542	0.51	200	53149.1	100	0	
Ca	43	2	He	99081.705	1.031	250457	0.87	200	49540.9	100	0	
Ca	44	2	He	101388.959	1.544	4220332	1.06	200	50694.5	100	0	
V	51	2	He	0.184	72.770	3126	23.73	5	3.7	100	50	
Cr	52	2	He	0.665	11.855	12449	3.22	5	13.3	100	50	
Mn	55	2	He	1.497	3.774	7522	4.26	5	29.9	100	50	
Fe	56	2	He	105145.069	0.465	622979804	0.80	200	52572.5	100	50	ICSA Main CR1 Failed
Co	59	2	He	1.034	1.996	8713	1.20	5	20.7	100	50	
Ni	60	2	He	1.199	6.173	2787	5.52	5	24.0	100	50	
Cu	63	2	He	0.815	2.576	4914	2.39	2	40.7	100	50	
Zn	66	2	He	3.203	5.425	4577	3.97	5	64.1	100	50	ICSA Main CR1 Failed
As	75	2	He	0.380	18.859	483	11.72	5	7.6	100	50	
Sb	121	2	He	0.107	28.013	897	15.22	4	2.7	100	50	
Se	78	2	He	0.110	154.979	79	16.79	2	5.5	100	50	
Ti	47	2	He	2060.208	0.929	487848	0.75	5	41204.2	100	50	ICSA Main CR1 Failed
Cr	52	1	nogas	0.686	2.416	23689	1.41		#DIV/0!	0	50	
Mn	55	1	nogas	0.969	4.598	32308	3.38		#DIV/0!	0	50	
Co	59	1	nogas	0.995	3.936	18872	3.92		#DIV/0!	0	50	
V	51	1	nogas	0.264	26.559	5953	25.15		#DIV/0!	0	50	
Fe	56	1	nogas	103381.054	1.456	2168889141	1.37		#DIV/0!	0	50	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2087507	0.23	2222435	93.93	70	120	
In	115	1	nogas	2191641	1.47	2487358	88.11	70	120	
Li	6	1	nogas	945905	1.53	1125226	84.06	70	120	
Bi	209	1	nogas	2099561	6.85	2305146	91.08	70	120	
Ge	72	2	He	591262	0.81	633162	93.38	70	120	
In	115	2	He	776888	0.54	884304	87.85	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	377ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq Date Time	2024-07-05T01:16:15-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	216CALB.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	94.008	1.641	456902	1.42	100	94.0	80	120	
B	11	1	nogas	532.418	1.489	1791573	1.38	100	532.4	80	120	ICSB Main CR1 Failed
Al	27	1	nogas	100628.646	1.077	1491107071	0.73	100100	100.5	80	120	
Ti	47	1	nogas	2239.267	1.668	3286582	2.49	2100	106.6	80	120	
Ni	60	1	nogas	93.641	0.316	387742	2.00	100	93.6	80	120	
Cu	63	1	nogas	92.625	0.691	907909	1.36	100	92.6	80	120	
Zn	66	1	nogas	98.661	0.707	304385	2.18	100	98.7	80	120	
Se	77	1	nogas	106.929	4.938	18068	5.20	100	106.9	80	120	
Se	82	1	nogas	99.832	4.887	17350	5.78	100	99.8	80	120	
Sr	88	1	nogas	98.804	0.717	2424941	1.39	100	98.8	80	120	
Mo	95	1	nogas	2353.558	1.448	11800065	1.00	2100	112.1	80	120	
Ag	107	1	nogas	107.952	0.279	1196108	0.68	100	108.0	80	120	
Cd	111	1	nogas	97.601	1.116	238794	1.72	100	97.6	80	120	
Sn	118	1	nogas	98.963	1.427	741050	2.21	100	99.0	80	120	
Sb	121	1	nogas	96.444	0.391	1093072	1.91	100	96.4	80	120	
Ba	137	1	nogas	99.873	1.151	365247	1.45	100	99.9	80	120	
Tl	205	1	nogas	96.379	6.000	2239381	2.96	100	96.4	80	120	
Pb	208	1	nogas	96.245	5.264	3099841	2.21	100	96.2	80	120	
U	238	1	nogas	91.017	4.887	3544086	1.86	100	91.0	80	120	
Li	7	1	nogas	99.173	1.304	1474206	1.00	100	99.2	80	120	
Na	23	2	He	112755.456	1.547	190802197	1.54	110000	102.5	80	120	
Mg	24	2	He	110861.664	1.025	104830368	0.91	110000	100.8	80	120	
Al	27	2	He	103560.071	1.193	55538334	1.47	100100	103.5	80	120	
K	39	2	He	115380.345	0.509	109691682	0.72	110000	104.9	80	120	
Ca	43	2	He	107869.560	0.624	275090	1.15	110000	98.1	80	120	
Ca	44	2	He	122632.256	0.922	5149883	1.53	110000	111.5	80	120	
V	51	2	He	98.205	0.678	562347	0.81	100	98.2	80	120	
Cr	52	2	He	96.697	0.662	627752	1.32	100	96.7	80	120	
Mn	55	2	He	98.755	0.235	458779	0.80	100	98.8	80	120	
Fe	56	2	He	113299.664	0.215	677239697	0.85	110000	103.0	80	120	
Co	59	2	He	95.279	0.740	804932	1.28	100	95.3	80	120	
Ni	60	2	He	94.121	0.771	198885	0.91	100	94.1	80	120	
Cu	63	2	He	93.181	0.786	500639	1.13	100	93.2	80	120	
Zn	66	2	He	98.077	2.034	113962	2.15	100	98.1	80	120	
As	75	2	He	100.546	1.293	85764	1.95	100	100.5	80	120	
Sb	121	2	He	97.646	1.423	426917	1.55	100	97.6	80	120	
Se	78	2	He	98.725	1.763	7579	2.01	100	98.7	80	120	
Ti	47	2	He	2154.990	1.044	514836	1.58	100	2155.0	80	120	ICSB Main CR1 Failed

QC ISTD Table

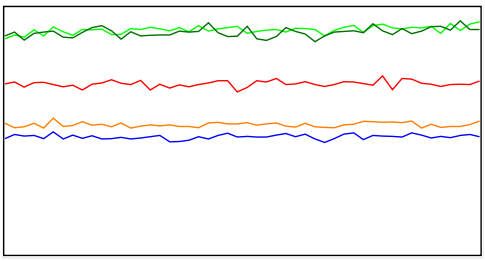
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	2093924	1.70	2222435	94.22	70	120	
In	115	1	nogas	2213705	0.92	2487358	89.00	70	120	
Li	6	1	nogas	877645	0.47	1125226	78.00	70	120	
Bi	209	1	nogas	2040963	3.13	2305146	88.54	70	120	
Ge	72	2	He	596490	0.66	633162	94.21	70	120	
In	115	2	He	792668	1.55	884304	89.64	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\070424A.b
Acq. Date-Time	7/4/2024 9:13:28 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	10000	6911	69105.30		
24	20000	18215	182149.88		
59	50000	23807	238072.80		
115	50000	26264	262638.19		
208	20000	18003	180025.31		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	1.855	5.000	
24	1.632	5.000	
59	1.976	5.000	
115	1.792	5.000	
208	2.050	5.000	

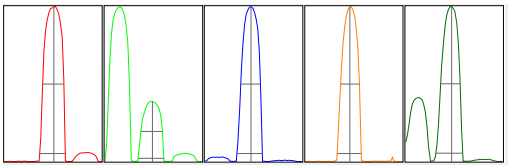
Mass	Background	Background (Required)	Background (Flag)
9	0.900		
24	0.300		
59	0.700		
115	1.900		
208	5.700		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.790 %
Doubly Charged	70 / 140 1.291 %

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	6847.41	9.05	8.90 - 9.10	
24	18393.95	24.00	23.90 - 24.10	
59	23849.93	58.95	58.90 - 59.10	
115	26969.26	114.90	114.90 - 115.10	
208	18346.94	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.780		
24	0.65	0.786		
59	0.60	0.774		
115	0.58	0.735		
208	0.59	0.822		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 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	10.1 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	0.9987	QP Bias	-3.0 V
Mass Offset	127	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.5 mm

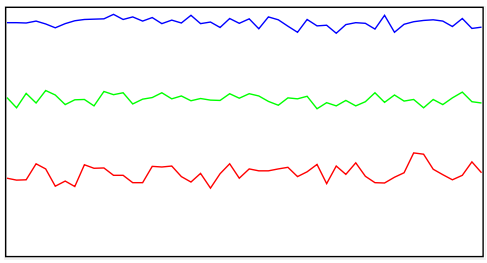
EM

Discriminator	4.5 mV	Analog HV	1644 V	Pulse HV	1681 V

[He]

Tune Check Report

Sensitivity



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

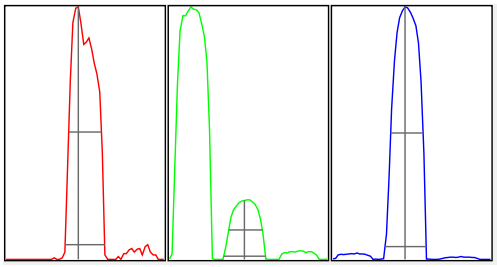
Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	500	166	1663.29		
24	2000	1264	12641.14		
59	10000	9434	94342.15		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	9.738	5.000	Fail
24	3.014	5.000	
59	1.890	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	178.52	8.90	8.90 - 9.10	
24	1258.32	23.95	23.90 - 24.10	
59	9426.41	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.740		
24	0.63	0.781		
59	0.60	0.769		

Tune Parameters

Plasma Parameters

Tune Check Report

Plasma Mode	---	Nebulizer Gas	0.48 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	0.4 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	0.9987	QP Bias	-13.0 V
Mass Offset	127	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.5 mm		

EM

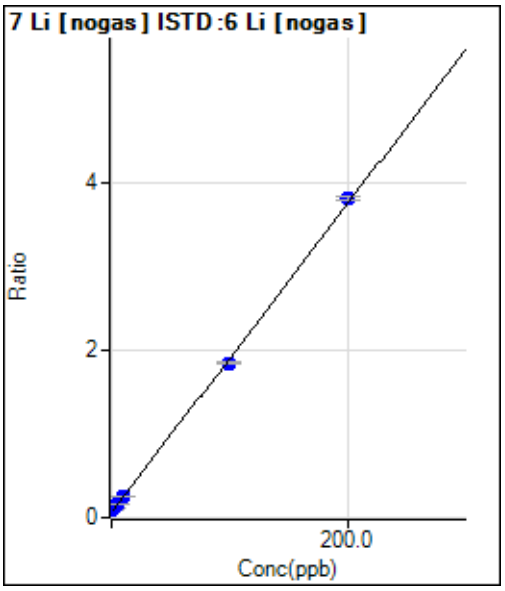
Discriminator	4.5 mV	Analog HV	1644 V	Pulse HV	1681 V

Calibration for 348_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070524A.b\
Analysis File: 070524A.batch.bin
DA Date-Time: 7/6/2024 10:31:27 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	341CALB.d	CAL BLK	7/5/2024 10:56:49 PM
2	342CALS.d	2/10/200	7/5/2024 10:59:18 PM
3	343CALS.d	5/25/500	7/5/2024 11:01:47 PM
4	344CALS.d	10/50/1000	7/5/2024 11:04:16 PM
5	345CALS.d	100/500/10K	7/5/2024 11:06:46 PM
6	346CALS.d	200/1000/20K	7/5/2024 11:09:16 PM
7			

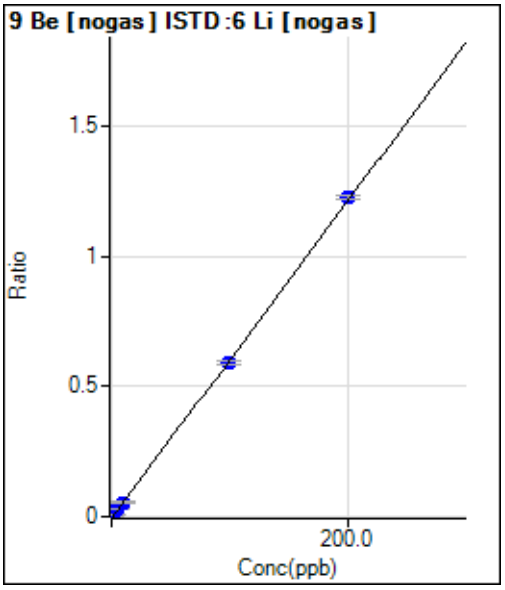
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	88946.75	0.0819	P	1.0	
2	☐	2.000	1.827	124900.13	0.1156	P	1.0	-8.7
3	☐	5.000	4.562	177382.29	0.1661	P	1.1	-8.8
4	☐	10.000	9.239	264389.73	0.2524	P	0.5	-7.6
5	☐	100.000	95.421	1796434.77	1.8429	P	1.5	-4.6
6	☐	200.000	202.340	3423099.74	3.8161	P	0.8	1.2
7	☐	1.000						

y = 0.0185 * x + 0.0819
R = 0.9996
DL = 0.129 ppb
BEC = 4.44 ppb

Weight: <None>
Min Conc: <None>

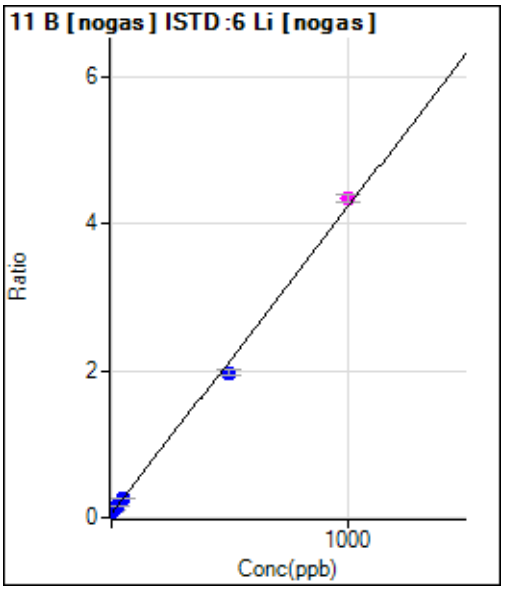


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.33	0.0001	P	11.9	
2	☐	2.000	1.750	11631.08	0.0108	P	3.5	-12.5
3	☐	5.000	4.354	28471.11	0.0267	P	2.8	-12.9
4	☐	10.000	9.056	57965.71	0.0553	P	1.4	-9.4
5	☐	100.000	97.476	579769.41	0.5948	P	2.8	-2.5
6	☐	200.000	201.328	1101992.56	1.2285	P	0.8	0.7
7	☐	1.000						

y = 0.0061 * x + 9.5171E-005
R = 0.9999
DL = 0.005588 ppb
BEC = 0.0156 ppb

Weight: <None>
Min Conc: <None>

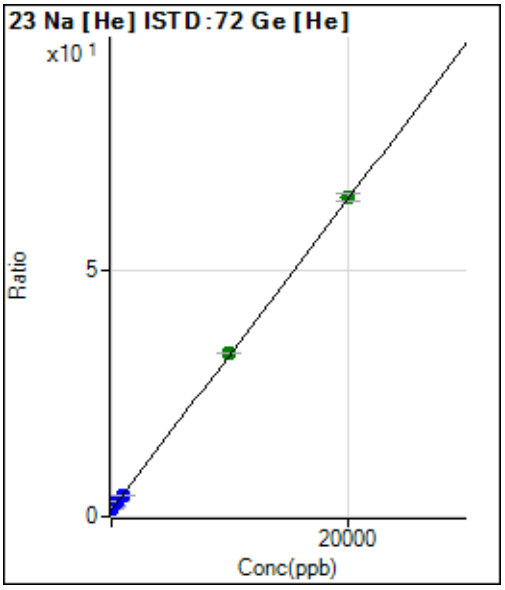
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	85156.38	0.0784	P	1.7	
2	☐	10.000	7.664	119298.46	0.1105	P	1.7	-23.4
3	☐	25.000	20.001	172957.95	0.1620	P	0.7	-20.0
4	☐	50.000	42.204	266778.78	0.2547	P	0.9	-15.6
5	☐	500.000	454.491	1926632.58	1.9768	P	3.3	-9.1
6	☐	1000.000	1023.292	3904391.71	4.3526	M	2.9	2.3
7	☐	5.000						

y = 0.0042 * x + 0.0784
R = 0.9986
DL = 0.9795 ppb
BEC = 18.78 ppb

Weight: <None>
Min Conc: <None>

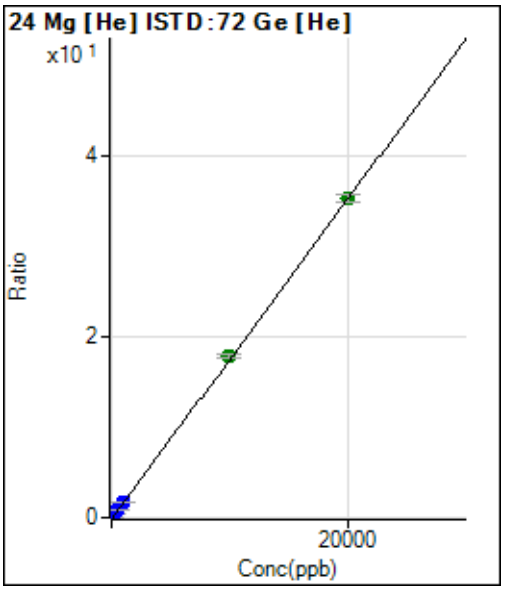


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1092002.59	1.6467	P	0.7	
2	☐	200.000	158.448	1410718.93	2.1463	P	0.8	-20.8
3	☐	500.000	419.492	1932076.12	2.9694	P	0.5	-16.1
4	☐	1000.000	874.476	2867147.98	4.4040	P	1.3	-12.6
5	☐	10000.00	9997.022	21020542.60	33.1686	A	0.7	0.0
6	☐	20000.00	20010.19	40486291.89	64.7415	A	2.0	0.1
7	☐	100.000						

y = 0.0032 * x + 1.6467
R = 1.0000
DL = 11.18 ppb
BEC = 522.2 ppb

Weight: <None>
Min Conc: <None>

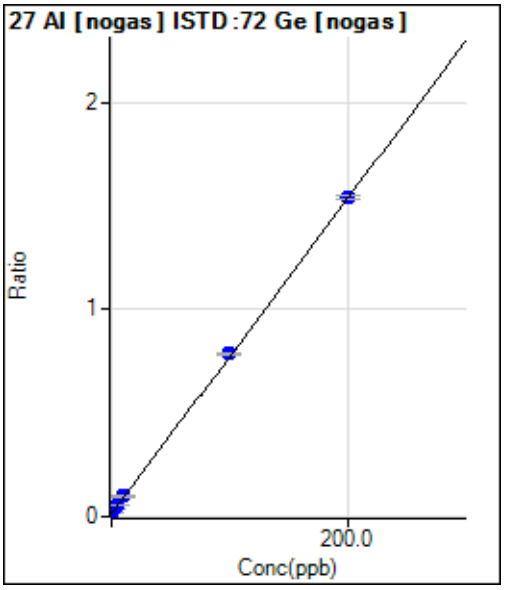
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2270.21	0.0034	P	13.8	
2	☐	200.000	187.062	219595.29	0.3341	P	0.6	-6.5
3	☐	500.000	473.065	546347.81	0.8397	P	0.6	-5.4
4	☐	1000.000	949.290	1094762.87	1.6815	P	1.1	-5.1
5	☐	10000.00	10113.64	11332600.66	17.8815	A	2.2	1.1
6	☐	20000.00	19946.51	22049745.50	35.2632	A	3.0	-0.3
7	☐	100.000						

y = 0.0018 * x + 0.0034
R = 1.0000
DL = 0.8044 ppb
BEC = 1.937 ppb

Weight: <None>
Min Conc: <None>

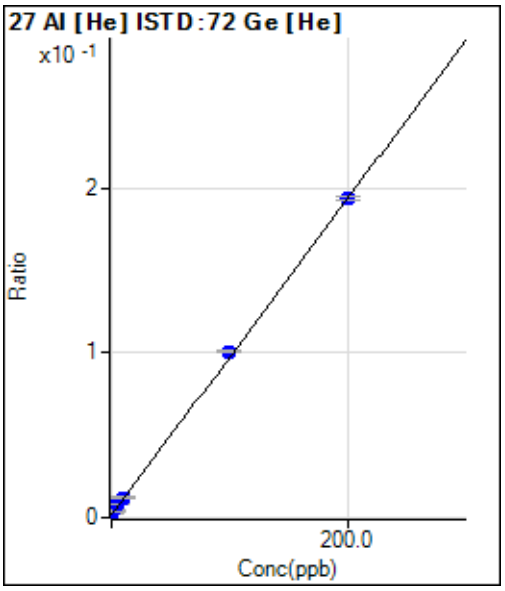


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48664.57	0.0208	P	1.8	
2	☐	2.000	1.648	77876.57	0.0333	P	2.4	-17.6
3	☐	5.000	4.798	132677.84	0.0573	P	2.1	-4.0
4	☐	10.000	10.083	222620.47	0.0976	P	0.5	0.8
5	☐	100.000	100.788	1806390.91	0.7884	P	1.0	0.8
6	☐	200.000	199.610	3418787.45	1.5411	P	0.9	-0.2
7	☐	1.000						

y = 0.0076 * x + 0.0208
R = 1.0000
DL = 0.1509 ppb
BEC = 2.73 ppb

Weight: <None>
Min Conc: <None>

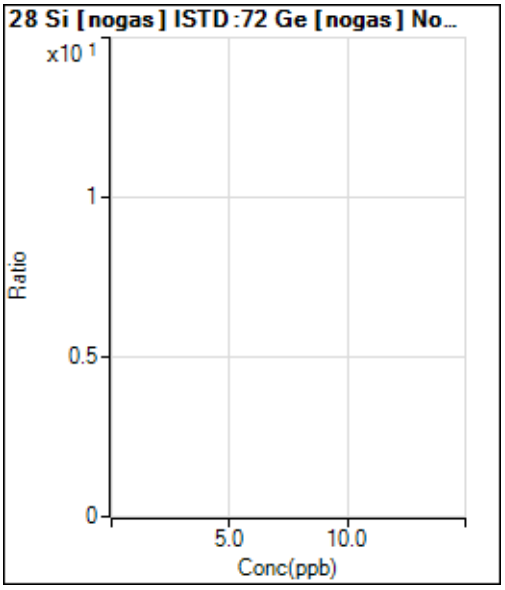
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.81	0.0026	P	4.0	
2	☐	2.000	1.644	2780.31	0.0042	P	7.4	-17.8
3	☐	5.000	5.355	5074.25	0.0078	P	3.3	7.1
4	☐	10.000	9.822	7878.83	0.0121	P	3.8	-1.8
5	☐	100.000	101.935	63809.00	0.1007	P	1.2	1.9
6	☐	200.000	199.036	121358.58	0.1941	P	1.5	-0.5
7	☐	1.000						

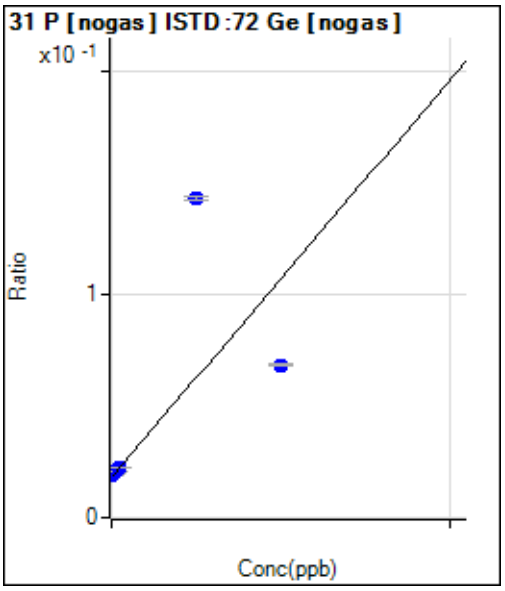
y = 9.6174E-004 * x + 0.0026
R = 0.9999
DL = 0.329 ppb
BEC = 2.754 ppb

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						

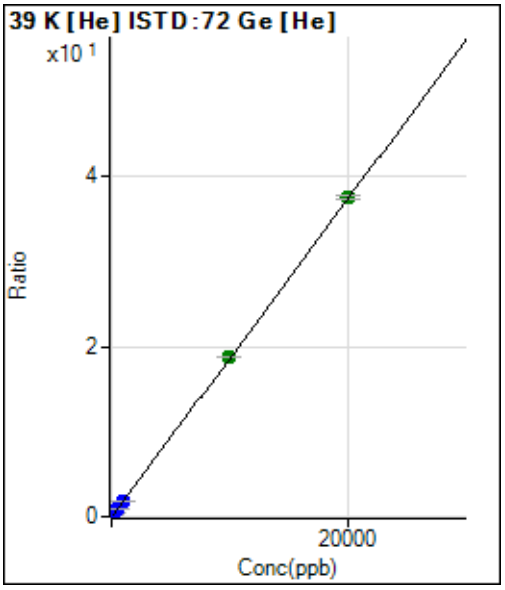
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	44324.36	0.0189	P	1.1	
2	☐	10.000	9.765	46263.26	0.0198	P	2.4	-2.4
3	☐	25.000	17.463	47417.11	0.0205	P	1.2	-30.1
4	☐	50.000	39.908	51312.60	0.0225	P	1.7	-20.2
5	☐	500.000	1391.202	328015.95	0.1432	P	0.8	178.2
6	☐	1000.000	555.094	151966.81	0.0685	P	1.5	-44.5
7	☐	5.000						

y = 8.9301E-005 * x + 0.0189
R = 0.6302
DL = 7.156 ppb
BEC = 212 ppb

Weight: <None>
Min Conc: <None>

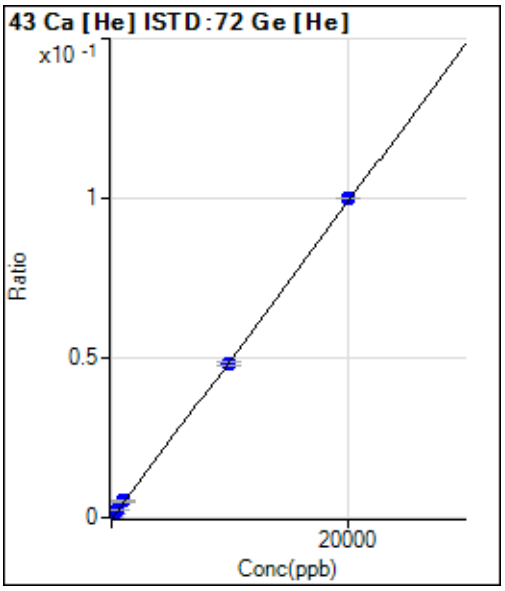


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90681.35	0.1368	P	1.4	
2	☐	200.000	183.049	314620.65	0.4787	P	1.3	-8.5
3	☐	500.000	460.268	648376.66	0.9965	P	0.6	-7.9
4	☐	1000.000	914.404	1201056.91	1.8448	P	1.0	-8.6
5	☐	10000.00	9981.456	11902793.57	18.7815	A	0.6	-0.2
6	☐	20000.00	20014.71	23463719.65	37.5230	A	1.6	0.1
7	☐	100.000						

y = 0.0019 * x + 0.1368
R = 1.0000
DL = 3.051 ppb
BEC = 73.21 ppb

Weight: <None>
Min Conc: <None>

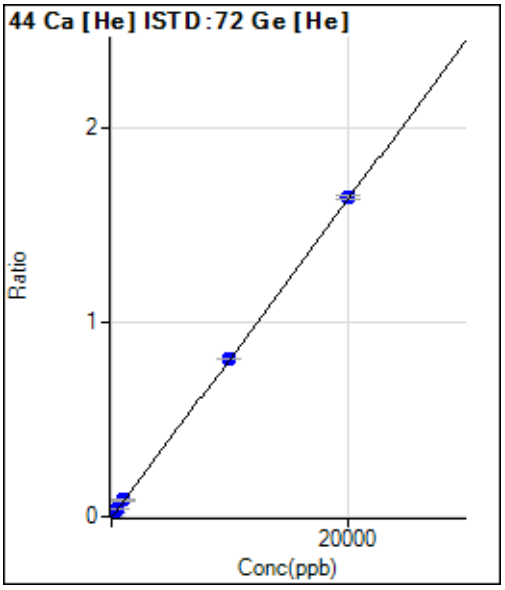
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	65.1	
2	☐	200.000	199.291	673.36	0.0010	P	17.6	-0.4
3	☐	500.000	488.289	1600.11	0.0025	P	8.4	-2.3
4	☐	1000.000	1030.012	3350.42	0.0051	P	4.0	3.0
5	☐	10000.00	9713.867	30581.31	0.0483	P	2.0	-2.9
6	☐	20000.00	20141.86	62548.33	0.1000	P	0.3	0.7
7	☐	100.000						

y = 4.9638E-006 * x + 3.5135E-005
R = 0.9999
DL = 13.82 ppb
BEC = 7.078 ppb

Weight: <None>
Min Conc: <None>

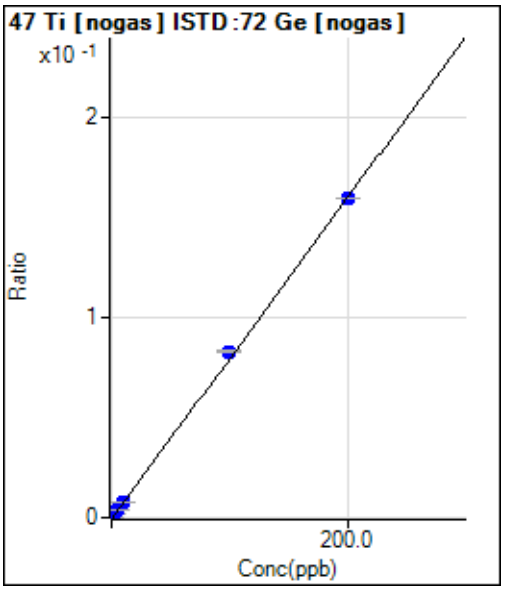


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1073.39	0.0016	P	4.1	
2	☐	200.000	202.473	11971.57	0.0182	P	5.7	1.2
3	☐	500.000	489.197	27141.13	0.0417	P	1.7	-2.2
4	☐	1000.000	1010.219	54959.53	0.0844	P	1.8	1.0
5	☐	10000.00	9892.045	514834.59	0.8124	P	0.7	-1.1
6	☐	20000.00	20053.71	1028852.07	1.6452	P	0.8	0.3
7	☐	100.000						

y = 8.1959E-005 * x + 0.0016
R = 1.0000
DL = 2.423 ppb
BEC = 19.75 ppb

Weight: <None>
Min Conc: <None>

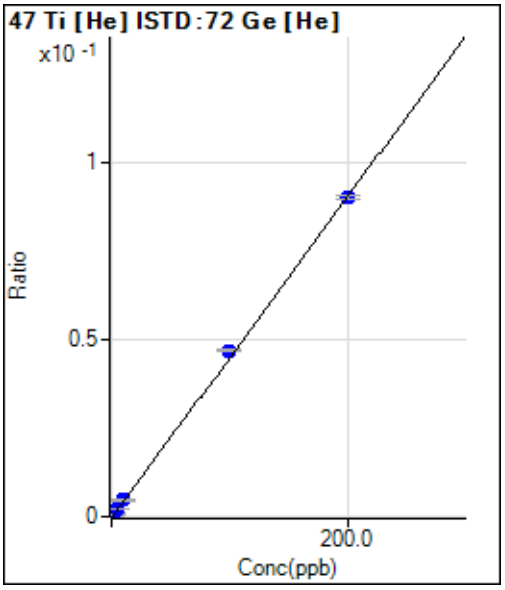
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	31.0	
2	☐	2.000	2.024	3990.60	0.0017	P	2.8	1.2
3	☐	5.000	4.826	9159.61	0.0040	P	1.9	-3.5
4	☐	10.000	10.028	18561.70	0.0081	P	0.2	0.3
5	☐	100.000	103.248	190183.20	0.0830	P	1.8	3.2
6	☐	200.000	198.379	353640.02	0.1594	P	0.5	-0.8
7	☐	1.000						

y = 8.0314E-004 * x + 8.2462E-005
R = 0.9998
DL = 0.09535 ppb
BEC = 0.1027 ppb

Weight: <None>
Min Conc: <None>

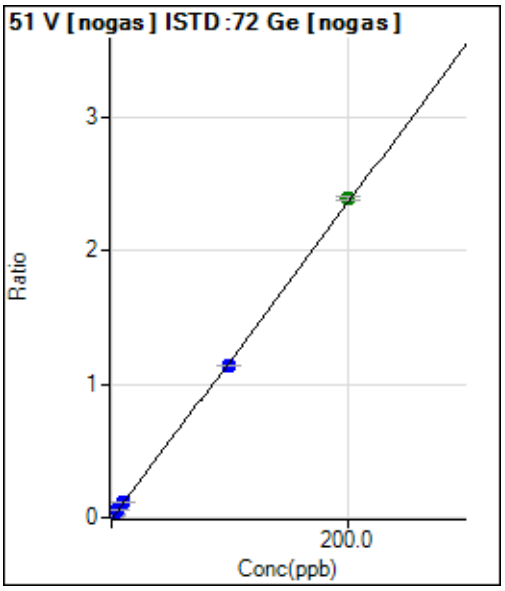


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	25.1	
2	☐	2.000	1.831	570.02	0.0009	P	13.8	-8.4
3	☐	5.000	4.873	1463.43	0.0022	P	7.5	-2.5
4	☐	10.000	10.156	3027.03	0.0046	P	6.8	1.6
5	☐	100.000	103.076	29702.77	0.0469	P	0.7	3.1
6	☐	200.000	198.459	56408.62	0.0902	P	1.3	-0.8
7	☐	1.000						

y = 4.5435E-004 * x + 3.5205E-005
R = 0.9998
DL = 0.05831 ppb
BEC = 0.07748 ppb

Weight: <None>
Min Conc: <None>

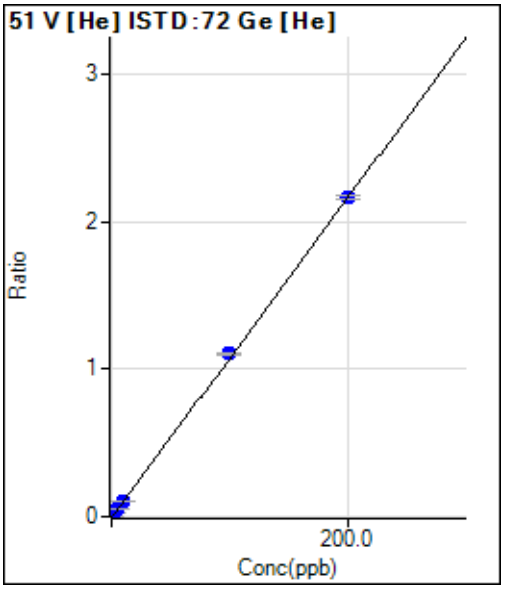
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1652.24	0.0007	P	113.0	
2	☐	2.000	1.805	51556.59	0.0221	P	8.2	-9.7
3	☐	5.000	4.501	124997.36	0.0540	P	5.1	-10.0
4	☐	10.000	9.320	253487.54	0.1111	P	1.9	-6.8
5	☐	100.000	96.324	2615666.75	1.1417	P	0.6	-3.7
6	☐	200.000	201.886	5306234.87	2.3920	A	1.4	0.9
7	☐	1.000						

y = 0.0118 * x + 7.0051E-004
R = 0.9998
DL = 0.2005 ppb
BEC = 0.05914 ppb

Weight: <None>
Min Conc: <None>

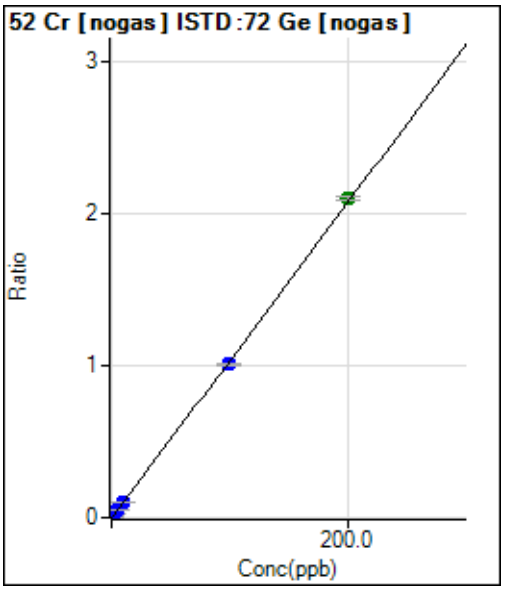


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1748.13	0.0026	P	11.7	
2	☐	2.000	2.055	16417.18	0.0250	P	4.5	2.8
3	☐	5.000	4.910	36443.67	0.0560	P	2.2	-1.8
4	☐	10.000	9.804	71093.73	0.1092	P	2.1	-2.0
5	☐	100.000	101.475	700734.75	1.1057	P	1.2	1.5
6	☐	200.000	199.274	1356206.28	2.1688	P	1.4	-0.4
7	☐	1.000						

y = 0.0109 * x + 0.0026
R = 1.0000
DL = 0.08499 ppb
BEC = 0.2426 ppb

Weight: <None>
Min Conc: <None>

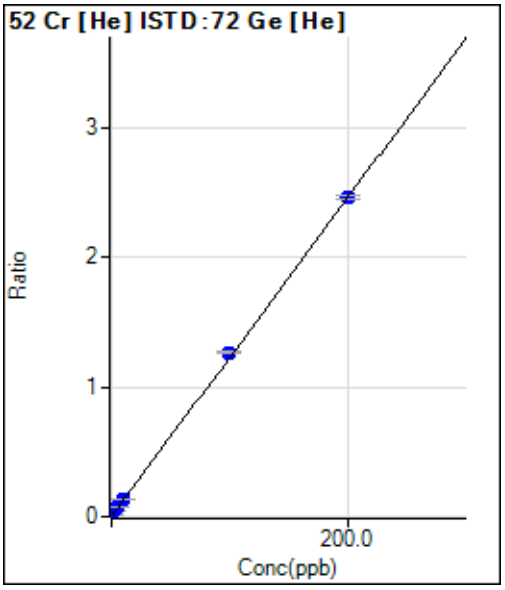
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14660.70	0.0063	P	4.9	
2	☐	2.000	1.889	60565.01	0.0259	P	1.4	-5.5
3	☐	5.000	4.742	128693.97	0.0556	P	2.1	-5.2
4	☐	10.000	9.620	242688.83	0.1064	P	1.9	-3.8
5	☐	100.000	96.675	2319856.17	1.0125	P	1.1	-3.3
6	☐	200.000	201.689	4670651.08	2.1056	A	1.7	0.8
7	☐	1.000						

y = 0.0104 * x + 0.0063
R = 0.9998
DL = 0.0876 ppb
BEC = 0.6016 ppb

Weight: <None>
Min Conc: <None>

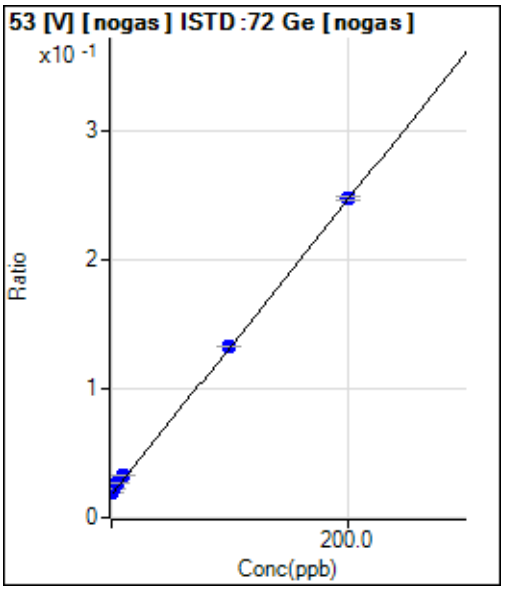


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9563.21	0.0144	P	5.7	
2	☐	2.000	2.007	25692.17	0.0391	P	2.5	0.3
3	☐	5.000	5.029	49608.16	0.0762	P	1.2	0.6
4	☐	10.000	9.852	88203.47	0.1355	P	3.2	-1.5
5	☐	100.000	101.637	800884.00	1.2637	P	1.4	1.6
6	☐	200.000	199.188	1540017.48	2.4627	P	1.5	-0.4
7	☐	1.000						

y = 0.0123 * x + 0.0144
R = 1.0000
DL = 0.2012 ppb
BEC = 1.173 ppb

Weight: <None>
Min Conc: <None>

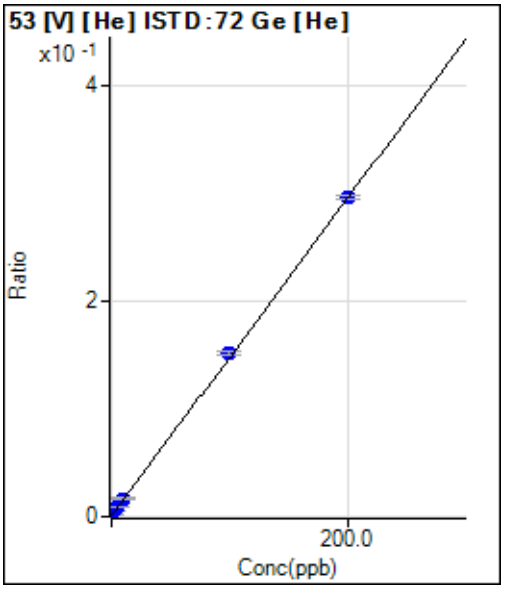
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	44830.17	0.0191	P	1.6	
2	☐	2.000	3.112	53040.02	0.0227	P	2.0	55.6
3	☐	5.000	6.758	62141.40	0.0269	P	1.4	35.2
4	☐	10.000	11.942	74731.17	0.0328	P	2.6	19.4
5	☐	100.000	99.588	304019.87	0.1327	P	0.8	-0.4
6	☐	200.000	200.054	548536.84	0.2473	P	1.2	0.0
7	☐	1.000						

y = 0.0011 * x + 0.0191
R = 0.9999
DL = 0.8076 ppb
BEC = 16.79 ppb

Weight: <None>
Min Conc: <None>

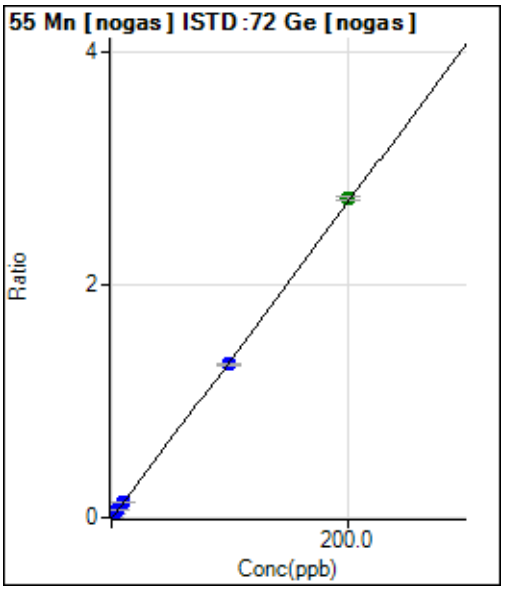


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1486.77	0.0022	P	5.1	
2	☐	2.000	1.738	3157.06	0.0048	P	2.7	-13.1
3	☐	5.000	4.838	6098.01	0.0094	P	2.3	-3.2
4	☐	10.000	9.816	10874.12	0.0167	P	4.2	-1.8
5	☐	100.000	101.288	96016.74	0.1515	P	1.6	1.3
6	☐	200.000	199.372	185129.17	0.2960	P	1.2	-0.3
7	☐	1.000						

y = 0.0015 * x + 0.0022
R = 1.0000
DL = 0.2339 ppb
BEC = 1.522 ppb

Weight: <None>
Min Conc: <None>

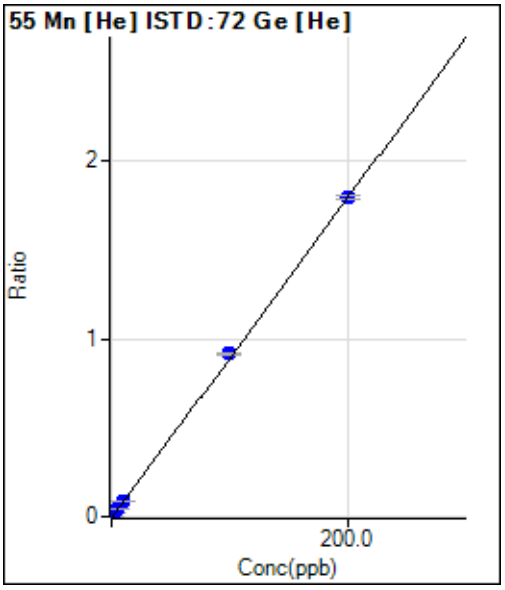
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9059.55	0.0039	P	1.9	
2	☐	2.000	1.840	67477.65	0.0289	P	1.6	-8.0
3	☐	5.000	4.751	158313.17	0.0684	P	1.4	-5.0
4	☐	10.000	9.605	306513.72	0.1344	P	1.9	-3.9
5	☐	100.000	96.726	3019853.49	1.3181	P	0.6	-3.3
6	☐	200.000	201.665	6086801.99	2.7439	A	1.1	0.8
7	☐	1.000						

y = 0.0136 * x + 0.0039
R = 0.9998
DL = 0.0165 ppb
BEC = 0.2848 ppb

Weight: <None>
Min Conc: <None>

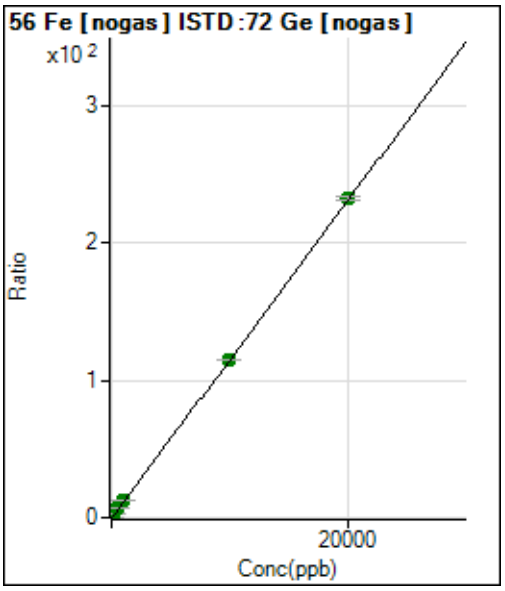


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	420.01	0.0006	P	5.9	
2	☐	2.000	1.935	11898.18	0.0181	P	0.6	-3.2
3	☐	5.000	4.964	29569.32	0.0454	P	1.0	-0.7
4	☐	10.000	9.907	58643.96	0.0901	P	0.6	-0.9
5	☐	100.000	101.492	581055.46	0.9168	P	0.8	1.5
6	☐	200.000	199.260	1125302.09	1.7994	P	0.8	-0.4
7	☐	1.000						

y = 0.0090 * x + 6.3327E-004
R = 1.0000
DL = 0.01236 ppb
BEC = 0.07015 ppb

Weight: <None>
Min Conc: <None>

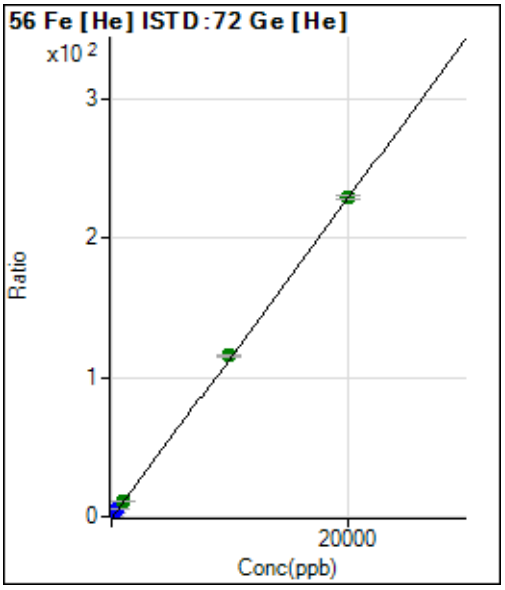
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1339088.52	0.5720	P	0.5	
2	☐	200.000	209.113	6992793.64	2.9930	A	1.0	4.6
3	☐	500.000	510.091	14988056.86	6.4776	A	2.0	2.0
4	☐	1000.000	1028.522	28465937.91	12.4798	A	1.7	2.9
5	☐	10000.00	9896.352	263806176.0	115.147	A	0.6	-1.0
6	☐	20000.00	20050.05	516210578.9	232.703	A	1.1	0.3
7	☐	100.000						

y = 0.0116 * x + 0.5720
R = 1.0000
DL = 0.7314 ppb
BEC = 49.4 ppb

Weight: <None>
Min Conc: <None>

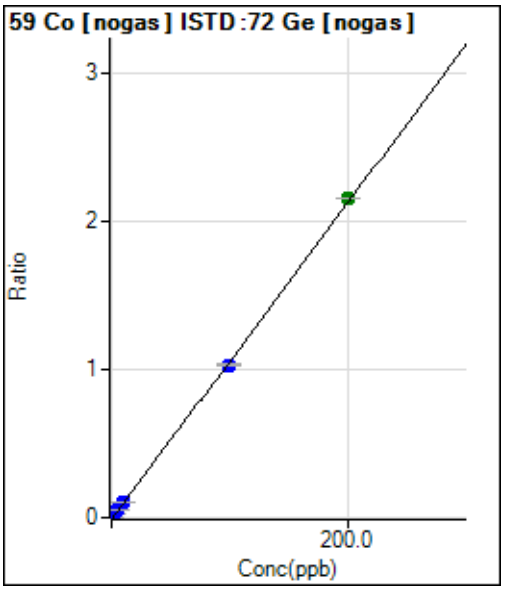


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19396.00	0.0292	P	2.1	
2	☐	200.000	183.433	1404796.70	2.1373	P	0.1	-8.3
3	☐	500.000	461.469	3469660.89	5.3325	P	0.5	-7.7
4	☐	1000.000	1014.711	7611272.39	11.6905	A	1.0	1.5
5	☐	10000.00	10051.48	73225968.91	115.542	A	1.4	0.5
6	☐	20000.00	19974.65	143568917.8	229.581	A	0.9	-0.1
7	☐	100.000						

y = 0.0115 * x + 0.0292
R = 1.0000
DL = 0.1628 ppb
BEC = 2.545 ppb

Weight: <None>
Min Conc: <None>

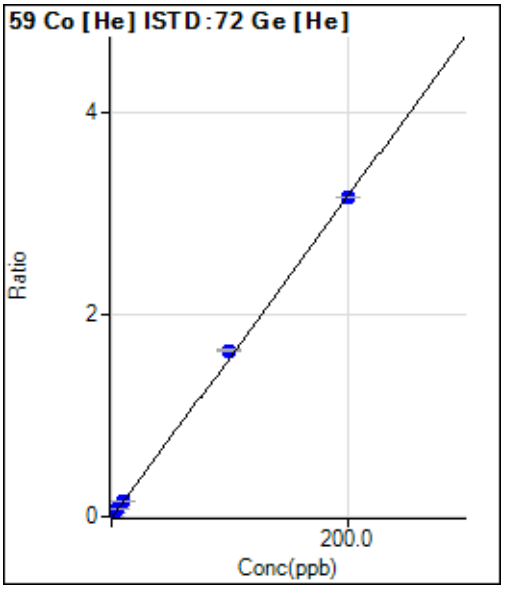
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.67	0.0001	P	9.2	
2	☐	2.000	1.913	47896.35	0.0205	P	4.9	-4.4
3	☐	5.000	4.743	117331.25	0.0507	P	2.0	-5.1
4	☐	10.000	9.616	234323.94	0.1027	P	1.2	-3.8
5	☐	100.000	96.387	2356940.07	1.0287	P	1.1	-3.6
6	☐	200.000	201.833	4778598.58	2.1540	A	0.6	0.9
7	☐	1.000						

y = 0.0107 * x + 9.6762E-005
R = 0.9998
DL = 0.002511 ppb
BEC = 0.009067 ppb

Weight: <None>
Min Conc: <None>

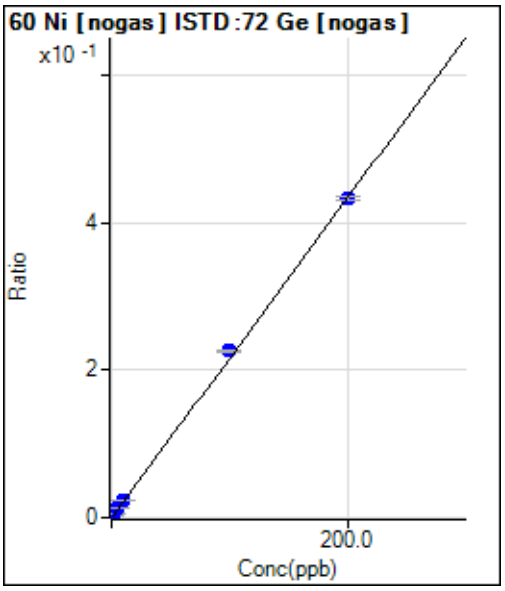


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0001	P	28.7	
2	☐	2.000	1.997	20948.18	0.0319	P	4.0	-0.1
3	☐	5.000	5.061	52468.25	0.0806	P	2.5	1.2
4	☐	10.000	9.935	102997.55	0.1582	P	1.8	-0.6
5	☐	100.000	103.244	1041500.56	1.6434	P	0.7	3.2
6	☐	200.000	198.380	1974704.76	3.1576	P	0.3	-0.8
7	☐	1.000						

y = 0.0159 * x + 8.0420E-005
R = 0.9998
DL = 0.004343 ppb
BEC = 0.005053 ppb

Weight: <None>
Min Conc: <None>

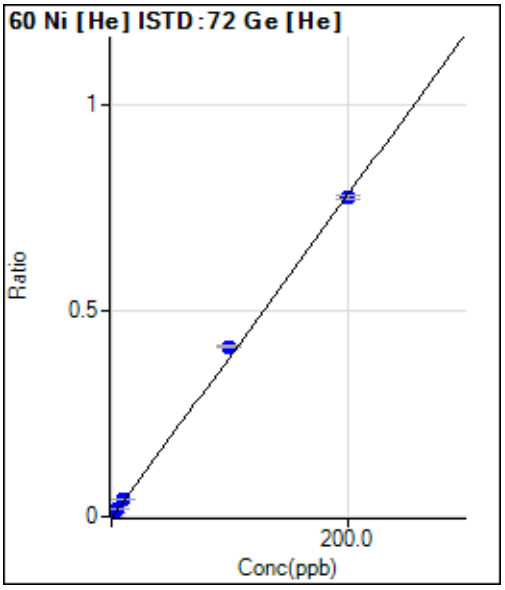
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4030.61	0.0017	P	4.5	
2	☐	2.000	1.931	13833.26	0.0059	P	3.7	-3.4
3	☐	5.000	4.900	28637.61	0.0124	P	2.4	-2.0
4	☐	10.000	10.153	54294.93	0.0238	P	1.2	1.5
5	☐	100.000	103.074	517491.36	0.2259	P	1.7	3.1
6	☐	200.000	198.458	961256.70	0.4333	P	0.7	-0.8
7	☐	1.000						

y = 0.0022 * x + 0.0017
R = 0.9998
DL = 0.1074 ppb
BEC = 0.7919 ppb

Weight: <None>
Min Conc: <None>

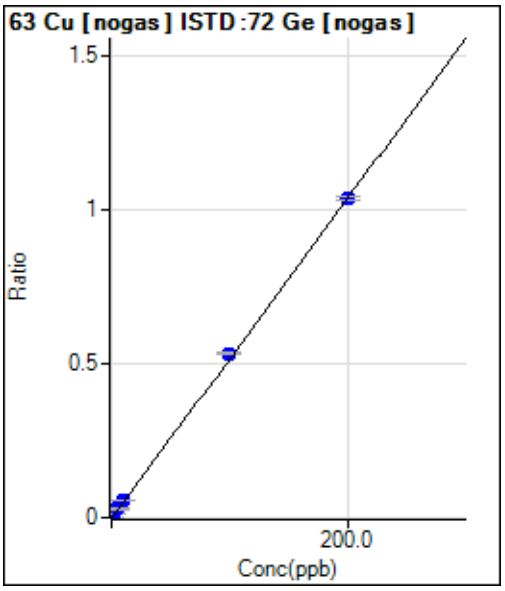


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0004	P	14.7	
2	☐	2.000	1.967	5304.34	0.0081	P	1.4	-1.7
3	☐	5.000	5.111	13269.39	0.0204	P	1.0	2.2
4	☐	10.000	10.356	26653.98	0.0410	P	4.0	3.6
5	☐	100.000	104.910	260816.09	0.4115	P	0.7	4.9
6	☐	200.000	197.525	484404.63	0.7745	P	0.7	-1.2
7	☐	1.000						

y = 0.0039 * x + 3.6180E-004
R = 0.9996
DL = 0.04061 ppb
BEC = 0.09231 ppb

Weight: <None>
Min Conc: <None>

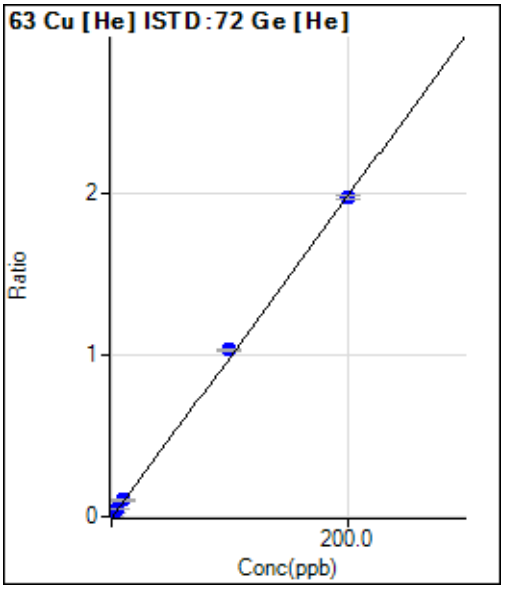
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5651.16	0.0024	P	5.9	
2	☐	2.000	2.018	30147.18	0.0129	P	3.0	0.9
3	☐	5.000	5.030	66059.00	0.0286	P	5.6	0.6
4	☐	10.000	10.259	127108.23	0.0557	P	1.8	2.6
5	☐	100.000	102.078	1220913.71	0.5329	P	1.2	2.1
6	☐	200.000	198.947	2298920.17	1.0363	P	1.1	-0.5
7	☐	1.000						

y = 0.0052 * x + 0.0024
R = 0.9999
DL = 0.08249 ppb
BEC = 0.4646 ppb

Weight: <None>
Min Conc: <None>

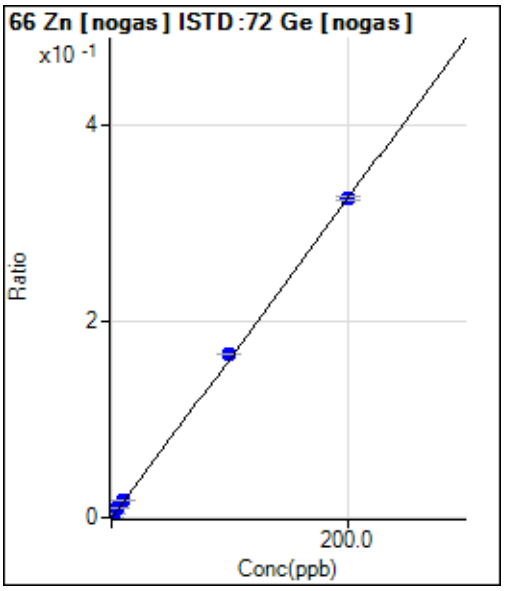


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	486.69	0.0007	P	6.7	
2	☐	2.000	2.026	13766.54	0.0209	P	2.1	1.3
3	☐	5.000	5.030	33123.49	0.0509	P	0.3	0.6
4	☐	10.000	10.099	66058.56	0.1015	P	2.5	1.0
5	☐	100.000	103.499	654741.21	1.0331	P	0.7	3.5
6	☐	200.000	198.245	1237060.73	1.9782	P	1.0	-0.9
7	☐	1.000						

y = 0.0100 * x + 7.3405E-004
R = 0.9998
DL = 0.01471 ppb
BEC = 0.07359 ppb

Weight: <None>
Min Conc: <None>

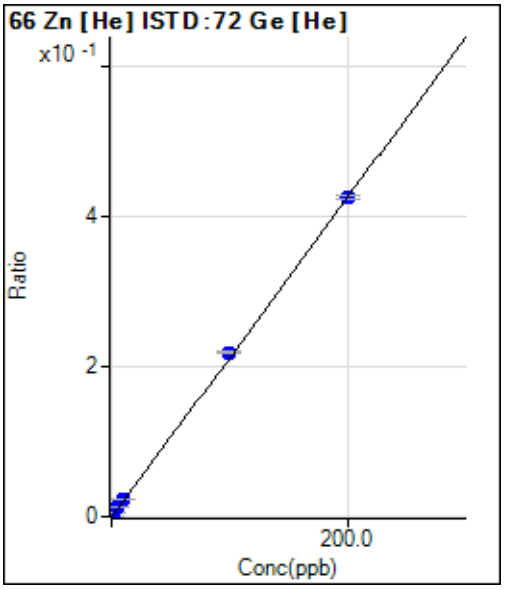
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2223.54	0.0009	P	1.3	
2	☐	2.000	2.019	9916.79	0.0042	P	7.8	1.0
3	☐	5.000	5.114	21522.44	0.0093	P	2.5	2.3
4	☐	10.000	10.491	41250.37	0.0181	P	0.6	4.9
5	☐	100.000	101.841	383215.03	0.1673	P	0.7	1.8
6	☐	200.000	199.052	723286.84	0.3260	P	0.7	-0.5
7	☐	1.000						

y = 0.0016 * x + 9.4976E-004
R = 0.9999
DL = 0.02296 ppb
BEC = 0.5816 ppb

Weight: <None>
Min Conc: <None>

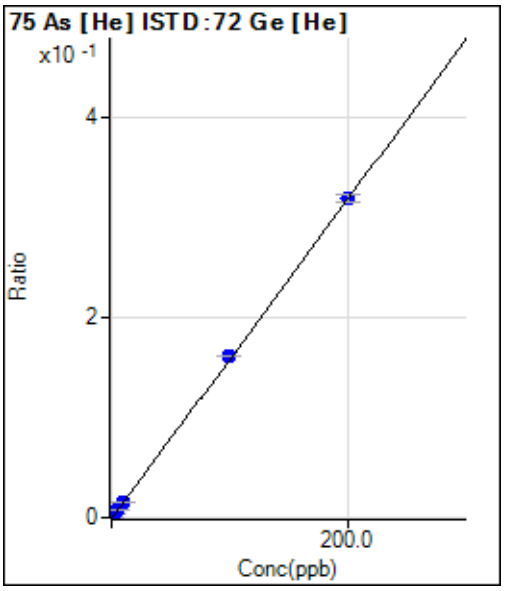


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	726.70	0.0011	P	4.2	
2	☐	2.000	1.936	3440.45	0.0052	P	5.6	-3.2
3	☐	5.000	5.052	7738.81	0.0119	P	2.0	1.0
4	☐	10.000	9.904	14497.19	0.0223	P	1.0	-1.0
5	☐	100.000	102.181	139114.48	0.2195	P	1.0	2.2
6	☐	200.000	198.914	266572.13	0.4263	P	1.6	-0.5
7	☐	1.000						

y = 0.0021 * x + 0.0011
R = 0.9999
DL = 0.06435 ppb
BEC = 0.5127 ppb

Weight: <None>
Min Conc: <None>

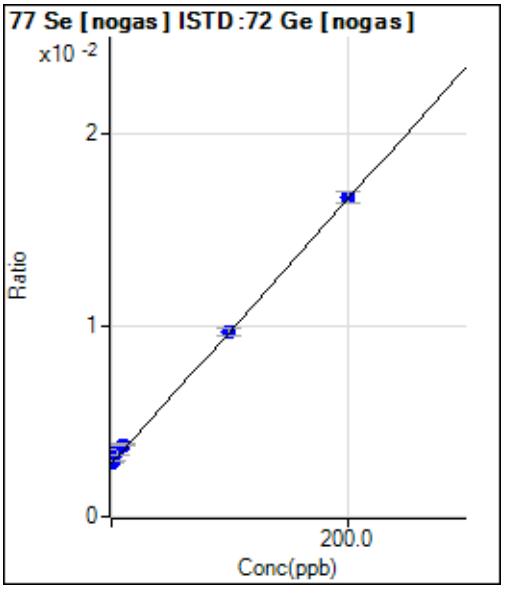
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0003	P	10.4	
2	☐	2.000	1.842	2155.72	0.0033	P	6.1	-7.9
3	☐	5.000	4.777	5192.05	0.0080	P	2.6	-4.5
4	☐	10.000	9.692	10316.95	0.0158	P	1.9	-3.1
5	☐	100.000	101.006	102682.30	0.1620	P	0.4	1.0
6	☐	200.000	199.520	199927.73	0.3197	P	1.9	-0.2
7	☐	1.000						

y = 0.0016 * x + 3.3175E-004
R = 1.0000
DL = 0.06479 ppb
BEC = 0.2072 ppb

Weight: <None>
Min Conc: <None>

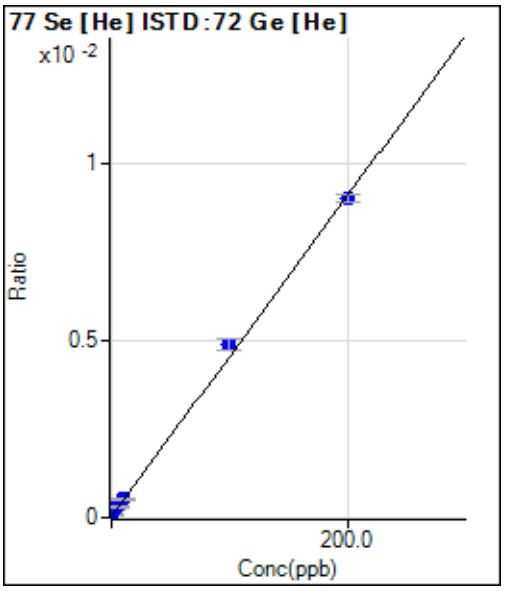


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6708.29	0.0029	P	3.2	
2	☐	2.000	1.176	6885.04	0.0029	P	1.0	-41.2
3	☐	5.000	7.522	7838.90	0.0034	P	7.5	50.4
4	☐	10.000	12.544	8515.93	0.0037	P	2.9	25.4
5	☐	100.000	98.979	22250.35	0.0097	P	4.2	-1.0
6	☐	200.000	200.328	37096.69	0.0167	P	3.9	0.2
7	☐	1.000						

y = 6.9160E-005 * x + 0.0029
R = 0.9998
DL = 3.921 ppb
BEC = 41.43 ppb

Weight: <None>
Min Conc: <None>

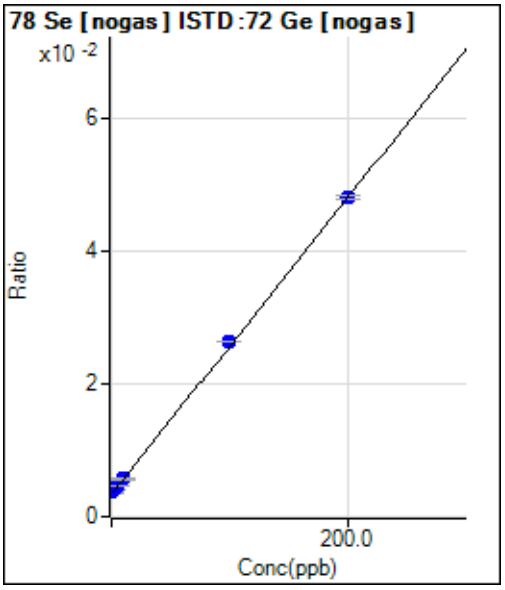
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0001	P	59.8	
2	☐	2.000	2.589	130.00	0.0002	P	0.2	29.5
3	☐	5.000	5.004	200.00	0.0003	P	17.8	0.1
4	☐	10.000	9.845	343.34	0.0005	P	15.5	-1.5
5	☐	100.000	105.720	3090.38	0.0049	P	6.5	5.7
6	☐	200.000	197.142	5644.50	0.0090	P	2.4	-1.4
7	☐	1.000						

y = 4.5368E-005 * x + 8.0306E-005
R = 0.9994
DL = 3.178 ppb
BEC = 1.77 ppb

Weight: <None>
Min Conc: <None>

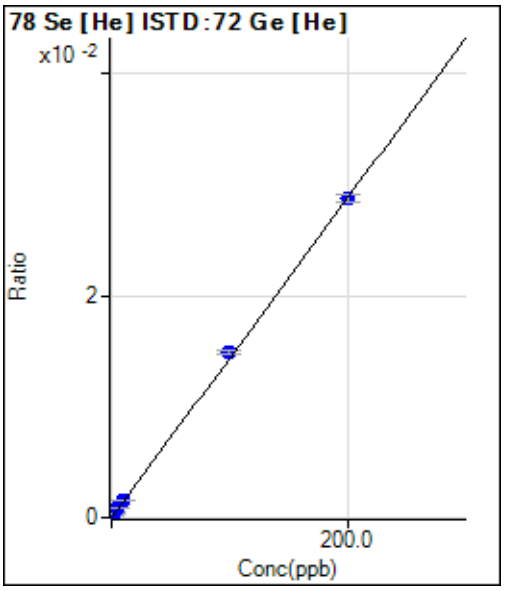


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8512.57	0.0036	P	3.7	
2	☐	2.000	1.664	9366.44	0.0040	P	1.3	-16.8
3	☐	5.000	4.700	10850.77	0.0047	P	1.5	-6.0
4	☐	10.000	9.112	12952.49	0.0057	P	1.2	-8.9
5	☐	100.000	101.877	60593.58	0.0264	P	0.5	1.9
6	☐	200.000	199.117	106979.86	0.0482	P	0.8	-0.4
7	☐	1.000						

y = 2.2391E-004 * x + 0.0036
R = 0.9999
DL = 1.807 ppb
BEC = 16.24 ppb

Weight: <None>
Min Conc: <None>

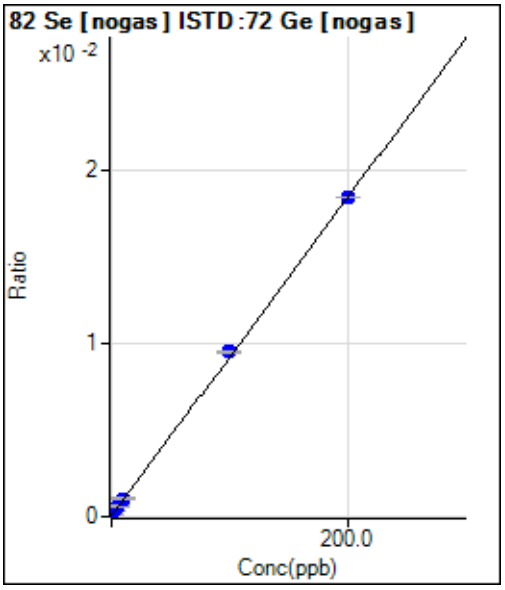
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.67	0.0001	P	7.1	
2	☐	2.000	1.931	272.67	0.0004	P	11.0	-3.5
3	☐	5.000	5.061	563.34	0.0009	P	2.4	1.2
4	☐	10.000	9.928	1020.04	0.0016	P	3.0	-0.7
5	☐	100.000	102.696	9463.04	0.0149	P	2.4	2.7
6	☐	200.000	198.655	17982.20	0.0288	P	2.1	-0.7
7	☐	1.000						

y = 1.4407E-004 * x + 1.3675E-004
R = 0.9999
DL = 0.2035 ppb
BEC = 0.9492 ppb

Weight: <None>
Min Conc: <None>

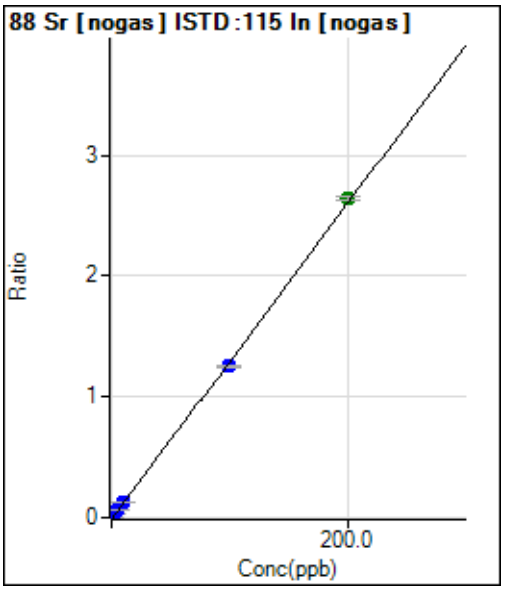


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	340.01	0.0001	P	8.9	
2	☐	2.000	2.035	776.70	0.0003	P	12.7	1.8
3	☐	5.000	4.937	1386.76	0.0006	P	10.8	-1.3
4	☐	10.000	9.544	2336.89	0.0010	P	9.4	-4.6
5	☐	100.000	101.960	21823.02	0.0095	P	1.5	2.0
6	☐	200.000	199.044	40946.97	0.0185	P	0.5	-0.5
7	☐	1.000						

y = 9.2000E-005 * x + 1.4525E-004
R = 0.9999
DL = 0.4208 ppb
BEC = 1.579 ppb

Weight: <None>
Min Conc: <None>

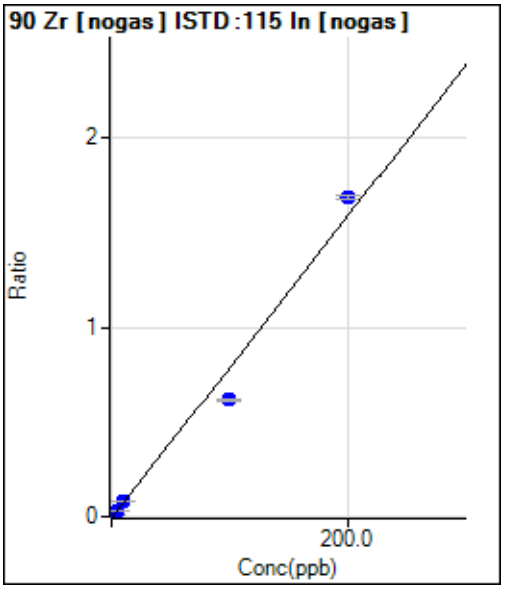
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1236.74	0.0005	P	15.1	
2	☐	2.000	1.828	62040.23	0.0244	P	1.2	-8.6
3	☐	5.000	4.554	152114.95	0.0600	P	0.7	-8.9
4	☐	10.000	9.373	307523.41	0.1230	P	1.3	-6.3
5	☐	100.000	95.972	3129169.85	1.2552	P	1.2	-4.0
6	☐	200.000	202.058	6335917.61	2.6422	A	1.5	1.0
7	☐	1.000						

y = 0.0131 * x + 4.8245E-004
R = 0.9997
DL = 0.01677 ppb
BEC = 0.0369 ppb

Weight: <None>
Min Conc: <None>

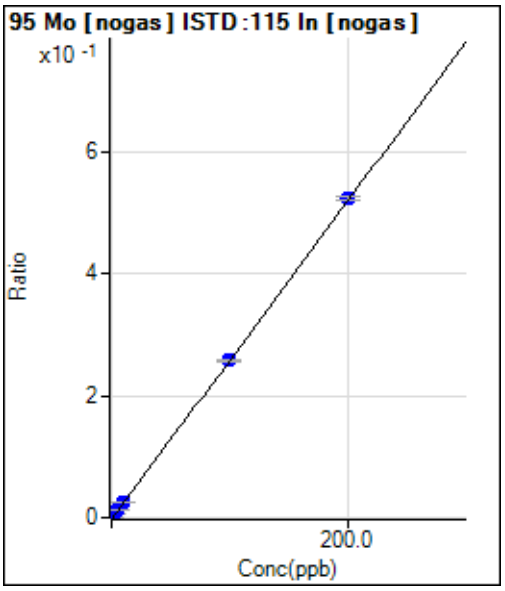


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1563.44	0.0006	P	3.7	
2	☐	2.000	1.531	32629.99	0.0128	P	2.8	-23.4
3	☐	5.000	4.210	86651.06	0.0342	P	1.8	-15.8
4	☐	10.000	9.530	191566.46	0.0766	P	0.7	-4.7
5	☐	100.000	77.389	1540530.39	0.6180	P	1.1	-22.6
6	☐	200.000	211.353	4044434.00	1.6867	P	1.3	5.7
7	☐	1.000						

y = 0.0080 * x + 6.1016E-004
R = 0.9915
DL = 0.008587 ppb
BEC = 0.07649 ppb

Weight: <None>
Min Conc: <None>

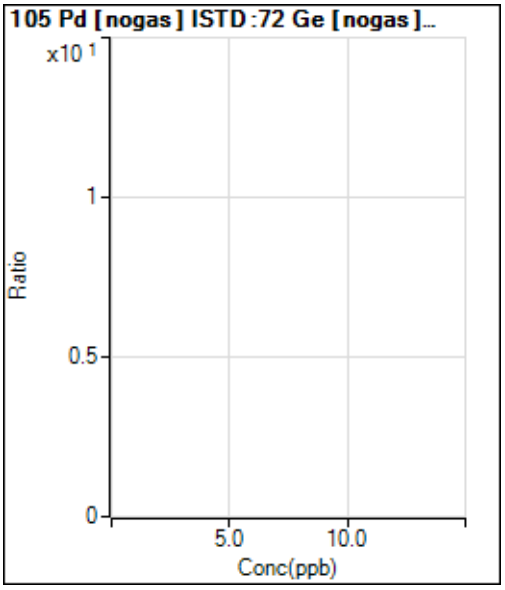
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	293.34	0.0001	P	18.8	
2	☐	2.000	1.868	12665.66	0.0050	P	3.5	-6.6
3	☐	5.000	4.656	31023.06	0.0122	P	4.1	-6.9
4	☐	10.000	9.660	63189.23	0.0253	P	1.6	-3.4
5	☐	100.000	98.685	641159.64	0.2572	P	1.4	-1.3
6	☐	200.000	200.684	1253854.77	0.5229	P	1.4	0.3
7	☐	1.000						

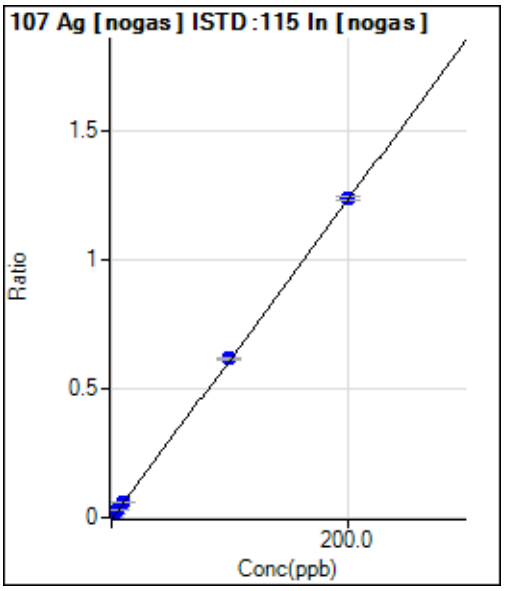
y = 0.0026 * x + 1.1449E-004
R = 1.0000
DL = 0.02478 ppb
BEC = 0.04395 ppb

Weight: <None>
Min Conc: <None>



	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						

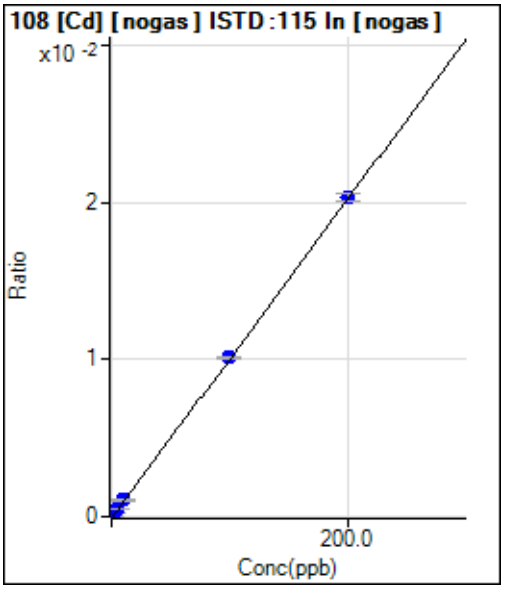
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	120.00	0.0000	P	52.1	
2	☐	2.000	1.921	30391.91	0.0119	P	3.1	-4.0
3	☐	5.000	4.952	77874.22	0.0307	P	2.0	-1.0
4	☐	10.000	9.996	154954.06	0.0620	P	2.0	0.0
5	☐	100.000	99.868	1542854.25	0.6189	P	1.1	-0.1
6	☐	200.000	200.068	2972694.96	1.2398	P	0.7	0.0
7	☐	1.000						

y = 0.0062 * x + 4.6827E-005
R = 1.0000
DL = 0.01182 ppb
BEC = 0.007557 ppb

Weight: <None>
Min Conc: <None>

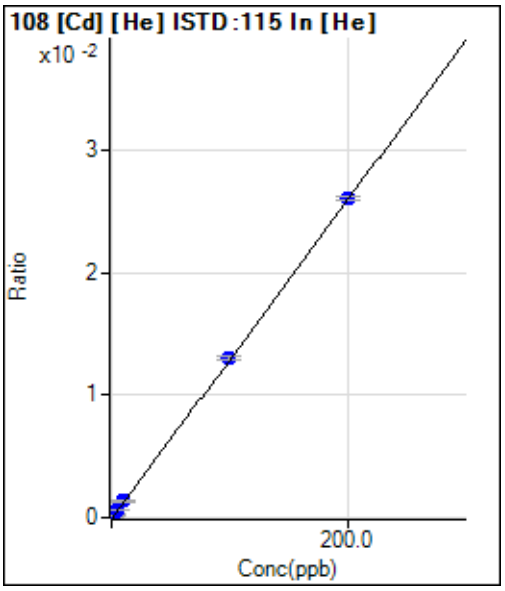


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.944	510.02	0.0002	P	10.2	-2.8
3	☐	5.000	4.796	1243.41	0.0005	P	3.2	-4.1
4	☐	10.000	10.655	2716.97	0.0011	P	9.3	6.6
5	☐	100.000	99.745	25312.34	0.0102	P	1.3	-0.3
6	☐	200.000	200.100	48839.09	0.0204	P	2.1	0.1
7	☐	1.000						

y = 1.0177E-004 * x + 2.5966E-006
R = 1.0000
DL = 0.06629 ppb
BEC = 0.02551 ppb

Weight: <None>
Min Conc: <None>

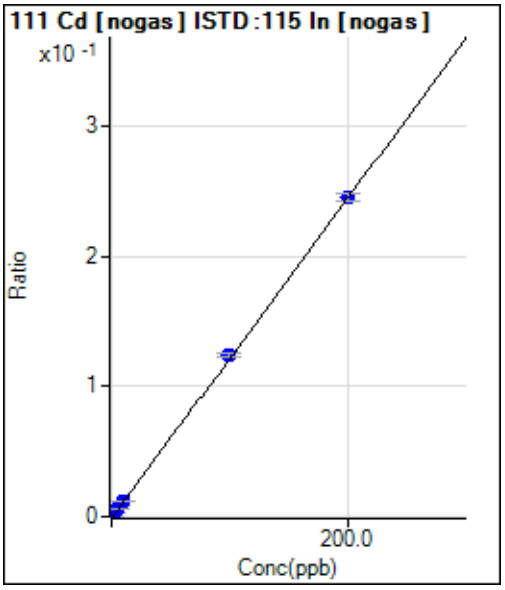
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	99.9	
2	☐	2.000	1.731	213.34	0.0002	P	18.2	-13.5
3	☐	5.000	4.472	530.02	0.0006	P	6.7	-10.6
4	☐	10.000	10.172	1196.74	0.0013	P	7.6	1.7
5	☐	100.000	100.103	11274.60	0.0131	P	2.1	0.1
6	☐	200.000	199.956	22040.31	0.0261	P	1.3	0.0
7	☐	1.000						

y = 1.3060E-004 * x + 1.1086E-005
R = 1.0000
DL = 0.2543 ppb
BEC = 0.08489 ppb

Weight: <None>
Min Conc: <None>

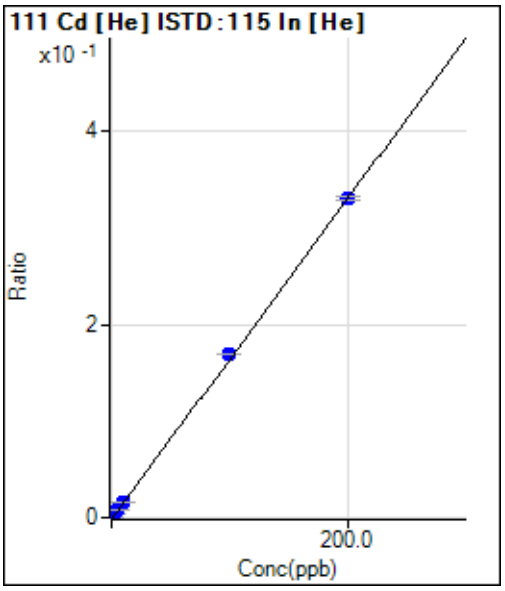


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.18	0.0000	P	253.2	
2	☐	2.000	1.930	6041.02	0.0024	P	5.0	-3.5
3	☐	5.000	4.808	14981.92	0.0059	P	3.1	-3.8
4	☐	10.000	9.649	29648.24	0.0119	P	3.0	-3.5
5	☐	100.000	100.948	309307.76	0.1241	P	2.2	0.9
6	☐	200.000	199.549	588113.26	0.2453	P	2.0	-0.2
7	☐	1.000						

y = 0.0012 * x + 2.4116E-006
R = 1.0000
DL = 0.0149 ppb
BEC = 0.001962 ppb

Weight: <None>
Min Conc: <None>

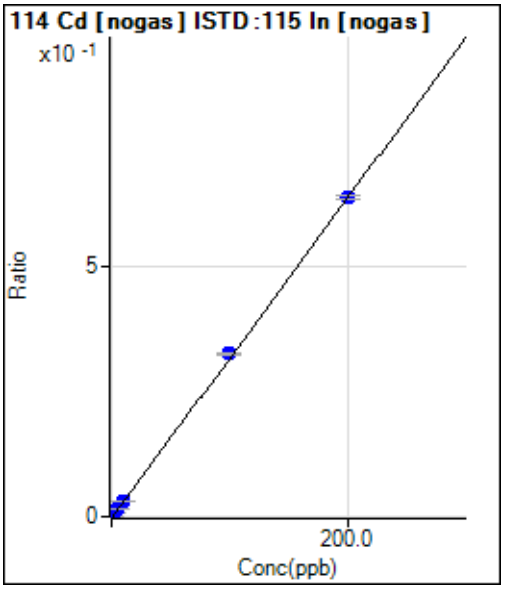
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-10.73	0.0000	P	-99.9	
2	☐	2.000	1.978	2951.50	0.0033	P	8.4	-1.1
3	☐	5.000	4.743	7016.74	0.0079	P	1.7	-5.1
4	☐	10.000	9.489	14091.08	0.0158	P	5.3	-5.1
5	☐	100.000	102.046	146265.83	0.1697	P	0.6	2.0
6	☐	200.000	199.009	279231.58	0.3310	P	1.1	-0.5
7	☐	1.000						

y = 0.0017 * x - 1.1895E-005
R = 0.9999
DL = 0.02142 ppb
BEC = -0.007151 ppb

Weight: <None>
Min Conc: <None>

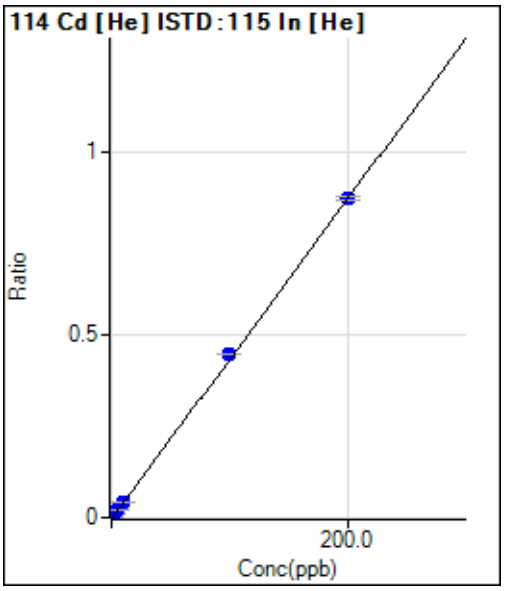


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0000	P	33.7	
2	☐	2.000	1.848	15198.22	0.0060	P	3.2	-7.6
3	☐	5.000	4.804	39206.64	0.0155	P	0.6	-3.9
4	☐	10.000	9.777	78612.78	0.0314	P	1.1	-2.2
5	☐	100.000	101.501	813121.55	0.3261	P	1.3	1.5
6	☐	200.000	199.267	1535178.99	0.6402	P	0.7	-0.4
7	☐	1.000						

y = 0.0032 * x + 3.7783E-005
R = 1.0000
DL = 0.01189 ppb
BEC = 0.01176 ppb

Weight: <None>
Min Conc: <None>

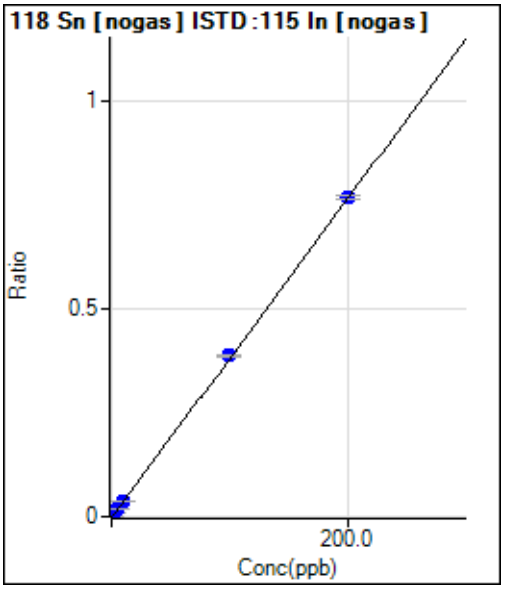
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	85.4	
2	☐	2.000	1.884	7458.70	0.0083	P	4.5	-5.8
3	☐	5.000	4.794	18715.65	0.0210	P	2.9	-4.1
4	☐	10.000	9.580	37475.59	0.0419	P	0.1	-4.2
5	☐	100.000	101.564	382854.60	0.4443	P	0.2	1.6
6	☐	200.000	199.245	735175.93	0.8715	P	1.0	-0.4
7	☐	1.000						

y = 0.0044 * x + 4.3782E-005
R = 1.0000
DL = 0.02565 ppb
BEC = 0.01001 ppb

Weight: <None>
Min Conc: <None>

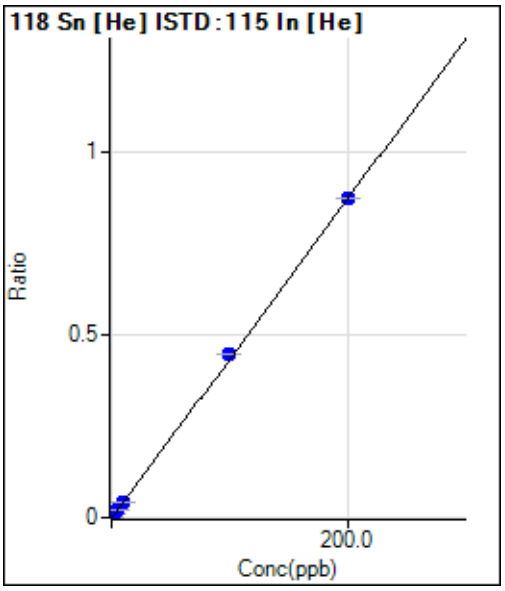


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3240.42	0.0013	P	6.5	
2	☐	2.000	1.811	20912.11	0.0082	P	4.7	-9.5
3	☐	5.000	4.579	47775.92	0.0189	P	3.6	-8.4
4	☐	10.000	9.624	95581.69	0.0382	P	1.6	-3.8
5	☐	100.000	100.551	966162.72	0.3875	P	1.5	0.6
6	☐	200.000	199.756	1843121.17	0.7686	P	1.5	-0.1
7	☐	1.000						

y = 0.0038 * x + 0.0013
R = 1.0000
DL = 0.06438 ppb
BEC = 0.3292 ppb

Weight: <None>
Min Conc: <None>

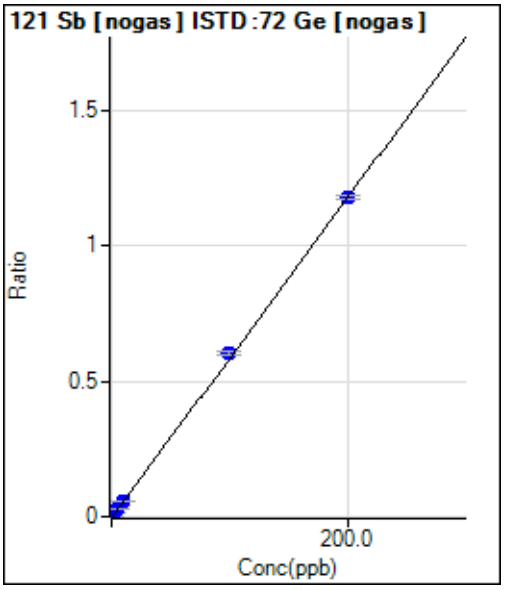
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1493.44	0.0016	P	7.4	
2	☐	2.000	1.686	8109.06	0.0090	P	2.6	-15.7
3	☐	5.000	4.610	19390.02	0.0218	P	3.1	-7.8
4	☐	10.000	9.446	38317.83	0.0429	P	0.7	-5.5
5	☐	100.000	101.670	383955.34	0.4456	P	0.9	1.7
6	☐	200.000	199.206	735121.37	0.8714	P	0.3	-0.4
7	☐	1.000						

y = 0.0044 * x + 0.0016
R = 0.9999
DL = 0.08419 ppb
BEC = 0.3769 ppb

Weight: <None>
Min Conc: <None>

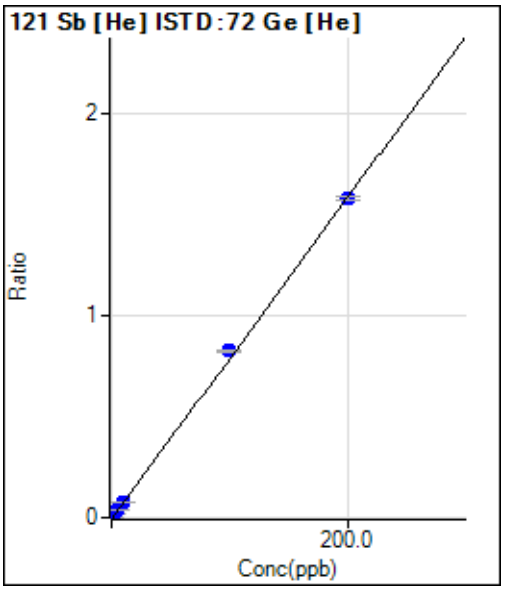


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	793.37	0.0003	P	8.7	
2	☐	2.000	1.876	26708.46	0.0114	P	2.7	-6.2
3	☐	5.000	4.656	64487.71	0.0279	P	1.8	-6.9
4	☐	10.000	9.691	131492.44	0.0576	P	2.3	-3.1
5	☐	100.000	101.810	1380166.80	0.6024	P	1.8	1.8
6	☐	200.000	199.120	2613116.73	1.1778	P	1.1	-0.4
7	☐	1.000						

y = 0.0059 * x + 3.3902E-004
R = 0.9999
DL = 0.01503 ppb
BEC = 0.05733 ppb

Weight: <None>
Min Conc: <None>

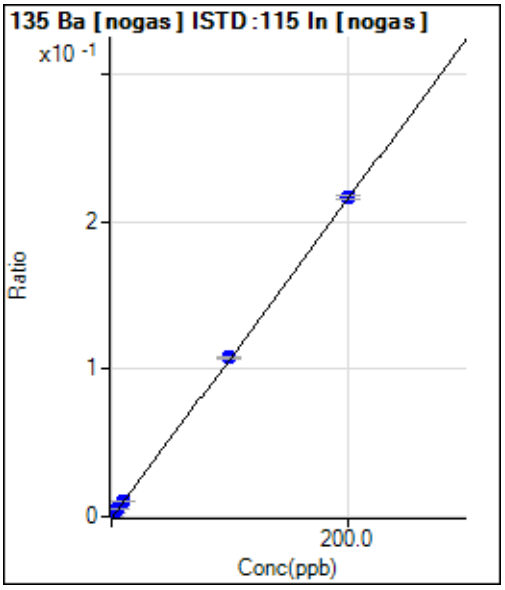
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0006	P	5.3	
2	☐	2.000	1.823	9933.59	0.0151	P	0.9	-8.8
3	☐	5.000	4.709	24824.94	0.0382	P	1.4	-5.8
4	☐	10.000	9.776	51167.62	0.0786	P	2.2	-2.2
5	☐	100.000	103.381	523401.37	0.8259	P	0.2	3.4
6	☐	200.000	198.330	990468.03	1.5839	P	1.2	-0.8
7	☐	1.000						

y = 0.0080 * x + 5.5795E-004
R = 0.9998
DL = 0.01113 ppb
BEC = 0.06989 ppb

Weight: <None>
Min Conc: <None>

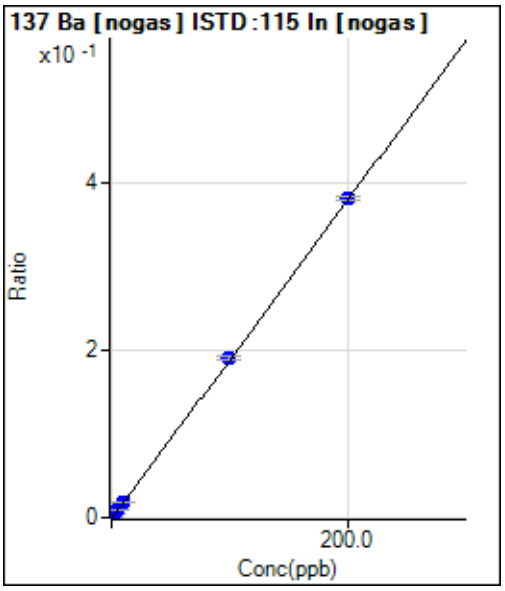


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.33	0.0000	P	13.7	
2	☐	2.000	1.929	5431.15	0.0021	P	4.2	-3.6
3	☐	5.000	4.755	13169.64	0.0052	P	2.3	-4.9
4	☐	10.000	9.817	26701.94	0.0107	P	1.7	-1.8
5	☐	100.000	99.616	269215.56	0.1080	P	1.5	-0.4
6	☐	200.000	200.208	520308.98	0.2170	P	1.5	0.1
7	☐	1.000						

y = 0.0011 * x + 4.4246E-005
R = 1.0000
DL = 0.01682 ppb
BEC = 0.04083 ppb

Weight: <None>
Min Conc: <None>

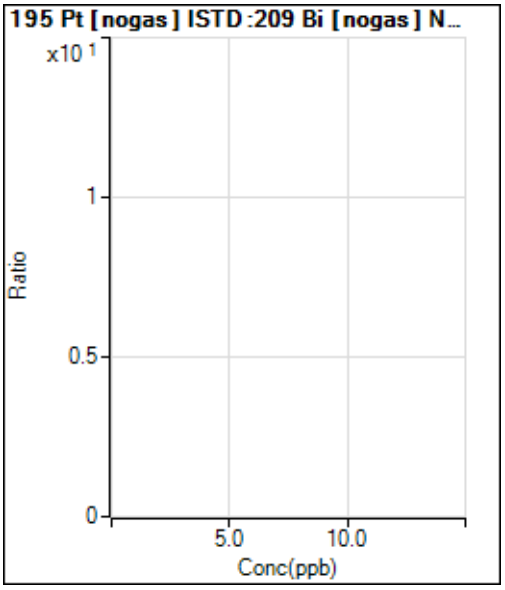
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	206.67	0.0001	P	16.1	
2	☐	2.000	1.850	9159.72	0.0036	P	3.8	-7.5
3	☐	5.000	4.833	23506.32	0.0093	P	1.9	-3.3
4	☐	10.000	9.742	46539.60	0.0186	P	1.5	-2.6
5	☐	100.000	99.850	473898.59	0.1901	P	1.7	-0.2
6	☐	200.000	200.094	913184.83	0.3808	P	1.3	0.0
7	☐	1.000						

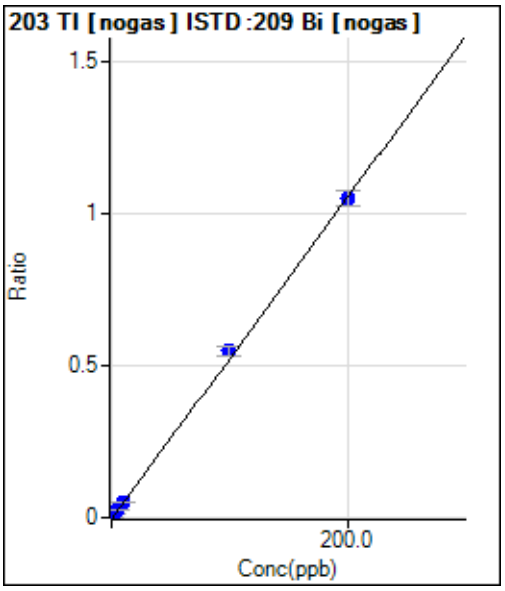
y = 0.0019 * x + 8.0722E-005
R = 1.0000
DL = 0.02049 ppb
BEC = 0.04242 ppb

Weight: <None>
Min Conc: <None>



	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						

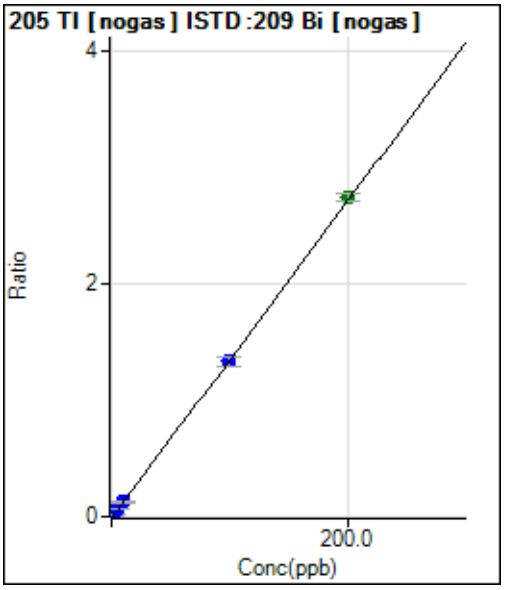
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	22.2	
2	☐	2.000	1.870	22285.17	0.0099	P	4.1	-6.5
3	☐	5.000	4.713	55593.25	0.0250	P	4.5	-5.7
4	☐	10.000	9.701	113874.57	0.0515	P	4.4	-3.0
5	☐	100.000	103.665	1214383.03	0.5504	P	5.7	3.7
6	☐	200.000	198.191	2265139.29	1.0522	P	4.4	-0.9
7	☐	1.000						

y = 0.0053 * x + 1.8004E-005
R = 0.9998
DL = 0.002262 ppb
BEC = 0.003391 ppb

Weight: <None>
Min Conc: <None>

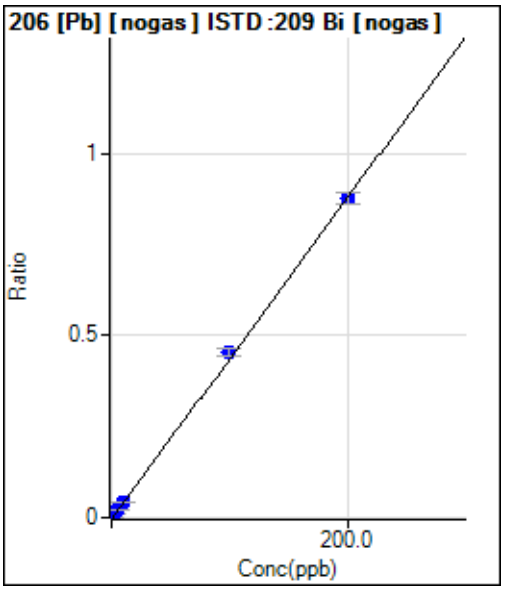


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0001	P	24.5	
2	☐	2.000	1.758	53806.35	0.0240	P	3.6	-12.1
3	☐	5.000	4.492	135892.41	0.0612	P	4.5	-10.2
4	☐	10.000	9.109	274140.02	0.1240	P	4.5	-8.9
5	☐	100.000	97.606	2930867.35	1.3283	P	5.6	-2.4
6	☐	200.000	201.257	5897276.16	2.7387	A	2.8	0.6
7	☐	1.000						

y = 0.0136 * x + 8.4032E-005
R = 0.9999
DL = 0.004534 ppb
BEC = 0.006175 ppb

Weight: <None>
Min Conc: <None>

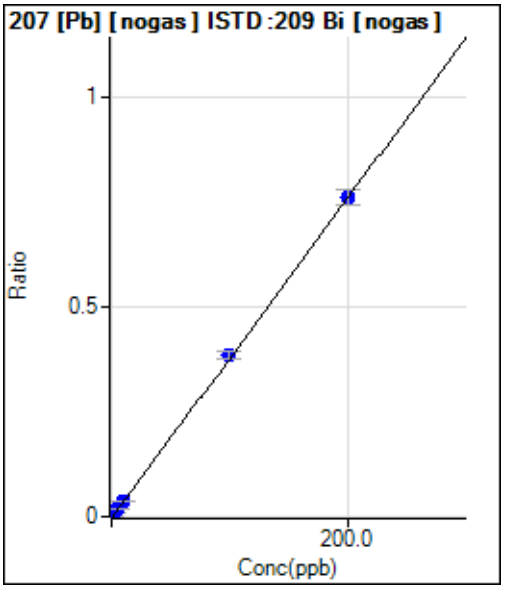
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	200.01	0.0001	P	6.8	
2	☐	2.000	1.910	19137.00	0.0085	P	4.5	-4.5
3	☐	5.000	4.779	47161.72	0.0212	P	2.8	-4.4
4	☐	10.000	9.837	96402.71	0.0436	P	4.0	-1.6
5	☐	100.000	103.192	1007880.56	0.4567	P	4.4	3.2
6	☐	200.000	198.418	1890204.35	0.8780	P	3.9	-0.8
7	☐	1.000						

y = 0.0044 * x + 9.0233E-005
R = 0.9998
DL = 0.004169 ppb
BEC = 0.02039 ppb

Weight: <None>
Min Conc: <None>

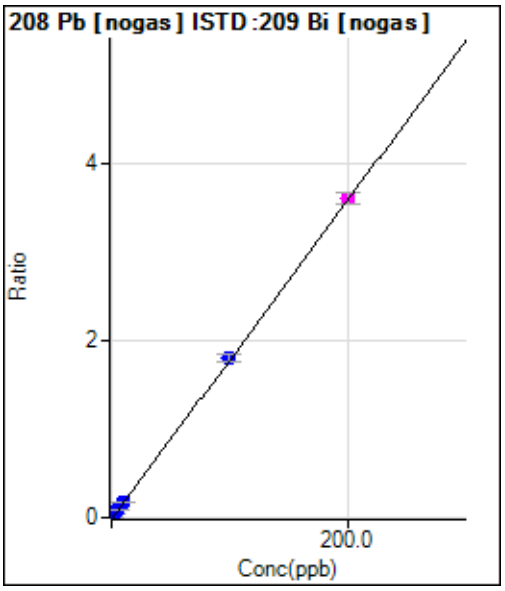


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146.67	0.0001	P	31.2	
2	☐	2.000	1.914	16526.90	0.0074	P	5.3	-4.3
3	☐	5.000	4.834	41139.06	0.0185	P	4.6	-3.3
4	☐	10.000	9.899	83722.98	0.0379	P	3.0	-1.0
5	☐	100.000	101.213	853115.01	0.3866	P	5.1	1.2
6	☐	200.000	199.404	1639534.35	0.7616	P	4.3	-0.3
7	☐	1.000						

y = 0.0038 * x + 6.6752E-005
R = 1.0000
DL = 0.01637 ppb
BEC = 0.01748 ppb

Weight: <None>
Min Conc: <None>

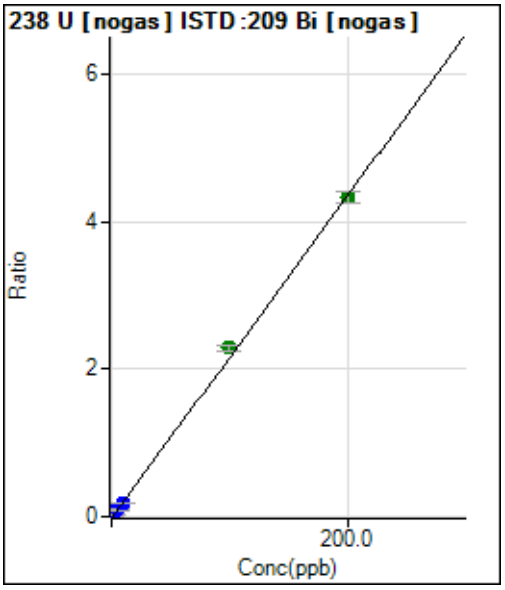
Calibration for 348_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	736.68	0.0003	P	8.7	
2	☐	2.000	1.861	76054.16	0.0340	P	5.4	-7.0
3	☐	5.000	4.684	188706.16	0.0850	P	3.8	-6.3
4	☐	10.000	9.606	384394.25	0.1739	P	4.1	-3.9
5	☐	100.000	99.704	3976799.71	1.8020	P	4.7	-0.3
6	☐	200.000	200.177	7789320.41	3.6175	M	3.7	0.1
7	☐	1.000						

y = 0.0181 * x + 3.3331E-004
R = 1.0000
DL = 0.004807 ppb
BEC = 0.01845 ppb

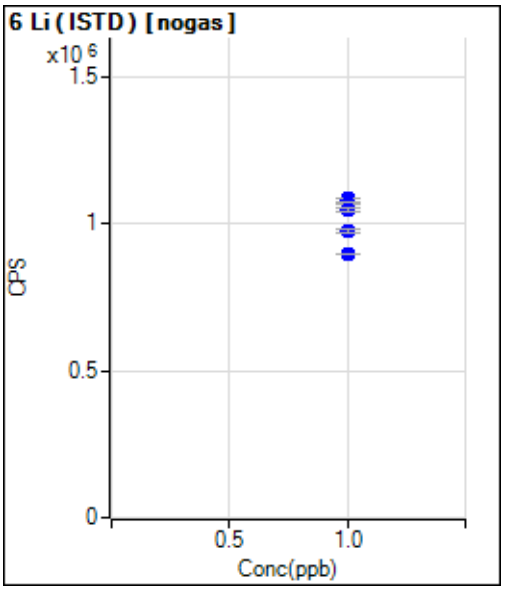
Weight: <None>
Min Conc: <None>



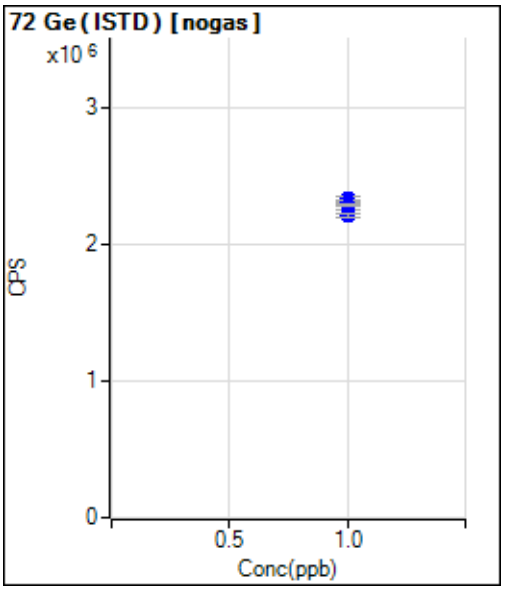
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	343.34	0.0002	P	17.8	
2	☐	2.000	1.650	81243.22	0.0363	P	4.7	-17.5
3	☐	5.000	4.206	204733.81	0.0922	P	3.9	-15.9
4	☐	10.000	8.605	416579.30	0.1884	P	3.6	-14.0
5	☐	100.000	104.500	5048455.65	2.2869	A	3.3	4.5
6	☐	200.000	197.843	9321271.95	4.3294	A	3.8	-1.1
7	☐	1.000						

y = 0.0219 * x + 1.5575E-004
R = 0.9996
DL = 0.003811 ppb
BEC = 0.007118 ppb

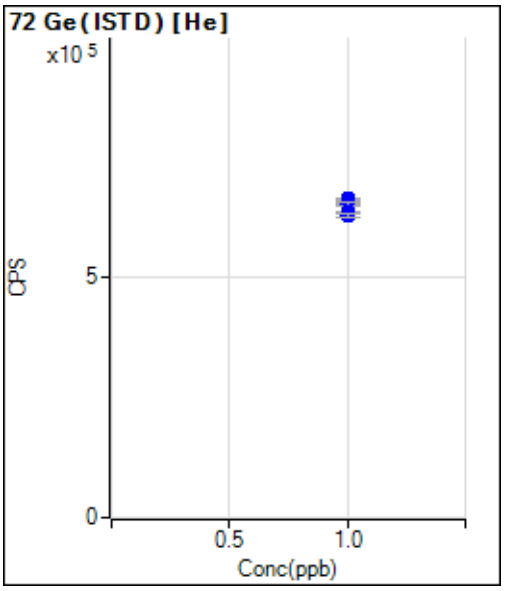
Weight: <None>
Min Conc: <None>



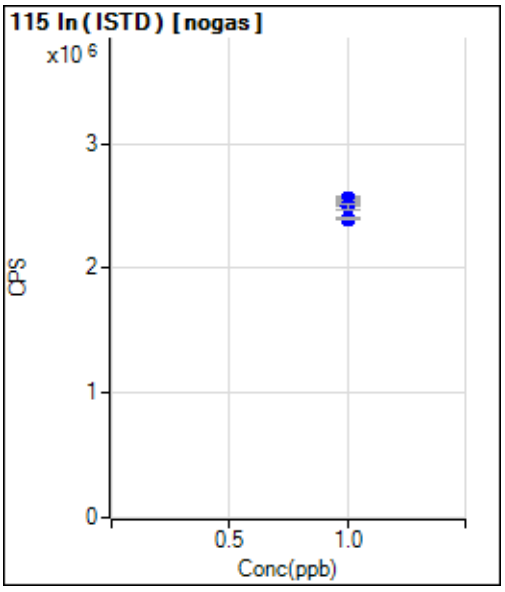
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1085588.74		P	0.5	
2	☐	1.000		1080067.43		P	0.9	
3	☐	1.000		1067748.26		P	0.9	
4	☐	1.000		1047380.73		P	1.2	
5	☐	1.000		974928.51		P	1.4	
6	☐	1.000		897032.31		P	0.3	
7	☐	1.000						



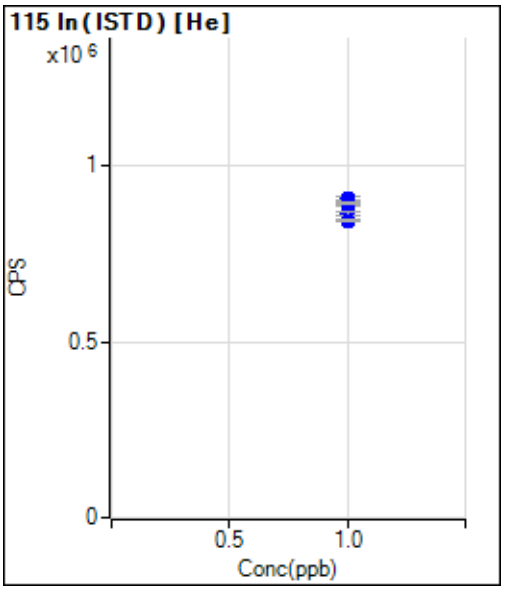
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2341114.44		P	1.0	
2	☐	1.000		2336547.05		P	1.6	
3	☐	1.000		2314208.97		P	1.3	
4	☐	1.000		2281388.98		P	1.6	
5	☐	1.000		2291063.45		P	0.6	
6	☐	1.000		2218518.66		P	1.2	
7	☐	1.000						



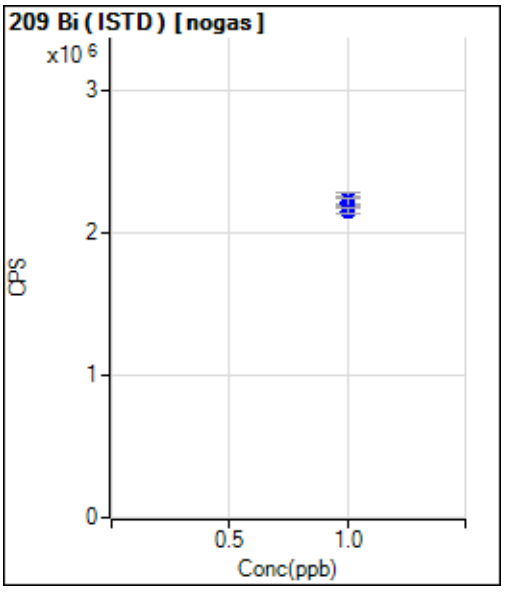
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		663133.64		P	0.4	
2	☐	1.000		657281.68		P	0.2	
3	☐	1.000		650663.19		P	0.5	
4	☐	1.000		651124.56		P	1.7	
5	☐	1.000		633750.43		P	0.2	
6	☐	1.000		625396.97		P	1.3	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2561975.01		P	0.6	
2	☐	1.000		2544219.17		P	1.1	
3	☐	1.000		2534047.04		P	0.4	
4	☐	1.000		2499770.31		P	0.3	
5	☐	1.000		2493145.66		P	1.5	
6	☐	1.000		2397798.51		P	0.7	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		907525.12		P	1.2	
2	☐	1.000		900201.88		P	0.7	
3	☐	1.000		890654.02		P	0.7	
4	☐	1.000		893420.70		P	0.6	
5	☐	1.000		861788.75		P	1.2	
6	☐	1.000		843593.63		P	0.8	
7	☐	1.000						



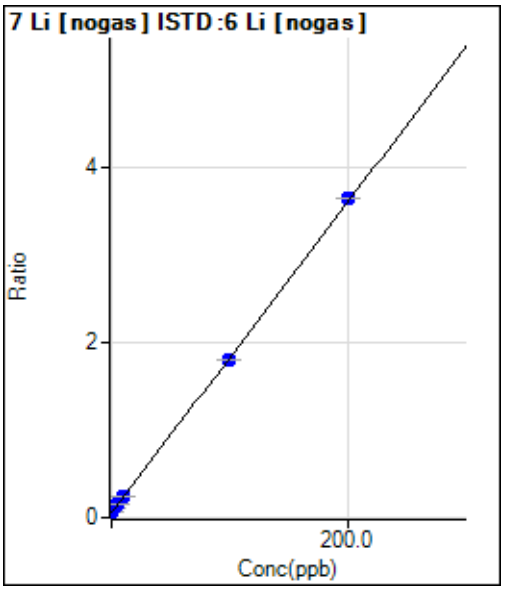
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2213556.68		P	3.6	
2	☐	1.000		2243054.71		P	3.9	
3	☐	1.000		2222329.45		P	3.0	
4	☐	1.000		2212152.88		P	3.0	
5	☐	1.000		2209138.87		P	3.2	
6	☐	1.000		2154192.68		P	2.3	
7	☐	1.000						

Calibration for 292_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070524A.b\
Analysis File: 070524A.batch.bin
DA Date-Time: 7/6/2024 10:31:27 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	285CALB.d	CAL BLK	7/5/2024 8:42:07 PM
2	286CALS.d	2/10/200	7/5/2024 8:44:25 PM
3	287CALS.d	5/25/500	7/5/2024 8:46:43 PM
4	288CALS.d	10/50/1000	7/5/2024 8:49:01 PM
5	289CALS.d	100/500/10K	7/5/2024 8:51:19 PM
6	290CALS.d	200/1000/20K	7/5/2024 8:53:37 PM
7			

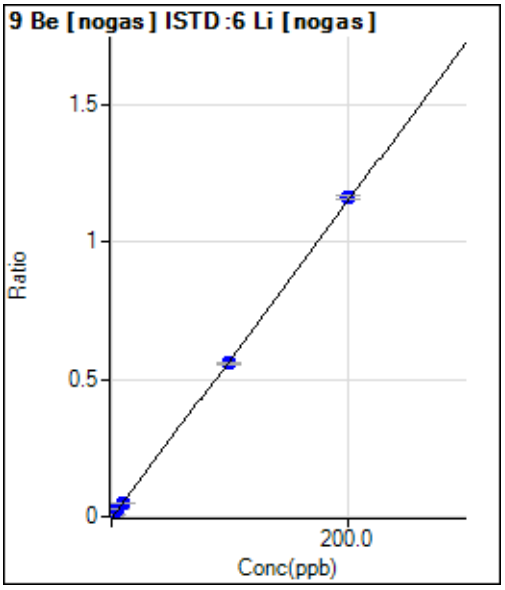
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56262.53	0.0716	P	0.4	
2	☐	2.000	1.884	81300.25	0.1051	P	2.5	-5.8
3	☐	5.000	4.538	118003.27	0.1522	P	0.4	-9.2
4	☐	10.000	9.233	181524.31	0.2357	P	0.8	-7.7
5	☐	100.000	97.429	1309515.71	1.8035	P	1.1	-2.6
6	☐	200.000	201.337	2491222.72	3.6505	P	0.2	0.7
7	☐	1.000						

y = 0.0178 * x + 0.0716
R = 0.9999
DL = 0.04899 ppb
BEC = 4.027 ppb

Weight: <None>
Min Conc: <None>

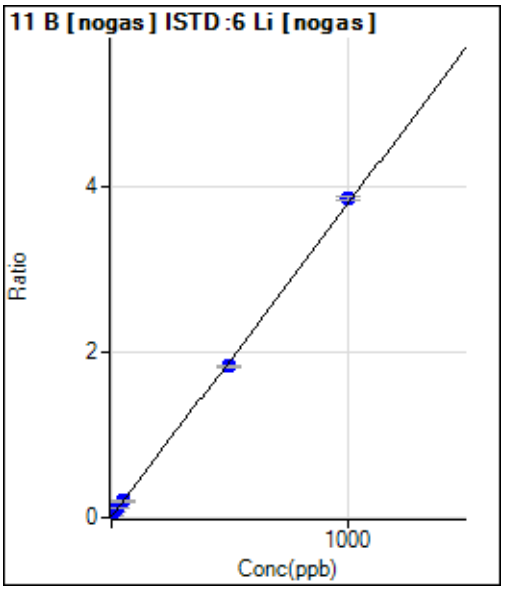


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	51.67	0.0001	P	27.9	
2	☐	2.000	1.721	7726.98	0.0100	P	2.5	-13.9
3	☐	5.000	4.420	19794.31	0.0255	P	1.8	-11.6
4	☐	10.000	8.927	39670.45	0.0515	P	1.9	-10.7
5	☐	100.000	96.956	405797.35	0.5589	P	0.9	-3.0
6	☐	200.000	201.593	792916.37	1.1619	P	0.8	0.8
7	☐	1.000						

y = 0.0058 * x + 6.5728E-005
R = 0.9998
DL = 0.009537 ppb
BEC = 0.0114 ppb

Weight: <None>
Min Conc: <None>

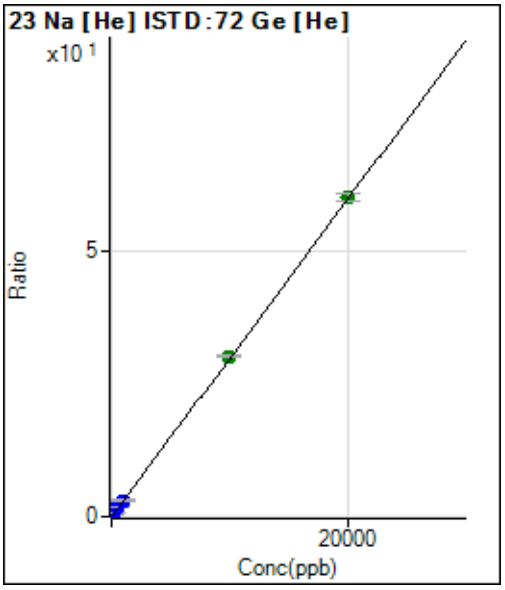
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24437.62	0.0311	P	1.7	
2	☐	10.000	8.443	48732.78	0.0630	P	2.0	-15.6
3	☐	25.000	21.563	87227.78	0.1125	P	0.3	-13.7
4	☐	50.000	44.204	152517.74	0.1981	P	2.0	-11.6
5	☐	500.000	475.012	1325439.02	1.8252	P	0.2	-5.0
6	☐	1000.000	1012.885	2631999.44	3.8568	P	1.5	1.3
7	☐	5.000						

y = 0.0038 * x + 0.0311
R = 0.9996
DL = 0.4161 ppb
BEC = 8.233 ppb

Weight: <None>
Min Conc: <None>

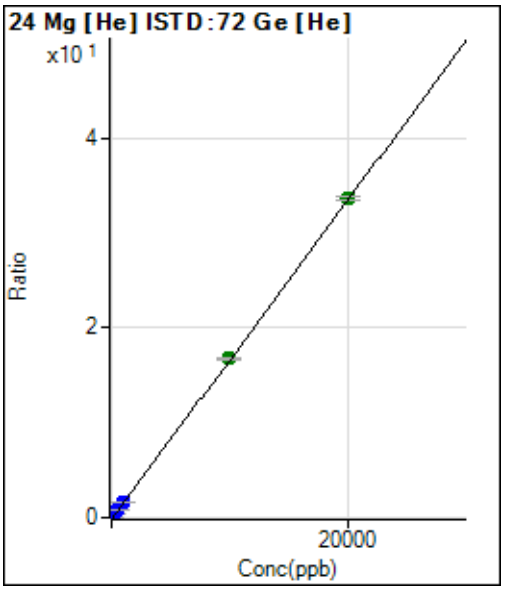


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113538.44	0.2385	P	1.5	
2	☐	200.000	187.407	389727.08	0.8005	P	0.5	-6.3
3	☐	500.000	470.378	804276.27	1.6492	P	0.2	-5.9
4	☐	1000.000	948.620	1499295.24	3.0834	P	0.9	-5.1
5	☐	10000.00	9976.027	14592448.11	30.1566	A	1.2	-0.2
6	☐	20000.00	20015.42	28701007.07	60.2646	A	2.3	0.1
7	☐	100.000						

y = 0.0030 * x + 0.2385
R = 1.0000
DL = 3.478 ppb
BEC = 79.53 ppb

Weight: <None>
Min Conc: <None>

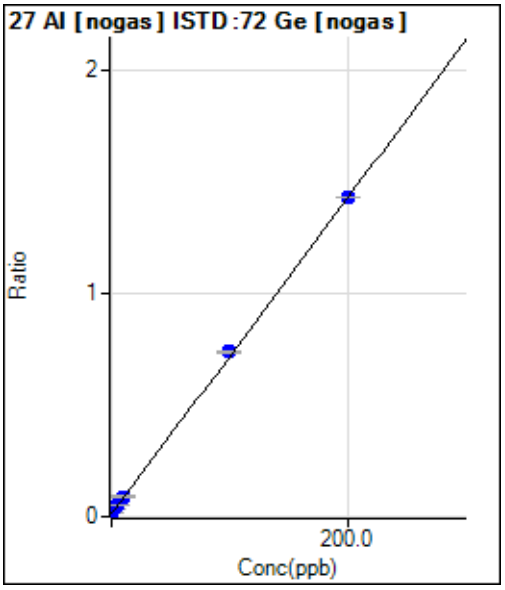
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1333.42	0.0028	P	6.1	
2	☐	200.000	186.433	153813.42	0.3160	P	0.7	-6.8
3	☐	500.000	473.713	389410.15	0.7985	P	0.7	-5.3
4	☐	1000.000	939.518	768711.16	1.5809	P	1.3	-6.0
5	☐	10000.00	9971.160	8106131.75	16.7516	A	0.8	-0.3
6	☐	20000.00	20018.23	16015732.26	33.6278	A	1.4	0.1
7	☐	100.000						

y = 0.0017 * x + 0.0028
R = 1.0000
DL = 0.3063 ppb
BEC = 1.668 ppb

Weight: <None>
Min Conc: <None>

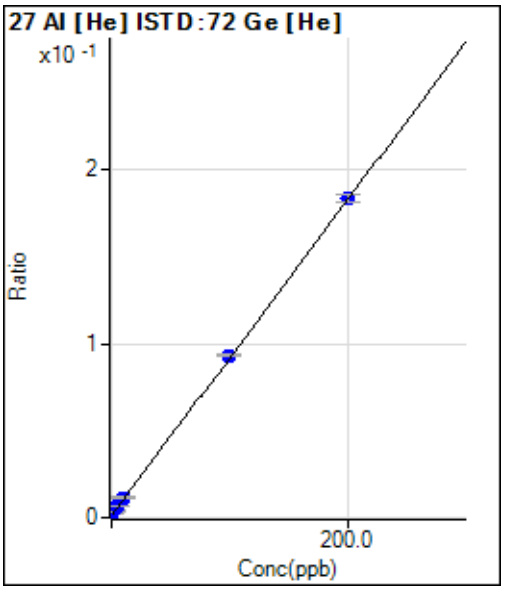


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	32320.98	0.0191	P	0.9	
2	☐	2.000	1.637	52131.76	0.0307	P	2.8	-18.1
3	☐	5.000	4.913	90692.98	0.0539	P	1.7	-1.7
4	☐	10.000	10.001	152455.72	0.0900	P	1.4	0.0
5	☐	100.000	101.384	1244399.59	0.7374	P	1.2	1.4
6	☐	200.000	199.314	2409119.60	1.4313	P	0.1	-0.3
7	☐	1.000						

y = 0.0071 * x + 0.0191
R = 1.0000
DL = 0.07503 ppb
BEC = 2.7 ppb

Weight: <None>
Min Conc: <None>

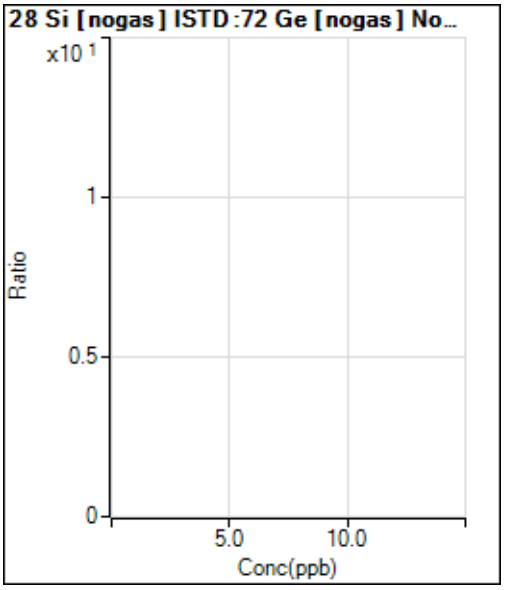
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1066.72	0.0022	P	7.1	
2	☐	2.000	1.836	1903.49	0.0039	P	15.5	-8.2
3	☐	5.000	5.001	3310.42	0.0068	P	7.0	0.0
4	☐	10.000	9.992	5507.73	0.0113	P	5.6	-0.1
5	☐	100.000	100.445	45290.25	0.0936	P	0.7	0.4
6	☐	200.000	199.779	87595.13	0.1839	P	2.4	-0.1
7	☐	1.000						

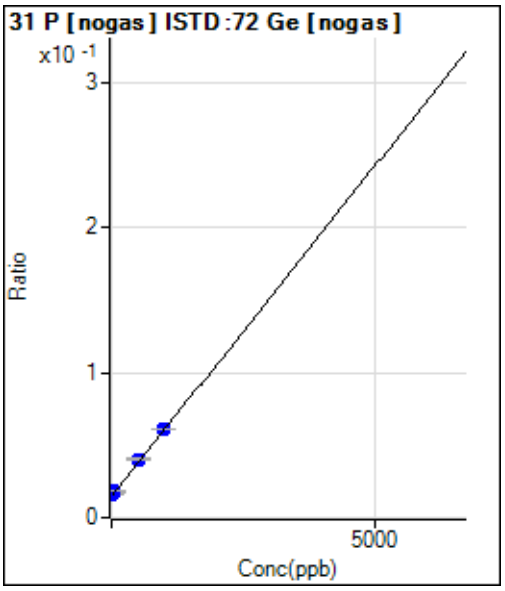
y = 9.0944E-004 * x + 0.0022
R = 1.0000
DL = 0.5216 ppb
BEC = 2.465 ppb

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						

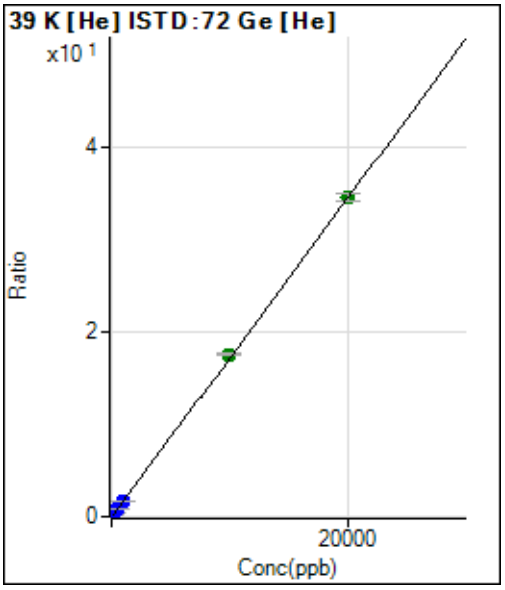
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26997.36	0.0160	P	3.1	
2	☐	10.000	15.086	28269.90	0.0167	P	3.0	50.9
3	☐	25.000	34.394	29512.07	0.0176	P	2.7	37.6
4	☐	50.000	67.559	32307.62	0.0191	P	1.1	35.1
5	☐	500.000	528.243	67749.35	0.0401	P	2.4	5.6
6	☐	1000.000	984.715	102728.49	0.0610	P	0.6	-1.5
7	☐	5.000						

y = 4.5757E-005 * x + 0.0160
R = 0.9994
DL = 32.04 ppb
BEC = 349.2 ppb

Weight: <None>
Min Conc: <None>

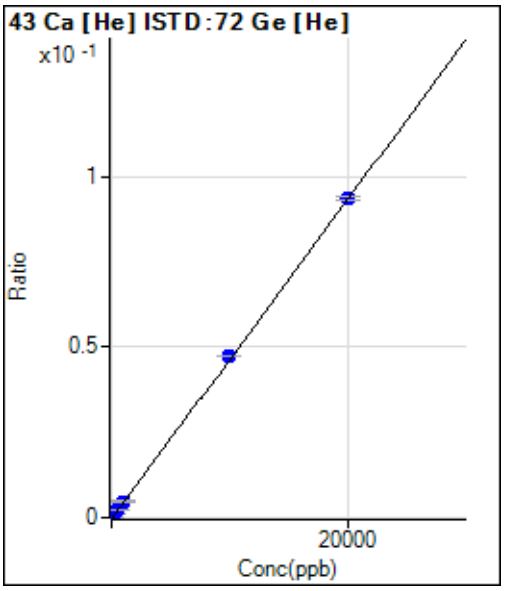


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	58103.85	0.1221	P	1.8	
2	☐	200.000	181.080	211625.00	0.4347	P	0.4	-9.5
3	☐	500.000	461.033	447735.54	0.9181	P	0.4	-7.8
4	☐	1000.000	923.708	834824.75	1.7169	P	1.4	-7.6
5	☐	10000.00	10112.66	8509764.87	17.5826	A	1.7	1.1
6	☐	20000.00	19948.64	16461930.59	34.5655	A	1.9	-0.3
7	☐	100.000						

y = 0.0017 * x + 0.1221
R = 1.0000
DL = 3.876 ppb
BEC = 70.69 ppb

Weight: <None>
Min Conc: <None>

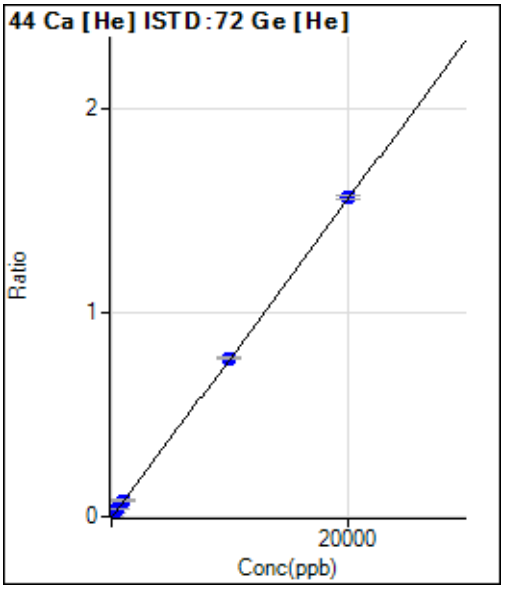
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	17.3	
2	☐	200.000	214.315	523.35	0.0011	P	10.2	7.2
3	☐	500.000	498.290	1173.40	0.0024	P	2.3	-0.3
4	☐	1000.000	1001.447	2316.88	0.0048	P	5.3	0.1
5	☐	10000.00	10077.48	22897.55	0.0473	P	0.3	0.8
6	☐	20000.00	19961.08	44605.57	0.0937	P	0.8	-0.2
7	☐	100.000						

y = 4.6883E-006 * x + 7.0017E-005
R = 1.0000
DL = 7.736 ppb
BEC = 14.93 ppb

Weight: <None>
Min Conc: <None>

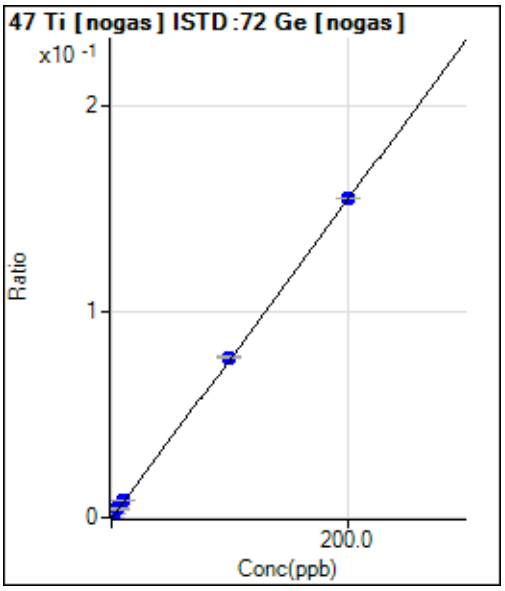


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	730.03	0.0015	P	9.3	
2	☐	200.000	190.600	8008.93	0.0165	P	1.5	-4.7
3	☐	500.000	491.737	19516.18	0.0400	P	1.5	-1.7
4	☐	1000.000	1005.281	39000.51	0.0802	P	2.3	0.5
5	☐	10000.00	9930.917	376857.27	0.7788	P	0.8	-0.7
6	☐	20000.00	20034.57	747541.21	1.5695	P	0.7	0.2
7	☐	100.000						

y = 7.8265E-005 * x + 0.0015
R = 1.0000
DL = 5.485 ppb
BEC = 19.6 ppb

Weight: <None>
Min Conc: <None>

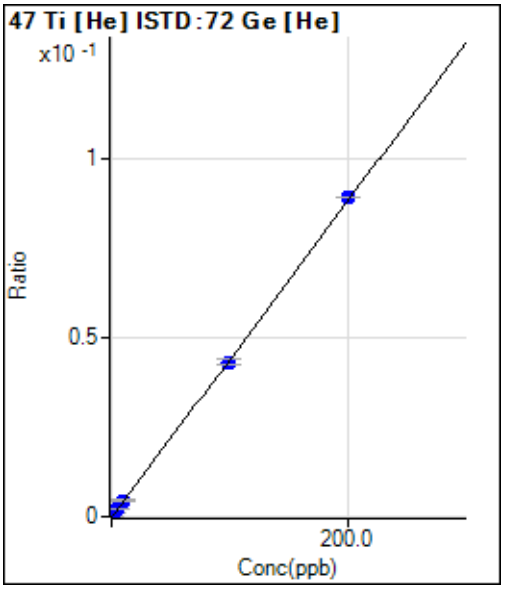
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	533.36	0.0003	P	14.0	
2	☐	2.000	1.951	3093.72	0.0018	P	2.5	-2.5
3	☐	5.000	5.033	7071.77	0.0042	P	2.0	0.7
4	☐	10.000	10.081	13736.45	0.0081	P	3.1	0.8
5	☐	100.000	100.155	131173.68	0.0777	P	1.4	0.2
6	☐	200.000	199.918	260654.93	0.1549	P	0.4	0.0
7	☐	1.000						

y = 7.7300E-004 * x + 3.1555E-004
R = 1.0000
DL = 0.1715 ppb
BEC = 0.4082 ppb

Weight: <None>
Min Conc: <None>

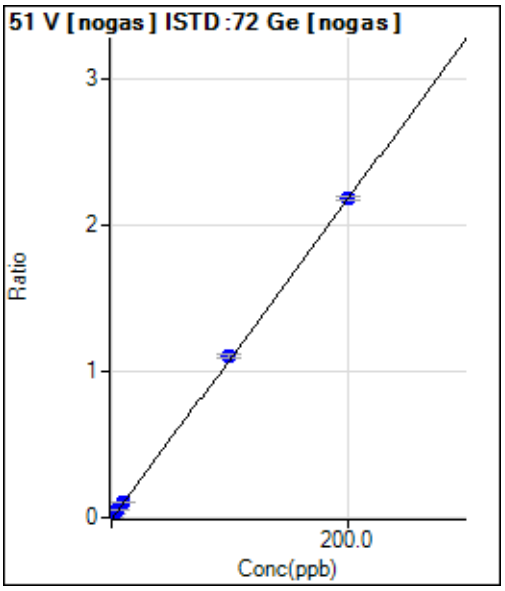


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	83.33	0.0002	P	29.5	
2	☐	2.000	2.135	543.35	0.0011	P	31.7	6.7
3	☐	5.000	4.747	1106.73	0.0023	P	6.1	-5.1
4	☐	10.000	9.411	2103.52	0.0043	P	12.4	-5.9
5	☐	100.000	97.410	20888.03	0.0432	P	2.6	-2.6
6	☐	200.000	201.329	42396.31	0.0890	P	0.5	0.7
7	☐	1.000						

y = 4.4125E-004 * x + 1.7486E-004
R = 0.9999
DL = 0.351 ppb
BEC = 0.3963 ppb

Weight: <None>
Min Conc: <None>

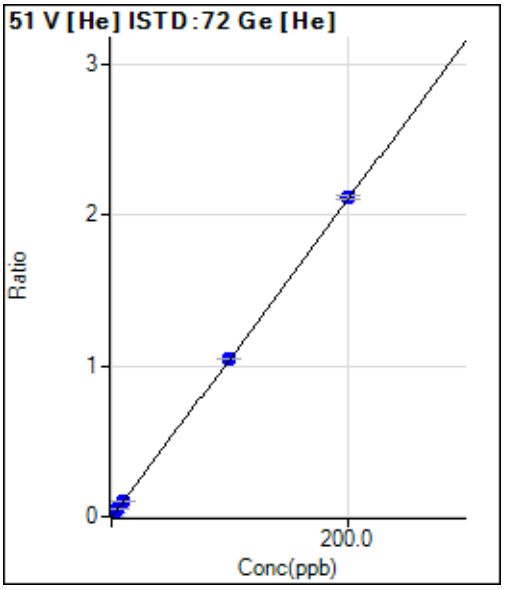
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101.31	0.0001	P	2146.	
2	☐	2.000	2.059	38355.65	0.0226	P	8.4	2.9
3	☐	5.000	5.101	94017.13	0.0559	P	3.5	2.0
4	☐	10.000	10.031	186220.02	0.1099	P	0.8	0.3
5	☐	100.000	100.960	1865608.07	1.1056	P	1.2	1.0
6	☐	200.000	199.515	3676969.15	2.1847	P	1.1	-0.2
7	☐	1.000						

y = 0.0109 * x + 6.0932E-005
R = 1.0000
DL = 0.3583 ppb
BEC = 0.005565 ppb

Weight: <None>
Min Conc: <None>

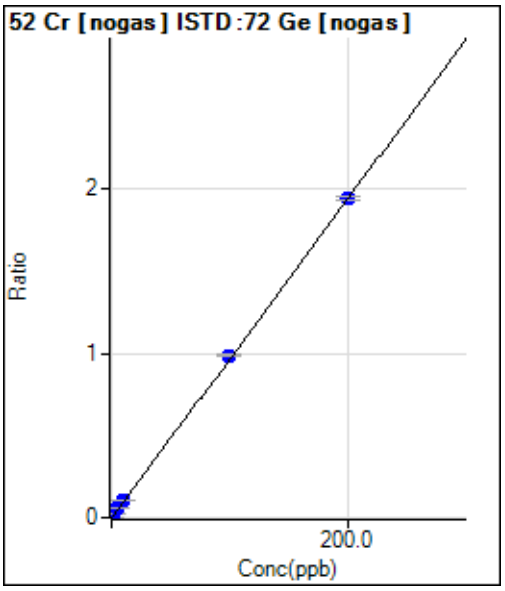


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1708.28	0.0036	P	12.9	
2	☐	2.000	1.907	11529.06	0.0237	P	2.1	-4.7
3	☐	5.000	4.844	26639.74	0.0546	P	5.4	-3.1
4	☐	10.000	9.746	51694.32	0.1063	P	0.0	-2.5
5	☐	100.000	98.957	506426.82	1.0466	P	0.9	-1.0
6	☐	200.000	200.539	1008414.13	2.1172	P	0.8	0.3
7	☐	1.000						

y = 0.0105 * x + 0.0036
R = 1.0000
DL = 0.132 ppb
BEC = 0.3402 ppb

Weight: <None>
Min Conc: <None>

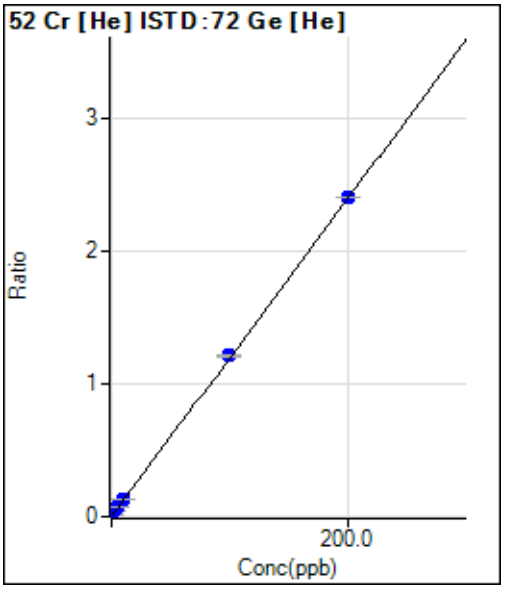
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9052.87	0.0054	P	2.1	
2	☐	2.000	2.000	42048.69	0.0248	P	1.6	0.0
3	☐	5.000	5.077	91959.16	0.0547	P	1.0	1.5
4	☐	10.000	10.054	174605.28	0.1030	P	0.8	0.5
5	☐	100.000	101.186	1668106.02	0.9885	P	1.6	1.2
6	☐	200.000	199.402	3269643.18	1.9428	P	1.6	-0.3
7	☐	1.000						

y = 0.0097 * x + 0.0054
R = 1.0000
DL = 0.03435 ppb
BEC = 0.5513 ppb

Weight: <None>
Min Conc: <None>

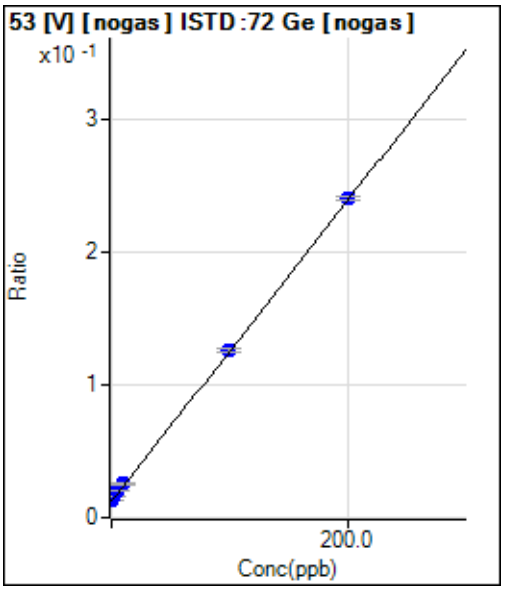


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6828.31	0.0143	P	1.5	
2	☐	2.000	1.882	17937.60	0.0368	P	0.5	-5.9
3	☐	5.000	5.013	36216.94	0.0743	P	1.7	0.3
4	☐	10.000	10.035	65301.02	0.1343	P	0.9	0.3
5	☐	100.000	100.307	587163.82	1.2134	P	0.8	0.3
6	☐	200.000	199.846	1144670.61	2.4033	P	0.5	-0.1
7	☐	1.000						

y = 0.0120 * x + 0.0143
R = 1.0000
DL = 0.05305 ppb
BEC = 1.2 ppb

Weight: <None>
Min Conc: <None>

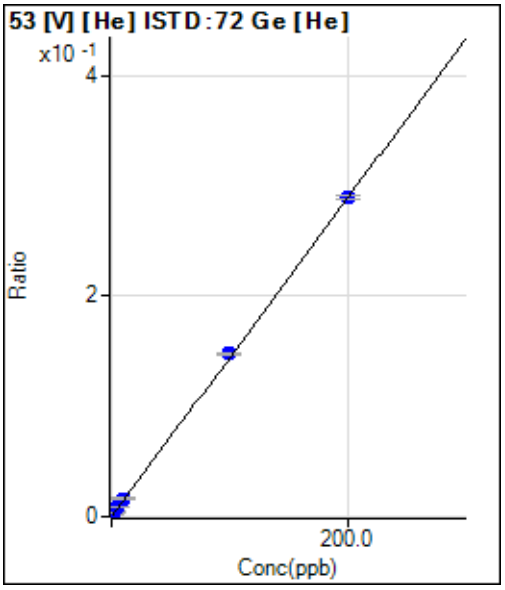
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22627.28	0.0134	P	1.5	
2	☐	2.000	2.183	26901.02	0.0159	P	2.4	9.1
3	☐	5.000	5.550	33076.52	0.0197	P	0.3	11.0
4	☐	10.000	10.601	43011.52	0.0254	P	2.5	6.0
5	☐	100.000	99.379	212404.83	0.1259	P	1.4	-0.6
6	☐	200.000	200.265	404045.50	0.2401	P	0.9	0.1
7	☐	1.000						

y = 0.0011 * x + 0.0134
R = 1.0000
DL = 0.532 ppb
BEC = 11.83 ppb

Weight: <None>
Min Conc: <None>

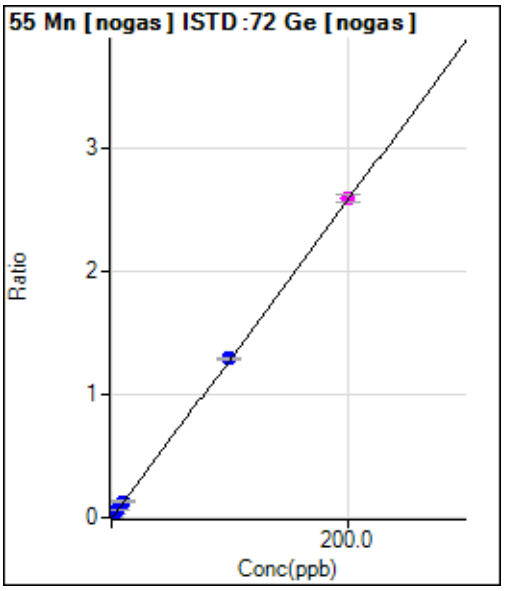


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	726.70	0.0015	P	9.7	
2	☐	2.000	1.953	2116.85	0.0043	P	3.7	-2.3
3	☐	5.000	4.924	4214.02	0.0086	P	8.4	-1.5
4	☐	10.000	10.288	7965.58	0.0164	P	2.4	2.9
5	☐	100.000	101.175	71442.08	0.1476	P	0.7	1.2
6	☐	200.000	199.401	137871.43	0.2895	P	0.7	-0.3
7	☐	1.000						

y = 0.0014 * x + 0.0015
R = 1.0000
DL = 0.3081 ppb
BEC = 1.058 ppb

Weight: <None>
Min Conc: <None>

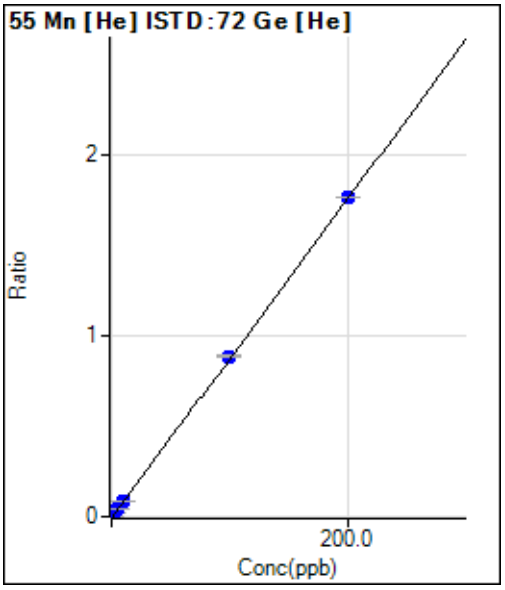
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7101.76	0.0042	P	2.9	
2	☐	2.000	1.969	50327.50	0.0297	P	1.0	-1.5
3	☐	5.000	5.007	115926.15	0.0689	P	0.9	0.1
4	☐	10.000	9.905	224172.31	0.1323	P	0.9	-0.9
5	☐	100.000	99.677	2182146.11	1.2931	P	0.9	-0.3
6	☐	200.000	200.166	4362508.37	2.5926	M	3.0	0.1
7	☐	1.000						

y = 0.0129 * x + 0.0042
R = 1.0000
DL = 0.02802 ppb
BEC = 0.325 ppb

Weight: <None>
Min Conc: <None>

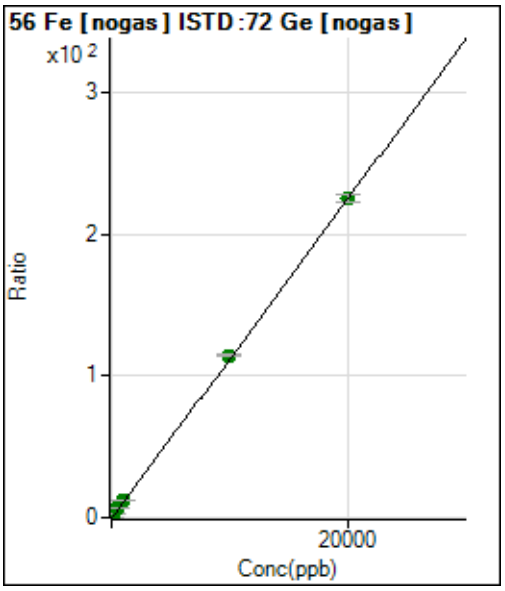


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	566.69	0.0012	P	14.0	
2	☐	2.000	2.016	9229.64	0.0190	P	2.9	0.8
3	☐	5.000	5.090	22450.35	0.0460	P	3.1	1.8
4	☐	10.000	10.025	43529.70	0.0895	P	1.0	0.2
5	☐	100.000	100.181	427687.83	0.8839	P	1.3	0.2
6	☐	200.000	199.906	839457.49	1.7625	P	0.6	0.0
7	☐	1.000						

y = 0.0088 * x + 0.0012
R = 1.0000
DL = 0.05695 ppb
BEC = 0.1352 ppb

Weight: <None>
Min Conc: <None>

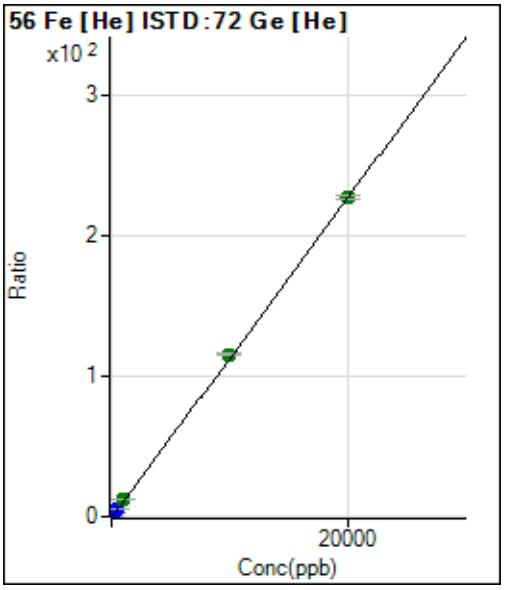
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	792588.09	0.4690	P	1.0	
2	☐	200.000	211.696	4851469.20	2.8601	A	0.8	5.8
3	☐	500.000	529.530	10845718.59	6.4501	A	0.7	5.9
4	☐	1000.000	1039.428	20688876.36	12.2095	A	0.5	3.9
5	☐	10000.00	10124.71	193766163.7	114.829	A	0.9	1.2
6	☐	20000.00	19934.81	379712287.6	225.635	A	2.1	-0.3
7	☐	100.000						

y = 0.0113 * x + 0.4690
R = 1.0000
DL = 1.244 ppb
BEC = 41.52 ppb

Weight: <None>
Min Conc: <None>

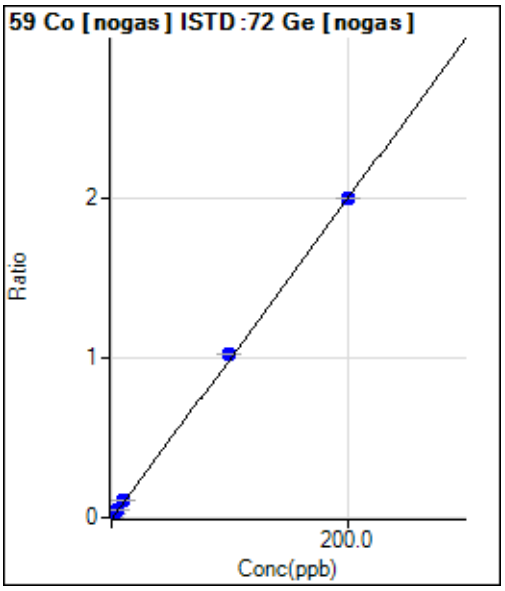


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16566.05	0.0348	P	4.8	
2	☐	200.000	184.209	1038313.84	2.1328	P	0.6	-7.9
3	☐	500.000	463.681	2592283.35	5.3157	P	1.5	-7.3
4	☐	1000.000	1023.846	5686745.75	11.6955	A	1.2	2.4
5	☐	10000.00	10133.90	55867347.50	115.450	A	0.8	1.3
6	☐	20000.00	19932.92	108145221.7	227.052	A	1.2	-0.3
7	☐	100.000						

y = 0.0114 * x + 0.0348
R = 1.0000
DL = 0.4424 ppb
BEC = 3.056 ppb

Weight: <None>
Min Conc: <None>

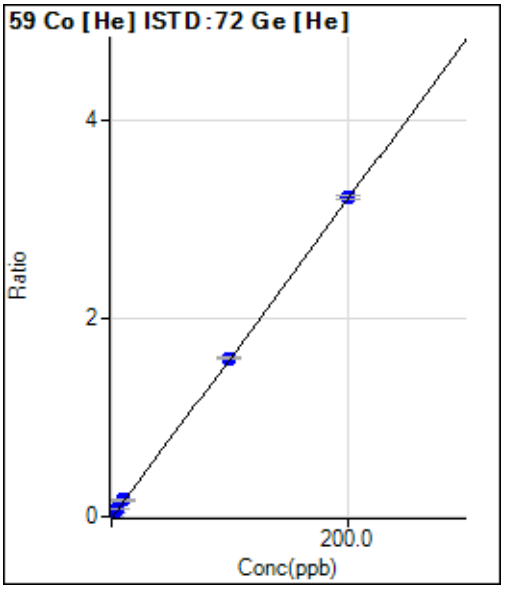
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	183.34	0.0001	P	6.5	
2	☐	2.000	2.045	34967.67	0.0206	P	1.4	2.2
3	☐	5.000	5.082	85893.89	0.0511	P	0.4	1.6
4	☐	10.000	10.294	175147.06	0.1034	P	0.2	2.9
5	☐	100.000	101.762	1722555.81	1.0208	P	0.2	1.8
6	☐	200.000	199.102	3361472.86	1.9971	P	0.2	-0.4
7	☐	1.000						

y = 0.0100 * x + 1.0850E-004
R = 0.9999
DL = 0.002094 ppb
BEC = 0.01082 ppb

Weight: <None>
Min Conc: <None>

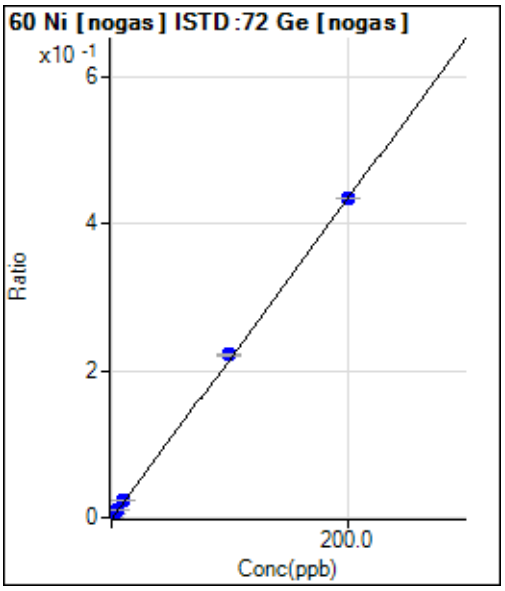


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0001	P	77.2	
2	☐	2.000	2.030	15901.91	0.0327	P	2.4	1.5
3	☐	5.000	5.054	39619.14	0.0812	P	2.8	1.1
4	☐	10.000	10.258	80143.08	0.1648	P	2.8	2.6
5	☐	100.000	99.485	773328.63	1.5981	P	1.1	-0.5
6	☐	200.000	200.243	1532038.00	3.2166	P	0.8	0.1
7	☐	1.000						

y = 0.0161 * x + 5.5819E-005
R = 1.0000
DL = 0.008048 ppb
BEC = 0.003475 ppb

Weight: <None>
Min Conc: <None>

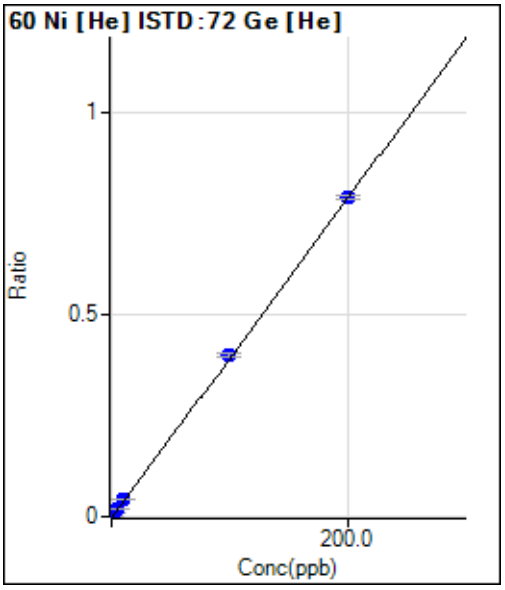
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0003	P	11.1	
2	☐	2.000	2.070	8209.07	0.0048	P	1.2	3.5
3	☐	5.000	5.157	19442.82	0.0116	P	1.0	3.1
4	☐	10.000	10.303	38579.92	0.0228	P	2.1	3.0
5	☐	100.000	101.612	374001.83	0.2216	P	1.0	1.6
6	☐	200.000	199.174	730643.63	0.4341	P	0.5	-0.4
7	☐	1.000						

y = 0.0022 * x + 3.3147E-004
R = 1.0000
DL = 0.05071 ppb
BEC = 0.1522 ppb

Weight: <None>
Min Conc: <None>

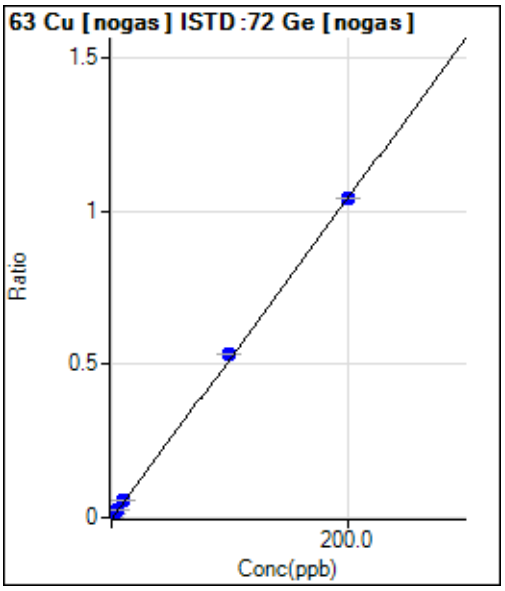


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.01	0.0005	P	42.9	
2	☐	2.000	2.022	4153.98	0.0085	P	2.8	1.1
3	☐	5.000	5.006	9923.40	0.0203	P	5.8	0.1
4	☐	10.000	10.378	20237.24	0.0416	P	1.7	3.8
5	☐	100.000	100.971	193705.13	0.4003	P	1.6	1.0
6	☐	200.000	199.495	376461.73	0.7904	P	0.7	-0.3
7	☐	1.000						

y = 0.0040 * x + 5.2613E-004
R = 1.0000
DL = 0.1712 ppb
BEC = 0.1329 ppb

Weight: <None>
Min Conc: <None>

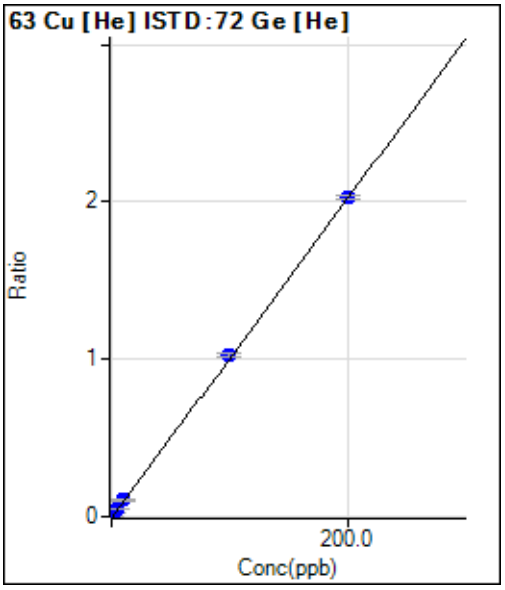
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1260.08	0.0007	P	6.0	
2	☐	2.000	1.999	19008.92	0.0112	P	3.5	-0.1
3	☐	5.000	5.073	45897.12	0.0273	P	3.4	1.5
4	☐	10.000	10.237	92051.08	0.0543	P	0.6	2.4
5	☐	100.000	101.965	901846.03	0.5344	P	0.4	2.0
6	☐	200.000	199.004	1754396.90	1.0423	P	0.2	-0.5
7	☐	1.000						

y = 0.0052 * x + 7.4578E-004
R = 0.9999
DL = 0.02571 ppb
BEC = 0.1425 ppb

Weight: <None>
Min Conc: <None>

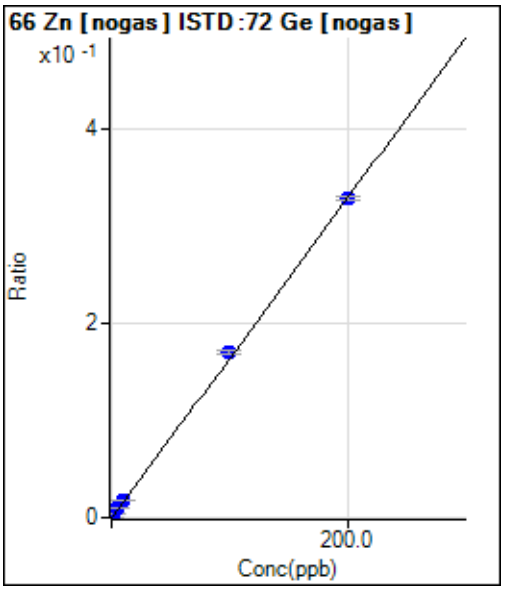


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	463.35	0.0010	P	6.4	
2	☐	2.000	2.028	10510.50	0.0216	P	4.5	1.4
3	☐	5.000	5.064	25578.72	0.0525	P	2.6	1.3
4	☐	10.000	10.266	51214.33	0.1053	P	3.4	2.7
5	☐	100.000	100.792	496290.19	1.0257	P	1.5	0.8
6	☐	200.000	199.589	966853.53	2.0301	P	1.2	-0.2
7	☐	1.000						

y = 0.0102 * x + 9.7338E-004
R = 1.0000
DL = 0.01835 ppb
BEC = 0.09575 ppb

Weight: <None>
Min Conc: <None>

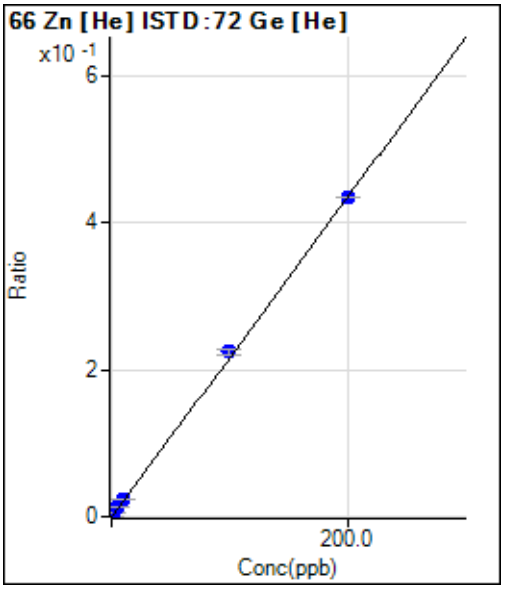
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1433.43	0.0008	P	0.3	
2	☐	2.000	2.074	7245.21	0.0043	P	3.6	3.7
3	☐	5.000	5.152	15725.14	0.0094	P	2.2	3.0
4	☐	10.000	10.435	30618.26	0.0181	P	1.6	4.4
5	☐	100.000	102.742	287586.31	0.1704	P	1.5	2.7
6	☐	200.000	198.603	553177.69	0.3286	P	0.9	-0.7
7	☐	1.000						

y = 0.0017 * x + 8.4820E-004
R = 0.9999
DL = 0.005199 ppb
BEC = 0.5139 ppb

Weight: <None>
Min Conc: <None>

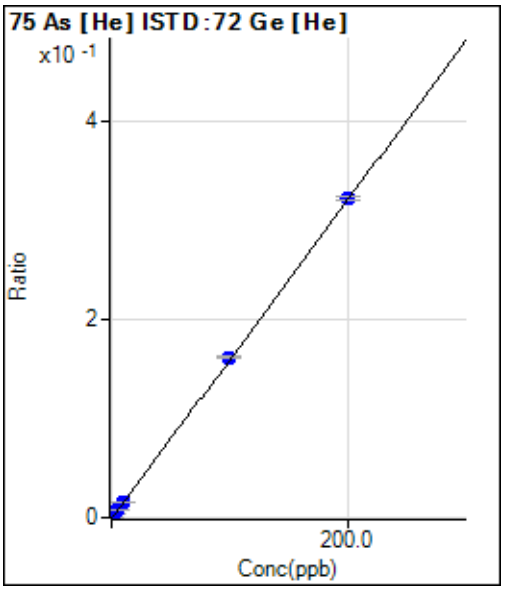


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	556.69	0.0012	P	10.8	
2	☐	2.000	2.063	2756.97	0.0057	P	5.3	3.1
3	☐	5.000	5.119	6007.97	0.0123	P	1.0	2.4
4	☐	10.000	10.327	11504.59	0.0237	P	1.9	3.3
5	☐	100.000	102.246	108319.94	0.2239	P	2.8	2.2
6	☐	200.000	198.857	206845.98	0.4343	P	0.2	-0.6
7	☐	1.000						

y = 0.0022 * x + 0.0012
R = 0.9999
DL = 0.1746 ppb
BEC = 0.537 ppb

Weight: <None>
Min Conc: <None>

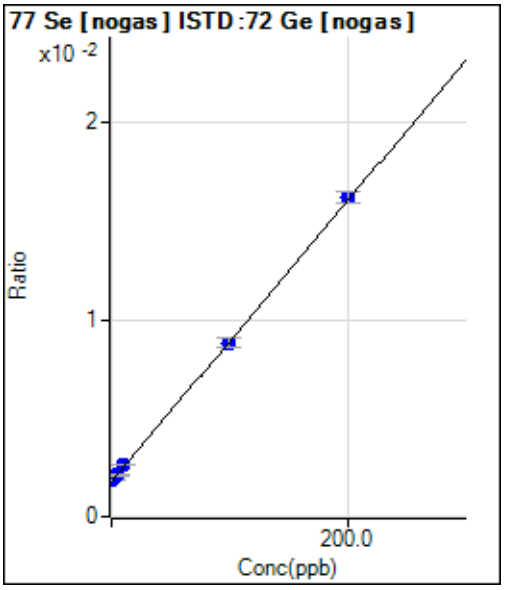
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.33	0.0003	P	27.5	
2	☐	2.000	1.926	1645.66	0.0034	P	5.7	-3.7
3	☐	5.000	4.911	3992.78	0.0082	P	3.7	-1.8
4	☐	10.000	9.894	7883.23	0.0162	P	2.5	-1.1
5	☐	100.000	99.972	78035.13	0.1613	P	1.2	0.0
6	☐	200.000	200.022	153531.35	0.3224	P	1.3	0.0
7	☐	1.000						

y = 0.0016 * x + 2.7994E-004
R = 1.0000
DL = 0.1432 ppb
BEC = 0.1738 ppb

Weight: <None>
Min Conc: <None>

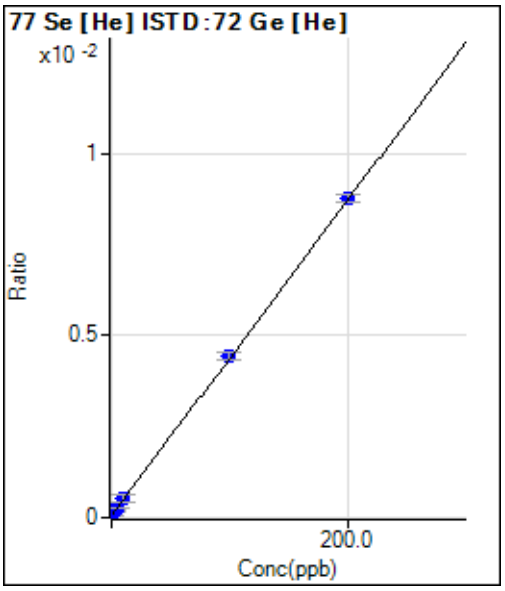


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3163.72	0.0019	P	1.8	
2	☐	2.000	0.925	3287.10	0.0019	P	8.4	-53.7
3	☐	5.000	3.365	3550.49	0.0021	P	3.0	-32.7
4	☐	10.000	10.634	4454.09	0.0026	P	1.8	6.3
5	☐	100.000	97.533	14877.69	0.0088	P	4.9	-2.5
6	☐	200.000	201.253	27262.10	0.0162	P	3.9	0.6
7	☐	1.000						

y = 7.1184E-005 * x + 0.0019
R = 0.9999
DL = 1.383 ppb
BEC = 26.3 ppb

Weight: <None>
Min Conc: <None>

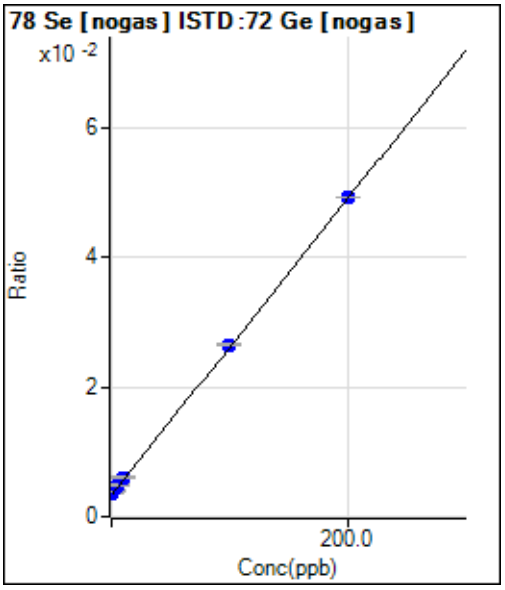
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0001	P	53.9	
2	☐	2.000	1.677	86.67	0.0002	P	24.2	-16.1
3	☐	5.000	3.721	130.00	0.0003	P	13.7	-25.6
4	☐	10.000	9.885	260.01	0.0005	P	35.9	-1.2
5	☐	100.000	99.924	2146.87	0.0044	P	4.3	-0.1
6	☐	200.000	200.079	4180.67	0.0088	P	2.6	0.0
7	☐	1.000						

y = 4.3342E-005 * x + 1.0540E-004
R = 1.0000
DL = 3.934 ppb
BEC = 2.432 ppb

Weight: <None>
Min Conc: <None>

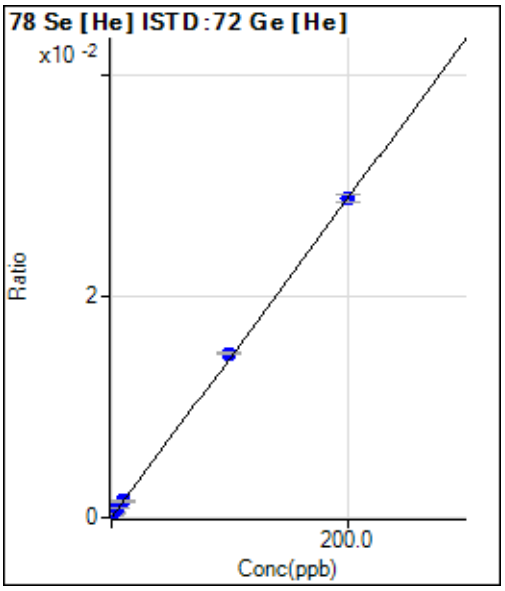


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6078.02	0.0036	P	3.8	
2	☐	2.000	2.026	6888.38	0.0041	P	3.5	1.3
3	☐	5.000	5.640	8219.12	0.0049	P	3.2	12.8
4	☐	10.000	10.844	10300.43	0.0061	P	2.0	8.4
5	☐	100.000	100.248	44797.65	0.0265	P	1.5	0.2
6	☐	200.000	199.817	83054.95	0.0493	P	0.3	-0.1
7	☐	1.000						

y = 2.2893E-004 * x + 0.0036
R = 1.0000
DL = 1.775 ppb
BEC = 15.71 ppb

Weight: <None>
Min Conc: <None>

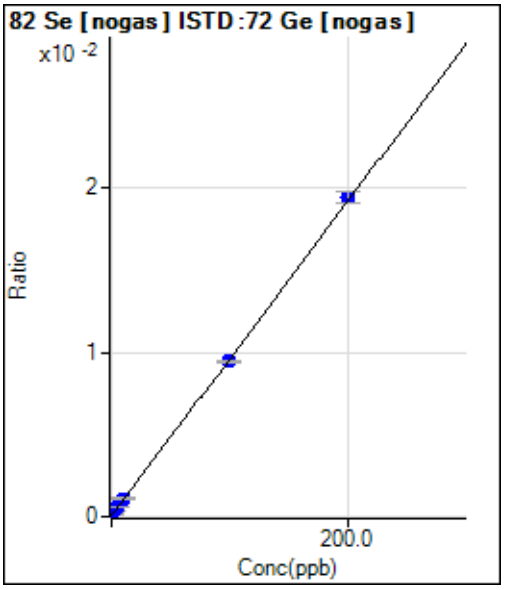
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79.33	0.0002	P	6.1	
2	☐	2.000	1.954	218.67	0.0004	P	16.2	-2.3
3	☐	5.000	4.770	417.34	0.0009	P	2.7	-4.6
4	☐	10.000	9.643	758.02	0.0016	P	10.8	-3.6
5	☐	100.000	101.957	7209.77	0.0149	P	2.3	2.0
6	☐	200.000	199.045	13774.39	0.0289	P	1.9	-0.5
7	☐	1.000						

y = 1.4447E-004 * x + 1.6670E-004
R = 0.9999
DL = 0.2111 ppb
BEC = 1.154 ppb

Weight: <None>
Min Conc: <None>

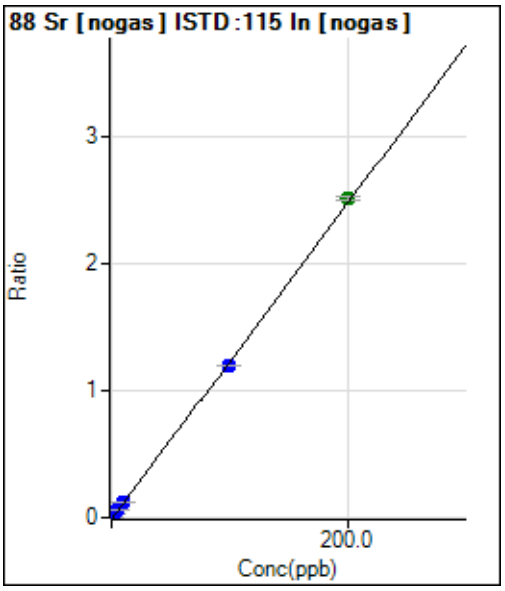


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	256.67	0.0002	P	31.7	
2	☐	2.000	1.676	530.02	0.0003	P	6.0	-16.2
3	☐	5.000	4.747	1020.06	0.0006	P	4.3	-5.1
4	☐	10.000	9.737	1836.81	0.0011	P	6.7	-2.6
5	☐	100.000	97.074	15945.50	0.0094	P	1.9	-2.9
6	☐	200.000	201.486	32736.44	0.0194	P	3.6	0.7
7	☐	1.000						

y = 9.5777E-005 * x + 1.5201E-004
R = 0.9999
DL = 1.509 ppb
BEC = 1.587 ppb

Weight: <None>
Min Conc: <None>

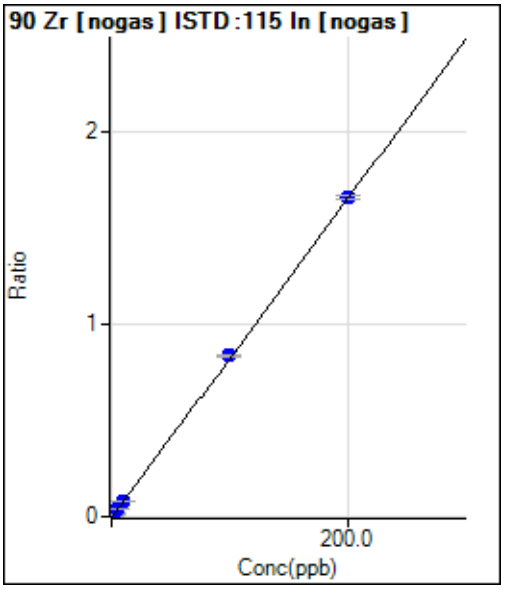
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0003	P	14.9	
2	☐	2.000	1.864	47469.83	0.0235	P	0.9	-6.8
3	☐	5.000	4.690	117998.86	0.0587	P	0.7	-6.2
4	☐	10.000	9.423	237852.25	0.1176	P	2.0	-5.8
5	☐	100.000	95.974	2387569.81	1.1945	P	0.7	-4.0
6	☐	200.000	202.051	4984730.66	2.5144	A	1.1	1.0
7	☐	1.000						

y = 0.0124 * x + 3.1281E-004
R = 0.9997
DL = 0.01123 ppb
BEC = 0.02514 ppb

Weight: <None>
Min Conc: <None>

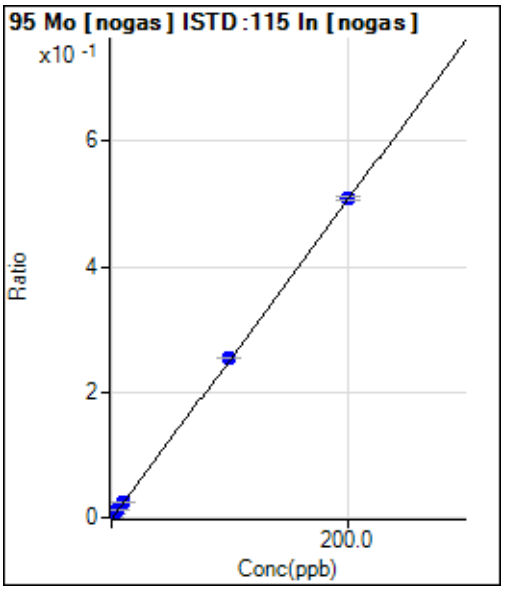


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4520.76	0.0022	P	2.4	
2	☐	2.000	1.545	30431.88	0.0151	P	2.5	-22.8
3	☐	5.000	4.374	77513.85	0.0385	P	2.2	-12.5
4	☐	10.000	9.480	163715.08	0.0809	P	2.1	-5.2
5	☐	100.000	100.444	1670628.52	0.8358	P	0.3	0.4
6	☐	200.000	199.824	3292048.08	1.6605	P	1.0	-0.1
7	☐	1.000						

y = 0.0083 * x + 0.0022
R = 1.0000
DL = 0.01928 ppb
BEC = 0.2707 ppb

Weight: <None>
Min Conc: <None>

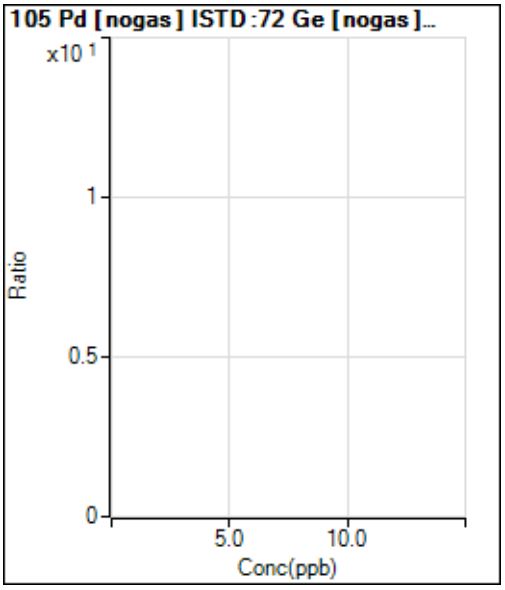
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.01	0.0001	P	15.0	
2	☐	2.000	1.873	9880.19	0.0049	P	4.1	-6.4
3	☐	5.000	4.746	24544.18	0.0122	P	1.4	-5.1
4	☐	10.000	9.725	50339.80	0.0249	P	2.0	-2.8
5	☐	100.000	100.039	509276.93	0.2548	P	0.2	0.0
6	☐	200.000	200.002	1009634.34	0.5093	P	0.6	0.0
7	☐	1.000						

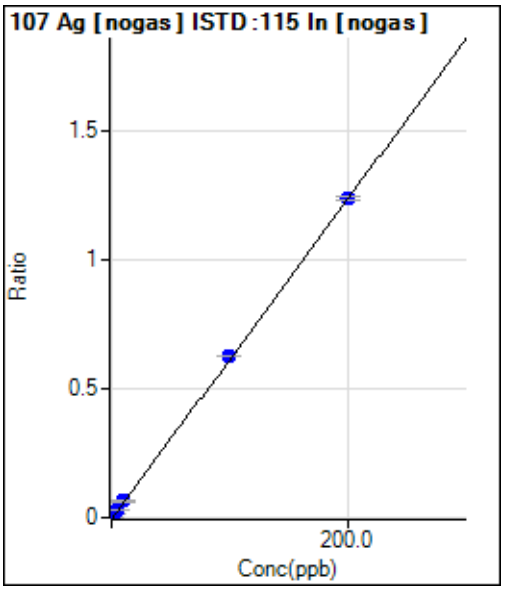
y = 0.0025 * x + 1.2431E-004
R = 1.0000
DL = 0.02196 ppb
BEC = 0.04883 ppb

Weight: <None>
Min Conc: <None>



	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						

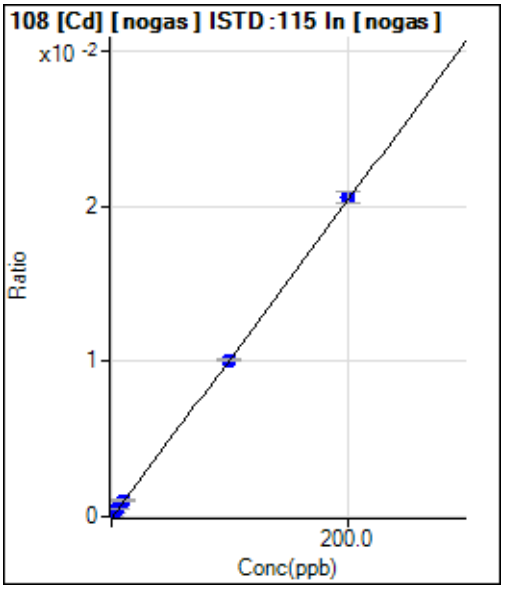
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0001	P	23.8	
2	☐	2.000	1.985	24985.09	0.0124	P	1.3	-0.7
3	☐	5.000	5.004	62531.03	0.0311	P	2.4	0.1
4	☐	10.000	10.208	128224.33	0.0634	P	1.1	2.1
5	☐	100.000	101.042	1252936.80	0.6268	P	0.5	1.0
6	☐	200.000	199.469	2453071.84	1.2374	P	1.0	-0.3
7	☐	1.000						

y = 0.0062 * x + 5.3033E-005
R = 1.0000
DL = 0.006096 ppb
BEC = 0.008549 ppb

Weight: <None>
Min Conc: <None>

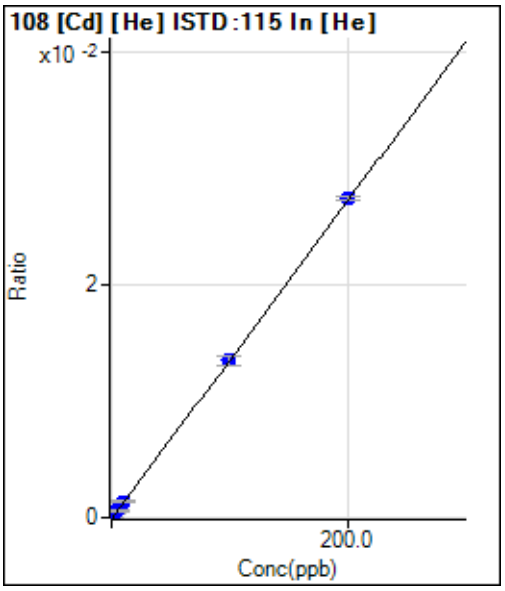


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.982	413.35	0.0002	P	13.6	-0.9
3	☐	5.000	4.986	1030.05	0.0005	P	9.6	-0.3
4	☐	10.000	10.158	2110.20	0.0010	P	9.9	1.6
5	☐	100.000	98.285	20134.24	0.0101	P	1.8	-1.7
6	☐	200.000	200.850	40791.03	0.0206	P	3.9	0.4
7	☐	1.000						

y = 1.0246E-004 * x + 1.6444E-006
R = 0.9999
DL = 0.08339 ppb
BEC = 0.01605 ppb

Weight: <None>
Min Conc: <None>

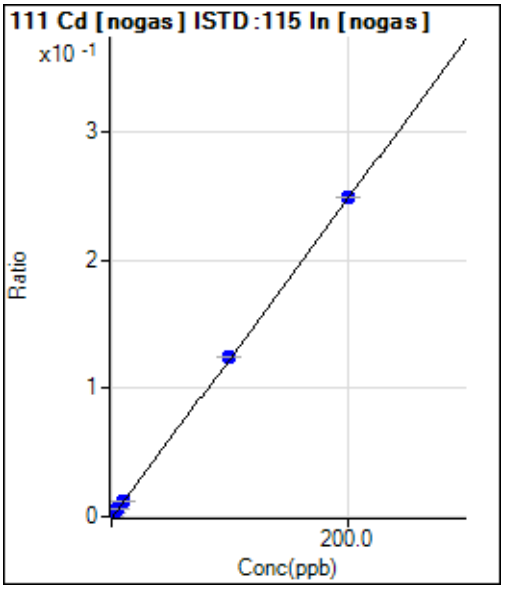
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.993	200.00	0.0003	P	19.4	-0.3
3	☐	5.000	4.261	423.35	0.0006	P	22.5	-14.8
4	☐	10.000	9.992	980.05	0.0014	P	17.3	-0.1
5	☐	100.000	98.947	9523.26	0.0135	P	6.1	-1.1
6	☐	200.000	200.545	19039.45	0.0274	P	1.6	0.3
7	☐	1.000						

y = 1.3665E-004 * x + 9.4621E-006
R = 1.0000
DL = 0.1799 ppb
BEC = 0.06924 ppb

Weight: <None>
Min Conc: <None>

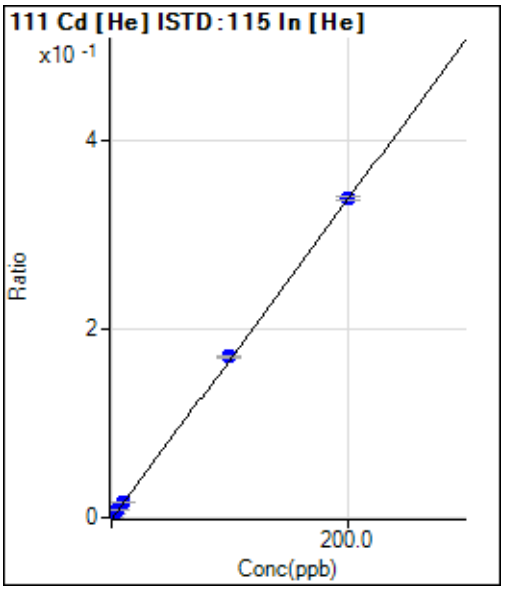


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.42	0.0000	P	86.8	
2	☐	2.000	1.981	4997.58	0.0025	P	2.7	-0.9
3	☐	5.000	5.013	12581.49	0.0063	P	2.5	0.3
4	☐	10.000	9.905	24998.33	0.0124	P	2.6	-0.9
5	☐	100.000	99.965	249216.44	0.1247	P	0.5	0.0
6	☐	200.000	200.022	494626.30	0.2495	P	0.6	0.0
7	☐	1.000						

y = 0.0012 * x + 3.1752E-006
R = 1.0000
DL = 0.00663 ppb
BEC = 0.002546 ppb

Weight: <None>
Min Conc: <None>

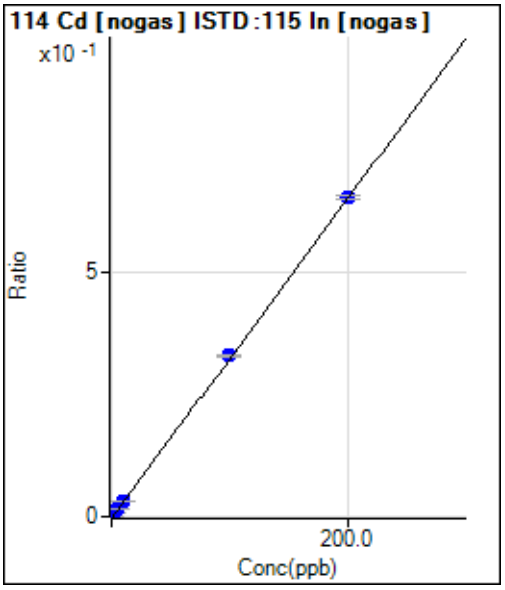
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-7.15	0.0000	P	-86.6	
2	☐	2.000	1.962	2365.68	0.0033	P	14.4	-1.9
3	☐	5.000	5.062	6154.05	0.0086	P	4.0	1.2
4	☐	10.000	9.856	11941.10	0.0167	P	1.8	-1.4
5	☐	100.000	100.486	120177.50	0.1708	P	1.4	0.5
6	☐	200.000	199.763	235749.36	0.3395	P	1.7	-0.1
7	☐	1.000						

y = 0.0017 * x - 1.0153E-005
R = 1.0000
DL = 0.01552 ppb
BEC = -0.005974 ppb

Weight: <None>
Min Conc: <None>

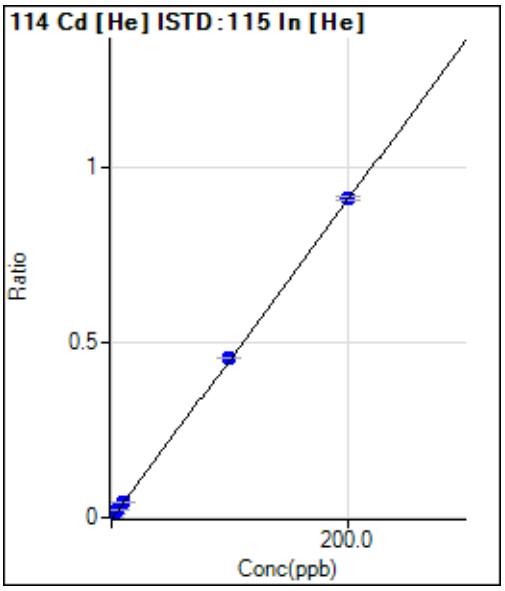


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0000	P	11.3	
2	☐	2.000	1.959	13036.06	0.0065	P	0.9	-2.1
3	☐	5.000	4.922	32466.77	0.0161	P	0.9	-1.6
4	☐	10.000	10.010	66331.72	0.0328	P	0.8	0.1
5	☐	100.000	100.515	657176.63	0.3287	P	1.5	0.5
6	☐	200.000	199.744	1295249.95	0.6532	P	1.0	-0.1
7	☐	1.000						

y = 0.0033 * x + 4.8014E-005
R = 1.0000
DL = 0.004976 ppb
BEC = 0.01468 ppb

Weight: <None>
Min Conc: <None>

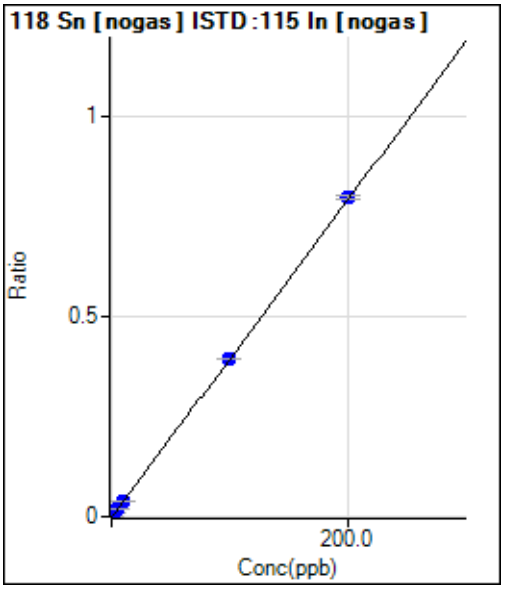
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	96.1	
2	☐	2.000	1.983	6464.89	0.0091	P	3.5	-0.9
3	☐	5.000	4.787	15651.97	0.0219	P	1.8	-4.3
4	☐	10.000	9.620	31284.12	0.0439	P	1.1	-3.8
5	☐	100.000	100.012	320525.22	0.4554	P	0.5	0.0
6	☐	200.000	200.018	632474.73	0.9108	P	1.5	0.0
7	☐	1.000						

y = 0.0046 * x + 6.1651E-005
R = 1.0000
DL = 0.03904 ppb
BEC = 0.01354 ppb

Weight: <None>
Min Conc: <None>

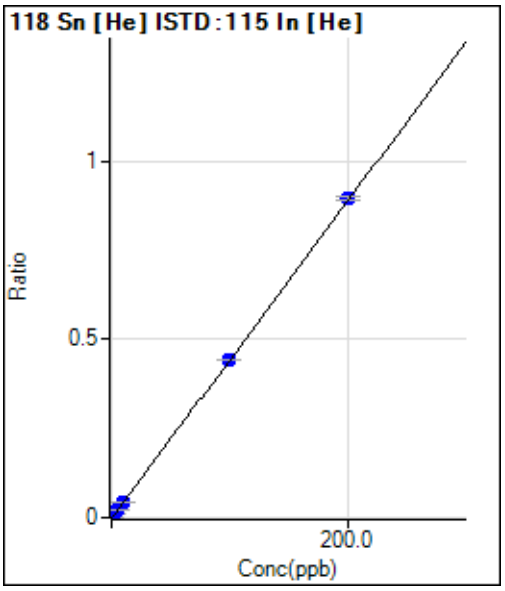


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3487.15	0.0017	P	3.3	
2	☐	2.000	1.822	18074.86	0.0089	P	2.9	-8.9
3	☐	5.000	4.741	41242.45	0.0205	P	1.9	-5.2
4	☐	10.000	9.525	79823.05	0.0395	P	1.7	-4.7
5	☐	100.000	98.716	784942.12	0.3927	P	0.7	-1.3
6	☐	200.000	200.674	1579209.82	0.7964	P	0.9	0.3
7	☐	1.000						

y = 0.0040 * x + 0.0017
R = 1.0000
DL = 0.04345 ppb
BEC = 0.4376 ppb

Weight: <None>
Min Conc: <None>

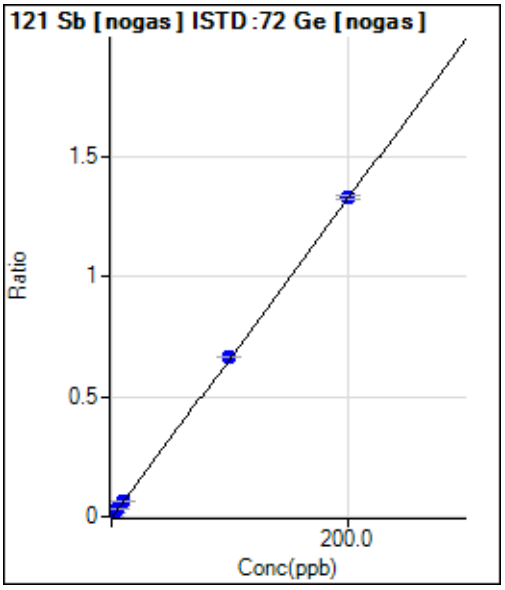
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1296.75	0.0018	P	6.5	
2	☐	2.000	1.924	7415.34	0.0104	P	2.9	-3.8
3	☐	5.000	4.745	16479.69	0.0230	P	1.6	-5.1
4	☐	10.000	9.746	32329.77	0.0453	P	0.4	-2.5
5	☐	100.000	98.780	311478.33	0.4426	P	0.5	-1.2
6	☐	200.000	200.630	622924.13	0.8970	P	1.0	0.3
7	☐	1.000						

y = 0.0045 * x + 0.0018
R = 1.0000
DL = 0.08068 ppb
BEC = 0.4128 ppb

Weight: <None>
Min Conc: <None>

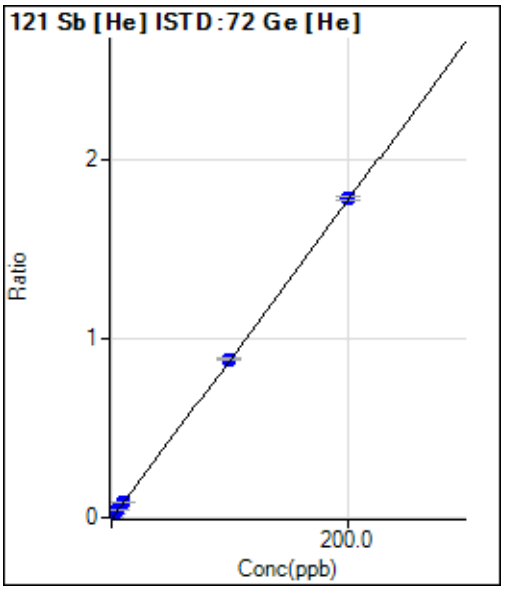


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1120.07	0.0007	P	13.1	
2	☐	2.000	1.921	22761.59	0.0134	P	1.1	-4.0
3	☐	5.000	4.809	54814.27	0.0326	P	3.1	-3.8
4	☐	10.000	9.642	109624.33	0.0647	P	0.9	-3.6
5	☐	100.000	100.094	1122838.34	0.6654	P	0.8	0.1
6	☐	200.000	199.976	2236426.06	1.3287	P	1.5	0.0
7	☐	1.000						

y = 0.0066 * x + 6.6293E-004
R = 1.0000
DL = 0.03921 ppb
BEC = 0.09983 ppb

Weight: <None>
Min Conc: <None>

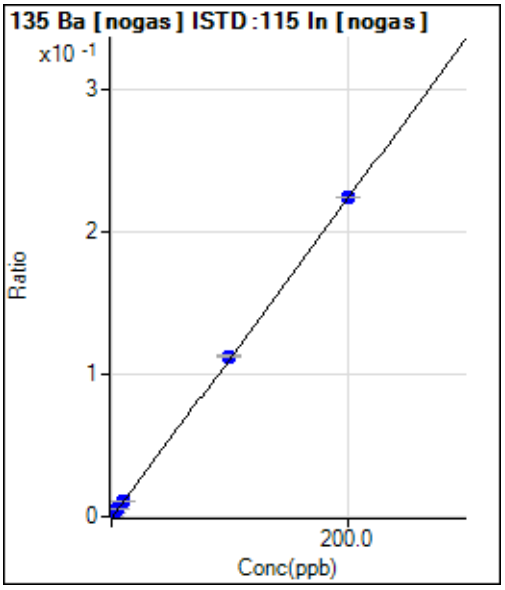
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	446.68	0.0009	P	8.6	
2	☐	2.000	1.872	8566.02	0.0176	P	5.0	-6.4
3	☐	5.000	4.753	21075.72	0.0432	P	3.9	-4.9
4	☐	10.000	9.641	42155.38	0.0867	P	2.5	-3.6
5	☐	100.000	99.166	427312.29	0.8831	P	1.5	-0.8
6	☐	200.000	200.442	849672.17	1.7840	P	1.0	0.2
7	☐	1.000						

y = 0.0089 * x + 9.3788E-004
R = 1.0000
DL = 0.02727 ppb
BEC = 0.1054 ppb

Weight: <None>
Min Conc: <None>

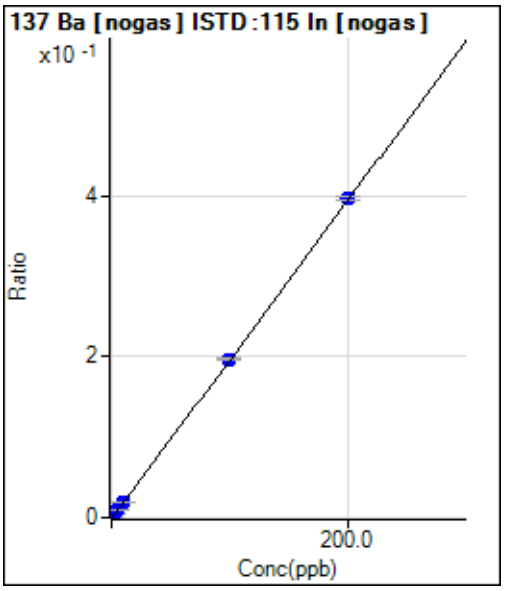


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0000	P	37.7	
2	☐	2.000	2.054	4744.20	0.0023	P	5.5	2.7
3	☐	5.000	4.807	10934.36	0.0054	P	4.5	-3.9
4	☐	10.000	9.603	21893.70	0.0108	P	1.7	-4.0
5	☐	100.000	100.459	225405.78	0.1128	P	1.2	0.5
6	☐	200.000	199.795	444628.61	0.2243	P	0.3	-0.1
7	☐	1.000						

y = 0.0011 * x + 4.3147E-005
R = 1.0000
DL = 0.04346 ppb
BEC = 0.03845 ppb

Weight: <None>
Min Conc: <None>

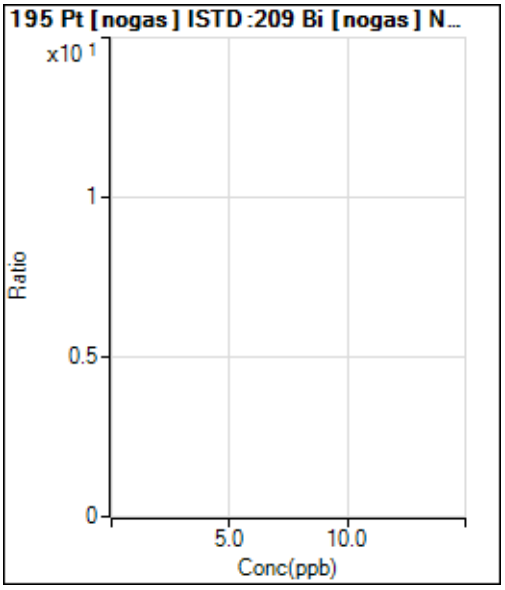
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	213.34	0.0001	P	11.9	
2	☐	2.000	1.965	8085.75	0.0040	P	6.3	-1.7
3	☐	5.000	4.801	19363.42	0.0096	P	1.2	-4.0
4	☐	10.000	9.774	39434.97	0.0195	P	2.5	-2.3
5	☐	100.000	99.339	394057.49	0.1971	P	0.5	-0.7
6	☐	200.000	200.347	788064.15	0.3975	P	1.0	0.2
7	☐	1.000						

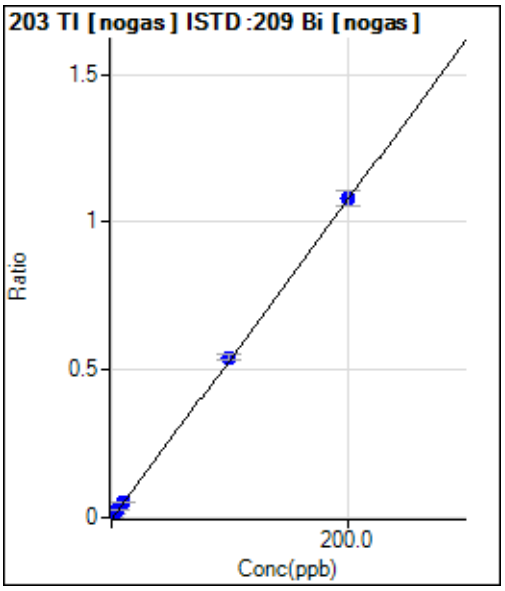
y = 0.0020 * x + 1.0603E-004
R = 1.0000
DL = 0.01902 ppb
BEC = 0.05346 ppb

Weight: <None>
Min Conc: <None>



	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						

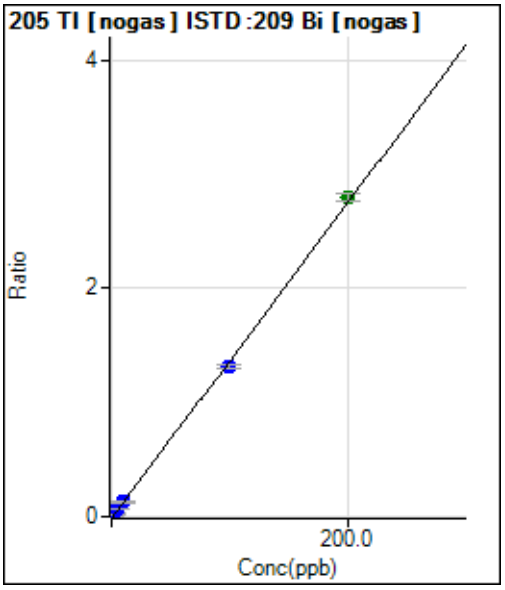
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.33	0.0001	P	24.7	
2	☐	2.000	1.979	21189.93	0.0108	P	3.9	-1.0
3	☐	5.000	4.837	51470.86	0.0262	P	5.1	-3.3
4	☐	10.000	9.769	105981.97	0.0529	P	3.3	-2.3
5	☐	100.000	100.081	1063360.14	0.5411	P	3.7	0.1
6	☐	200.000	199.975	2108618.82	1.0812	P	4.6	0.0
7	☐	1.000						

y = 0.0054 * x + 5.2098E-005
R = 1.0000
DL = 0.007141 ppb
BEC = 0.009636 ppb

Weight: <None>
Min Conc: <None>

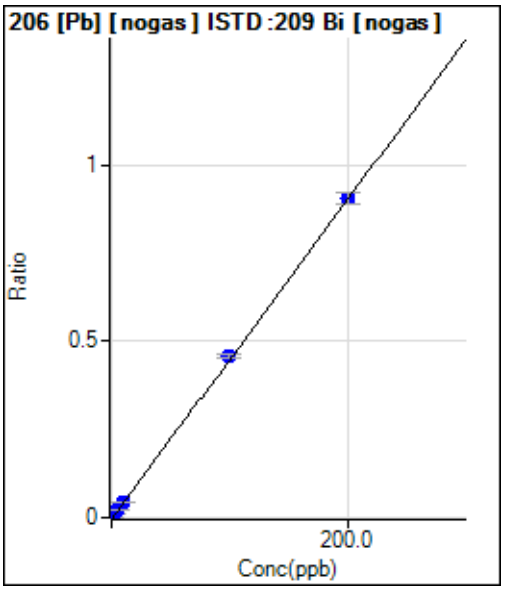


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	200.01	0.0001	P	15.2	
2	☐	2.000	1.841	50373.27	0.0256	P	3.6	-7.9
3	☐	5.000	4.575	124439.79	0.0634	P	5.8	-8.5
4	☐	10.000	9.167	254304.86	0.1269	P	4.2	-8.3
5	☐	100.000	95.235	2588361.00	1.3172	P	3.2	-4.8
6	☐	200.000	202.436	5461618.88	2.7998	A	2.7	1.2
7	☐	1.000						

y = 0.0138 * x + 1.0103E-004
R = 0.9996
DL = 0.003323 ppb
BEC = 0.007305 ppb

Weight: <None>
Min Conc: <None>

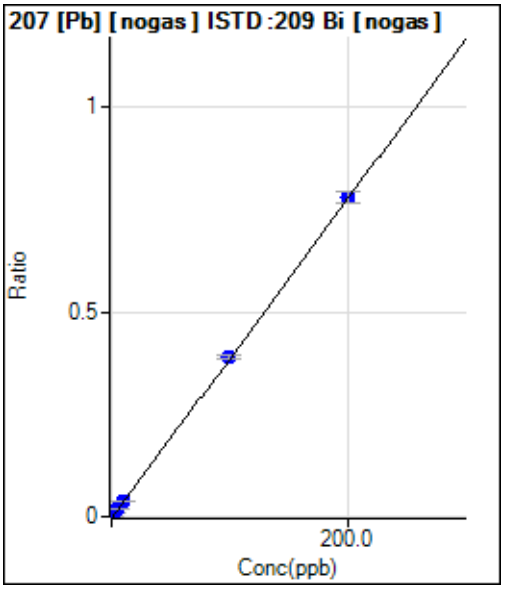
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0001	P	39.1	
2	☐	2.000	1.954	17631.67	0.0089	P	2.9	-2.3
3	☐	5.000	4.895	43750.55	0.0223	P	5.7	-2.1
4	☐	10.000	9.801	89244.10	0.0445	P	2.8	-2.0
5	☐	100.000	100.743	897552.25	0.4567	P	2.8	0.7
6	☐	200.000	199.641	1765285.24	0.9050	P	3.5	-0.2
7	☐	1.000						

y = 0.0045 * x + 8.9547E-005
R = 1.0000
DL = 0.0232 ppb
BEC = 0.01976 ppb

Weight: <None>
Min Conc: <None>

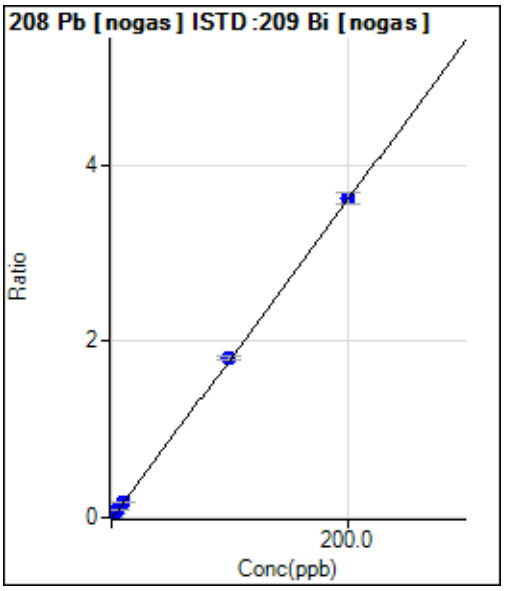


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	163.33	0.0001	P	5.1	
2	☐	2.000	1.919	14911.70	0.0076	P	5.0	-4.0
3	☐	5.000	4.939	37989.94	0.0194	P	8.4	-1.2
4	☐	10.000	9.664	75746.37	0.0378	P	2.7	-3.4
5	☐	100.000	100.096	767486.24	0.3906	P	3.0	0.1
6	☐	200.000	199.971	1521666.70	0.7802	P	4.0	0.0
7	☐	1.000						

y = 0.0039 * x + 8.2375E-005
R = 1.0000
DL = 0.00323 ppb
BEC = 0.02112 ppb

Weight: <None>
Min Conc: <None>

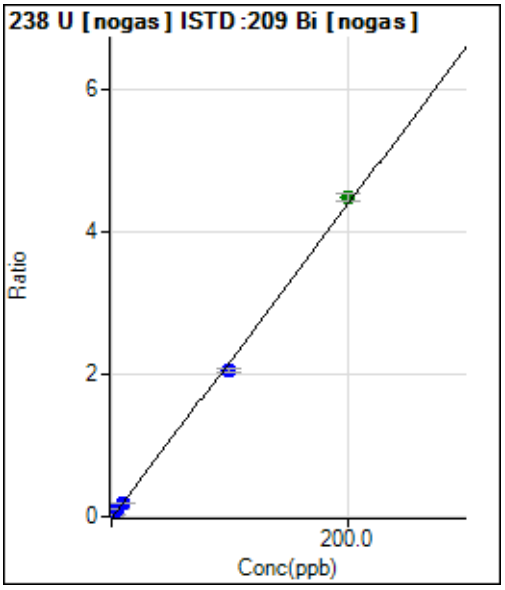
Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	700.02	0.0004	P	12.0	
2	☐	2.000	1.928	69590.73	0.0353	P	2.4	-3.6
3	☐	5.000	4.890	174736.52	0.0890	P	6.1	-2.2
4	☐	10.000	9.692	352833.74	0.1760	P	3.6	-3.1
5	☐	100.000	100.025	3563259.55	1.8133	P	3.0	0.0
6	☐	200.000	200.006	7071369.59	3.6254	P	3.6	0.0
7	☐	1.000						

y = 0.0181 * x + 3.5343E-004
R = 1.0000
DL = 0.007008 ppb
BEC = 0.0195 ppb

Weight: <None>
Min Conc: <None>

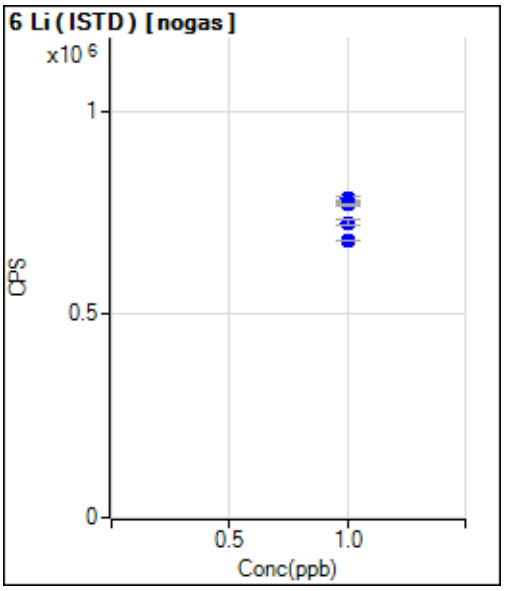


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	320.01	0.0002	P	22.6	
2	☐	2.000	1.760	76914.21	0.0390	P	5.8	-12.0
3	☐	5.000	4.481	194743.45	0.0992	P	5.2	-10.4
4	☐	10.000	8.892	394093.72	0.1966	P	3.6	-11.1
5	☐	100.000	93.153	4043992.13	2.0579	P	3.1	-6.8
6	☐	200.000	203.494	8769615.70	4.4954	A	2.6	1.7
7	☐	1.000						

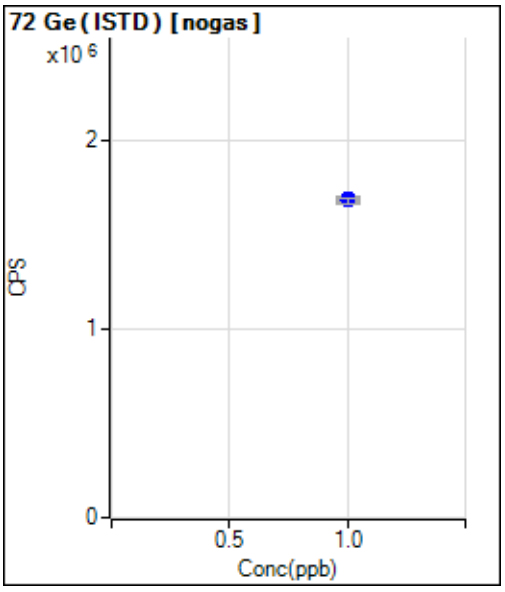
y = 0.0221 * x + 1.6147E-004
R = 0.9992
DL = 0.004965 ppb
BEC = 0.00731 ppb

Weight: <None>
Min Conc: <None>

Calibration for 292_ICV.d

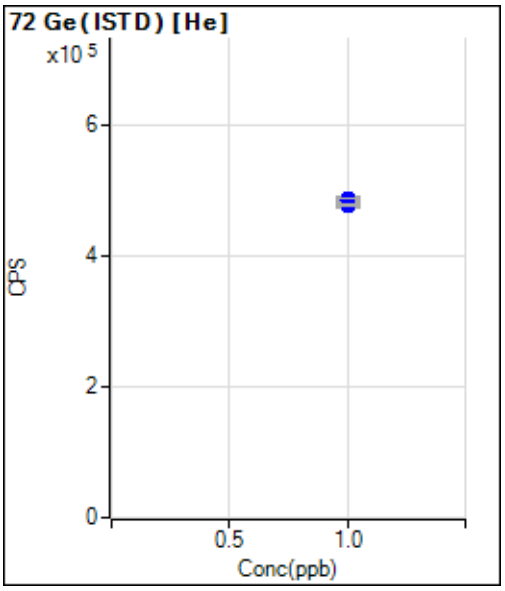


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		785959.67		P	1.0	
2	☐	1.000		773750.02		P	0.3	
3	☐	1.000		775084.08		P	0.9	
4	☐	1.000		770115.40		P	0.6	
5	☐	1.000		726190.16		P	1.5	
6	☐	1.000		682432.67		P	0.3	
7	☐	1.000						

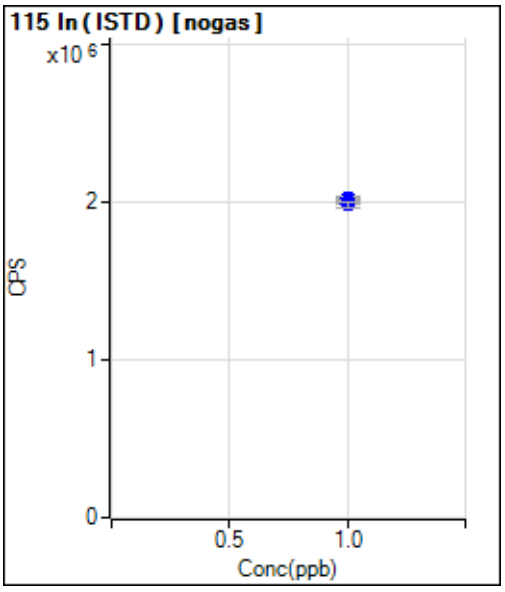


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1689951.80		P	0.5	
2	☐	1.000		1696339.56		P	1.1	
3	☐	1.000		1681483.78		P	0.2	
4	☐	1.000		1694510.18		P	1.5	
5	☐	1.000		1687494.61		P	0.6	
6	☐	1.000		1683215.86		P	1.6	
7	☐	1.000						

Calibration for 292_ICV.d

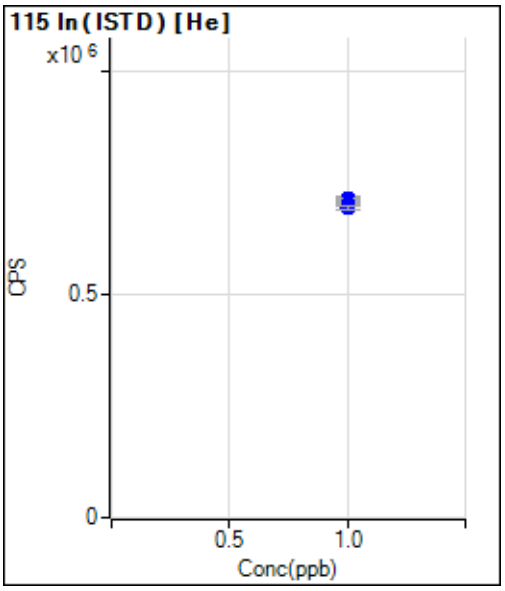


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		476070.18		P	1.0	
2	☐	1.000		486827.02		P	0.4	
3	☐	1.000		487686.22		P	0.6	
4	☐	1.000		486262.53		P	0.8	
5	☐	1.000		483929.34		P	1.1	
6	☐	1.000		476291.51		P	0.6	
7	☐	1.000						

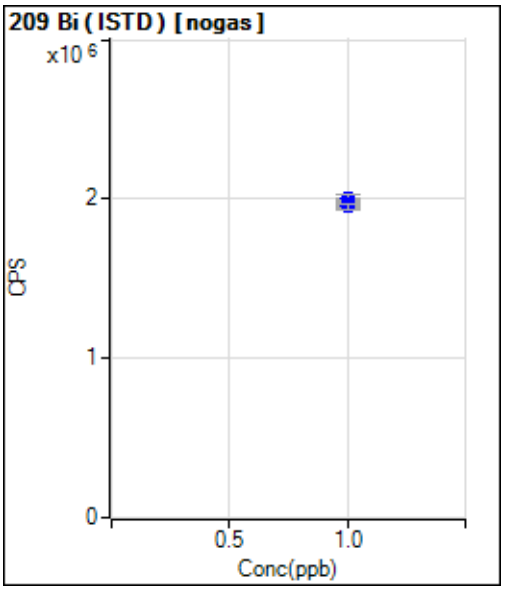


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2012398.59		P	0.9	
2	☐	1.000		2019888.90		P	0.6	
3	☐	1.000		2011133.10		P	1.1	
4	☐	1.000		2023305.78		P	0.7	
5	☐	1.000		1998859.90		P	1.4	
6	☐	1.000		1982665.41		P	1.5	
7	☐	1.000						

Calibration for 292_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		704039.78		P	0.5	
2	☐	1.000		710996.43		P	1.5	
3	☐	1.000		716099.85		P	1.1	
4	☐	1.000		713259.66		P	0.5	
5	☐	1.000		703780.47		P	0.2	
6	☐	1.000		694473.66		P	0.7	
7	☐	1.000						



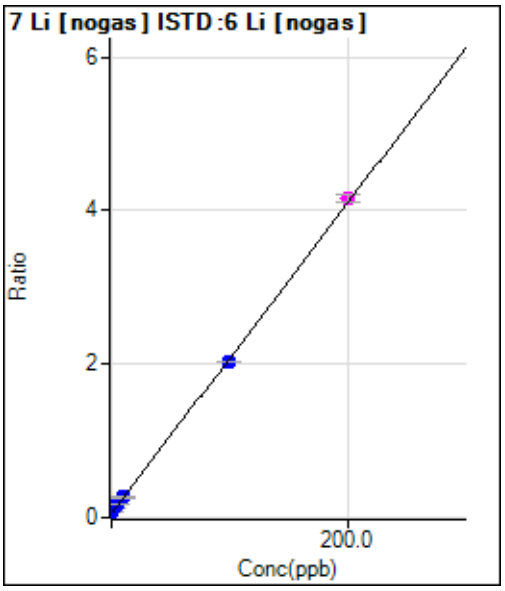
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1983997.63		P	2.1	
2	☐	1.000		1972059.08		P	3.0	
3	☐	1.000		1966273.82		P	3.3	
4	☐	1.000		2005840.91		P	2.7	
5	☐	1.000		1965555.49		P	1.2	
6	☐	1.000		1951517.52		P	2.2	
7	☐	1.000						

Calibration for 163_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070524A.b\
Analysis File: 070524A.batch.bin
DA Date-Time: 7/6/2024 10:31:27 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	156CALB.d	CAL BLK	7/5/2024 3:38:38 PM
2	157CALS.d	2/10/200	7/5/2024 3:40:45 PM
3	158CALS.d	5/25/500	7/5/2024 3:42:51 PM
4	159CALS.d	10/50/1000	7/5/2024 3:44:58 PM
5	160CALS.d	100/500/10K	7/5/2024 3:47:04 PM
6	161CALS.d	200/1000/20K	7/5/2024 3:49:09 PM
7			

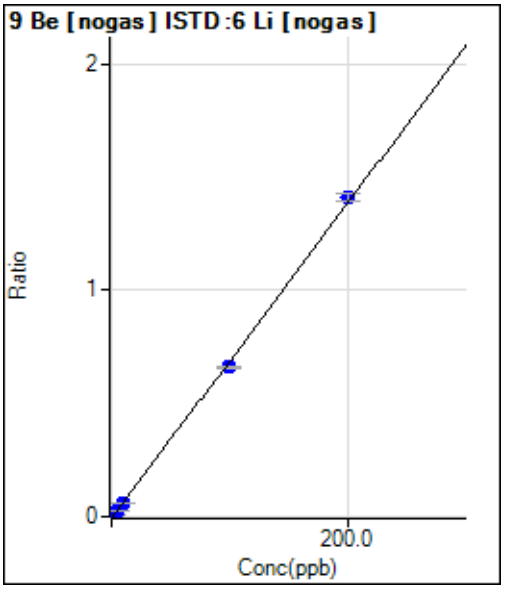
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	97126.50	0.0794	P	0.4	
2	☐	2.000	1.787	138421.52	0.1156	P	1.2	-10.6
3	☐	5.000	4.556	202666.66	0.1715	P	0.6	-8.9
4	☐	10.000	9.098	300389.78	0.2633	P	0.9	-9.0
5	☐	100.000	96.253	2099453.51	2.0246	P	0.7	-3.7
6	☐	200.000	201.932	3912590.77	4.1602	M	2.9	1.0
7	☐	1.000						

y = 0.0202 * x + 0.0794
R = 0.9998
DL = 0.05262 ppb
BEC = 3.931 ppb

Weight: <None>
Min Conc: <None>

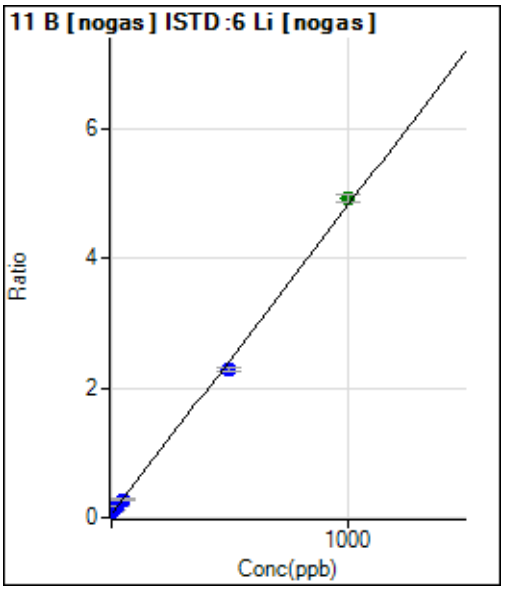


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	225.00	0.0002	P	16.2	
2	☐	2.000	1.646	13939.65	0.0116	P	2.0	-17.7
3	☐	5.000	4.173	34526.60	0.0292	P	1.4	-16.5
4	☐	10.000	8.539	67997.69	0.0596	P	0.5	-14.6
5	☐	100.000	94.840	684535.41	0.6601	P	0.9	-5.2
6	☐	200.000	202.677	1326492.38	1.4104	P	2.2	1.3
7	☐	1.000						

y = 0.0070 * x + 1.8414E-004
R = 0.9996
DL = 0.01283 ppb
BEC = 0.02646 ppb

Weight: <None>
Min Conc: <None>

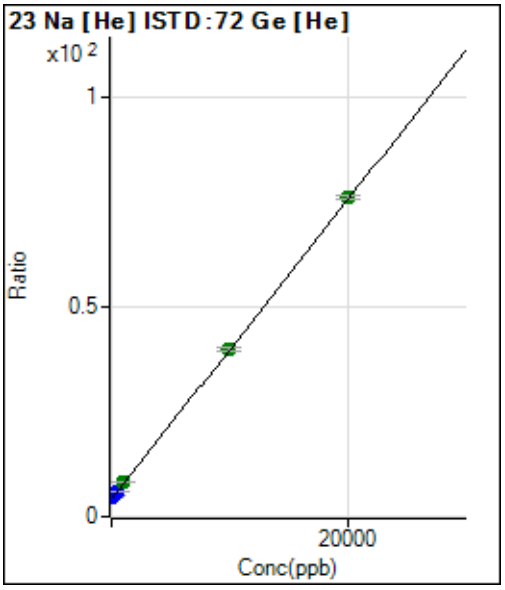
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100788.63	0.0824	P	1.6	
2	☐	10.000	7.625	142120.85	0.1186	P	1.7	-23.8
3	☐	25.000	18.752	202624.39	0.1715	P	2.1	-25.0
4	☐	50.000	41.278	317659.14	0.2785	P	2.3	-17.4
5	☐	500.000	464.210	2371653.09	2.2868	P	3.2	-7.2
6	☐	1000.000	1018.511	4626505.97	4.9190	A	2.6	1.9
7	☐	5.000						

y = 0.0047 * x + 0.0824
R = 0.9992
DL = 0.8292 ppb
BEC = 17.36 ppb

Weight: <None>
Min Conc: <None>

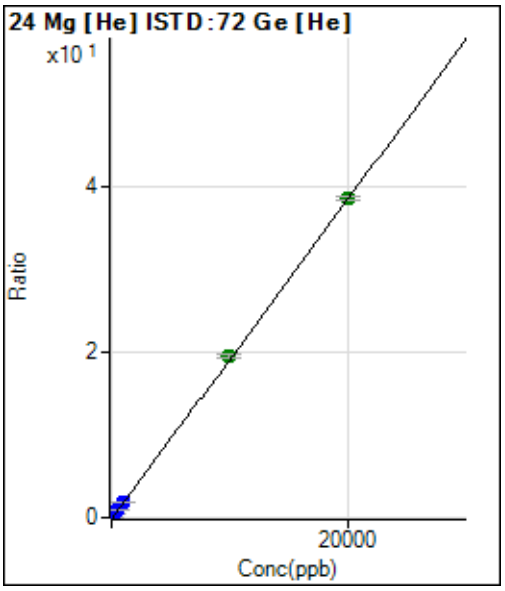


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2992624.44	4.5695	P	0.8	
2	☐	200.000	152.871	3370874.95	5.1137	P	0.2	-23.6
3	☐	500.000	408.617	3995945.05	6.0242	P	0.4	-18.3
4	☐	1000.000	1042.054	5394260.54	8.2794	A	1.0	4.2
5	☐	10000.00	9886.823	26116288.78	39.7688	A	1.5	-1.1
6	☐	20000.00	20057.24	49057114.27	75.9778	A	1.6	0.3
7	☐	100.000						

y = 0.0036 * x + 4.5695
R = 1.0000
DL = 29.02 ppb
BEC = 1283 ppb

Weight: <None>
Min Conc: <None>

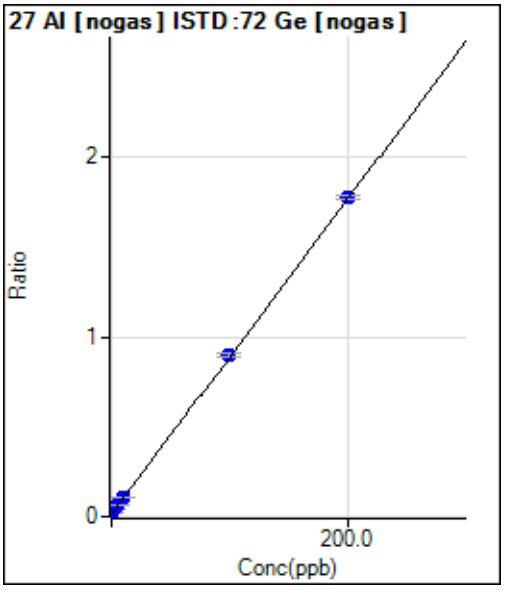
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2796.97	0.0043	P	4.1	
2	☐	200.000	187.799	242572.72	0.3680	P	0.3	-6.1
3	☐	500.000	477.599	616402.48	0.9293	P	0.5	-4.5
4	☐	1000.000	973.962	1231816.26	1.8906	P	1.3	-2.6
5	☐	10000.00	10085.70	12830511.48	19.5378	A	1.6	0.9
6	☐	20000.00	19959.13	24961663.79	38.6603	A	1.8	-0.2
7	☐	100.000						

y = 0.0019 * x + 0.0043
R = 1.0000
DL = 0.2703 ppb
BEC = 2.205 ppb

Weight: <None>
Min Conc: <None>

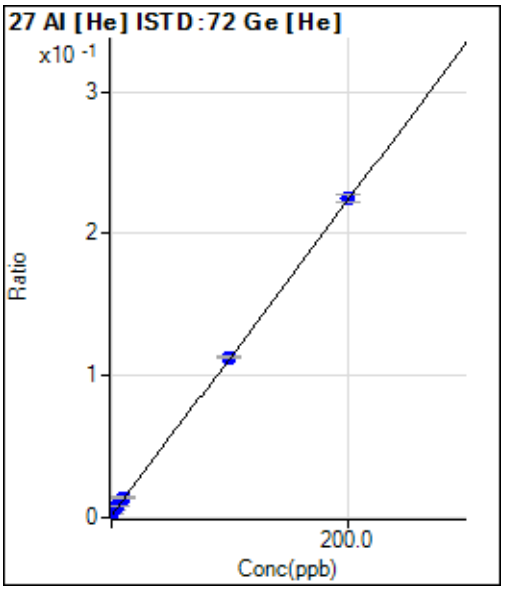


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	52954.83	0.0229	P	0.8	
2	☐	2.000	1.761	90188.08	0.0383	P	1.1	-11.9
3	☐	5.000	4.751	151995.96	0.0646	P	1.5	-5.0
4	☐	10.000	9.864	257456.14	0.1095	P	1.3	-1.4
5	☐	100.000	100.000	2104414.19	0.9008	P	1.9	0.0
6	☐	200.000	200.015	4117606.19	1.7788	P	1.1	0.0
7	☐	1.000						

y = 0.0088 * x + 0.0229
R = 1.0000
DL = 0.06386 ppb
BEC = 2.606 ppb

Weight: <None>
Min Conc: <None>

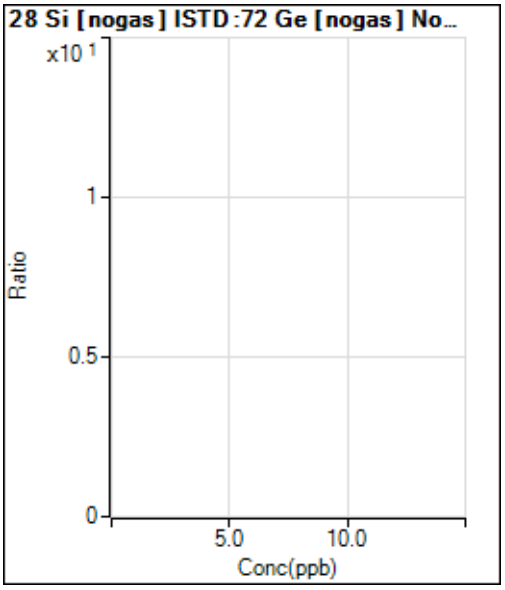
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1813.47	0.0028	P	4.9	
2	☐	2.000	2.109	3367.20	0.0051	P	4.6	5.5
3	☐	5.000	4.874	5424.38	0.0082	P	6.4	-2.5
4	☐	10.000	10.201	9176.23	0.0141	P	3.3	2.0
5	☐	100.000	99.239	74111.74	0.1128	P	0.9	-0.8
6	☐	200.000	200.372	145260.96	0.2250	P	2.8	0.2
7	☐	1.000						

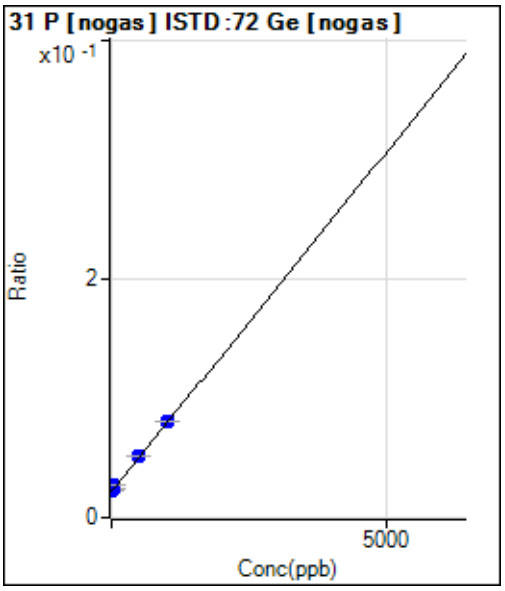
y = 0.0011 * x + 0.0028
R = 1.0000
DL = 0.3704 ppb
BEC = 2.497 ppb

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						

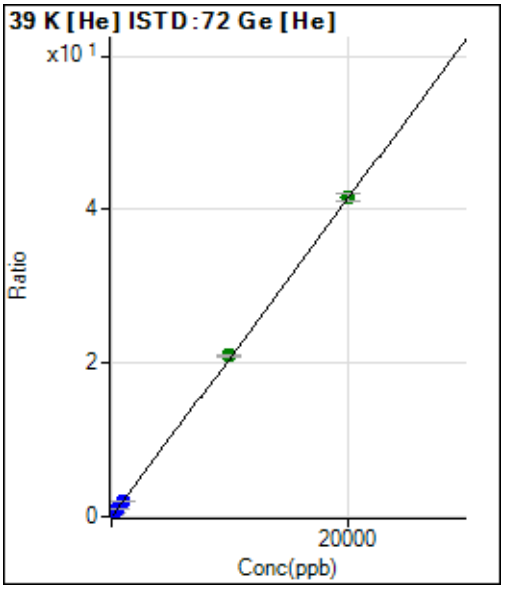
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54075.49	0.0234	P	2.2	
2	☐	10.000	-0.977	54844.82	0.0233	P	1.5	-109.
3	☐	25.000	21.591	57882.79	0.0246	P	0.1	-13.6
4	☐	50.000	71.762	64558.77	0.0274	P	0.9	43.5
5	☐	500.000	491.267	119909.53	0.0513	P	0.9	-1.7
6	☐	1000.000	1003.473	186303.97	0.0805	P	0.3	0.3
7	☐	5.000						

y = 5.6915E-005 * x + 0.0234
R = 0.9996
DL = 26.55 ppb
BEC = 410.5 ppb

Weight: <None>
Min Conc: <None>

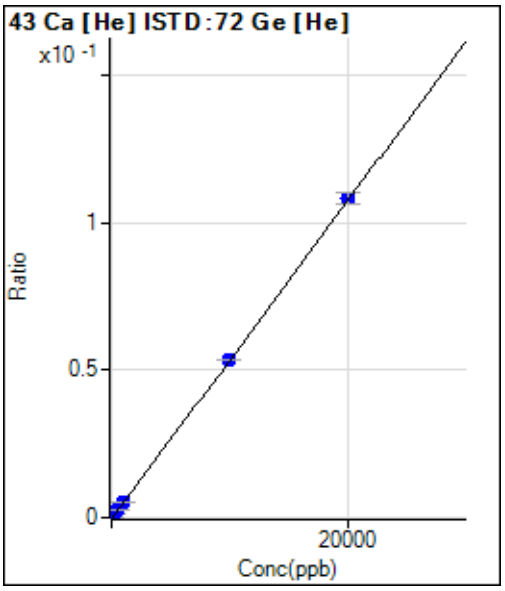


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	117478.89	0.1794	P	1.0	
2	☐	200.000	181.541	366295.28	0.5557	P	0.6	-9.2
3	☐	500.000	454.248	743543.17	1.1210	P	0.8	-9.2
4	☐	1000.000	929.255	1371850.55	2.1056	P	1.7	-7.1
5	☐	10000.00	10032.20	13774952.29	20.9748	A	1.3	0.3
6	☐	20000.00	19988.76	26869155.43	41.6134	A	2.0	-0.1
7	☐	100.000						

y = 0.0021 * x + 0.1794
R = 1.0000
DL = 2.699 ppb
BEC = 86.53 ppb

Weight: <None>
Min Conc: <None>

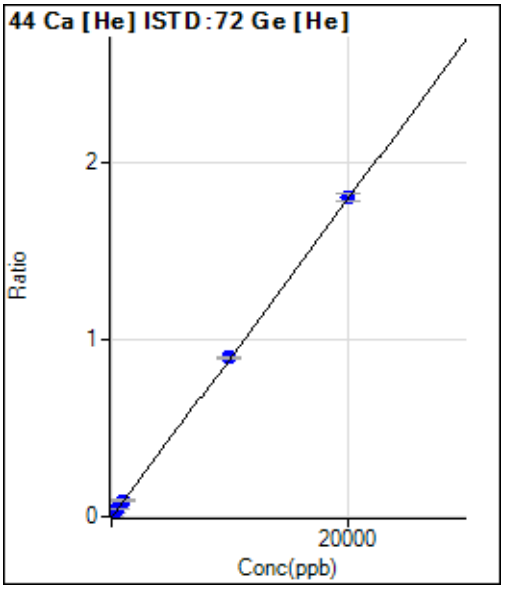
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	88.2	
2	☐	200.000	202.893	753.36	0.0011	P	5.1	1.4
3	☐	500.000	484.181	1766.80	0.0027	P	6.8	-3.2
4	☐	1000.000	944.542	3357.11	0.0052	P	7.9	-5.5
5	☐	10000.00	9911.532	35227.79	0.0536	P	0.6	-0.9
6	☐	20000.00	20047.37	70011.06	0.1084	P	3.1	0.2
7	☐	100.000						

y = 5.4069E-006 * x + 4.5892E-005
R = 1.0000
DL = 22.47 ppb
BEC = 8.488 ppb

Weight: <None>
Min Conc: <None>

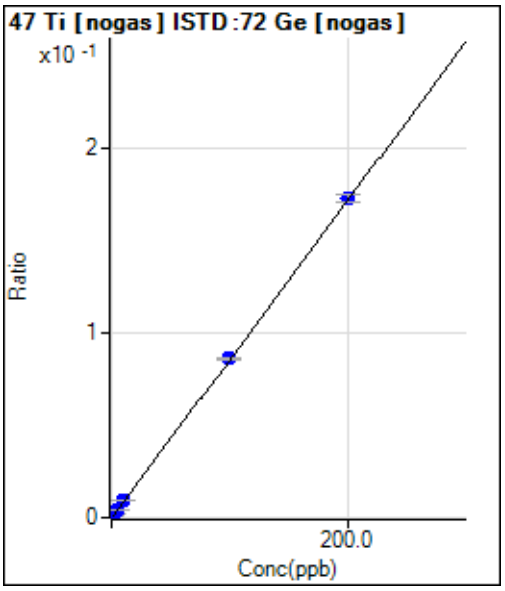


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2326.91	0.0036	P	2.6	
2	☐	200.000	190.813	13663.05	0.0207	P	2.6	-4.6
3	☐	500.000	467.976	30297.25	0.0457	P	0.3	-6.4
4	☐	1000.000	986.994	60195.92	0.0924	P	2.0	-1.3
5	☐	10000.00	9964.964	591376.98	0.9005	P	0.9	-0.4
6	☐	20000.00	20019.06	1165683.13	1.8054	P	2.1	0.1
7	☐	100.000						

y = 9.0006E-005 * x + 0.0036
R = 1.0000
DL = 3.073 ppb
BEC = 39.48 ppb

Weight: <None>
Min Conc: <None>

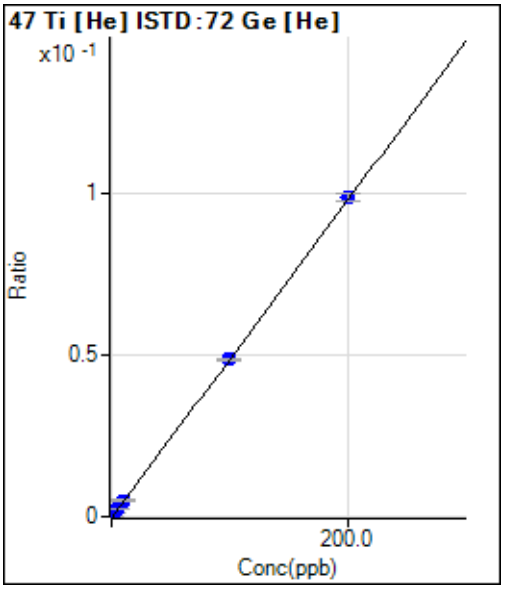
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1250.08	0.0005	P	2.4	
2	☐	2.000	1.975	5264.36	0.0022	P	7.6	-1.2
3	☐	5.000	4.746	10857.39	0.0046	P	2.2	-5.1
4	☐	10.000	9.945	21338.70	0.0091	P	5.0	-0.5
5	☐	100.000	99.372	200507.82	0.0858	P	2.0	-0.6
6	☐	200.000	200.323	399323.97	0.1725	P	1.9	0.2
7	☐	1.000						

y = 8.5826E-004 * x + 5.4011E-004
R = 1.0000
DL = 0.04452 ppb
BEC = 0.6293 ppb

Weight: <None>
Min Conc: <None>

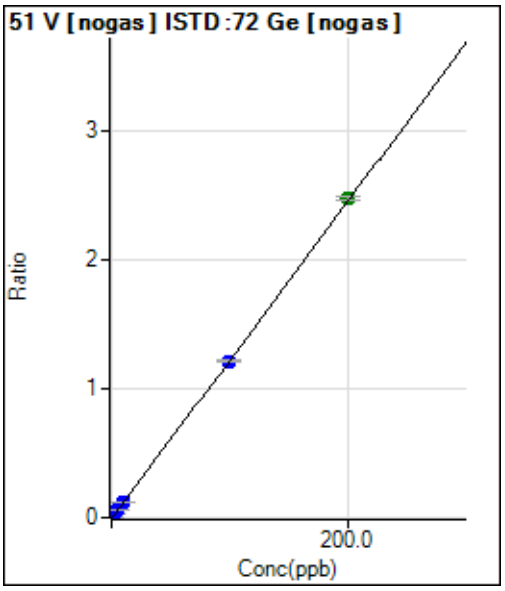


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0001	P	40.8	
2	☐	2.000	1.761	620.02	0.0009	P	7.1	-11.9
3	☐	5.000	4.720	1586.78	0.0024	P	8.1	-5.6
4	☐	10.000	9.960	3233.74	0.0050	P	7.1	-0.4
5	☐	100.000	98.574	31810.42	0.0484	P	0.7	-1.4
6	☐	200.000	200.724	63630.33	0.0985	P	2.3	0.4
7	☐	1.000						

y = 4.9058E-004 * x + 7.6530E-005
R = 1.0000
DL = 0.1908 ppb
BEC = 0.156 ppb

Weight: <None>
Min Conc: <None>

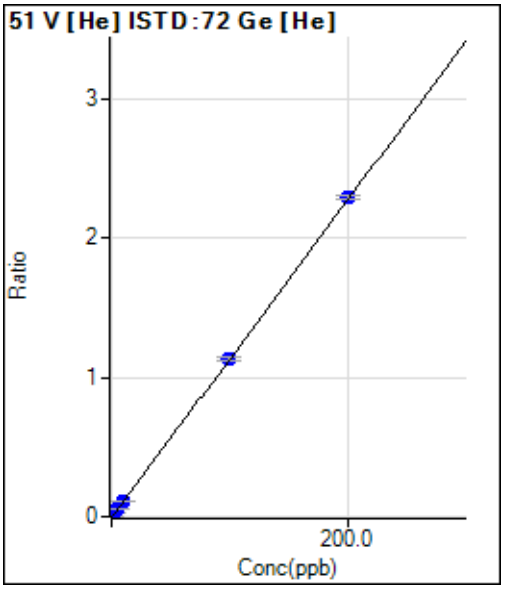
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9006.67	0.0039	P	22.9	
2	☐	2.000	1.767	60424.56	0.0257	P	4.5	-11.7
3	☐	5.000	4.537	140844.14	0.0598	P	1.5	-9.3
4	☐	10.000	9.302	278925.82	0.1186	P	1.5	-7.0
5	☐	100.000	98.091	2834951.46	1.2134	P	1.2	-1.9
6	☐	200.000	201.003	5746926.03	2.4824	A	0.6	0.5
7	☐	1.000						

y = 0.0123 * x + 0.0039
R = 0.9999
DL = 0.2164 ppb
BEC = 0.3155 ppb

Weight: <None>
Min Conc: <None>

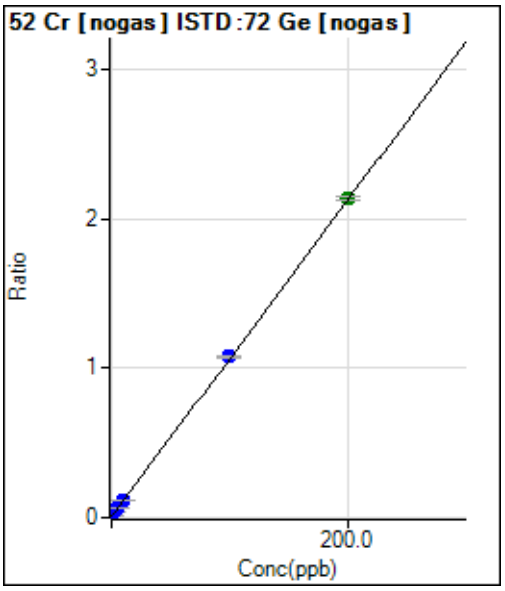


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2520.54	0.0039	P	22.3	
2	☐	2.000	1.811	16167.13	0.0245	P	5.0	-9.4
3	☐	5.000	4.873	39441.78	0.0595	P	1.0	-2.5
4	☐	10.000	9.792	75319.25	0.1156	P	1.2	-2.1
5	☐	100.000	98.817	743091.24	1.1316	P	2.3	-1.2
6	☐	200.000	200.607	1480851.33	2.2933	P	0.7	0.3
7	☐	1.000						

y = 0.0114 * x + 0.0039
R = 1.0000
DL = 0.2262 ppb
BEC = 0.3374 ppb

Weight: <None>
Min Conc: <None>

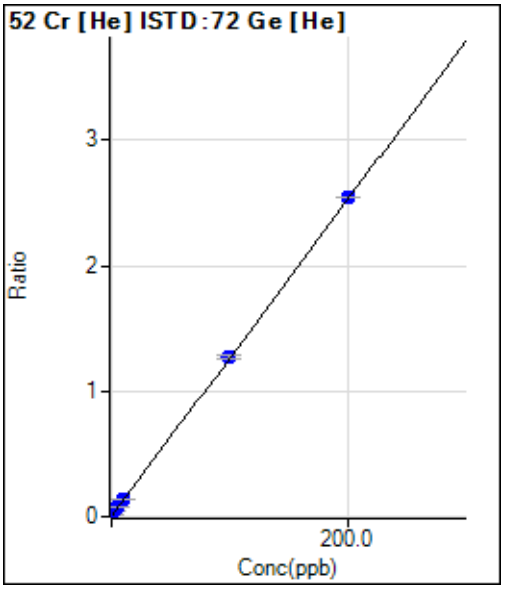
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41470.43	0.0179	P	2.7	
2	☐	2.000	1.777	86496.30	0.0368	P	2.0	-11.1
3	☐	5.000	4.635	157843.43	0.0671	P	0.3	-7.3
4	☐	10.000	9.251	272854.92	0.1160	P	1.1	-7.5
5	☐	100.000	99.887	2516309.29	1.0771	P	0.8	-0.1
6	☐	200.000	200.105	4953473.15	2.1398	A	1.1	0.1
7	☐	1.000						

y = 0.0106 * x + 0.0179
R = 1.0000
DL = 0.1353 ppb
BEC = 1.69 ppb

Weight: <None>
Min Conc: <None>

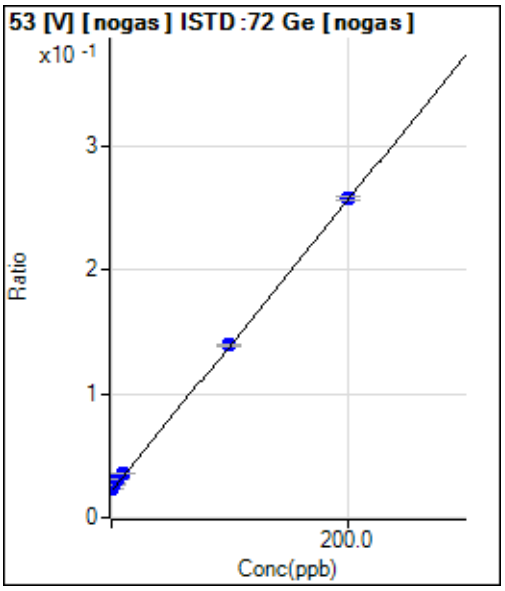


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11064.23	0.0169	P	7.5	
2	☐	2.000	1.986	27665.81	0.0420	P	1.0	-0.7
3	☐	5.000	4.911	52327.53	0.0789	P	0.9	-1.8
4	☐	10.000	9.904	92468.56	0.1419	P	1.7	-1.0
5	☐	100.000	99.330	834442.72	1.2707	P	1.9	-0.7
6	☐	200.000	200.342	1643842.16	2.5458	P	0.6	0.2
7	☐	1.000						

y = 0.0126 * x + 0.0169
R = 1.0000
DL = 0.2994 ppb
BEC = 1.339 ppb

Weight: <None>
Min Conc: <None>

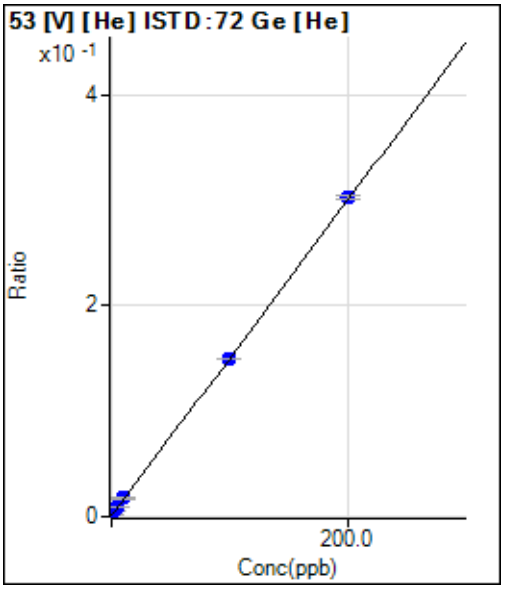
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	52929.52	0.0229	P	2.5	
2	☐	2.000	3.557	63593.41	0.0270	P	1.1	77.9
3	☐	5.000	6.523	71800.33	0.0305	P	0.7	30.5
4	☐	10.000	11.346	85062.02	0.0362	P	0.3	13.5
5	☐	100.000	99.322	325423.88	0.1393	P	0.9	-0.7
6	☐	200.000	200.218	596373.00	0.2576	P	1.6	0.1
7	☐	1.000						

y = 0.0012 * x + 0.0229
R = 1.0000
DL = 1.435 ppb
BEC = 19.5 ppb

Weight: <None>
Min Conc: <None>

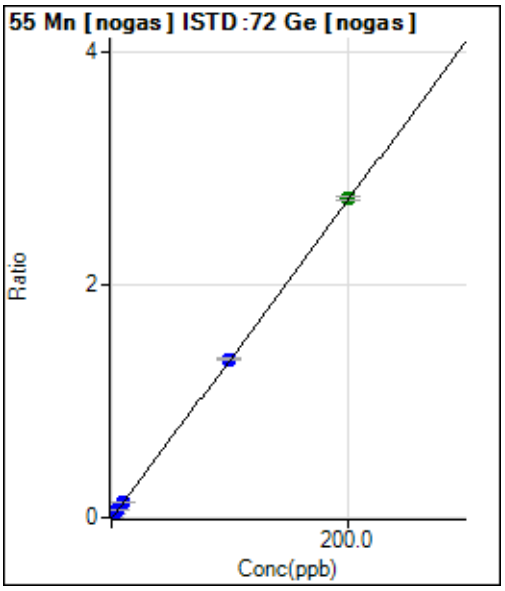


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1550.11	0.0024	P	10.6	
2	☐	2.000	2.087	3620.48	0.0055	P	4.9	4.4
3	☐	5.000	4.598	6138.02	0.0093	P	3.2	-8.0
4	☐	10.000	10.010	11311.10	0.0174	P	2.5	0.1
5	☐	100.000	98.603	98549.91	0.1501	P	0.6	-1.4
6	☐	200.000	200.707	195627.32	0.3030	P	1.7	0.4
7	☐	1.000						

y = 0.0015 * x + 0.0024
R = 1.0000
DL = 0.5006 ppb
BEC = 1.58 ppb

Weight: <None>
Min Conc: <None>

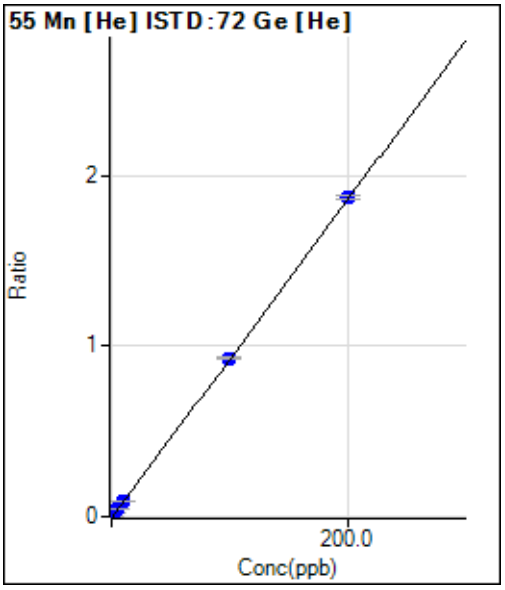
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8919.45	0.0039	P	3.2	
2	☐	2.000	1.875	69416.50	0.0295	P	2.5	-6.3
3	☐	5.000	4.814	164115.45	0.0697	P	1.1	-3.7
4	☐	10.000	9.796	324401.26	0.1379	P	0.1	-2.0
5	☐	100.000	99.227	3181598.29	1.3619	P	1.7	-0.8
6	☐	200.000	200.403	6358360.32	2.7466	A	1.5	0.2
7	☐	1.000						

y = 0.0137 * x + 0.0039
R = 1.0000
DL = 0.02723 ppb
BEC = 0.2816 ppb

Weight: <None>
Min Conc: <None>

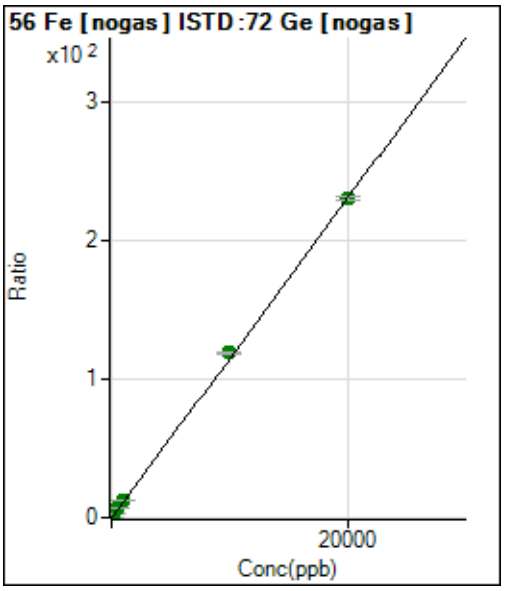


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	376.68	0.0006	P	6.3	
2	☐	2.000	1.904	12118.36	0.0184	P	2.6	-4.8
3	☐	5.000	4.922	30918.81	0.0466	P	3.7	-1.6
4	☐	10.000	9.909	60765.82	0.0933	P	2.0	-0.9
5	☐	100.000	99.185	609666.58	0.9283	P	1.2	-0.8
6	☐	200.000	200.415	1210779.12	1.8752	P	1.2	0.2
7	☐	1.000						

y = 0.0094 * x + 5.7505E-004
R = 1.0000
DL = 0.01171 ppb
BEC = 0.06148 ppb

Weight: <None>
Min Conc: <None>

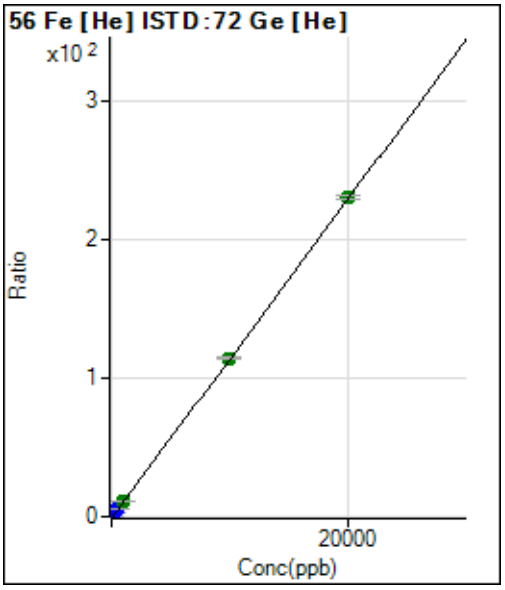
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1525381.85	0.6590	P	0.4	
2	☐	200.000	204.101	7106733.23	3.0204	A	0.6	2.1
3	☐	500.000	512.403	15502023.52	6.5874	A	1.8	2.5
4	☐	1000.000	1017.957	29245734.56	12.4366	A	2.1	1.8
5	☐	10000.00	10236.57	278200515.8	119.094	A	1.6	2.4
6	☐	20000.00	19880.46	534070738.7	230.673	A	1.3	-0.6
7	☐	100.000						

y = 0.0116 * x + 0.6590
R = 0.9999
DL = 0.748 ppb
BEC = 56.95 ppb

Weight: <None>
Min Conc: <None>

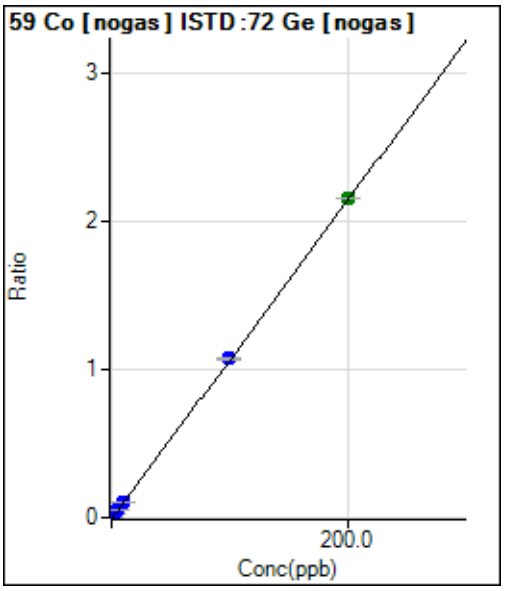


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18805.53	0.0287	P	4.7	
2	☐	200.000	185.069	1419958.26	2.1541	P	1.1	-7.5
3	☐	500.000	464.311	3555936.93	5.3610	P	0.8	-7.1
4	☐	1000.000	1007.349	7556239.68	11.5974	A	0.9	0.7
5	☐	10000.00	9946.591	75035348.88	114.258	A	1.6	-0.5
6	☐	20000.00	20027.37	148530261.1	230.029	A	0.7	0.1
7	☐	100.000						

y = 0.0115 * x + 0.0287
R = 1.0000
DL = 0.354 ppb
BEC = 2.5 ppb

Weight: <None>
Min Conc: <None>

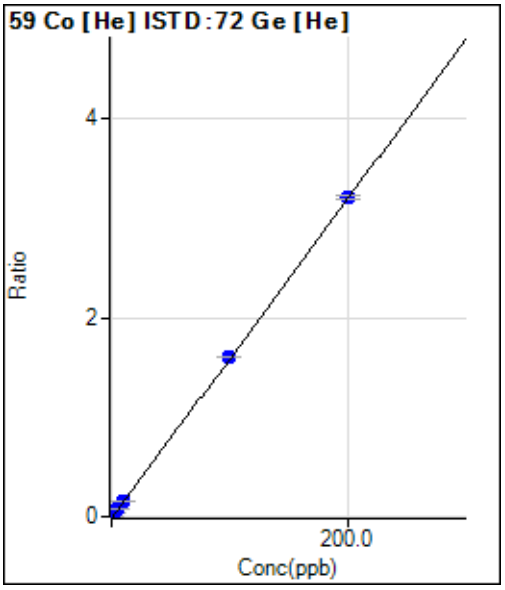
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	376.68	0.0002	P	12.4	
2	☐	2.000	1.966	50194.12	0.0213	P	1.4	-1.7
3	☐	5.000	4.918	125023.53	0.0531	P	1.1	-1.6
4	☐	10.000	10.010	253911.92	0.1080	P	1.1	0.1
5	☐	100.000	99.580	2505754.08	1.0726	P	1.1	-0.4
6	☐	200.000	200.212	4992206.28	2.1564	A	0.4	0.1
7	☐	1.000						

y = 0.0108 * x + 1.6293E-004
R = 1.0000
DL = 0.005637 ppb
BEC = 0.01513 ppb

Weight: <None>
Min Conc: <None>

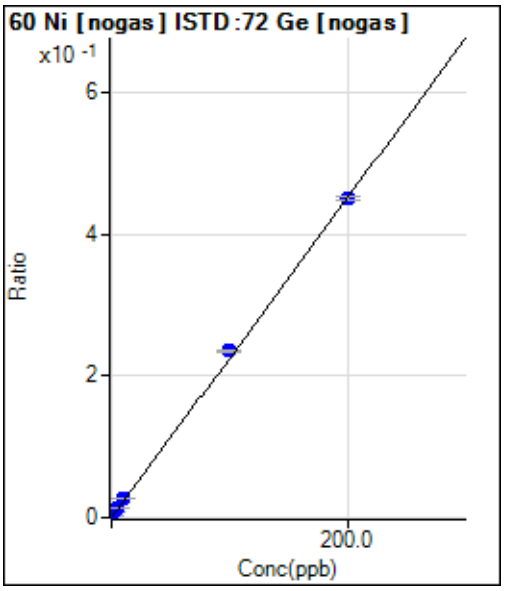


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	57.2	
2	☐	2.000	1.938	20574.42	0.0312	P	3.5	-3.1
3	☐	5.000	4.951	52809.44	0.0796	P	2.1	-1.0
4	☐	10.000	10.078	105538.80	0.1620	P	2.2	0.8
5	☐	100.000	100.093	1056249.23	1.6083	P	0.8	0.1
6	☐	200.000	199.951	2074467.94	3.2127	P	1.2	0.0
7	☐	1.000						

y = 0.0161 * x + 6.5933E-005
R = 1.0000
DL = 0.007048 ppb
BEC = 0.004104 ppb

Weight: <None>
Min Conc: <None>

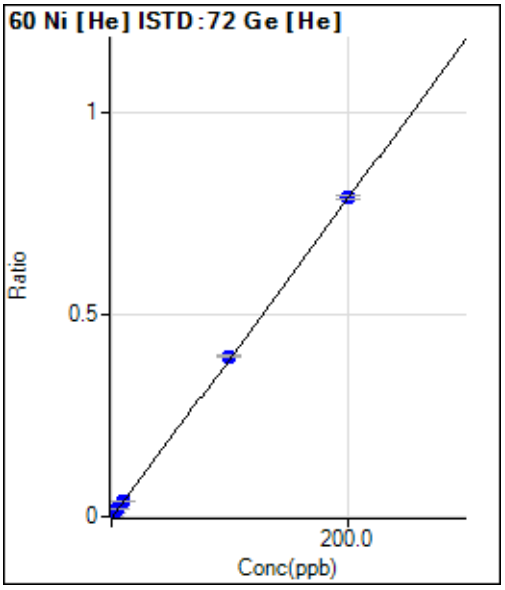
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4944.25	0.0021	P	0.2	
2	☐	2.000	2.091	16148.98	0.0069	P	1.2	4.5
3	☐	5.000	5.132	32345.07	0.0137	P	2.4	2.6
4	☐	10.000	10.605	61435.65	0.0261	P	0.1	6.1
5	☐	100.000	103.036	549368.93	0.2352	P	0.6	3.0
6	☐	200.000	198.448	1043947.90	0.4509	P	0.8	-0.8
7	☐	1.000						

y = 0.0023 * x + 0.0021
R = 0.9998
DL = 0.006702 ppb
BEC = 0.9444 ppb

Weight: <None>
Min Conc: <None>

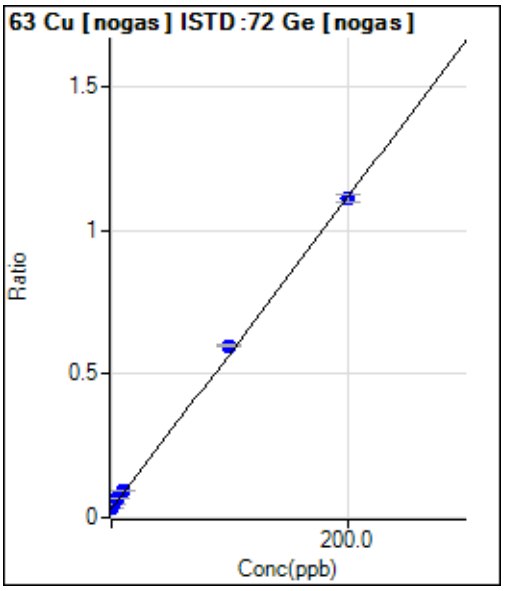


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	286.68	0.0004	P	18.0	
2	☐	2.000	1.927	5311.05	0.0081	P	6.2	-3.6
3	☐	5.000	4.961	13299.43	0.0200	P	1.0	-0.8
4	☐	10.000	10.095	26286.75	0.0403	P	0.5	0.9
5	☐	100.000	100.159	260326.51	0.3964	P	1.3	0.2
6	☐	200.000	199.918	510592.54	0.7908	P	1.6	0.0
7	☐	1.000						

y = 0.0040 * x + 4.3818E-004
R = 1.0000
DL = 0.05984 ppb
BEC = 0.1108 ppb

Weight: <None>
Min Conc: <None>

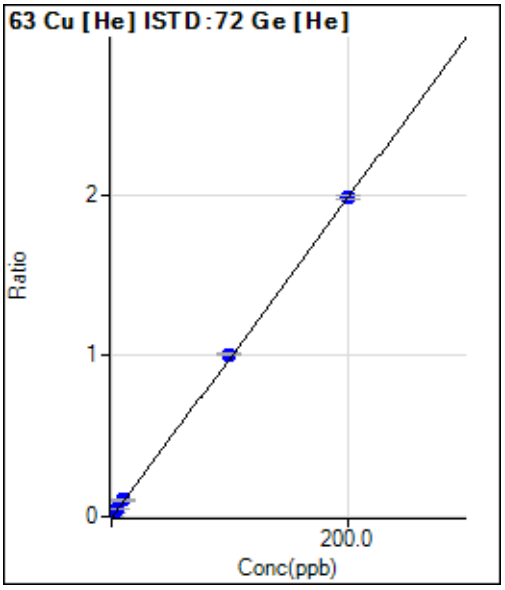
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80083.17	0.0346	P	1.7	
2	☐	2.000	2.345	111350.49	0.0473	P	0.4	17.2
3	☐	5.000	5.613	153191.70	0.0651	P	1.5	12.3
4	☐	10.000	11.228	224813.39	0.0956	P	1.4	12.3
5	☐	100.000	103.642	1396387.58	0.5977	P	1.0	3.6
6	☐	200.000	198.099	2571945.64	1.1109	P	2.0	-1.0
7	☐	1.000						

y = 0.0054 * x + 0.0346
R = 0.9998
DL = 0.3229 ppb
BEC = 6.366 ppb

Weight: <None>
Min Conc: <None>

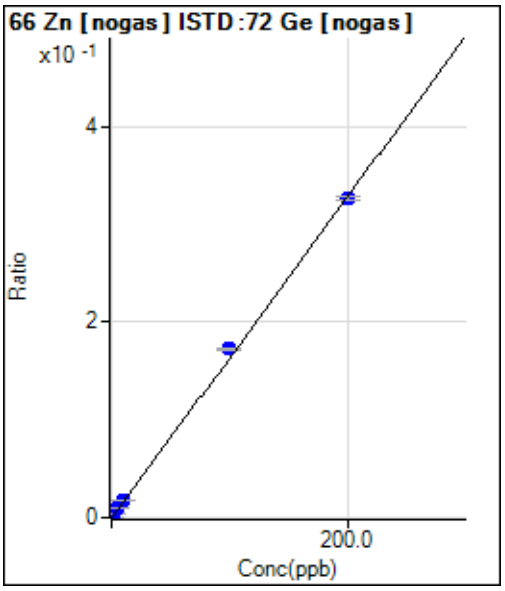


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	676.70	0.0010	P	27.5	
2	☐	2.000	2.071	14243.65	0.0216	P	1.5	3.5
3	☐	5.000	5.007	33681.44	0.0508	P	1.2	0.1
4	☐	10.000	10.164	66467.41	0.1020	P	1.5	1.6
5	☐	100.000	101.154	660663.82	1.0060	P	1.2	1.2
6	☐	200.000	199.414	1279929.43	1.9822	P	0.7	-0.3
7	☐	1.000						

y = 0.0099 * x + 0.0010
R = 1.0000
DL = 0.08597 ppb
BEC = 0.104 ppb

Weight: <None>
Min Conc: <None>

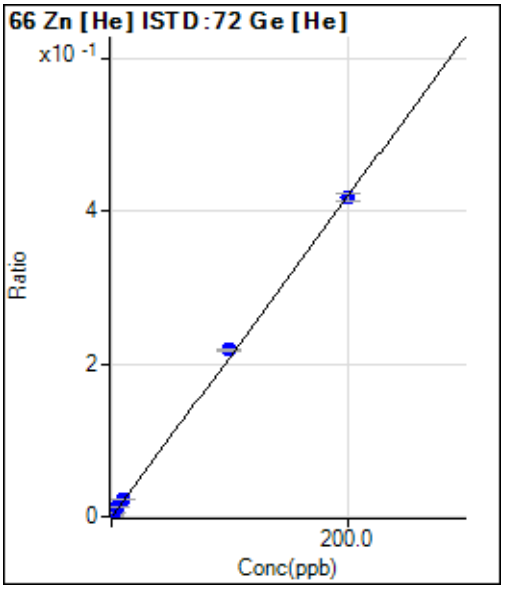
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2183.53	0.0009	P	3.4	
2	☐	2.000	2.074	10240.31	0.0044	P	6.1	3.7
3	☐	5.000	5.133	22089.96	0.0094	P	1.6	2.7
4	☐	10.000	10.345	42246.70	0.0180	P	2.6	3.5
5	☐	100.000	104.245	402718.41	0.1724	P	1.5	4.2
6	☐	200.000	197.856	755485.85	0.3263	P	0.9	-1.1
7	☐	1.000						

y = 0.0016 * x + 9.4306E-004
R = 0.9997
DL = 0.05822 ppb
BEC = 0.5734 ppb

Weight: <None>
Min Conc: <None>

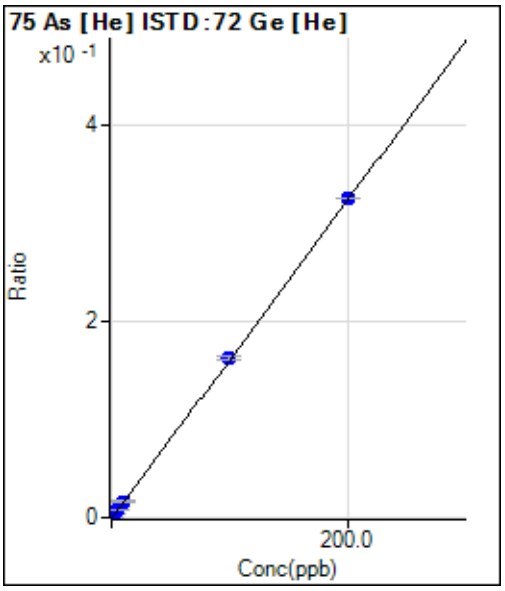


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	846.71	0.0013	P	9.7	
2	☐	2.000	1.870	3440.46	0.0052	P	0.4	-6.5
3	☐	5.000	5.067	7915.57	0.0119	P	2.0	1.3
4	☐	10.000	10.317	14957.68	0.0230	P	3.7	3.2
5	☐	100.000	103.198	143200.51	0.2180	P	1.9	3.2
6	☐	200.000	198.385	269815.98	0.4179	P	1.9	-0.8
7	☐	1.000						

y = 0.0021 * x + 0.0013
R = 0.9998
DL = 0.1792 ppb
BEC = 0.6153 ppb

Weight: <None>
Min Conc: <None>

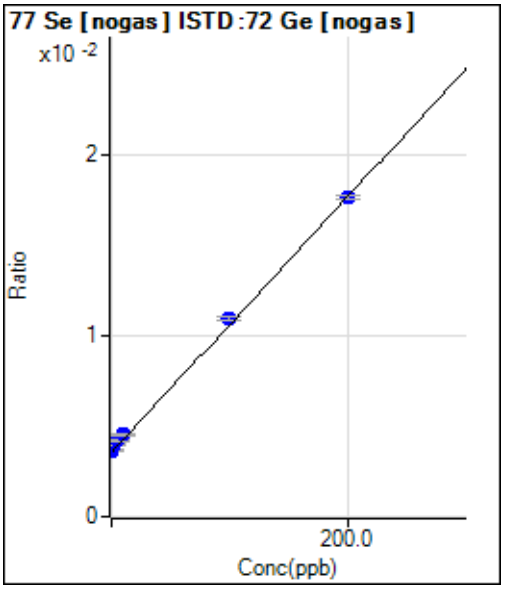
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	233.34	0.0004	P	17.3	
2	☐	2.000	1.937	2311.30	0.0035	P	5.5	-3.2
3	☐	5.000	4.802	5415.46	0.0082	P	2.3	-4.0
4	☐	10.000	9.941	10766.16	0.0165	P	4.2	-0.6
5	☐	100.000	99.771	106778.77	0.1626	P	1.7	-0.2
6	☐	200.000	200.123	210365.34	0.3258	P	0.4	0.1
7	☐	1.000						

y = 0.0016 * x + 3.5664E-004
R = 1.0000
DL = 0.1141 ppb
BEC = 0.2193 ppb

Weight: <None>
Min Conc: <None>

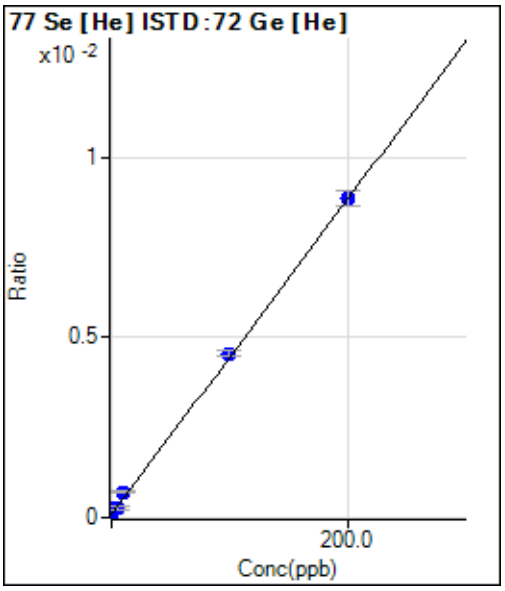


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8445.87	0.0036	P	2.8	
2	☐	2.000	4.320	9299.74	0.0040	P	2.1	116.0
3	☐	5.000	8.134	9936.82	0.0042	P	1.9	62.7
4	☐	10.000	12.713	10690.68	0.0045	P	1.8	27.1
5	☐	100.000	103.076	25502.17	0.0109	P	2.1	3.1
6	☐	200.000	198.225	40809.69	0.0176	P	1.5	-0.9
7	☐	1.000						

y = 7.0520E-005 * x + 0.0036
R = 0.9998
DL = 4.378 ppb
BEC = 51.73 ppb

Weight: <None>
Min Conc: <None>

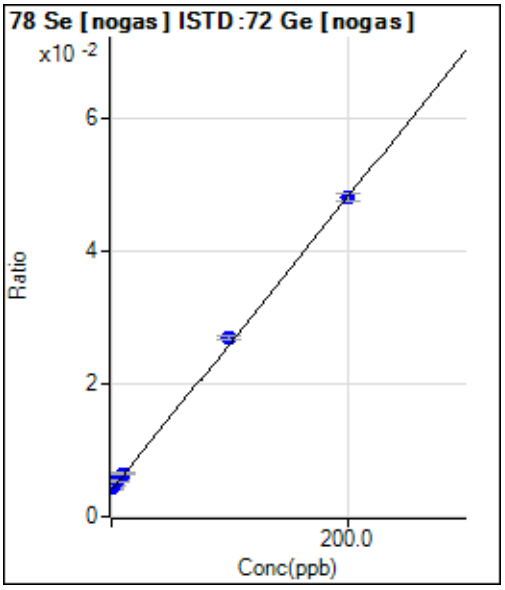
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0001	P	23.1	
2	☐	2.000	3.673	193.34	0.0003	P	11.8	83.7
3	☐	5.000	3.070	176.67	0.0003	P	32.0	-38.6
4	☐	10.000	13.202	463.35	0.0007	P	4.9	32.0
5	☐	100.000	101.040	2997.03	0.0046	P	4.3	1.0
6	☐	200.000	199.351	5731.20	0.0089	P	4.5	-0.3
7	☐	1.000						

y = 4.3865E-005 * x + 1.3214E-004
R = 0.9998
DL = 2.084 ppb
BEC = 3.012 ppb

Weight: <None>
Min Conc: <None>

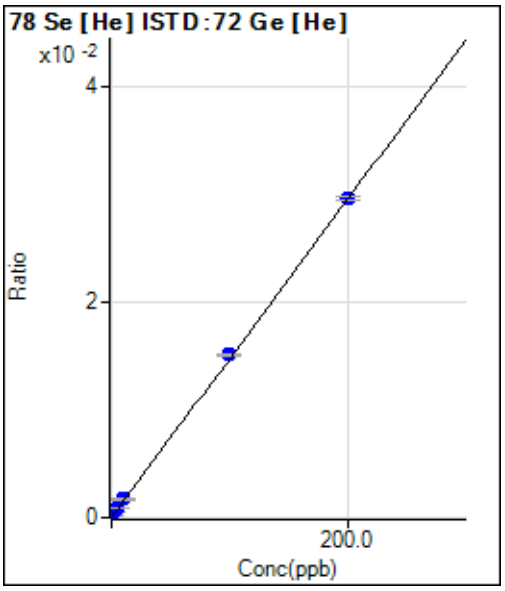


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9843.41	0.0043	P	3.6	
2	☐	2.000	1.878	10980.88	0.0047	P	3.6	-6.1
3	☐	5.000	5.244	12739.03	0.0054	P	1.8	4.9
4	☐	10.000	10.260	15334.82	0.0065	P	3.7	2.6
5	☐	100.000	102.728	62970.19	0.0270	P	1.9	2.7
6	☐	200.000	198.618	111436.32	0.0481	P	2.9	-0.7
7	☐	1.000						

y = 2.2095E-004 * x + 0.0043
R = 0.9999
DL = 2.089 ppb
BEC = 19.25 ppb

Weight: <None>
Min Conc: <None>

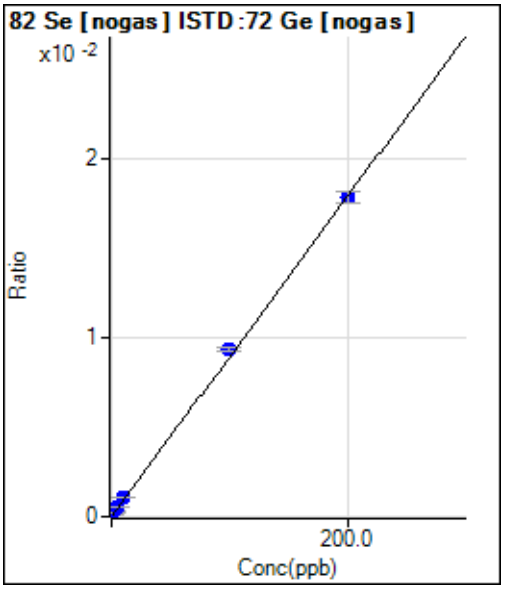
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.33	0.0002	P	14.5	
2	☐	2.000	2.058	314.67	0.0005	P	4.7	2.9
3	☐	5.000	5.230	628.02	0.0009	P	4.8	4.6
4	☐	10.000	10.349	1110.04	0.0017	P	4.5	3.5
5	☐	100.000	101.032	9926.00	0.0151	P	1.9	1.0
6	☐	200.000	199.460	19159.69	0.0297	P	1.1	-0.3
7	☐	1.000						

y = 1.4790E-004 * x + 1.7306E-004
R = 1.0000
DL = 0.5076 ppb
BEC = 1.17 ppb

Weight: <None>
Min Conc: <None>

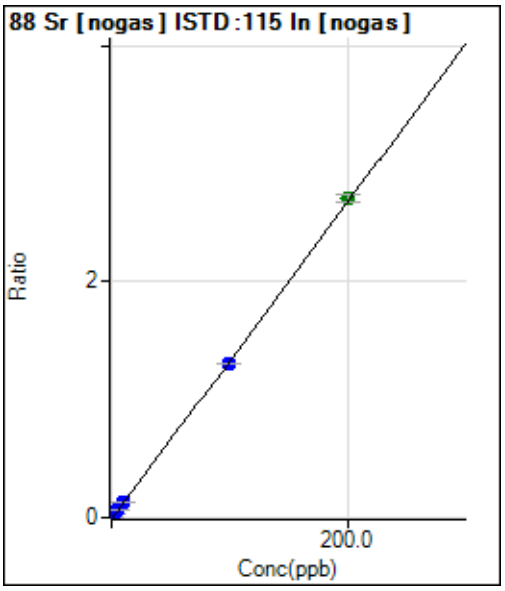


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	223.34	0.0001	P	9.5	
2	☐	2.000	2.037	656.69	0.0003	P	14.5	1.9
3	☐	5.000	5.254	1333.42	0.0006	P	6.4	5.1
4	☐	10.000	10.980	2536.93	0.0011	P	8.3	9.8
5	☐	100.000	103.457	21839.77	0.0093	P	2.2	3.5
6	☐	200.000	198.216	41264.61	0.0178	P	3.6	-0.9
7	☐	1.000						

y = 8.9438E-005 * x + 9.6438E-005
R = 0.9998
DL = 0.3077 ppb
BEC = 1.078 ppb

Weight: <None>
Min Conc: <None>

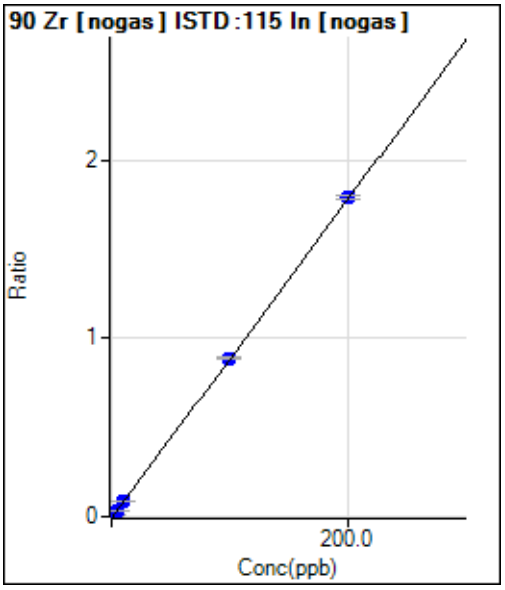
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	806.71	0.0003	P	22.2	
2	☐	2.000	1.861	60447.54	0.0254	P	0.8	-6.9
3	☐	5.000	4.633	149620.01	0.0627	P	1.1	-7.3
4	☐	10.000	9.541	303050.26	0.1287	P	0.7	-4.6
5	☐	100.000	97.428	3042370.99	1.3108	P	0.2	-2.6
6	☐	200.000	201.319	6141581.57	2.7082	A	2.2	0.7
7	☐	1.000						

y = 0.0135 * x + 3.4113E-004
R = 0.9999
DL = 0.01693 ppb
BEC = 0.02536 ppb

Weight: <None>
Min Conc: <None>

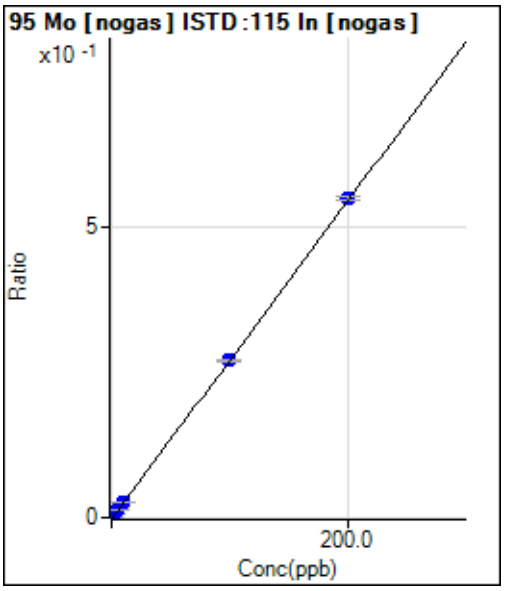


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1633.45	0.0007	P	12.6	
2	☐	2.000	1.447	32436.04	0.0136	P	1.5	-27.7
3	☐	5.000	4.098	89092.45	0.0373	P	1.2	-18.0
4	☐	10.000	9.190	195121.58	0.0828	P	1.7	-8.1
5	☐	100.000	99.425	2064131.48	0.8893	P	0.6	-0.6
6	☐	200.000	200.356	4063258.69	1.7914	P	0.9	0.2
7	☐	1.000						

y = 0.0089 * x + 6.9074E-004
R = 1.0000
DL = 0.02924 ppb
BEC = 0.07729 ppb

Weight: <None>
Min Conc: <None>

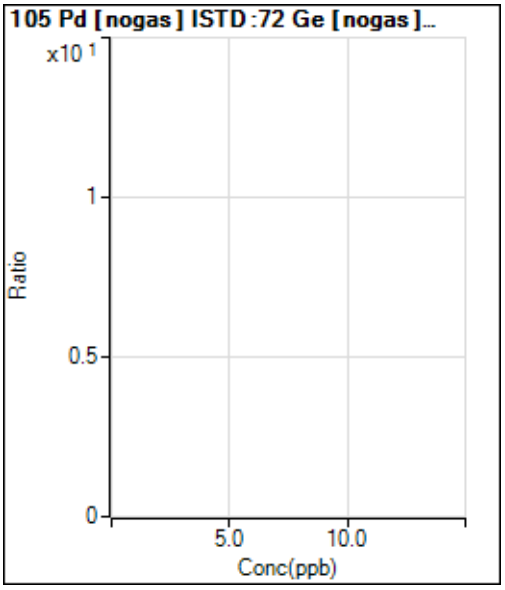
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	253.34	0.0001	P	4.6	
2	☐	2.000	1.882	12505.49	0.0052	P	2.7	-5.9
3	☐	5.000	4.637	30495.45	0.0128	P	1.6	-7.3
4	☐	10.000	9.533	61589.35	0.0261	P	2.8	-4.7
5	☐	100.000	98.770	626423.52	0.2699	P	1.5	-1.2
6	☐	200.000	200.649	1243320.58	0.5481	P	1.6	0.3
7	☐	1.000						

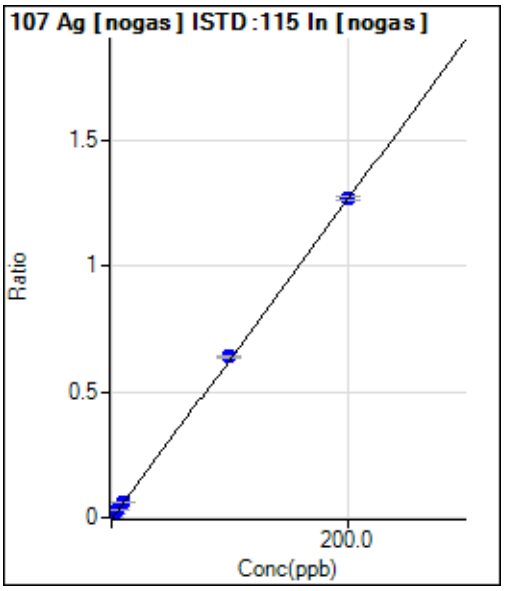
y = 0.0027 * x + 1.0713E-004
R = 1.0000
DL = 0.0054 ppb
BEC = 0.03922 ppb

Weight: <None>
Min Conc: <None>



	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						

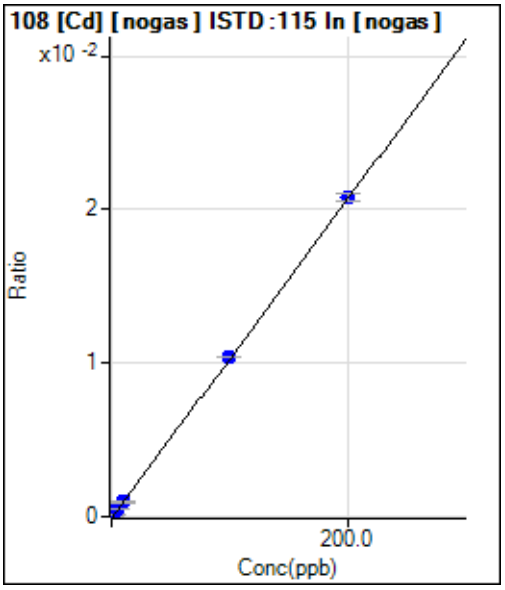
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	35.7	
2	☐	2.000	1.942	29603.63	0.0124	P	1.7	-2.9
3	☐	5.000	4.855	73957.85	0.0310	P	0.7	-2.9
4	☐	10.000	9.991	149993.36	0.0637	P	1.1	-0.1
5	☐	100.000	100.722	1489013.26	0.6415	P	0.9	0.7
6	☐	200.000	199.644	2883711.94	1.2715	P	1.7	-0.2
7	☐	1.000						

y = 0.0064 * x + 5.9199E-005
R = 1.0000
DL = 0.009956 ppb
BEC = 0.009296 ppb

Weight: <None>
Min Conc: <None>

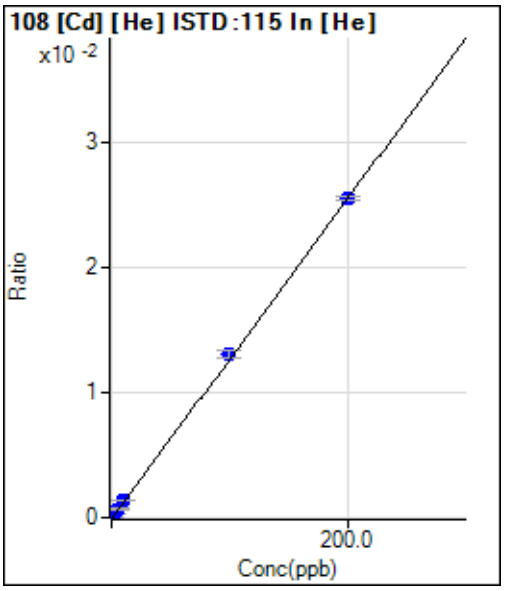


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.642	413.35	0.0002	P	2.4	-17.9
3	☐	5.000	4.577	1143.40	0.0005	P	3.5	-8.5
4	☐	10.000	9.054	2223.55	0.0009	P	5.6	-9.5
5	☐	100.000	100.032	24147.00	0.0104	P	0.9	0.0
6	☐	200.000	200.046	47177.01	0.0208	P	2.0	0.0
7	☐	1.000						

y = 1.0398E-004 * x + 2.8180E-006
R = 1.0000
DL = 0.07041 ppb
BEC = 0.0271 ppb

Weight: <None>
Min Conc: <None>

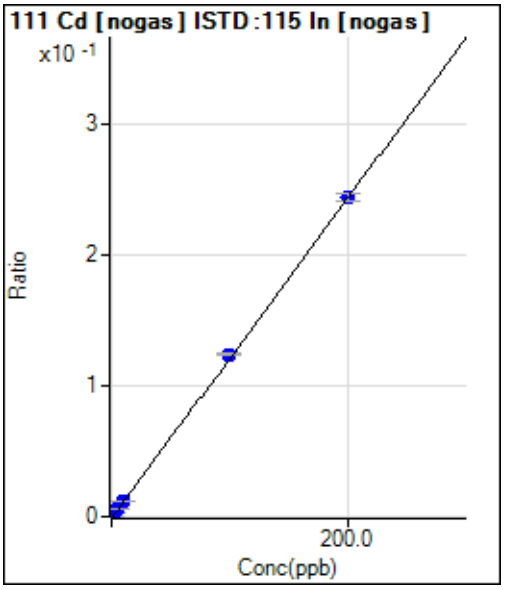
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	2.039	233.34	0.0003	P	10.5	2.0
3	☐	5.000	5.068	570.02	0.0007	P	14.1	1.4
4	☐	10.000	10.726	1176.74	0.0014	P	10.5	7.3
5	☐	100.000	101.861	10944.31	0.0131	P	4.8	1.9
6	☐	200.000	199.031	20858.60	0.0256	P	0.8	-0.5
7	☐	1.000						

y = 1.2853E-004 * x + 7.7915E-006
R = 0.9999
DL = 0.315 ppb
BEC = 0.06062 ppb

Weight: <None>
Min Conc: <None>

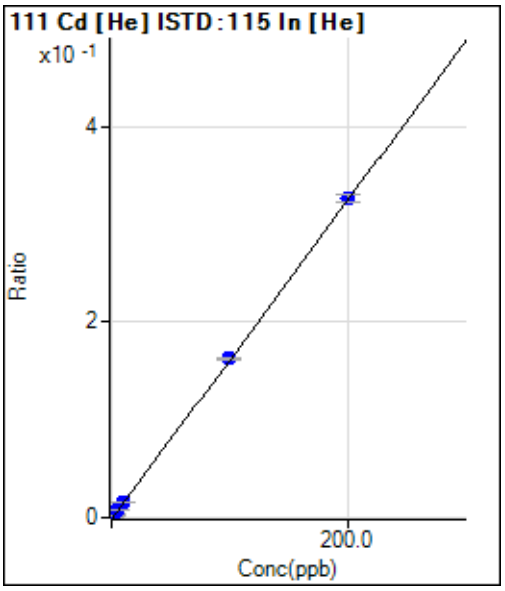


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-7.15	0.0000	P	-86.6	
2	☐	2.000	2.022	5891.31	0.0025	P	3.6	1.1
3	☐	5.000	4.855	14191.57	0.0059	P	0.2	-2.9
4	☐	10.000	9.582	27632.10	0.0117	P	2.0	-4.2
5	☐	100.000	101.107	287470.67	0.1238	P	1.0	1.1
6	☐	200.000	199.471	554300.77	0.2443	P	2.2	-0.3
7	☐	1.000						

y = 0.0012 * x - 3.0237E-006
R = 1.0000
DL = 0.006413 ppb
BEC = -0.002468 ppb

Weight: <None>
Min Conc: <None>

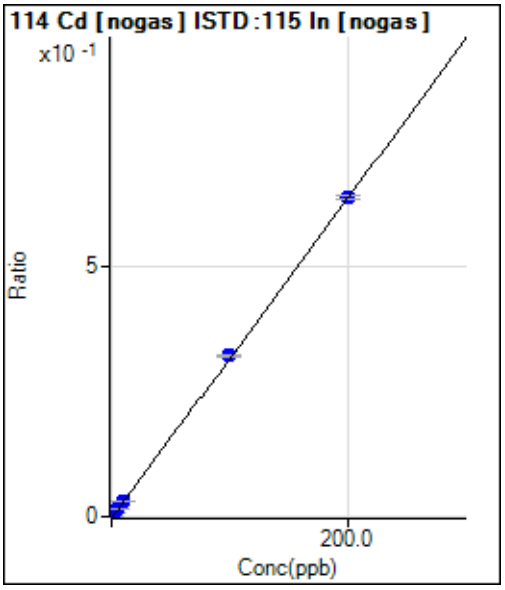
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-3.82	0.0000	P	-415.	
2	☐	2.000	1.877	2649.98	0.0031	P	11.8	-6.2
3	☐	5.000	4.790	6757.04	0.0078	P	1.6	-4.2
4	☐	10.000	9.579	13261.48	0.0156	P	4.7	-4.2
5	☐	100.000	99.608	135824.40	0.1625	P	1.1	-0.4
6	☐	200.000	200.223	266266.53	0.3267	P	2.1	0.1
7	☐	1.000						

y = 0.0016 * x - 4.5081E-006
R = 1.0000
DL = 0.03444 ppb
BEC = -0.002763 ppb

Weight: <None>
Min Conc: <None>

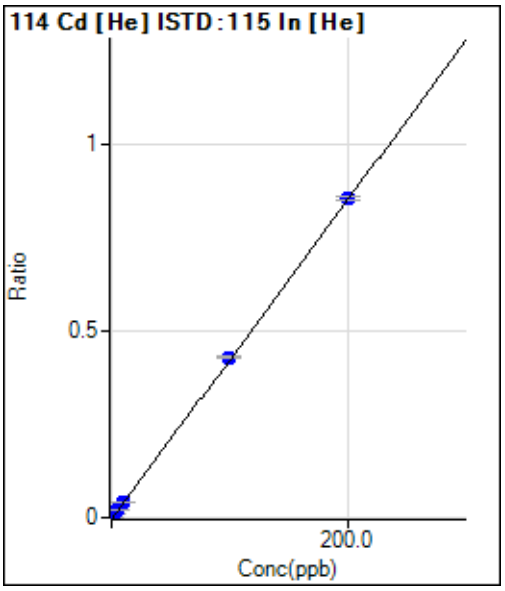


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	50.9	
2	☐	2.000	1.955	14901.27	0.0063	P	4.8	-2.3
3	☐	5.000	4.923	37518.93	0.0157	P	0.6	-1.5
4	☐	10.000	9.918	74507.78	0.0316	P	1.7	-0.8
5	☐	100.000	100.877	746369.49	0.3216	P	1.0	0.9
6	☐	200.000	199.568	1443027.32	0.6361	P	1.2	-0.2
7	☐	1.000						

y = 0.0032 * x + 2.3959E-005
R = 1.0000
DL = 0.01148 ppb
BEC = 0.007517 ppb

Weight: <None>
Min Conc: <None>

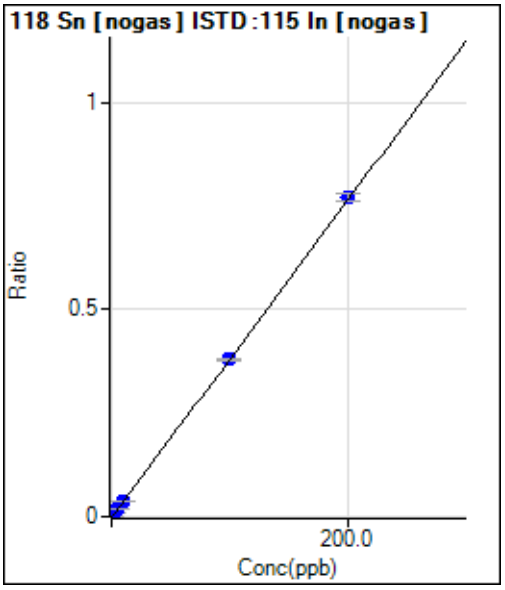
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	24.0	
2	☐	2.000	1.900	7055.19	0.0082	P	5.3	-5.0
3	☐	5.000	4.760	17627.74	0.0204	P	2.9	-4.8
4	☐	10.000	9.612	34905.74	0.0411	P	1.2	-3.9
5	☐	100.000	100.116	357766.67	0.4281	P	1.0	0.1
6	☐	200.000	199.969	696928.45	0.8550	P	1.1	0.0
7	☐	1.000						

y = 0.0043 * x + 2.6976E-005
R = 1.0000
DL = 0.004536 ppb
BEC = 0.006309 ppb

Weight: <None>
Min Conc: <None>

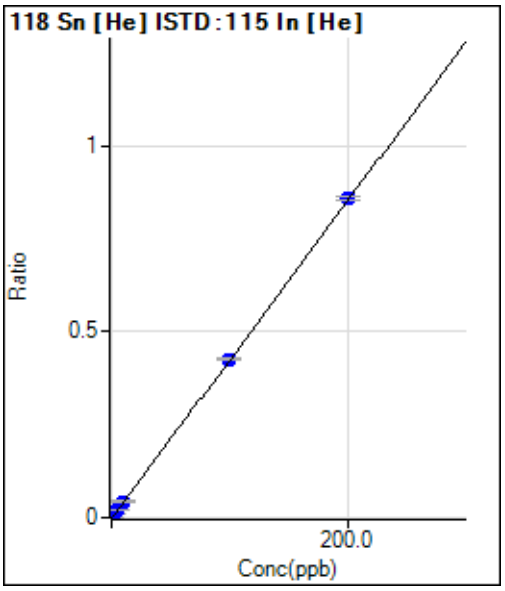


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2850.32	0.0012	P	2.2	
2	☐	2.000	1.786	19203.03	0.0081	P	3.3	-10.7
3	☐	5.000	4.575	44816.53	0.0188	P	1.2	-8.5
4	☐	10.000	9.591	89574.32	0.0380	P	1.3	-4.1
5	☐	100.000	98.540	880889.62	0.3795	P	0.8	-1.5
6	☐	200.000	200.763	1751024.30	0.7719	P	1.9	0.4
7	☐	1.000						

y = 0.0038 * x + 0.0012
R = 1.0000
DL = 0.02034 ppb
BEC = 0.3139 ppb

Weight: <None>
Min Conc: <None>

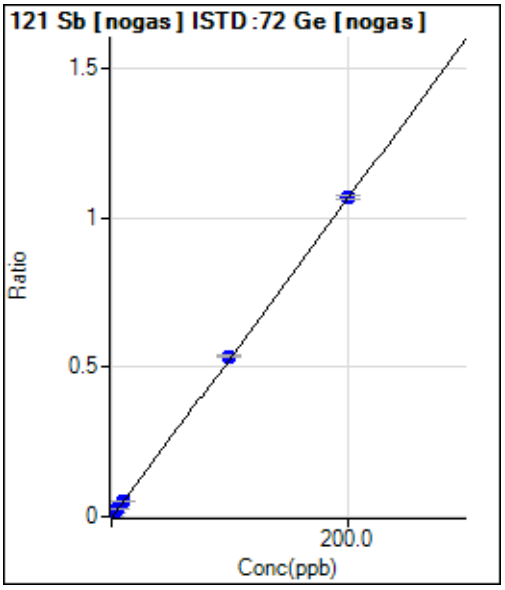
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1276.75	0.0015	P	14.8	
2	☐	2.000	1.799	7938.98	0.0092	P	4.5	-10.0
3	☐	5.000	4.629	18391.96	0.0213	P	2.8	-7.4
4	☐	10.000	9.783	36750.46	0.0433	P	3.3	-2.2
5	☐	100.000	99.059	355107.51	0.4249	P	1.1	-0.9
6	☐	200.000	200.493	699740.30	0.8585	P	1.5	0.2
7	☐	1.000						

y = 0.0043 * x + 0.0015
R = 1.0000
DL = 0.1534 ppb
BEC = 0.3459 ppb

Weight: <None>
Min Conc: <None>

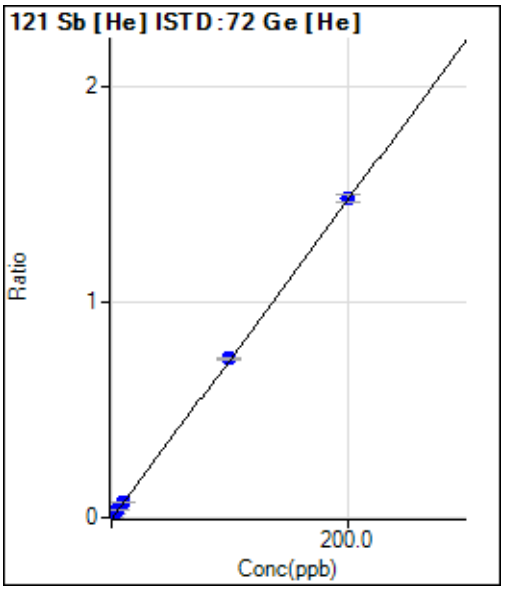


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0006	P	10.3	
2	☐	2.000	1.896	25222.38	0.0107	P	1.0	-5.2
3	☐	5.000	4.786	61581.22	0.0262	P	1.5	-4.3
4	☐	10.000	9.706	123364.78	0.0524	P	0.4	-2.9
5	☐	100.000	100.385	1254319.31	0.5369	P	1.5	0.4
6	☐	200.000	199.829	2472995.33	1.0682	P	1.5	-0.1
7	☐	1.000						

y = 0.0053 * x + 5.9244E-004
R = 1.0000
DL = 0.03425 ppb
BEC = 0.1109 ppb

Weight: <None>
Min Conc: <None>

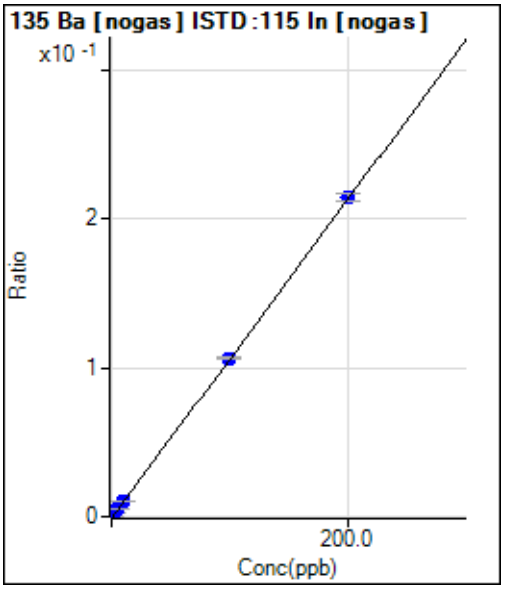
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	573.36	0.0009	P	13.9	
2	☐	2.000	1.919	9943.64	0.0151	P	0.7	-4.1
3	☐	5.000	4.858	24447.73	0.0369	P	2.5	-2.8
4	☐	10.000	9.861	48154.08	0.0739	P	1.1	-1.4
5	☐	100.000	99.699	485493.56	0.7393	P	1.2	-0.3
6	☐	200.000	200.162	957711.50	1.4833	P	1.8	0.1
7	☐	1.000						

y = 0.0074 * x + 8.7601E-004
R = 1.0000
DL = 0.04917 ppb
BEC = 0.1183 ppb

Weight: <None>
Min Conc: <None>

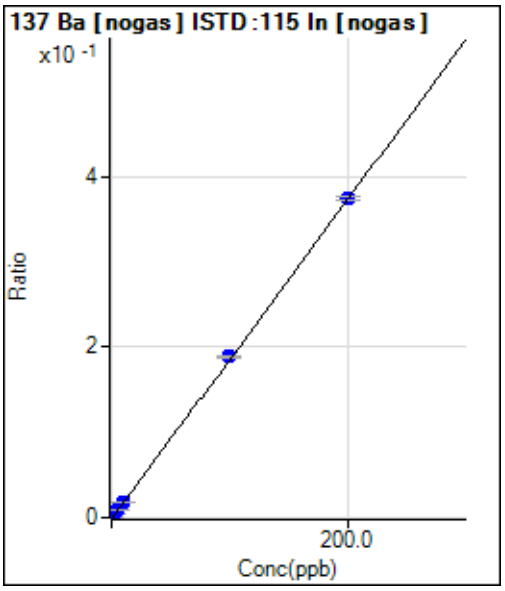


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0000	P	20.1	
2	☐	2.000	1.866	4864.26	0.0020	P	8.6	-6.7
3	☐	5.000	4.729	12205.43	0.0051	P	1.8	-5.4
4	☐	10.000	9.699	24594.92	0.0104	P	1.3	-3.0
5	☐	100.000	99.428	247541.87	0.1066	P	1.2	-0.6
6	☐	200.000	200.309	487123.72	0.2148	P	2.6	0.2
7	☐	1.000						

y = 0.0011 * x + 4.2288E-005
R = 1.0000
DL = 0.02373 ppb
BEC = 0.03944 ppb

Weight: <None>
Min Conc: <None>

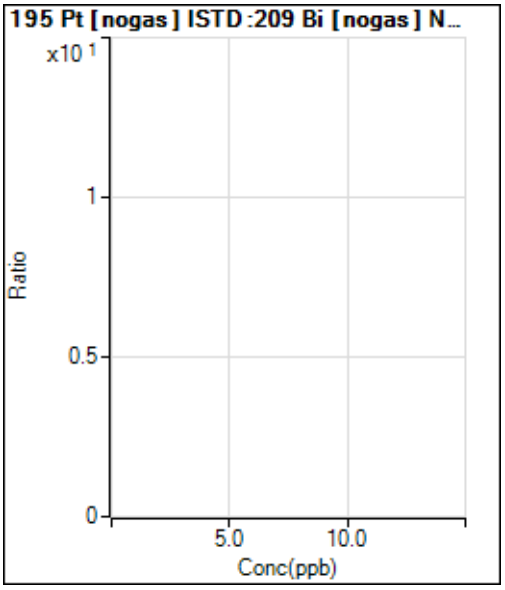
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0000	P	26.5	
2	☐	2.000	1.986	8986.35	0.0038	P	3.3	-0.7
3	☐	5.000	4.679	21085.80	0.0088	P	1.9	-6.4
4	☐	10.000	9.598	42570.49	0.0181	P	2.5	-4.0
5	☐	100.000	100.838	439697.99	0.1895	P	1.0	0.8
6	☐	200.000	199.609	850536.76	0.3750	P	1.8	-0.2
7	☐	1.000						

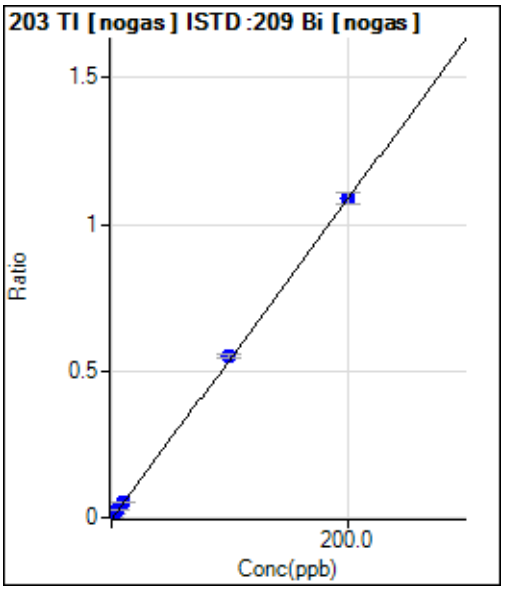
y = 0.0019 * x + 4.2288E-005
R = 1.0000
DL = 0.01789 ppb
BEC = 0.02251 ppb

Weight: <None>
Min Conc: <None>



	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						

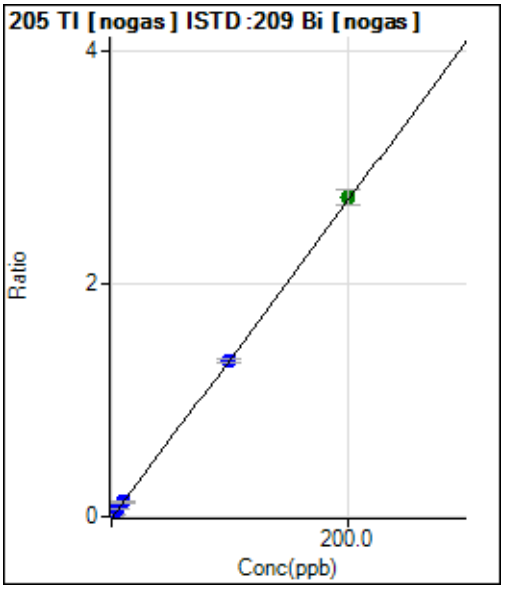
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	34.1	
2	☐	2.000	1.856	18976.83	0.0101	P	4.5	-7.2
3	☐	5.000	4.791	48392.64	0.0262	P	2.1	-4.2
4	☐	10.000	9.582	96546.72	0.0523	P	2.8	-4.2
5	☐	100.000	101.090	998933.97	0.5519	P	3.1	1.1
6	☐	200.000	199.482	1916018.88	1.0891	P	3.3	-0.3
7	☐	1.000						

y = 0.0055 * x + 1.6261E-005
R = 1.0000
DL = 0.003043 ppb
BEC = 0.002979 ppb

Weight: <None>
Min Conc: <None>

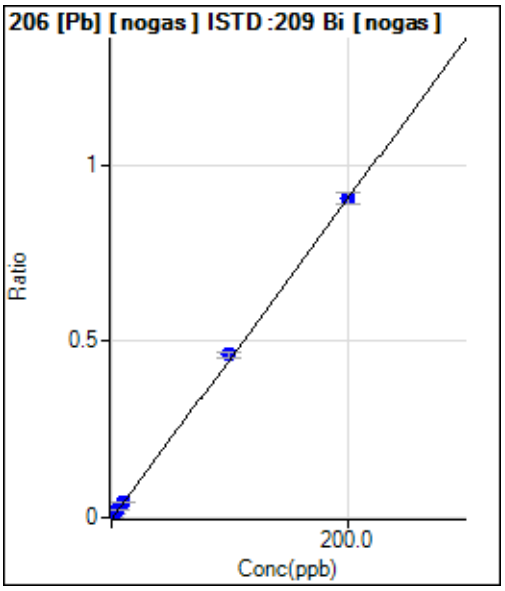


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0000	P	47.6	
2	☐	2.000	1.778	45489.26	0.0243	P	4.0	-11.1
3	☐	5.000	4.625	116871.34	0.0632	P	2.0	-7.5
4	☐	10.000	9.192	231716.40	0.1256	P	2.4	-8.1
5	☐	100.000	97.711	2415622.98	1.3345	P	2.7	-2.3
6	☐	200.000	201.196	4833782.85	2.7477	A	4.4	0.6
7	☐	1.000						

y = 0.0137 * x + 4.7175E-005
R = 0.9999
DL = 0.004932 ppb
BEC = 0.003454 ppb

Weight: <None>
Min Conc: <None>

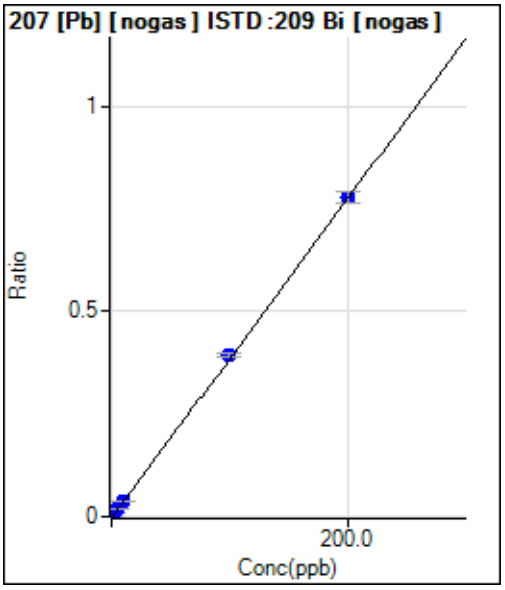
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	256.67	0.0001	P	29.4	
2	☐	2.000	1.968	16987.49	0.0091	P	3.6	-1.6
3	☐	5.000	4.731	40015.74	0.0216	P	2.2	-5.4
4	☐	10.000	9.680	81443.16	0.0441	P	2.1	-3.2
5	☐	100.000	101.458	835041.08	0.4613	P	2.6	1.5
6	☐	200.000	199.294	1593915.44	0.9060	P	3.5	-0.4
7	☐	1.000						

y = 0.0045 * x + 1.3876E-004
R = 1.0000
DL = 0.02695 ppb
BEC = 0.03053 ppb

Weight: <None>
Min Conc: <None>

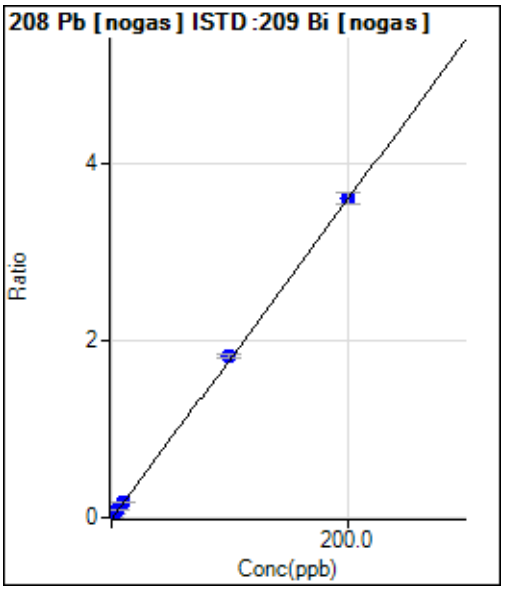


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210.01	0.0001	P	18.9	
2	☐	2.000	1.936	14324.40	0.0077	P	4.7	-3.2
3	☐	5.000	4.786	34691.27	0.0188	P	3.8	-4.3
4	☐	10.000	9.761	70402.18	0.0382	P	3.5	-2.4
5	☐	100.000	100.671	710484.75	0.3925	P	2.7	0.7
6	☐	200.000	199.682	1369525.50	0.7784	P	3.2	-0.2
7	☐	1.000						

y = 0.0039 * x + 1.1368E-004
R = 1.0000
DL = 0.01654 ppb
BEC = 0.02916 ppb

Weight: <None>
Min Conc: <None>

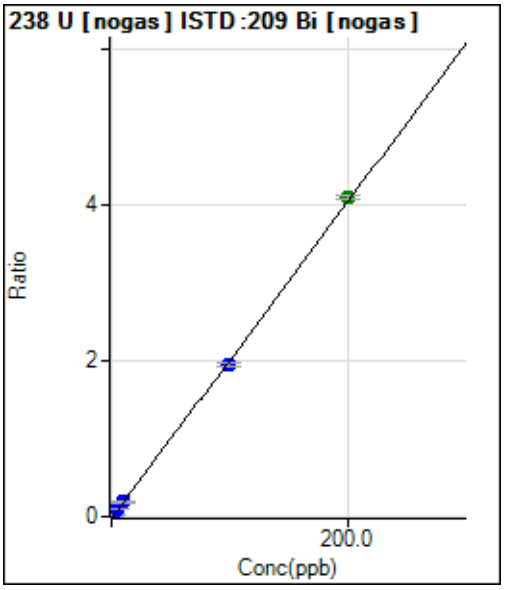
Calibration for 163_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1020.04	0.0006	P	5.1	
2	☐	2.000	1.909	65521.92	0.0350	P	2.8	-4.6
3	☐	5.000	4.786	160878.50	0.0870	P	2.4	-4.3
4	☐	10.000	9.690	323997.06	0.1756	P	3.4	-3.1
5	☐	100.000	100.762	3296220.49	1.8209	P	2.7	0.8
6	☐	200.000	199.641	6346470.37	3.6073	P	3.2	-0.2
7	☐	1.000						

y = 0.0181 * x + 5.5219E-004
R = 1.0000
DL = 0.004707 ppb
BEC = 0.03056 ppb

Weight: <None>
Min Conc: <None>

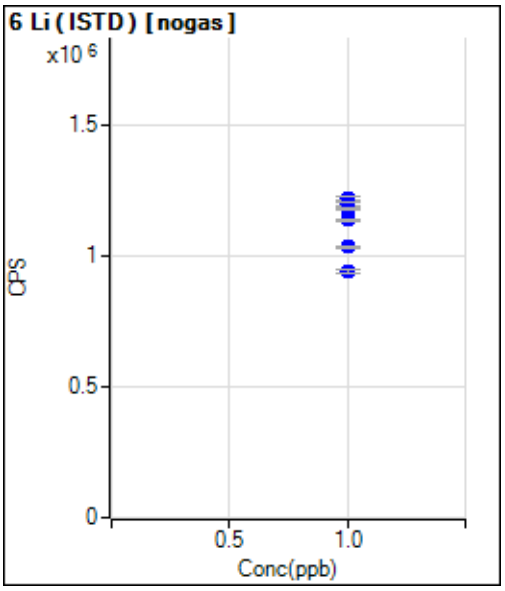


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0001	P	23.3	
2	☐	2.000	1.781	67822.15	0.0363	P	3.5	-11.0
3	☐	5.000	4.524	169919.66	0.0919	P	3.8	-9.5
4	☐	10.000	9.140	342372.89	0.1856	P	3.0	-8.6
5	☐	100.000	96.496	3543972.24	1.9578	P	2.6	-3.5
6	☐	200.000	201.809	7204271.56	4.0942	A	1.5	0.9
7	☐	1.000						

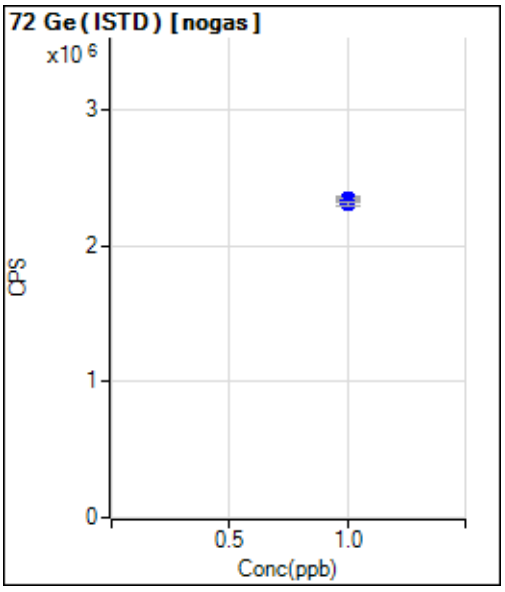
y = 0.0203 * x + 1.4973E-004
R = 0.9998
DL = 0.005169 ppb
BEC = 0.007381 ppb

Weight: <None>
Min Conc: <None>

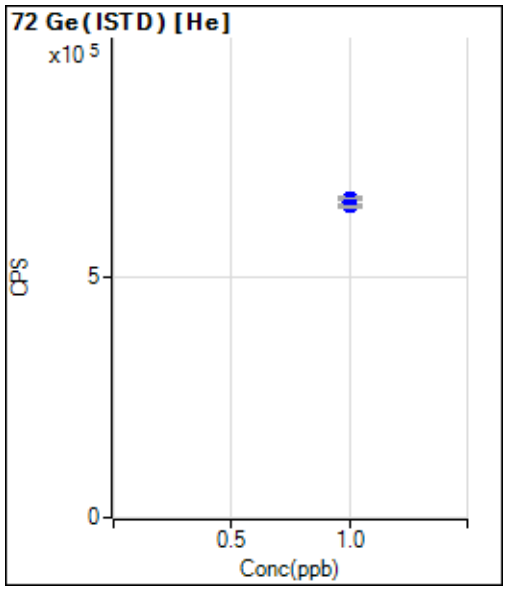
Calibration for 163_ICV.d



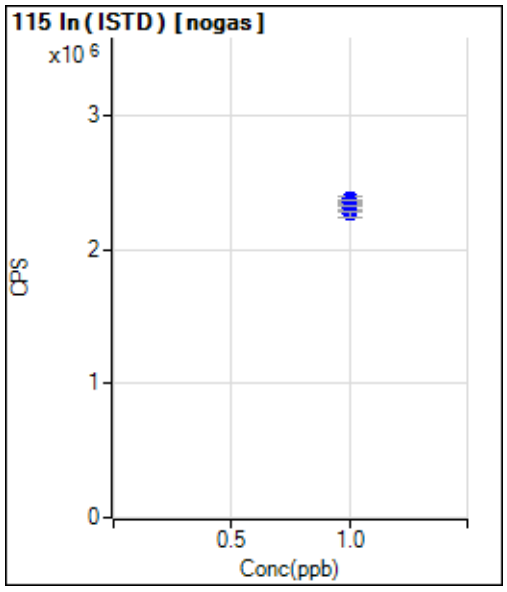
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1222655.60		P	0.6	
2	☐	1.000		1198022.12		P	1.2	
3	☐	1.000		1181694.56		P	0.8	
4	☐	1.000		1140923.92		P	0.8	
5	☐	1.000		1037009.49		P	0.4	
6	☐	1.000		940710.47		P	1.8	
7	☐	1.000						



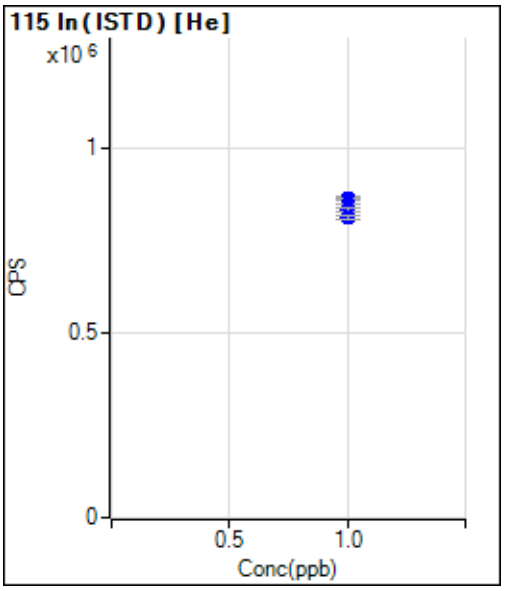
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2314946.68		P	1.7	
2	☐	1.000		2352838.04		P	1.7	
3	☐	1.000		2353536.68		P	0.9	
4	☐	1.000		2352096.37		P	1.6	
5	☐	1.000		2336154.65		P	0.9	
6	☐	1.000		2314998.09		P	1.4	
7	☐	1.000						



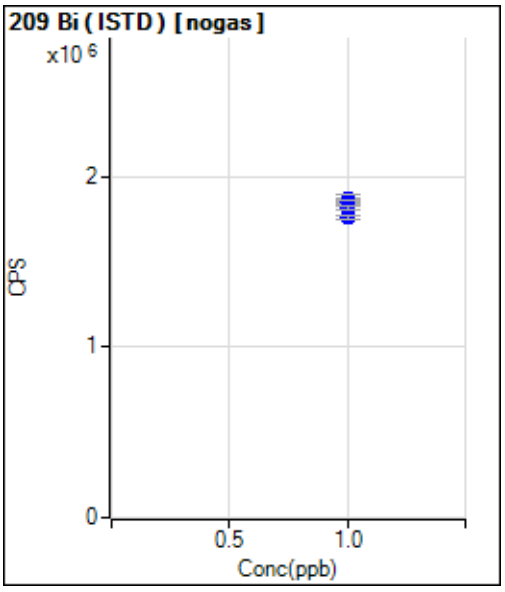
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		654948.25		P	0.9	
2	☐	1.000		659183.90		P	0.1	
3	☐	1.000		663327.23		P	0.9	
4	☐	1.000		651546.84		P	0.5	
5	☐	1.000		656809.83		P	1.6	
6	☐	1.000		645726.60		P	0.8	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2364887.25		P	0.1	
2	☐	1.000		2381928.88		P	1.7	
3	☐	1.000		2387493.89		P	1.4	
4	☐	1.000		2355297.69		P	1.4	
5	☐	1.000		2320976.47		P	1.2	
6	☐	1.000		2268431.31		P	2.2	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		864014.48		P	0.9	
2	☐	1.000		865658.24		P	1.7	
3	☐	1.000		864990.81		P	0.5	
4	☐	1.000		848739.07		P	0.2	
5	☐	1.000		835793.64		P	1.5	
6	☐	1.000		815164.41		P	1.3	
7	☐	1.000						



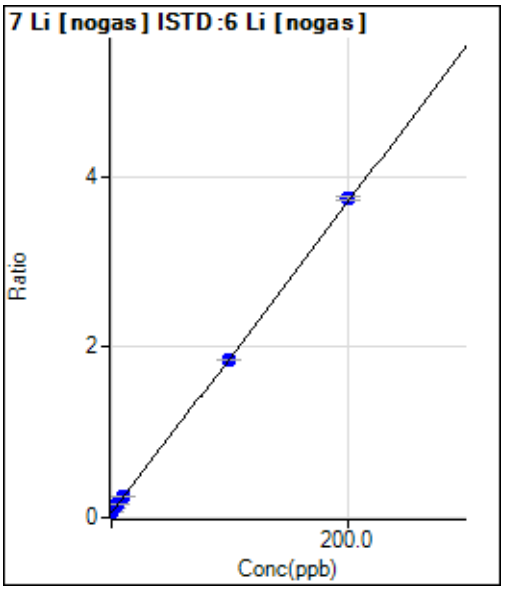
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1846837.74		P	1.7	
2	☐	1.000		1870629.30		P	1.9	
3	☐	1.000		1849341.95		P	1.8	
4	☐	1.000		1845653.72		P	1.8	
5	☐	1.000		1810431.54		P	1.2	
6	☐	1.000		1759831.90		P	1.3	
7	☐	1.000						

Calibration for 021_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070524A.b\
Analysis File: 070524A.batch.bin
DA Date-Time: 7/6/2024 10:31:27 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	011CALB.d	CAL BLK	7/5/2024 9:55:15 AM
2	012CALS.d	2/10/200	7/5/2024 9:57:22 AM
3	013CALS.d	5/25/500	7/5/2024 9:59:32 AM
4	014CALS.d	10/50/1000	7/5/2024 10:01:40 AM
5	015CALS.d	100/500/10K	7/5/2024 10:03:47 AM
6	016CALS.d	200/1000/20K	7/5/2024 10:05:52 AM
7			

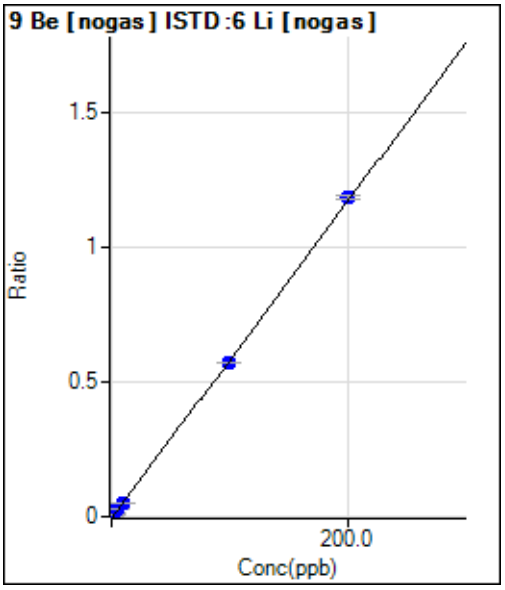
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70314.06	0.0727	P	0.5	
2	☐	2.000	1.876	103295.55	0.1069	P	0.4	-6.2
3	☐	5.000	4.588	149868.10	0.1564	P	0.8	-8.2
4	☐	10.000	9.179	231893.77	0.2401	P	0.1	-8.2
5	☐	100.000	97.013	1715509.30	1.8421	P	0.1	-3.0
6	☐	200.000	201.546	3273523.08	3.7487	P	0.6	0.8
7	☐	1.000						

y = 0.0182 * x + 0.0727
R = 0.9998
DL = 0.05967 ppb
BEC = 3.985 ppb

Weight: <None>
Min Conc: <None>

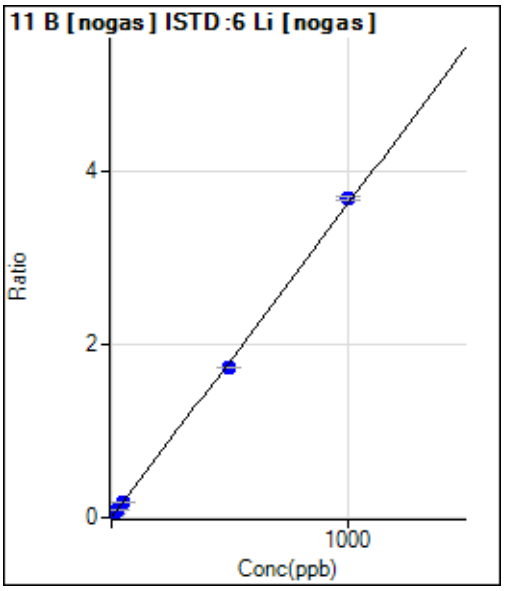


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	6.5	
2	☐	2.000	1.786	10230.13	0.0106	P	2.7	-10.7
3	☐	5.000	4.577	25849.84	0.0270	P	2.7	-8.5
4	☐	10.000	9.000	51133.57	0.0529	P	1.4	-10.0
5	☐	100.000	97.120	531175.09	0.5704	P	0.6	-2.9
6	☐	200.000	201.503	1033273.79	1.1833	P	0.7	0.8
7	☐	1.000						

y = 0.0059 * x + 9.9952E-005
R = 0.9999
DL = 0.003295 ppb
BEC = 0.01702 ppb

Weight: <None>
Min Conc: <None>

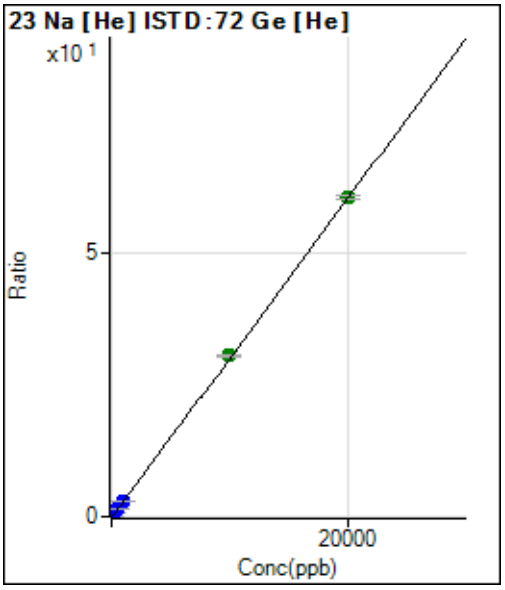
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18646.25	0.0193	P	1.1	
2	☐	10.000	8.171	47224.78	0.0489	P	2.1	-18.3
3	☐	25.000	21.334	92551.37	0.0966	P	1.1	-14.7
4	☐	50.000	43.666	171413.55	0.1775	P	1.5	-12.7
5	☐	500.000	473.414	1615318.41	1.7344	P	0.9	-5.3
6	☐	1000.000	1013.720	3223910.99	3.6920	P	1.7	1.4
7	☐	5.000						

y = 0.0036 * x + 0.0193
R = 0.9995
DL = 0.1706 ppb
BEC = 5.32 ppb

Weight: <None>
Min Conc: <None>

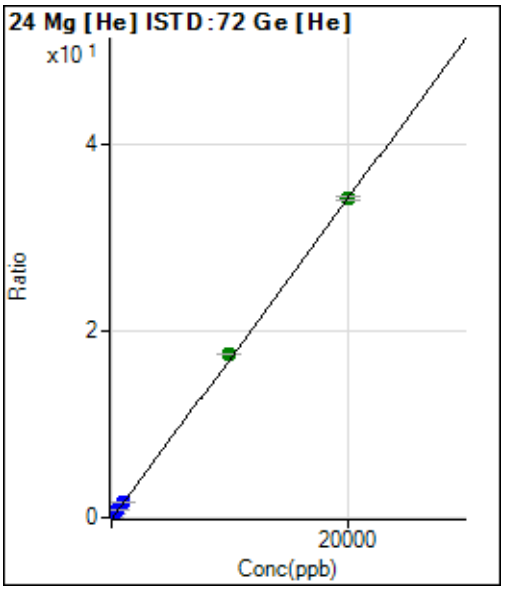


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33530.00	0.0720	P	2.5	
2	☐	200.000	194.953	312321.38	0.6638	P	0.2	-2.5
3	☐	500.000	476.644	728884.42	1.5190	P	0.4	-4.7
4	☐	1000.000	976.408	1454466.75	3.0363	P	1.3	-2.4
5	☐	10000.00	10073.15	14690716.45	30.6535	A	0.9	0.7
6	☐	20000.00	19965.23	28926821.24	60.6853	A	1.1	-0.2
7	☐	100.000						

y = 0.0030 * x + 0.0720
R = 1.0000
DL = 1.812 ppb
BEC = 23.71 ppb

Weight: <None>
Min Conc: <None>

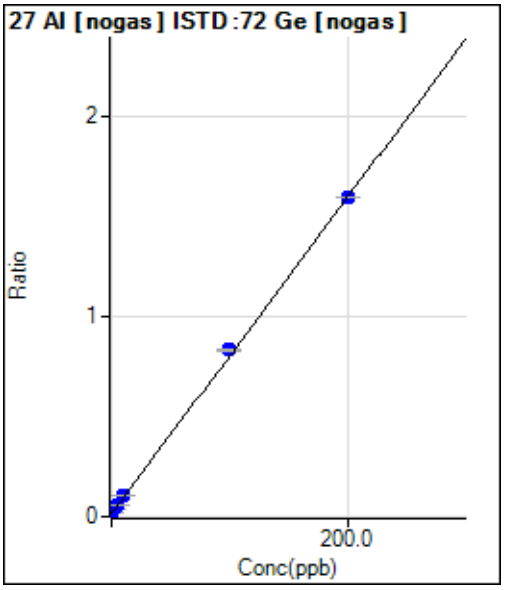
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0014	P	13.6	
2	☐	200.000	197.259	159854.54	0.3398	P	2.0	-1.4
3	☐	500.000	485.191	400062.05	0.8337	P	0.2	-3.0
4	☐	1000.000	993.120	816736.94	1.7051	P	1.6	-0.7
5	☐	10000.00	10159.62	8353225.29	17.4303	A	0.2	1.6
6	☐	20000.00	19920.93	16290939.76	34.1758	A	0.8	-0.4
7	☐	100.000						

y = 0.0017 * x + 0.0014
R = 1.0000
DL = 0.3321 ppb
BEC = 0.8127 ppb

Weight: <None>
Min Conc: <None>

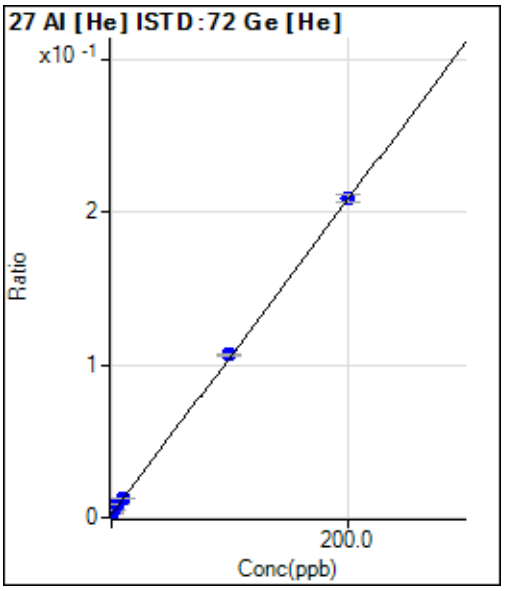


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36346.67	0.0225	P	2.7	
2	☐	2.000	1.759	59548.71	0.0364	P	1.2	-12.1
3	☐	5.000	4.962	100616.87	0.0618	P	0.8	-0.8
4	☐	10.000	10.164	169397.06	0.1030	P	1.6	1.6
5	☐	100.000	102.425	1395195.81	0.8339	P	0.9	2.4
6	☐	200.000	198.783	2699526.21	1.5973	P	0.5	-0.6
7	☐	1.000						

y = 0.0079 * x + 0.0225
R = 0.9999
DL = 0.2276 ppb
BEC = 2.835 ppb

Weight: <None>
Min Conc: <None>

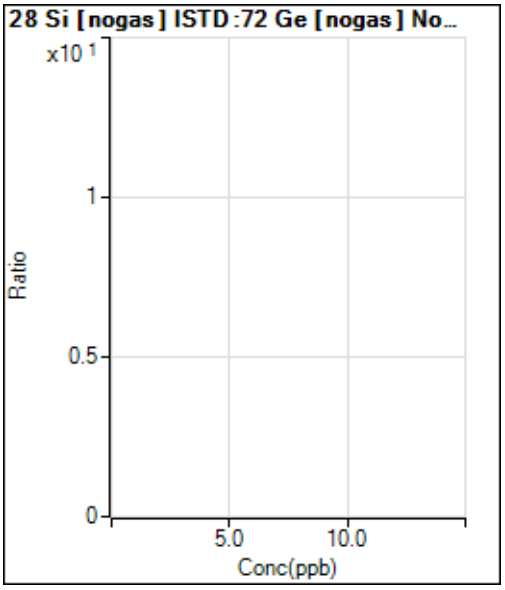
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1413.43	0.0030	P	8.6	
2	☐	2.000	1.714	2260.20	0.0048	P	7.6	-14.3
3	☐	5.000	5.654	4253.99	0.0089	P	8.8	13.1
4	☐	10.000	9.778	6288.07	0.0131	P	1.5	-2.2
5	☐	100.000	100.377	51101.65	0.1066	P	1.0	0.4
6	☐	200.000	199.809	99751.83	0.2093	P	1.9	-0.1
7	☐	1.000						

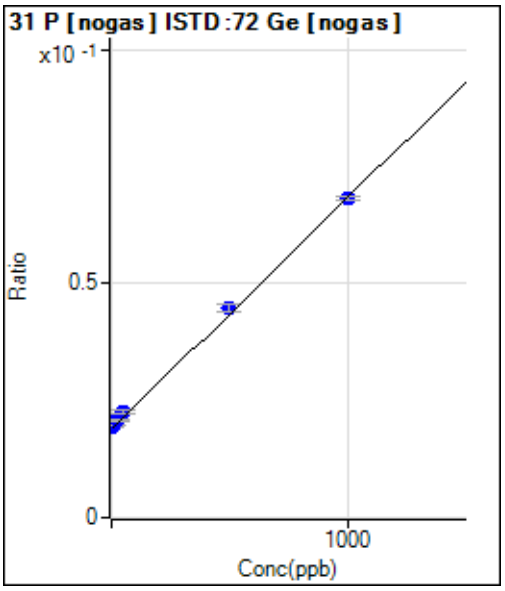
y = 0.0010 * x + 0.0030
R = 1.0000
DL = 0.76 ppb
BEC = 2.94 ppb

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						

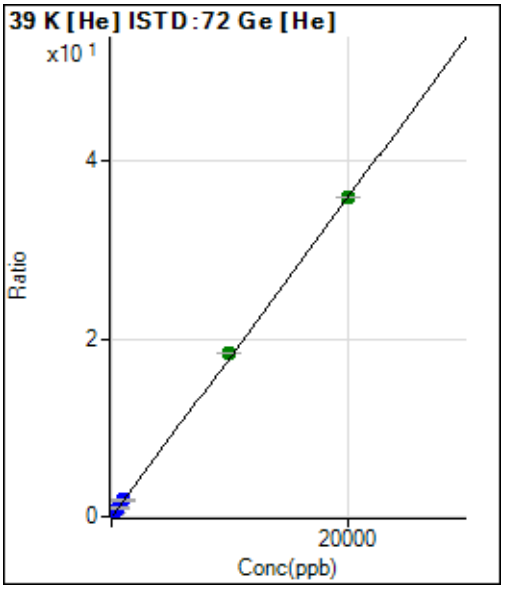
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	31215.34	0.0193	P	0.7	
2	☐	10.000	9.910	32357.79	0.0198	P	1.6	-0.9
3	☐	25.000	31.186	33927.92	0.0208	P	0.8	24.7
4	☐	50.000	65.491	37041.74	0.0225	P	4.4	31.0
5	☐	500.000	516.429	75000.16	0.0448	P	3.0	3.3
6	☐	1000.000	990.857	115407.95	0.0683	P	1.1	-0.9
7	☐	5.000						

y = 4.9456E-005 * x + 0.0193
R = 0.9997
DL = 8.487 ppb
BEC = 390 ppb

Weight: <None>
Min Conc: <None>

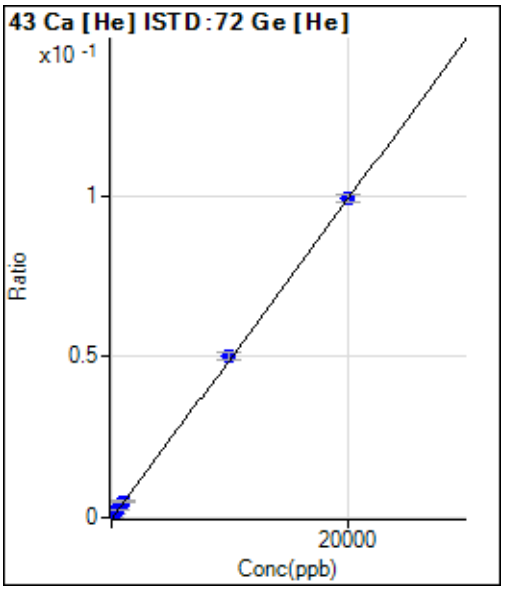


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63124.10	0.1355	P	1.3	
2	☐	200.000	188.386	223239.54	0.4745	P	0.7	-5.8
3	☐	500.000	465.099	466594.32	0.9724	P	0.6	-7.0
4	☐	1000.000	952.339	885693.45	1.8491	P	2.1	-4.8
5	☐	10000.00	10179.31	8842404.24	18.4516	A	0.6	1.8
6	☐	20000.00	19913.71	17146549.75	35.9672	A	0.6	-0.4
7	☐	100.000						

y = 0.0018 * x + 0.1355
R = 0.9999
DL = 2.862 ppb
BEC = 75.32 ppb

Weight: <None>
Min Conc: <None>

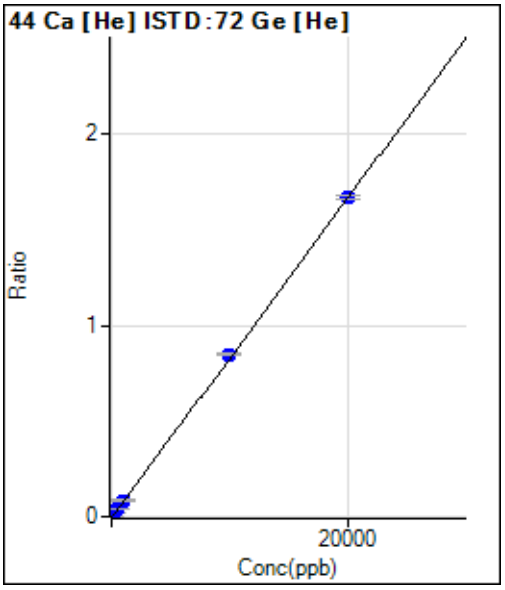
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	35.4	
2	☐	200.000	208.108	503.35	0.0011	P	3.4	4.1
3	☐	500.000	484.988	1173.40	0.0024	P	5.4	-3.0
4	☐	1000.000	959.297	2303.56	0.0048	P	12.4	-4.1
5	☐	10000.00	10093.36	24049.25	0.0502	P	3.8	0.9
6	☐	20000.00	19955.64	47280.55	0.0992	P	2.3	-0.2
7	☐	100.000						

y = 4.9691E-006 * x + 3.5872E-005
R = 1.0000
DL = 7.664 ppb
BEC = 7.219 ppb

Weight: <None>
Min Conc: <None>

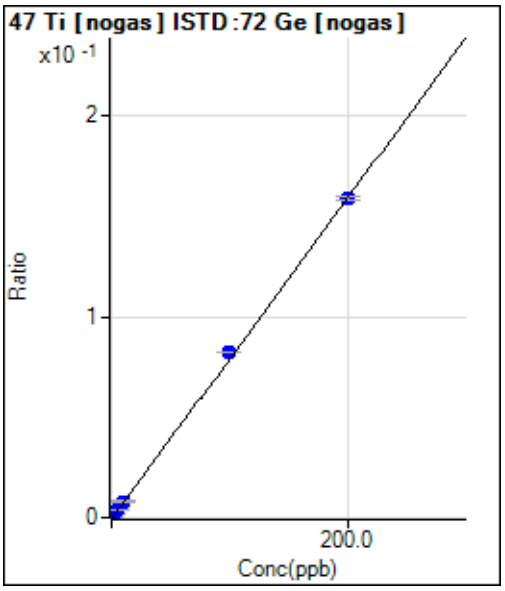


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.70	0.0015	P	13.8	
2	☐	200.000	197.958	8512.50	0.0181	P	2.2	-1.0
3	☐	500.000	494.504	20584.23	0.0429	P	0.7	-1.1
4	☐	1000.000	998.309	40731.56	0.0850	P	3.1	-0.2
5	☐	10000.00	10108.72	405940.46	0.8470	P	0.8	1.1
6	☐	20000.00	19945.88	795961.24	1.6698	P	1.3	-0.3
7	☐	100.000						

y = 8.3641E-005 * x + 0.0015
R = 1.0000
DL = 7.609 ppb
BEC = 18.38 ppb

Weight: <None>
Min Conc: <None>

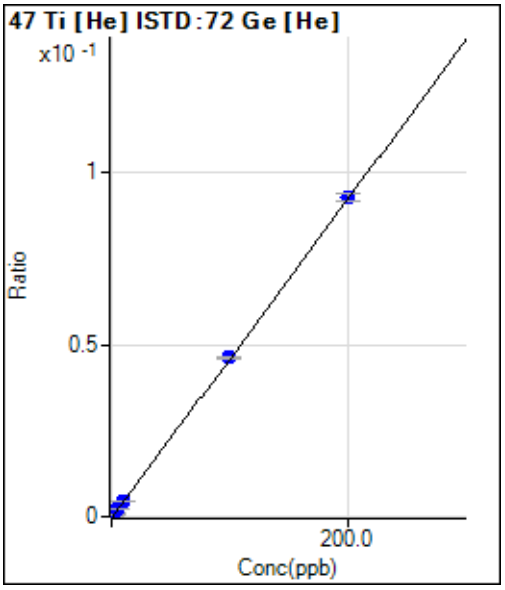
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0001	P	30.0	
2	☐	2.000	2.130	2917.00	0.0018	P	3.9	6.5
3	☐	5.000	4.918	6534.89	0.0040	P	6.7	-1.6
4	☐	10.000	9.928	13189.32	0.0080	P	3.4	-0.7
5	☐	100.000	102.570	137313.69	0.0821	P	0.4	2.6
6	☐	200.000	198.719	268595.35	0.1589	P	1.0	-0.6
7	☐	1.000						

y = 7.9937E-004 * x + 8.0231E-005
R = 0.9999
DL = 0.09019 ppb
BEC = 0.1004 ppb

Weight: <None>
Min Conc: <None>

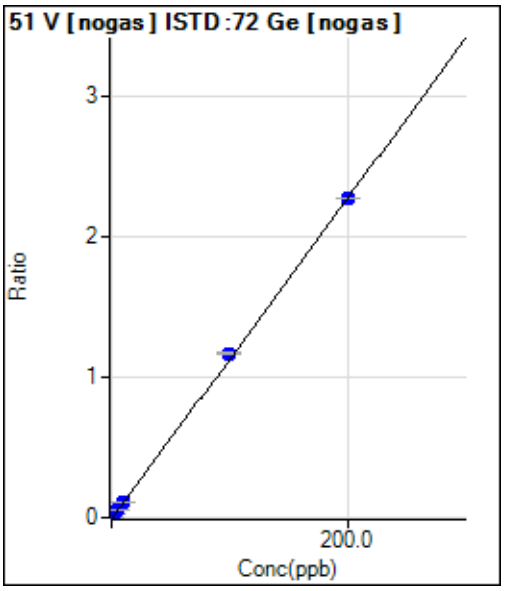


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	125.7	
2	☐	2.000	1.682	383.34	0.0008	P	6.9	-15.9
3	☐	5.000	4.868	1100.06	0.0023	P	10.5	-2.6
4	☐	10.000	9.956	2226.88	0.0046	P	4.0	-0.4
5	☐	100.000	99.582	22119.74	0.0462	P	1.3	-0.4
6	☐	200.000	200.218	44221.25	0.0928	P	1.8	0.1
7	☐	1.000						

y = 4.6317E-004 * x + 3.5987E-005
R = 1.0000
DL = 0.2929 ppb
BEC = 0.0777 ppb

Weight: <None>
Min Conc: <None>

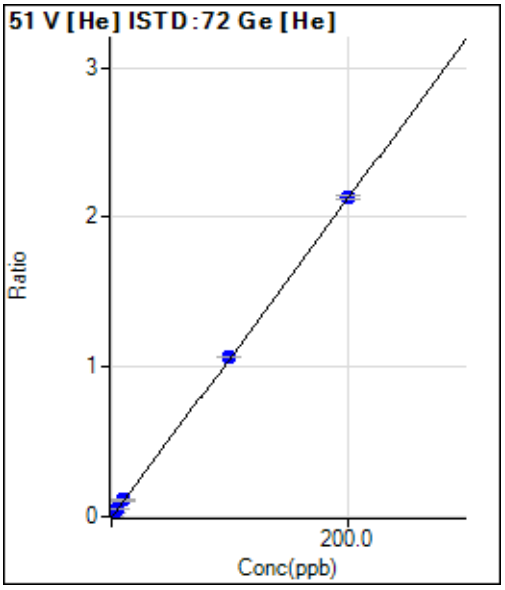
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	738.52	0.0004	P	363.7	
2	☐	2.000	1.890	36047.68	0.0220	P	7.3	-5.5
3	☐	5.000	5.070	95067.60	0.0584	P	3.8	1.4
4	☐	10.000	9.896	186705.59	0.1135	P	1.0	-1.0
5	☐	100.000	102.236	1954673.58	1.1684	P	1.5	2.2
6	☐	200.000	198.886	3840635.03	2.2725	P	0.6	-0.6
7	☐	1.000						

y = 0.0114 * x + 4.4018E-004
R = 0.9999
DL = 0.4204 ppb
BEC = 0.03853 ppb

Weight: <None>
Min Conc: <None>

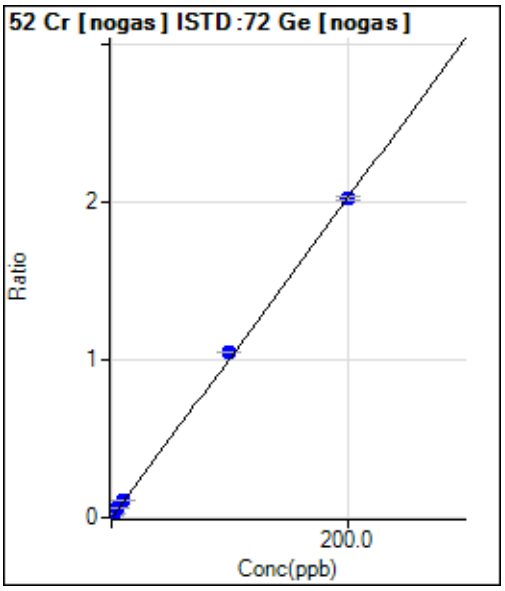


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2069.51	0.0044	P	12.1	
2	☐	2.000	2.092	12582.91	0.0267	P	2.8	4.6
3	☐	5.000	4.744	26393.80	0.0550	P	0.5	-5.1
4	☐	10.000	9.848	52407.60	0.1094	P	2.1	-1.5
5	☐	100.000	100.210	513895.41	1.0723	P	0.3	0.2
6	☐	200.000	199.908	1017625.98	2.1348	P	0.7	0.0
7	☐	1.000						

y = 0.0107 * x + 0.0044
R = 1.0000
DL = 0.1517 ppb
BEC = 0.4173 ppb

Weight: <None>
Min Conc: <None>

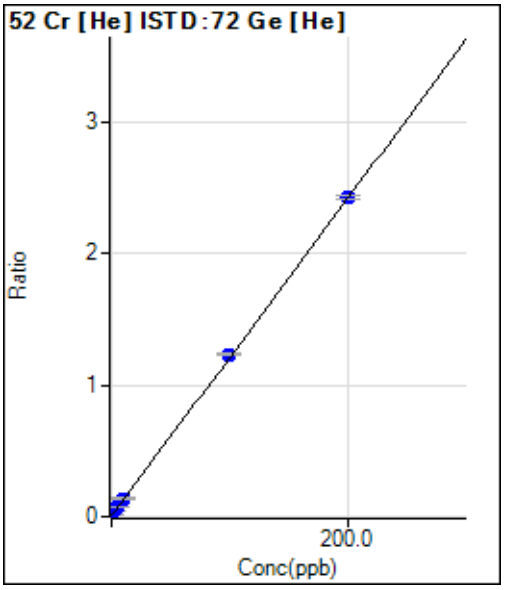
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11688.09	0.0072	P	1.1	
2	☐	2.000	1.977	44629.54	0.0273	P	0.3	-1.1
3	☐	5.000	4.959	93709.96	0.0575	P	1.1	-0.8
4	☐	10.000	10.113	180630.89	0.1098	P	1.7	1.1
5	☐	100.000	102.497	1751755.86	1.0471	P	0.8	2.5
6	☐	200.000	198.747	3419847.76	2.0235	P	1.1	-0.6
7	☐	1.000						

y = 0.0101 * x + 0.0072
R = 0.9999
DL = 0.02359 ppb
BEC = 0.7118 ppb

Weight: <None>
Min Conc: <None>

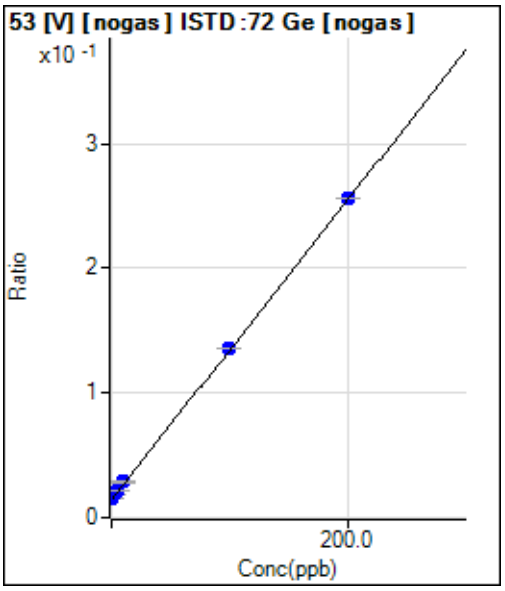


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8212.38	0.0176	P	7.1	
2	☐	2.000	2.007	19686.40	0.0418	P	2.0	0.4
3	☐	5.000	4.880	36704.82	0.0765	P	1.0	-2.4
4	☐	10.000	10.000	66225.04	0.1382	P	2.3	0.0
5	☐	100.000	100.822	591202.90	1.2336	P	0.4	0.8
6	☐	200.000	199.592	1155850.61	2.4249	P	1.1	-0.2
7	☐	1.000						

y = 0.0121 * x + 0.0176
R = 1.0000
DL = 0.3128 ppb
BEC = 1.463 ppb

Weight: <None>
Min Conc: <None>

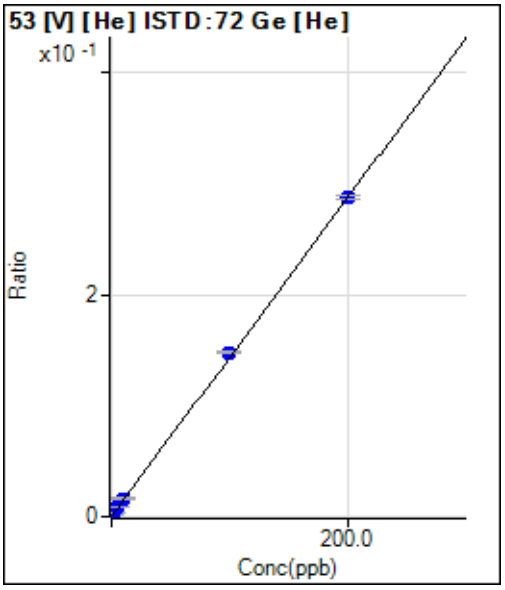
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25381.64	0.0157	P	2.8	
2	☐	2.000	1.964	29532.62	0.0181	P	2.2	-1.8
3	☐	5.000	4.680	34723.66	0.0213	P	1.6	-6.4
4	☐	10.000	10.811	47207.34	0.0287	P	1.7	8.1
5	☐	100.000	100.029	227644.60	0.1361	P	0.7	0.0
6	☐	200.000	199.953	433182.99	0.2563	P	0.6	0.0
7	☐	1.000						

y = 0.0012 * x + 0.0157
R = 1.0000
DL = 1.11 ppb
BEC = 13.03 ppb

Weight: <None>
Min Conc: <None>

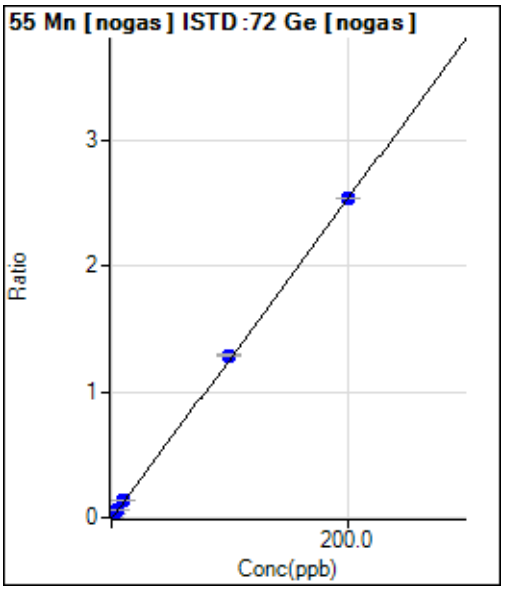


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	823.37	0.0018	P	6.3	
2	☐	2.000	1.665	1956.83	0.0042	P	5.1	-16.8
3	☐	5.000	5.103	4367.37	0.0091	P	1.1	2.1
4	☐	10.000	10.234	7892.18	0.0165	P	2.2	2.3
5	☐	100.000	101.714	70912.72	0.1480	P	1.4	1.7
6	☐	200.000	199.132	137276.40	0.2880	P	1.4	-0.4
7	☐	1.000						

y = 0.0014 * x + 0.0018
R = 0.9999
DL = 0.232 ppb
BEC = 1.229 ppb

Weight: <None>
Min Conc: <None>

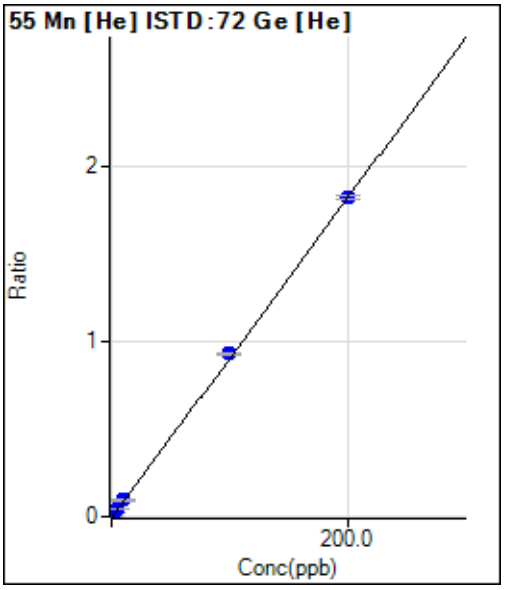
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4784.19	0.0030	P	5.2	
2	☐	2.000	1.976	46043.72	0.0281	P	1.9	-1.2
3	☐	5.000	5.010	108816.47	0.0668	P	1.2	0.2
4	☐	10.000	10.125	217152.02	0.1320	P	1.1	1.3
5	☐	100.000	101.248	2163714.71	1.2932	P	1.1	1.2
6	☐	200.000	199.370	4298971.50	2.5437	P	0.3	-0.3
7	☐	1.000						

y = 0.0127 * x + 0.0030
R = 1.0000
DL = 0.03649 ppb
BEC = 0.232 ppb

Weight: <None>
Min Conc: <None>

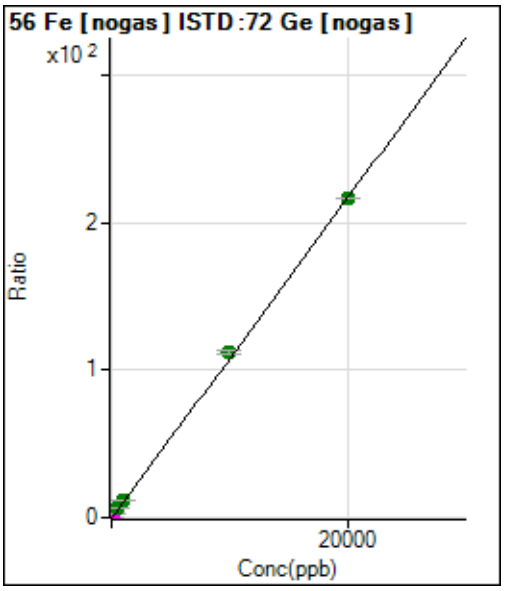


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	320.01	0.0007	P	13.9	
2	☐	2.000	1.940	8659.30	0.0184	P	1.6	-3.0
3	☐	5.000	4.770	21238.61	0.0443	P	1.6	-4.6
4	☐	10.000	10.166	44823.67	0.0936	P	1.3	1.7
5	☐	100.000	101.444	444438.31	0.9274	P	0.4	1.4
6	☐	200.000	199.276	868103.56	1.8212	P	0.9	-0.4
7	☐	1.000						

y = 0.0091 * x + 6.8731E-004
R = 1.0000
DL = 0.03146 ppb
BEC = 0.07524 ppb

Weight: <None>
Min Conc: <None>

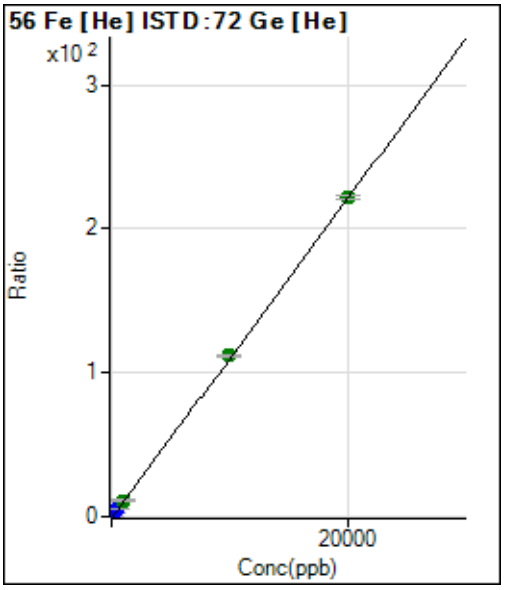
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	763172.83	0.4716	P	1.9	
2	☐	200.000	201.812	4361504.10	2.6659	M	1.9	0.9
3	☐	500.000	517.006	9924462.14	6.0929	A	1.6	3.4
4	☐	1000.000	1033.053	19250869.29	11.7037	A	1.5	3.3
5	☐	10000.00	10265.95	187522630.5	112.090	A	1.5	2.7
6	☐	20000.00	19864.92	365812154.5	216.456	A	0.4	-0.7
7	☐	100.000						

y = 0.0109 * x + 0.4716
R = 0.9999
DL = 2.424 ppb
BEC = 43.38 ppb

Weight: <None>
Min Conc: <None>

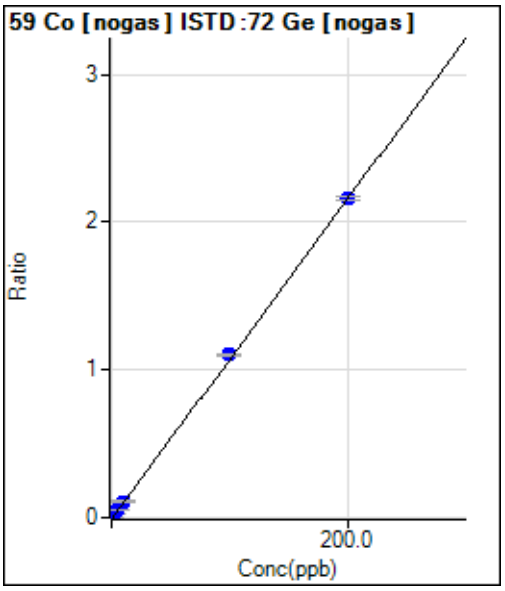


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10834.10	0.0233	P	4.5	
2	☐	200.000	192.641	1018525.50	2.1649	P	0.7	-3.7
3	☐	500.000	477.855	2560207.04	5.3358	P	0.8	-4.4
4	☐	1000.000	1019.603	5441189.71	11.3586	A	0.7	2.0
5	☐	10000.00	10064.14	53632990.87	111.910	A	1.3	0.6
6	☐	20000.00	19967.57	105829361.7	222.010	A	1.3	-0.2
7	☐	100.000						

y = 0.0111 * x + 0.0233
R = 1.0000
DL = 0.2852 ppb
BEC = 2.092 ppb

Weight: <None>
Min Conc: <None>

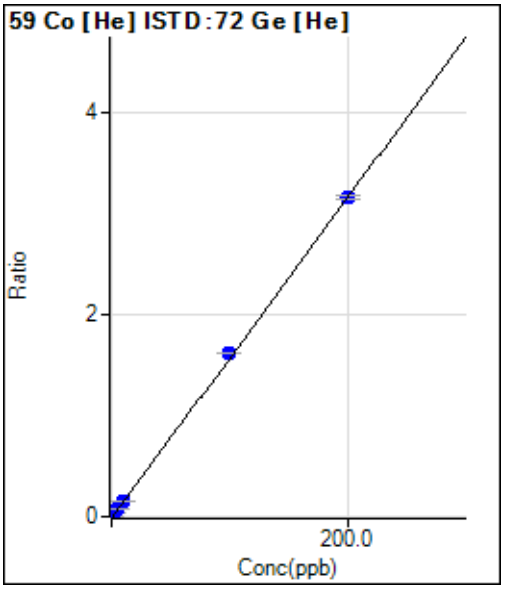
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	35.3	
2	☐	2.000	2.016	35976.65	0.0220	P	3.7	0.8
3	☐	5.000	4.994	88428.91	0.0543	P	1.2	-0.1
4	☐	10.000	10.176	181793.99	0.1105	P	0.6	1.8
5	☐	100.000	101.618	1844591.01	1.1025	P	0.6	1.6
6	☐	200.000	199.182	3651995.99	2.1608	P	1.5	-0.4
7	☐	1.000						

y = 0.0108 * x + 1.1954E-004
R = 1.0000
DL = 0.01166 ppb
BEC = 0.01102 ppb

Weight: <None>
Min Conc: <None>

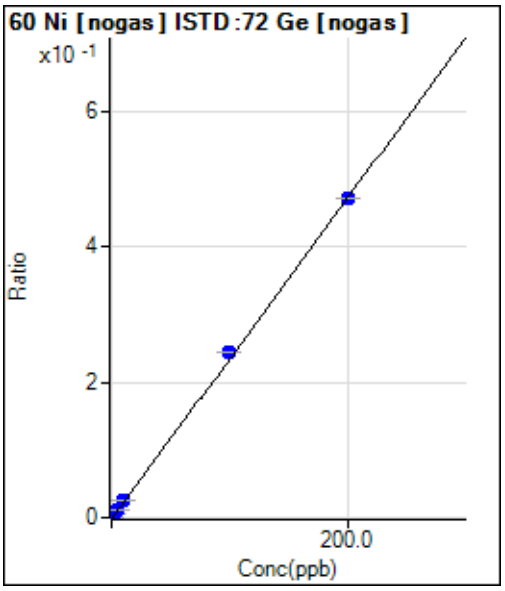


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.33	0.0002	P	15.3	
2	☐	2.000	2.008	15081.12	0.0321	P	1.4	0.4
3	☐	5.000	5.058	38593.17	0.0804	P	2.9	1.2
4	☐	10.000	9.919	75448.54	0.1575	P	0.9	-0.8
5	☐	100.000	101.851	774090.20	1.6153	P	0.1	1.9
6	☐	200.000	199.077	1504871.49	3.1570	P	0.9	-0.5
7	☐	1.000						

y = 0.0159 * x + 2.2199E-004
R = 0.9999
DL = 0.006415 ppb
BEC = 0.014 ppb

Weight: <None>
Min Conc: <None>

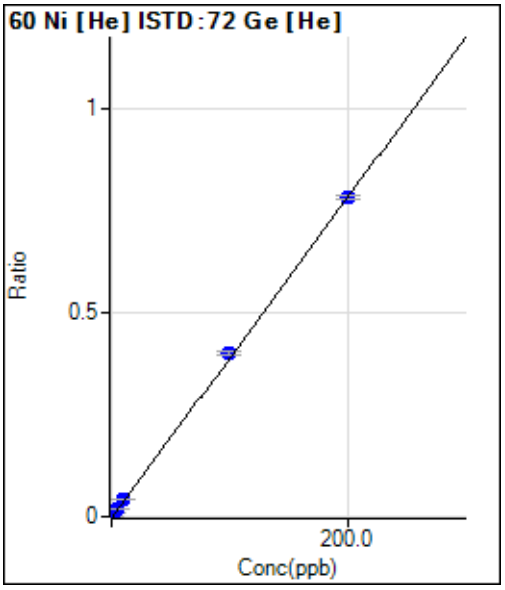
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.67	0.0002	P	11.5	
2	☐	2.000	2.049	8219.05	0.0050	P	0.9	2.5
3	☐	5.000	5.169	20267.35	0.0124	P	4.8	3.4
4	☐	10.000	10.466	41183.58	0.0250	P	1.4	4.7
5	☐	100.000	102.543	408112.78	0.2439	P	0.3	2.5
6	☐	200.000	198.701	798538.95	0.4725	P	0.6	-0.6
7	☐	1.000						

y = 0.0024 * x + 1.5233E-004
R = 0.9999
DL = 0.02202 ppb
BEC = 0.06408 ppb

Weight: <None>
Min Conc: <None>

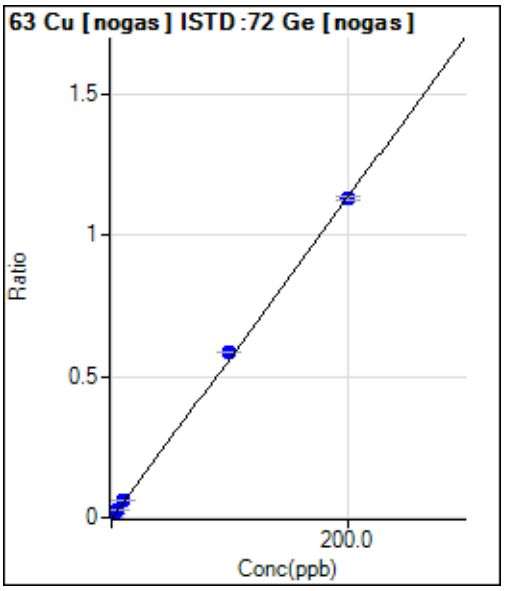


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0003	P	46.6	
2	☐	2.000	2.019	3873.90	0.0082	P	3.8	0.9
3	☐	5.000	5.028	9636.60	0.0201	P	5.0	0.6
4	☐	10.000	10.233	19446.16	0.0406	P	2.0	2.3
5	☐	100.000	101.971	192664.00	0.4020	P	1.5	2.0
6	☐	200.000	199.002	373881.69	0.7843	P	0.9	-0.5
7	☐	1.000						

y = 0.0039 * x + 2.7891E-004
R = 0.9999
DL = 0.09893 ppb
BEC = 0.07079 ppb

Weight: <None>
Min Conc: <None>

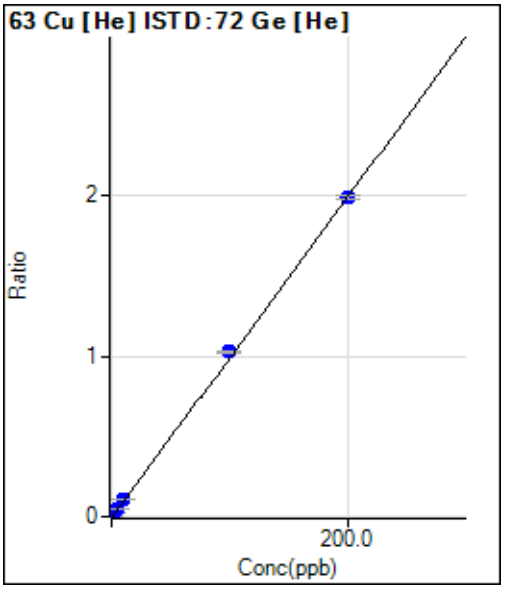
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1173.40	0.0007	P	3.4	
2	☐	2.000	1.978	19603.05	0.0120	P	3.5	-1.1
3	☐	5.000	5.170	49103.86	0.0301	P	0.3	3.4
4	☐	10.000	10.329	97877.69	0.0595	P	1.7	3.3
5	☐	100.000	103.192	983710.56	0.5879	P	0.1	3.2
6	☐	200.000	198.383	1909152.00	1.1296	P	0.9	-0.8
7	☐	1.000						

y = 0.0057 * x + 7.2501E-004
R = 0.9998
DL = 0.01282 ppb
BEC = 0.1274 ppb

Weight: <None>
Min Conc: <None>

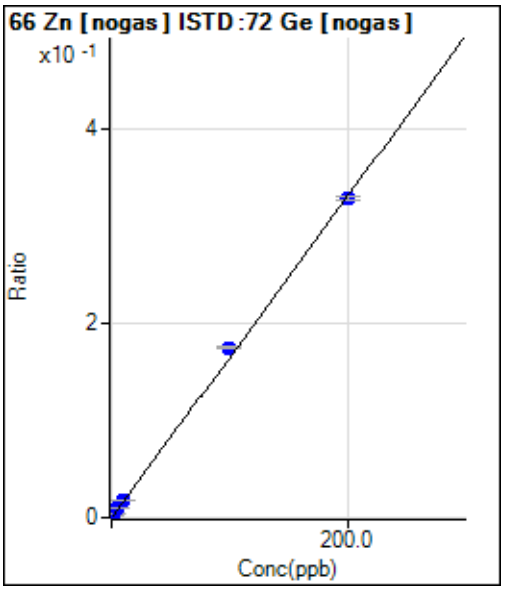


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	486.68	0.0010	P	10.7	
2	☐	2.000	1.970	9786.69	0.0208	P	3.0	-1.5
3	☐	5.000	5.137	25218.13	0.0526	P	1.2	2.7
4	☐	10.000	10.237	49679.09	0.1037	P	0.8	2.4
5	☐	100.000	102.522	493126.74	1.0290	P	0.8	2.5
6	☐	200.000	198.724	950393.53	1.9937	P	1.0	-0.6
7	☐	1.000						

y = 0.0100 * x + 0.0010
R = 0.9999
DL = 0.03333 ppb
BEC = 0.1042 ppb

Weight: <None>
Min Conc: <None>

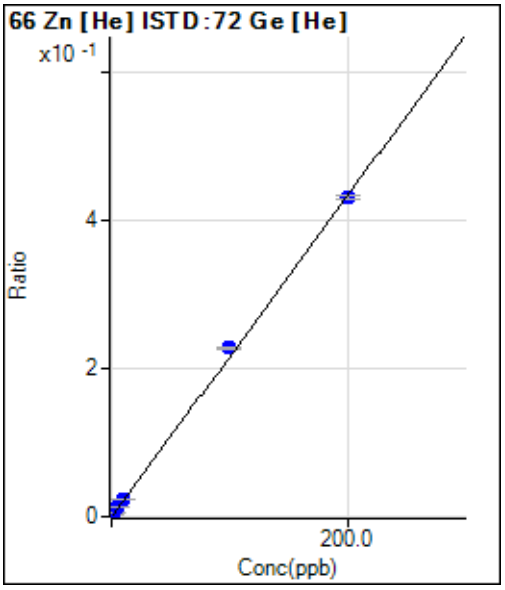
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2240.22	0.0014	P	8.9	
2	☐	2.000	1.914	7442.01	0.0045	P	3.6	-4.3
3	☐	5.000	5.213	16295.79	0.0100	P	4.4	4.3
4	☐	10.000	10.298	30284.46	0.0184	P	3.6	3.0
5	☐	100.000	104.725	292102.74	0.1746	P	1.4	4.7
6	☐	200.000	197.618	554715.88	0.3282	P	0.9	-1.2
7	☐	1.000						

y = 0.0017 * x + 0.0014
R = 0.9996
DL = 0.2243 ppb
BEC = 0.8367 ppb

Weight: <None>
Min Conc: <None>

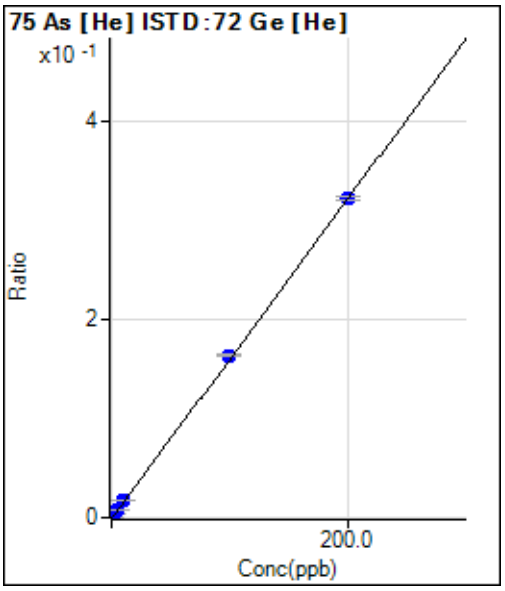


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	793.37	0.0017	P	6.4	
2	☐	2.000	1.976	2823.66	0.0060	P	7.0	-1.2
3	☐	5.000	4.897	5927.94	0.0124	P	3.3	-2.1
4	☐	10.000	10.262	11507.91	0.0240	P	0.3	2.6
5	☐	100.000	104.324	109538.45	0.2286	P	1.3	4.3
6	☐	200.000	197.828	205896.29	0.4319	P	0.7	-1.1
7	☐	1.000						

y = 0.0022 * x + 0.0017
R = 0.9997
DL = 0.1511 ppb
BEC = 0.7832 ppb

Weight: <None>
Min Conc: <None>

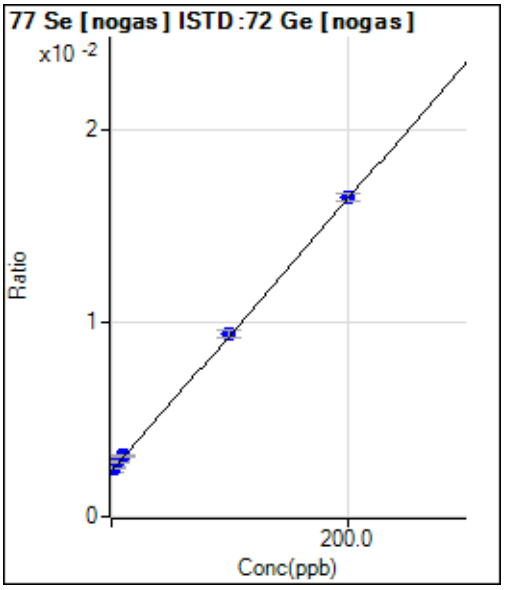
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146.67	0.0003	P	3.4	
2	☐	2.000	1.892	1588.98	0.0034	P	5.3	-5.4
3	☐	5.000	4.845	3913.87	0.0082	P	1.4	-3.1
4	☐	10.000	10.162	8029.98	0.0168	P	2.3	1.6
5	☐	100.000	101.282	78705.39	0.1642	P	0.8	1.3
6	☐	200.000	199.356	153931.63	0.3229	P	1.7	-0.3
7	☐	1.000						

y = 0.0016 * x + 3.1498E-004
R = 1.0000
DL = 0.01966 ppb
BEC = 0.1946 ppb

Weight: <None>
Min Conc: <None>

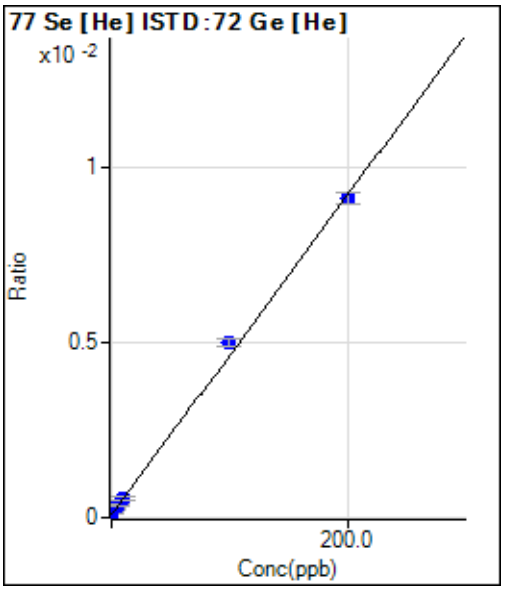


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3947.26	0.0024	P	14.0	
2	☐	2.000	1.262	4137.33	0.0025	P	4.7	-36.9
3	☐	5.000	5.738	4630.81	0.0028	P	5.3	14.8
4	☐	10.000	10.205	5194.33	0.0032	P	3.1	2.1
5	☐	100.000	99.677	15805.30	0.0094	P	3.8	-0.3
6	☐	200.000	200.140	27886.57	0.0165	P	2.9	0.1
7	☐	1.000						

y = 7.0266E-005 * x + 0.0024
R = 1.0000
DL = 14.62 ppb
BEC = 34.72 ppb

Weight: <None>
Min Conc: <None>

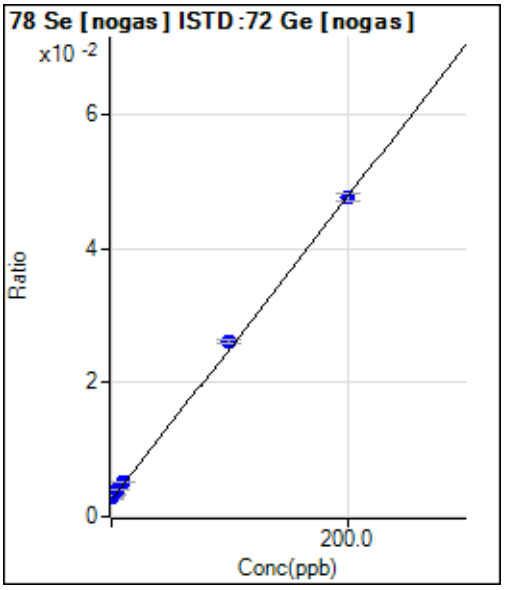
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0001	P	15.9	
2	☐	2.000	3.064	126.67	0.0003	P	23.8	53.2
3	☐	5.000	4.628	163.33	0.0003	P	20.5	-7.4
4	☐	10.000	9.622	273.34	0.0006	P	19.9	-3.8
5	☐	100.000	106.532	2400.24	0.0050	P	4.2	6.5
6	☐	200.000	196.751	4357.38	0.0091	P	3.9	-1.6
7	☐	1.000						

y = 4.5812E-005 * x + 1.2873E-004
R = 0.9992
DL = 1.343 ppb
BEC = 2.81 ppb

Weight: <None>
Min Conc: <None>

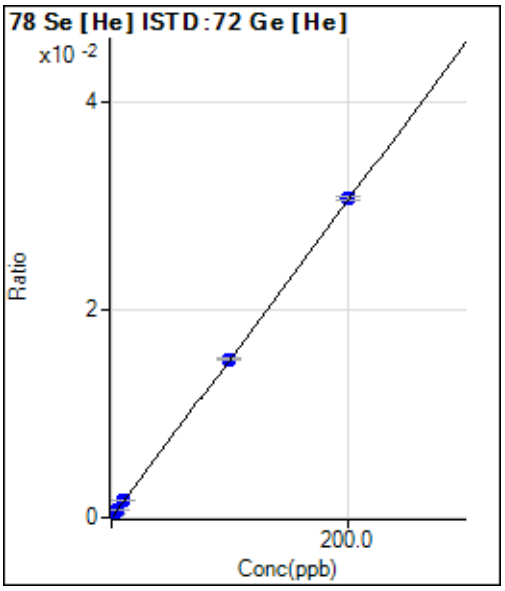


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4460.75	0.0028	P	5.9	
2	☐	2.000	2.813	5551.13	0.0034	P	6.8	40.6
3	☐	5.000	5.530	6531.56	0.0040	P	2.3	10.6
4	☐	10.000	10.891	8595.98	0.0052	P	3.5	8.9
5	☐	100.000	103.185	43791.45	0.0262	P	1.8	3.2
6	☐	200.000	198.342	80722.25	0.0478	P	2.6	-0.8
7	☐	1.000						

y = 2.2695E-004 * x + 0.0028
R = 0.9998
DL = 2.157 ppb
BEC = 12.14 ppb

Weight: <None>
Min Conc: <None>

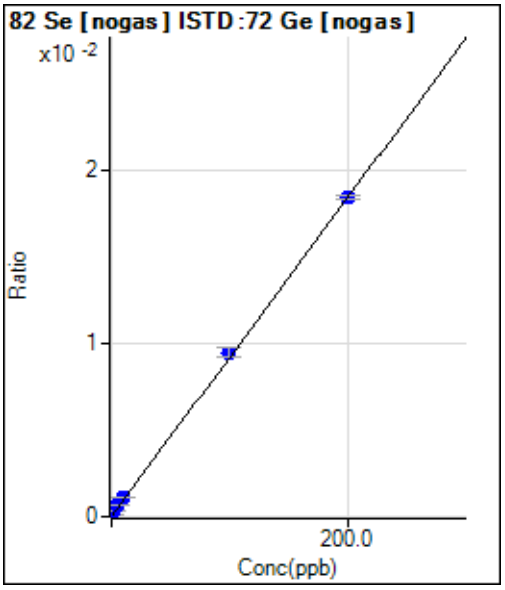
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	64.67	0.0001	P	8.4	
2	☐	2.000	1.872	200.00	0.0004	P	11.8	-6.4
3	☐	5.000	4.247	378.01	0.0008	P	6.9	-15.1
4	☐	10.000	10.175	811.36	0.0017	P	4.8	1.8
5	☐	100.000	98.880	7310.48	0.0153	P	1.2	-1.1
6	☐	200.000	200.572	14681.94	0.0308	P	0.9	0.3
7	☐	1.000						

y = 1.5287E-004 * x + 1.3889E-004
R = 1.0000
DL = 0.2287 ppb
BEC = 0.9086 ppb

Weight: <None>
Min Conc: <None>

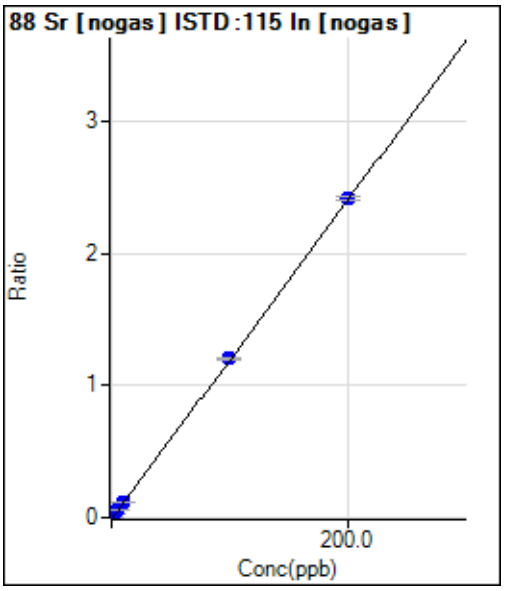


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0001	P	24.1	
2	☐	2.000	2.108	506.68	0.0003	P	17.3	5.4
3	☐	5.000	6.074	1100.06	0.0007	P	10.3	21.5
4	☐	10.000	10.969	1853.48	0.0011	P	1.8	9.7
5	☐	100.000	101.641	15875.38	0.0095	P	5.6	1.6
6	☐	200.000	199.103	31226.52	0.0185	P	0.9	-0.4
7	☐	1.000						

y = 9.2218E-005 * x + 1.1516E-004
R = 0.9999
DL = 0.9039 ppb
BEC = 1.249 ppb

Weight: <None>
Min Conc: <None>

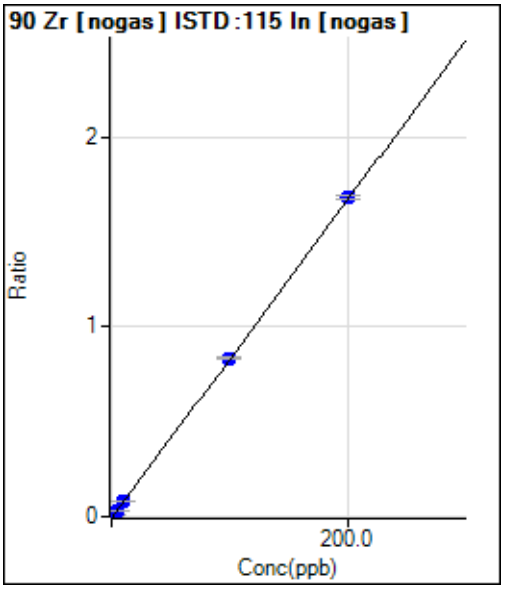
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0003	P	17.6	
2	☐	2.000	1.899	42622.02	0.0232	P	1.7	-5.1
3	☐	5.000	4.800	106724.45	0.0582	P	1.1	-4.0
4	☐	10.000	9.686	216754.85	0.1171	P	1.3	-3.1
5	☐	100.000	99.715	2233773.51	1.2031	P	1.0	-0.3
6	☐	200.000	200.164	4439861.91	2.4148	P	1.0	0.1
7	☐	1.000						

y = 0.0121 * x + 3.0707E-004
R = 1.0000
DL = 0.01346 ppb
BEC = 0.02546 ppb

Weight: <None>
Min Conc: <None>

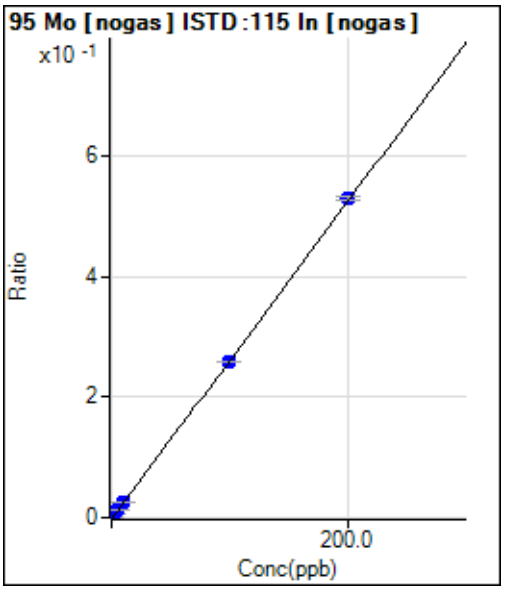


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1273.41	0.0007	P	11.6	
2	☐	2.000	1.429	23322.07	0.0127	P	1.1	-28.6
3	☐	5.000	4.092	64293.45	0.0351	P	1.0	-18.2
4	☐	10.000	9.083	142444.21	0.0770	P	1.6	-9.2
5	☐	100.000	99.284	1549522.01	0.8346	P	1.0	-0.7
6	☐	200.000	200.433	3096463.70	1.6841	P	0.9	0.2
7	☐	1.000						

y = 0.0084 * x + 6.9926E-004
R = 1.0000
DL = 0.02895 ppb
BEC = 0.08326 ppb

Weight: <None>
Min Conc: <None>

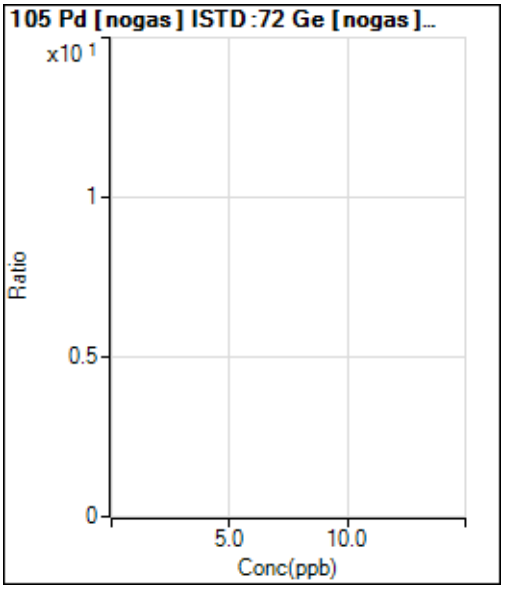
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0001	P	31.5	
2	☐	2.000	1.831	9109.62	0.0050	P	3.3	-8.5
3	☐	5.000	4.586	22394.08	0.0122	P	1.2	-8.3
4	☐	10.000	9.540	46721.27	0.0252	P	0.7	-4.6
5	☐	100.000	98.081	479529.14	0.2583	P	0.9	-1.9
6	☐	200.000	200.994	972875.77	0.5291	P	1.0	0.5
7	☐	1.000						

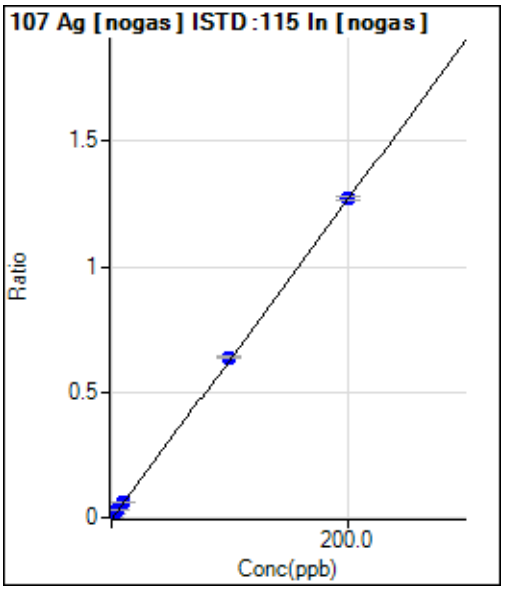
y = 0.0026 * x + 1.4305E-004
R = 0.9999
DL = 0.05136 ppb
BEC = 0.05435 ppb

Weight: <None>
Min Conc: <None>



	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						

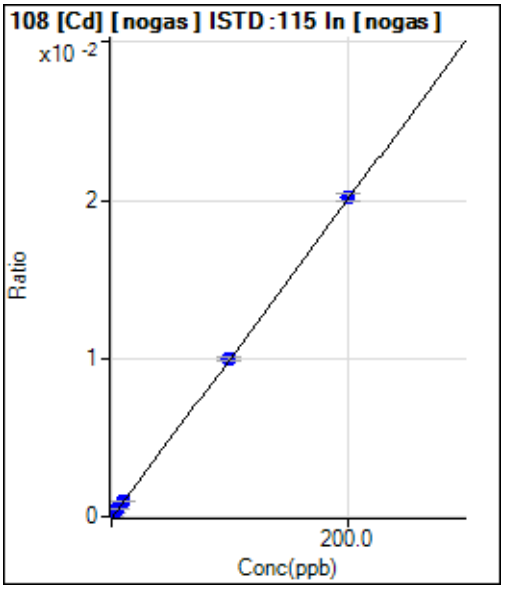
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	116.67	0.0001	P	26.4	
2	☐	2.000	1.940	22794.80	0.0124	P	1.3	-3.0
3	☐	5.000	4.898	57303.13	0.0313	P	1.8	-2.0
4	☐	10.000	9.983	117733.32	0.0636	P	1.7	-0.2
5	☐	100.000	100.311	1186064.77	0.6388	P	1.3	0.3
6	☐	200.000	199.849	2339935.80	1.2727	P	1.3	-0.1
7	☐	1.000						

y = 0.0064 * x + 6.4069E-005
R = 1.0000
DL = 0.007965 ppb
BEC = 0.01006 ppb

Weight: <None>
Min Conc: <None>

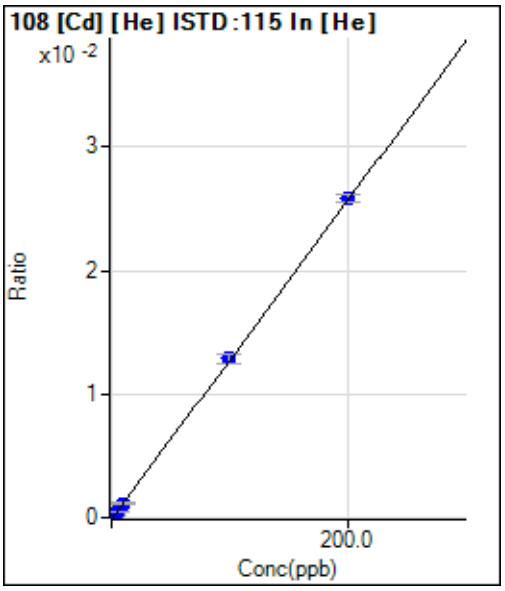


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.963	370.01	0.0002	P	10.7	-1.8
3	☐	5.000	5.001	930.04	0.0005	P	6.5	0.0
4	☐	10.000	9.253	1730.13	0.0009	P	3.9	-7.5
5	☐	100.000	99.123	18535.39	0.0100	P	2.5	-0.9
6	☐	200.000	200.476	37121.20	0.0202	P	3.0	0.2
7	☐	1.000						

y = 1.0069E-004 * x + 3.6857E-006
R = 1.0000
DL = 0.09511 ppb
BEC = 0.03661 ppb

Weight: <None>
Min Conc: <None>

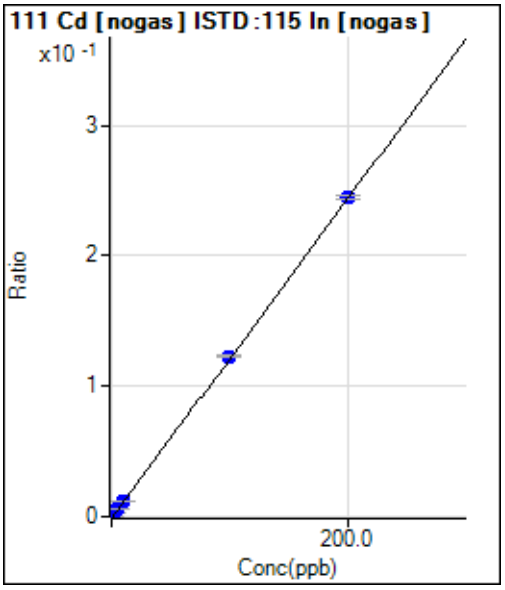
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.804	166.67	0.0002	P	28.4	-9.8
3	☐	5.000	3.715	346.68	0.0005	P	15.2	-25.7
4	☐	10.000	8.841	823.37	0.0011	P	12.1	-11.6
5	☐	100.000	99.595	9052.99	0.0129	P	6.0	-0.4
6	☐	200.000	200.294	18081.50	0.0259	P	2.0	0.1
7	☐	1.000						

y = 1.2911E-004 * x + 4.8102E-006
R = 1.0000
DL = 0.1936 ppb
BEC = 0.03726 ppb

Weight: <None>
Min Conc: <None>

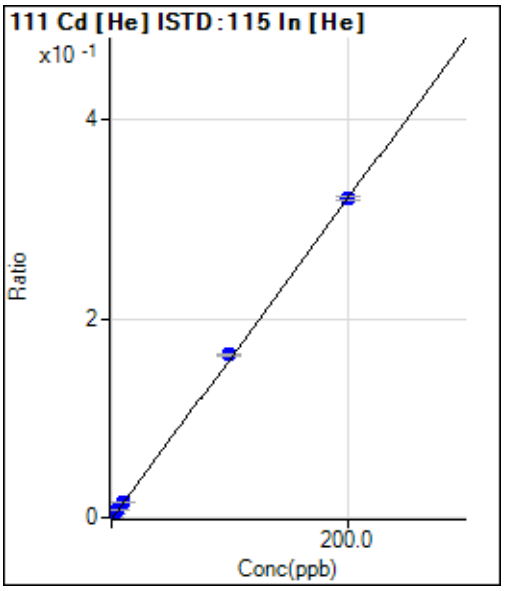


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.18	0.0000	P	97.1	
2	☐	2.000	1.961	4417.19	0.0024	P	6.7	-2.0
3	☐	5.000	4.913	11047.33	0.0060	P	3.5	-1.7
4	☐	10.000	9.954	22581.03	0.0122	P	2.7	-0.5
5	☐	100.000	100.310	228250.60	0.1229	P	1.3	0.3
6	☐	200.000	199.850	450318.27	0.2449	P	0.9	-0.1
7	☐	1.000						

y = 0.0012 * x + 3.3758E-006
R = 1.0000
DL = 0.008022 ppb
BEC = 0.002755 ppb

Weight: <None>
Min Conc: <None>

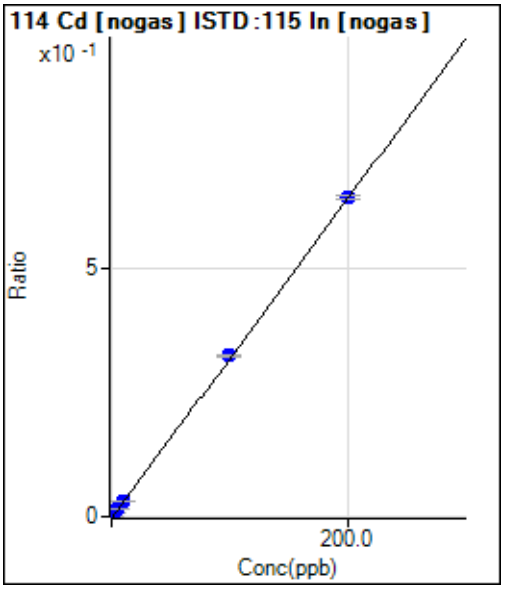
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-3.58	0.0000	P	-173.	
2	☐	2.000	1.954	2204.73	0.0031	P	14.1	-2.3
3	☐	5.000	4.995	5752.75	0.0080	P	5.4	-0.1
4	☐	10.000	9.915	11468.69	0.0160	P	0.7	-0.8
5	☐	100.000	101.728	115317.42	0.1639	P	1.2	1.7
6	☐	200.000	199.141	224261.67	0.3208	P	1.3	-0.4
7	☐	1.000						

y = 0.0016 * x - 5.1614E-006
R = 0.9999
DL = 0.01665 ppb
BEC = -0.003204 ppb

Weight: <None>
Min Conc: <None>

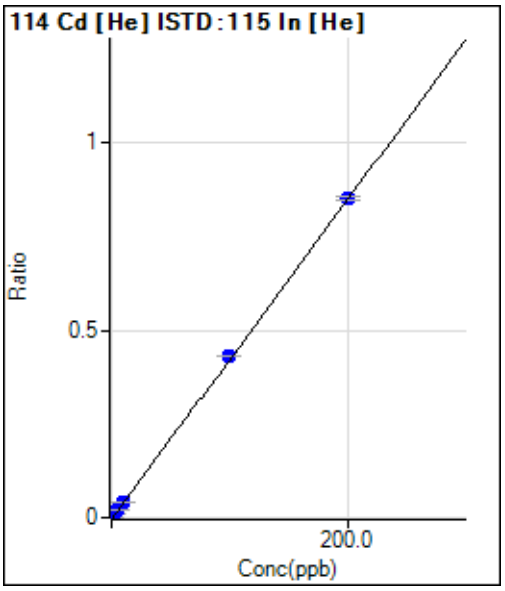


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	53.0	
2	☐	2.000	1.894	11204.53	0.0061	P	2.9	-5.3
3	☐	5.000	4.945	29142.88	0.0159	P	1.4	-1.1
4	☐	10.000	9.824	58377.71	0.0315	P	1.2	-1.8
5	☐	100.000	100.487	598723.48	0.3225	P	1.9	0.5
6	☐	200.000	199.768	1178634.17	0.6410	P	0.6	-0.1
7	☐	1.000						

y = 0.0032 * x + 2.5529E-005
R = 1.0000
DL = 0.01266 ppb
BEC = 0.007956 ppb

Weight: <None>
Min Conc: <None>

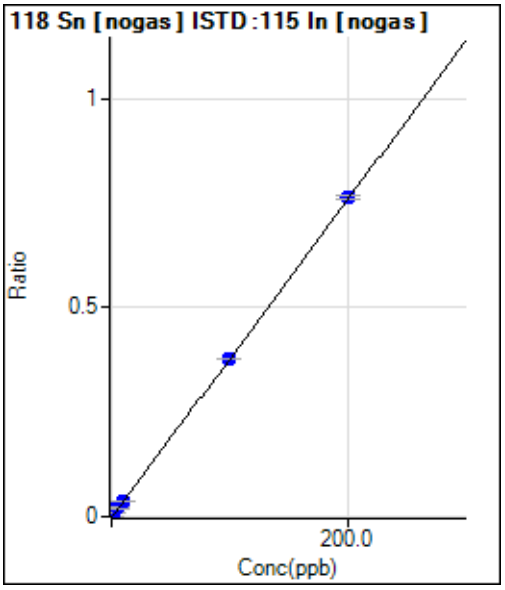
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	43.4	
2	☐	2.000	1.960	5904.63	0.0084	P	4.4	-2.0
3	☐	5.000	4.791	14670.95	0.0205	P	3.0	-4.2
4	☐	10.000	9.821	30161.69	0.0420	P	2.4	-1.8
5	☐	100.000	100.791	302876.49	0.4305	P	0.7	0.8
6	☐	200.000	199.619	595926.03	0.8525	P	0.7	-0.2
7	☐	1.000						

y = 0.0043 * x + 5.2907E-005
R = 1.0000
DL = 0.01612 ppb
BEC = 0.01239 ppb

Weight: <None>
Min Conc: <None>

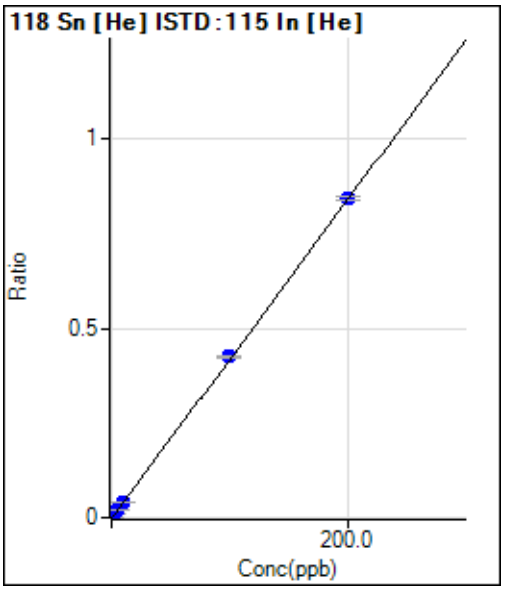


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2493.61	0.0014	P	8.2	
2	☐	2.000	1.758	14801.10	0.0081	P	1.0	-12.1
3	☐	5.000	5.189	38702.89	0.0211	P	15.4	3.8
4	☐	10.000	9.537	69677.89	0.0377	P	0.6	-4.6
5	☐	100.000	99.199	703366.73	0.3788	P	0.4	-0.8
6	☐	200.000	200.421	1404731.96	0.7640	P	1.4	0.2
7	☐	1.000						

y = 0.0038 * x + 0.0014
R = 1.0000
DL = 0.0888 ppb
BEC = 0.3596 ppb

Weight: <None>
Min Conc: <None>

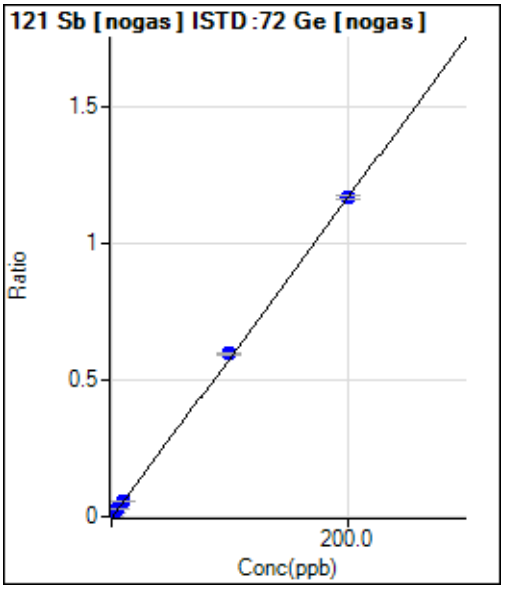
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1156.74	0.0017	P	2.9	
2	☐	2.000	1.770	6398.18	0.0091	P	4.0	-11.5
3	☐	5.000	4.609	15094.76	0.0211	P	1.8	-7.8
4	☐	10.000	9.721	30646.17	0.0427	P	1.2	-2.8
5	☐	100.000	100.530	299625.53	0.4259	P	0.9	0.5
6	☐	200.000	199.761	590389.02	0.8446	P	0.8	-0.1
7	☐	1.000						

y = 0.0042 * x + 0.0017
R = 1.0000
DL = 0.03402 ppb
BEC = 0.3928 ppb

Weight: <None>
Min Conc: <None>

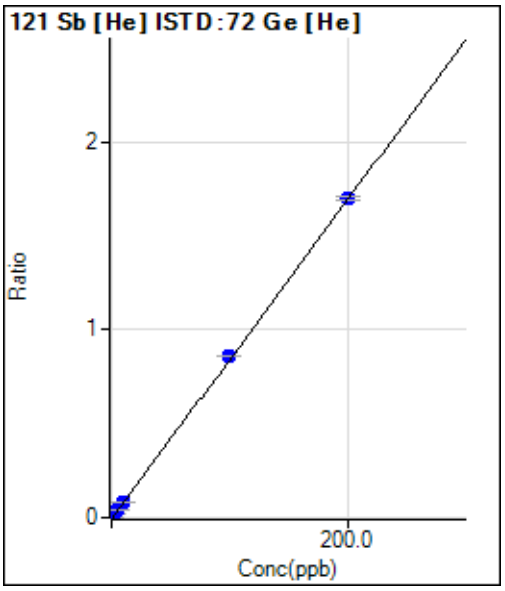


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1260.08	0.0008	P	2.2	
2	☐	2.000	1.954	20024.12	0.0122	P	3.8	-2.3
3	☐	5.000	4.782	46953.25	0.0288	P	1.7	-4.4
4	☐	10.000	9.767	95518.59	0.0581	P	1.3	-2.3
5	☐	100.000	101.399	996493.14	0.5956	P	0.5	1.4
6	☐	200.000	199.318	1977213.15	1.1699	P	1.2	-0.3
7	☐	1.000						

y = 0.0059 * x + 7.7843E-004
R = 1.0000
DL = 0.008753 ppb
BEC = 0.1327 ppb

Weight: <None>
Min Conc: <None>

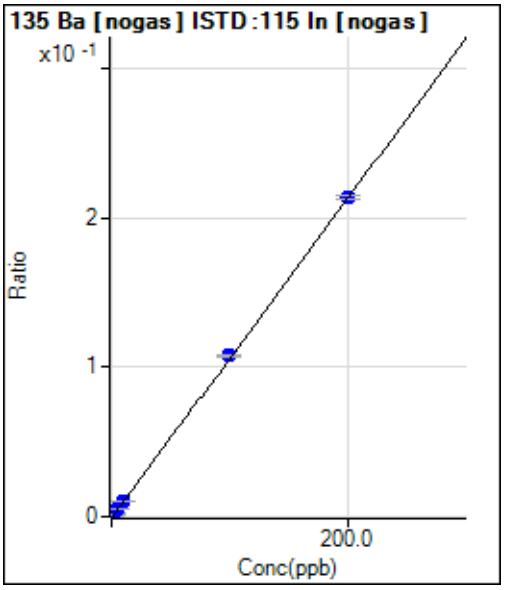
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	593.36	0.0013	P	10.7	
2	☐	2.000	1.906	8222.48	0.0175	P	2.6	-4.7
3	☐	5.000	4.817	20261.13	0.0422	P	1.5	-3.7
4	☐	10.000	9.668	39992.48	0.0835	P	1.9	-3.3
5	☐	100.000	100.641	410709.94	0.8570	P	0.2	0.6
6	☐	200.000	199.701	809986.76	1.6993	P	1.5	-0.1
7	☐	1.000						

y = 0.0085 * x + 0.0013
R = 1.0000
DL = 0.0482 ppb
BEC = 0.1498 ppb

Weight: <None>
Min Conc: <None>

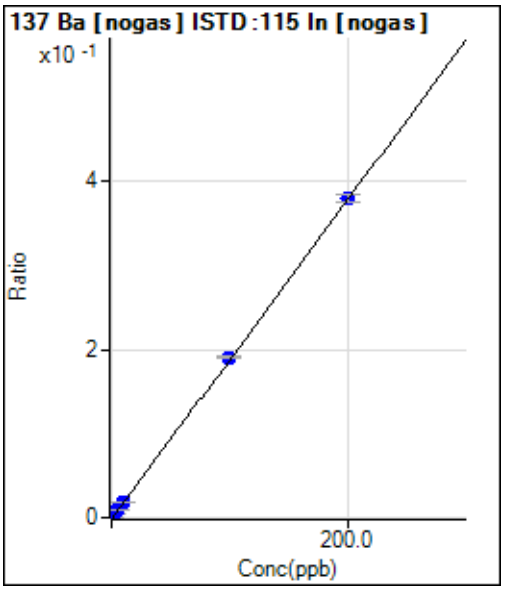


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0000	P	40.9	
2	☐	2.000	1.828	3687.21	0.0020	P	7.6	-8.6
3	☐	5.000	4.858	9636.76	0.0053	P	3.5	-2.8
4	☐	10.000	9.732	19396.80	0.0105	P	4.1	-2.7
5	☐	100.000	100.886	200883.71	0.1082	P	1.3	0.9
6	☐	200.000	199.576	393445.52	0.2140	P	1.7	-0.2
7	☐	1.000						

y = 0.0011 * x + 4.7605E-005
R = 1.0000
DL = 0.05448 ppb
BEC = 0.04441 ppb

Weight: <None>
Min Conc: <None>

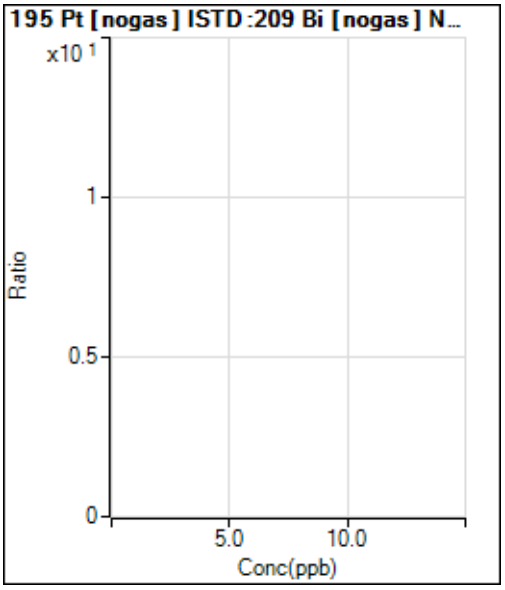
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0001	P	31.9	
2	☐	2.000	1.961	6951.81	0.0038	P	4.0	-2.0
3	☐	5.000	4.764	16710.10	0.0091	P	2.4	-4.7
4	☐	10.000	9.857	34769.48	0.0188	P	1.7	-1.4
5	☐	100.000	100.368	354273.71	0.1908	P	0.4	0.4
6	☐	200.000	199.829	698409.57	0.3799	P	2.0	-0.1
7	☐	1.000						

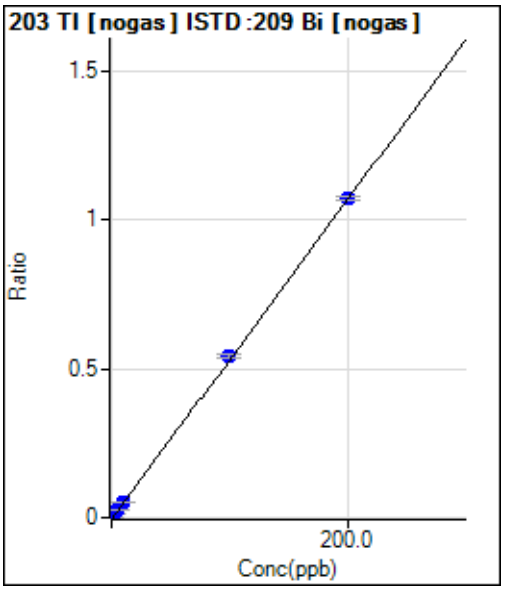
y = 0.0019 * x + 5.8436E-005
R = 1.0000
DL = 0.02941 ppb
BEC = 0.03075 ppb

Weight: <None>
Min Conc: <None>



	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						

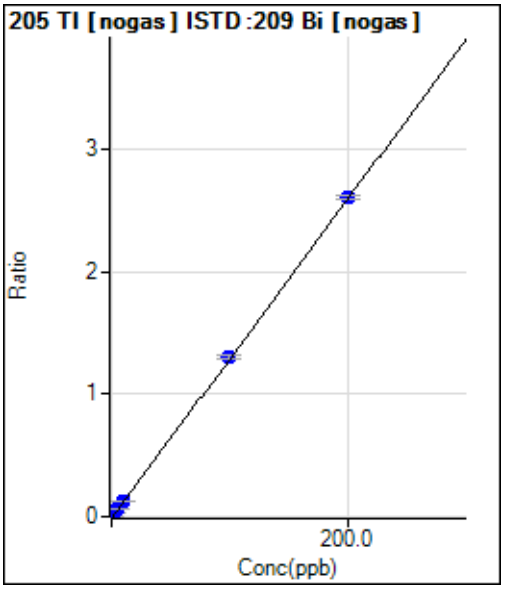
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0001	P	22.9	
2	☐	2.000	1.963	17818.59	0.0106	P	1.3	-1.8
3	☐	5.000	4.807	43867.37	0.0259	P	2.9	-3.9
4	☐	10.000	9.826	90129.48	0.0529	P	1.7	-1.7
5	☐	100.000	100.733	925627.17	0.5415	P	2.3	0.7
6	☐	200.000	199.647	1808033.99	1.0731	P	1.7	-0.2
7	☐	1.000						

y = 0.0054 * x + 7.7765E-005
R = 1.0000
DL = 0.009946 ppb
BEC = 0.01447 ppb

Weight: <None>
Min Conc: <None>

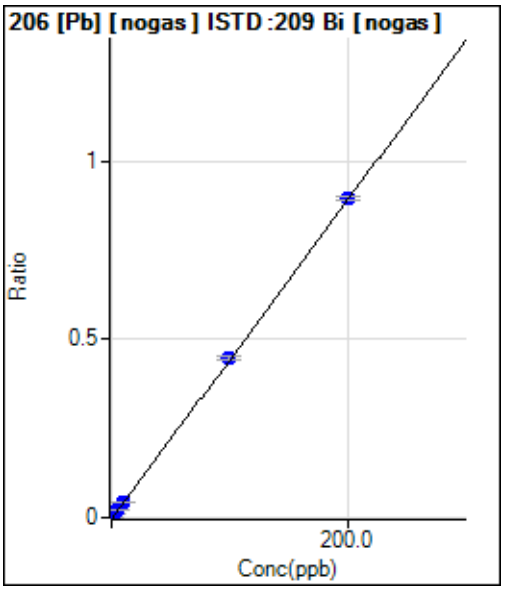


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	280.01	0.0002	P	6.0	
2	☐	2.000	1.901	41737.35	0.0249	P	2.5	-4.9
3	☐	5.000	4.871	107527.98	0.0635	P	3.9	-2.6
4	☐	10.000	9.702	215416.93	0.1264	P	1.7	-3.0
5	☐	100.000	99.795	2220111.11	1.2987	P	2.5	-0.2
6	☐	200.000	200.121	4387590.66	2.6042	P	1.5	0.1
7	☐	1.000						

y = 0.0130 * x + 1.6752E-004
R = 1.0000
DL = 0.002319 ppb
BEC = 0.01287 ppb

Weight: <None>
Min Conc: <None>

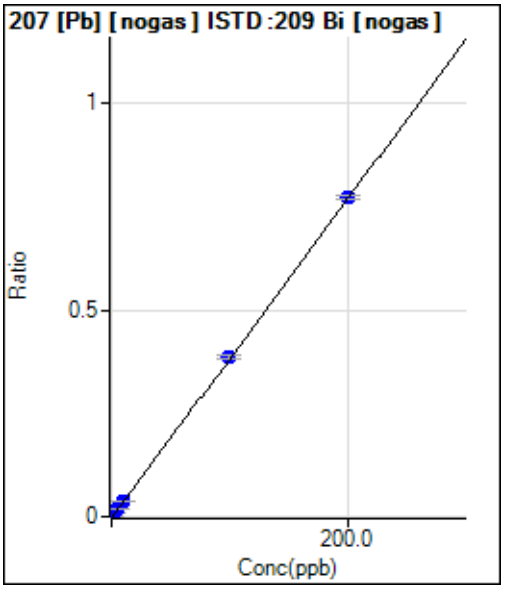
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	286.68	0.0002	P	26.1	
2	☐	2.000	1.969	15071.88	0.0090	P	4.2	-1.6
3	☐	5.000	4.903	37481.96	0.0221	P	2.3	-1.9
4	☐	10.000	9.840	75444.68	0.0443	P	2.9	-1.6
5	☐	100.000	99.958	766087.36	0.4482	P	2.2	0.0
6	☐	200.000	200.032	1510692.32	0.8967	P	1.5	0.0
7	☐	1.000						

y = 0.0045 * x + 1.7149E-004
R = 1.0000
DL = 0.02998 ppb
BEC = 0.03827 ppb

Weight: <None>
Min Conc: <None>

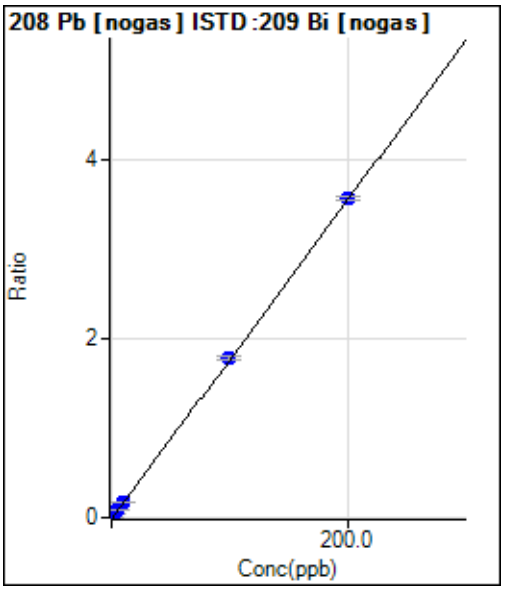


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0002	P	9.7	
2	☐	2.000	1.943	12842.93	0.0077	P	2.7	-2.9
3	☐	5.000	4.795	31616.94	0.0187	P	3.3	-4.1
4	☐	10.000	9.826	64954.87	0.0381	P	3.3	-1.7
5	☐	100.000	100.169	661812.11	0.3871	P	1.7	0.2
6	☐	200.000	199.930	1301556.98	0.7725	P	1.6	0.0
7	☐	1.000						

y = 0.0039 * x + 1.5758E-004
R = 1.0000
DL = 0.01186 ppb
BEC = 0.04079 ppb

Weight: <None>
Min Conc: <None>

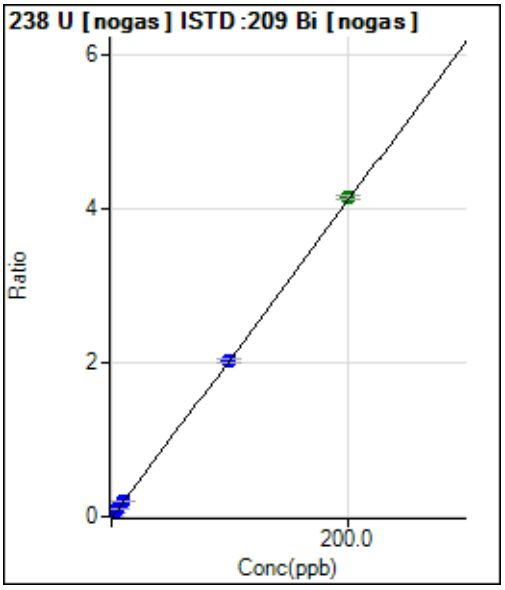
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1073.38	0.0006	P	3.2	
2	☐	2.000	1.955	59622.20	0.0356	P	3.1	-2.2
3	☐	5.000	4.876	148533.06	0.0878	P	2.5	-2.5
4	☐	10.000	9.797	299411.81	0.1757	P	1.7	-2.0
5	☐	100.000	100.169	3060892.88	1.7905	P	2.1	0.2
6	☐	200.000	199.929	6020006.55	3.5731	P	1.5	0.0
7	☐	1.000						

y = 0.0179 * x + 6.4225E-004
R = 1.0000
DL = 0.003463 ppb
BEC = 0.03594 ppb

Weight: <None>
Min Conc: <None>

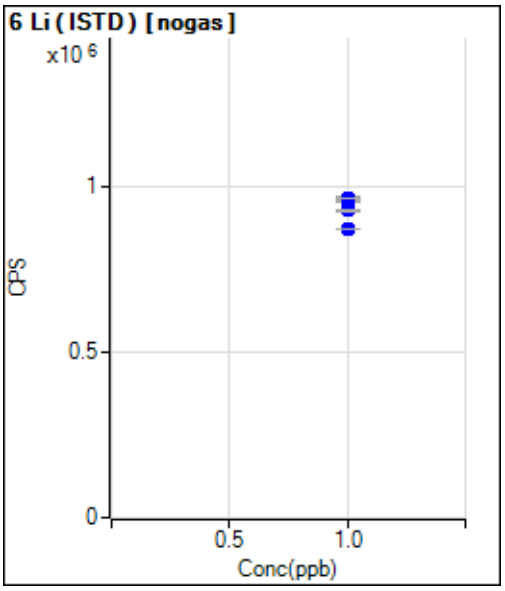


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	310.01	0.0002	P	17.8	
2	☐	2.000	1.873	65138.76	0.0389	P	2.8	-6.3
3	☐	5.000	4.565	159834.33	0.0944	P	3.2	-8.7
4	☐	10.000	9.319	328191.96	0.1926	P	2.4	-6.8
5	☐	100.000	97.739	3450238.91	2.0184	P	2.7	-2.3
6	☐	200.000	201.177	6999179.48	4.1542	A	1.2	0.6
7	☐	1.000						

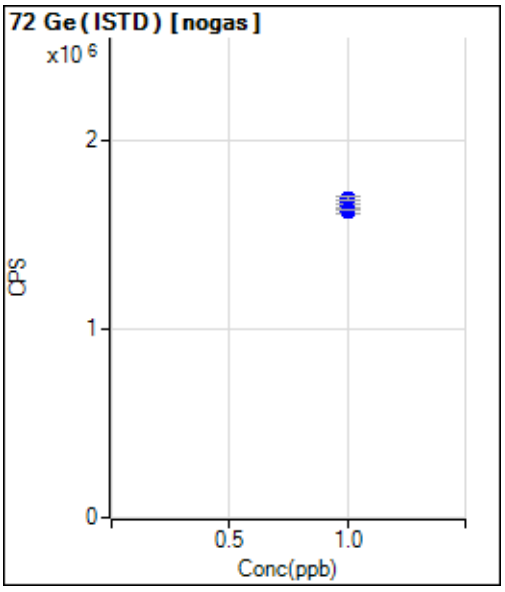
y = 0.0206 * x + 1.8546E-004
R = 0.9999
DL = 0.004806 ppb
BEC = 0.008982 ppb

Weight: <None>
Min Conc: <None>

Calibration for 021_ICV.d

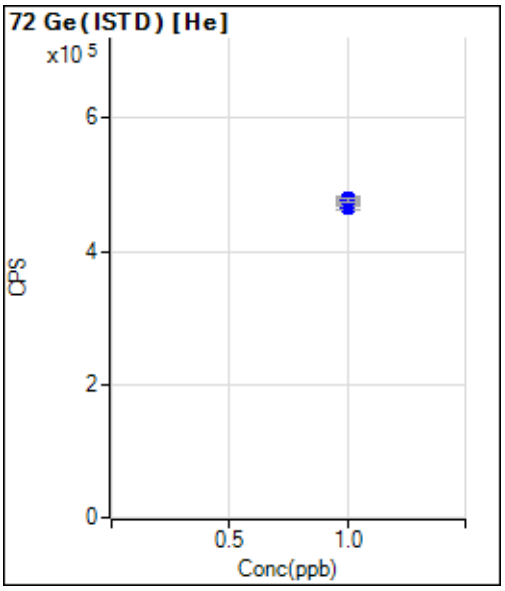


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		967339.16		P	0.6	
2	☐	1.000		966245.86		P	1.2	
3	☐	1.000		958484.46		P	1.1	
4	☐	1.000		965836.18		P	0.2	
5	☐	1.000		931278.40		P	0.7	
6	☐	1.000		873264.98		P	0.4	
7	☐	1.000						

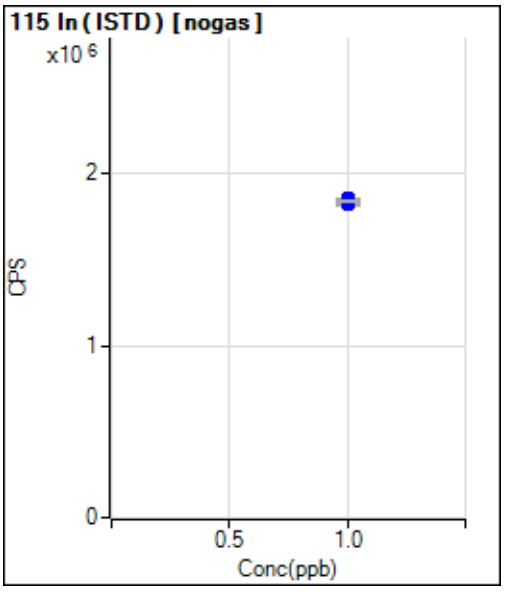


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1618408.42		P	1.5	
2	☐	1.000		1636078.57		P	0.5	
3	☐	1.000		1628825.76		P	0.5	
4	☐	1.000		1645082.06		P	1.4	
5	☐	1.000		1673132.48		P	1.2	
6	☐	1.000		1690038.31		P	0.7	
7	☐	1.000						

Calibration for 021_ICV.d

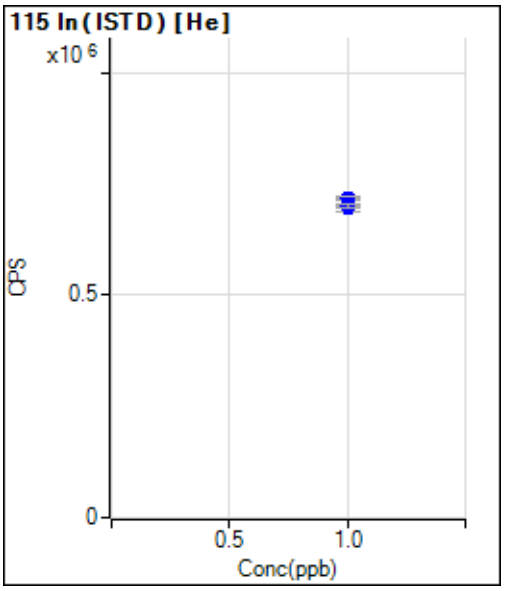


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		465764.03		P	1.1	
2	☐	1.000		470467.93		P	0.4	
3	☐	1.000		479845.34		P	1.1	
4	☐	1.000		479069.47		P	1.5	
5	☐	1.000		479231.50		P	0.8	
6	☐	1.000		476707.34		P	1.1	
7	☐	1.000						

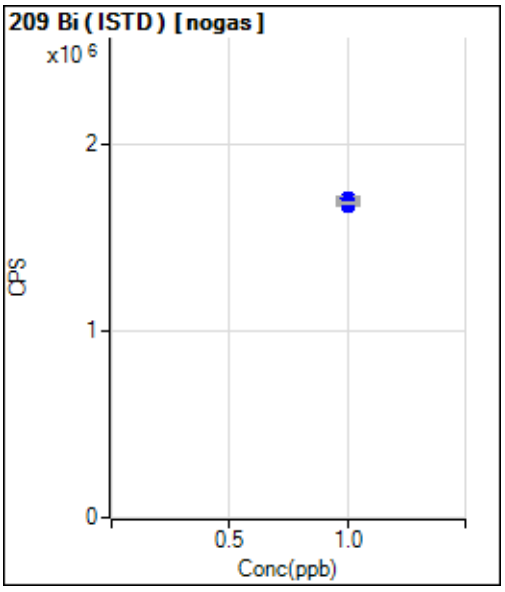


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1821198.24		P	1.2	
2	☐	1.000		1836283.12		P	1.2	
3	☐	1.000		1833513.71		P	0.6	
4	☐	1.000		1850296.35		P	1.0	
5	☐	1.000		1856596.07		P	0.4	
6	☐	1.000		1838617.27		P	0.3	
7	☐	1.000						

Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		697773.09		P	2.4	
2	☐	1.000		701008.83		P	0.6	
3	☐	1.000		715216.24		P	0.7	
4	☐	1.000		718144.93		P	1.0	
5	☐	1.000		703617.92		P	0.8	
6	☐	1.000		699074.91		P	1.2	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1671347.53		P	0.2	
2	☐	1.000		1676189.66		P	1.3	
3	☐	1.000		1692910.70		P	1.9	
4	☐	1.000		1704058.15		P	0.2	
5	☐	1.000		1709719.56		P	1.4	
6	☐	1.000		1684807.63		P	0.2	
7	☐	1.000						

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	011CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T09:55:15-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	97	6.18
B	11	1	nogas	18646	0.01
Al	27	1	nogas	36347	0.01
P	31	1	nogas	31215	0.01
Ti	47	1	nogas	130	23.67
Ni	60	1	nogas	247	5.02
Cu	63	1	nogas	1173	0.33
Zn	66	1	nogas	2240	0.43
Se	77	1	nogas	3947	0.35
Se	82	1	nogas	187	13.56
Sr	88	1	nogas	560	3.37
Mo	95	1	nogas	260	11.83
Ag	107	1	nogas	117	22.45
Cd	111	1	nogas	6	1569.78
Sn	118	1	nogas	2494	0.38
Sb	121	1	nogas	1260	0.29
Ba	137	1	nogas	107	30.87
Tl	205	1	nogas	280	2.21
Pb	208	1	nogas	1073	0.28
Li	7	1	nogas	70314	0.00
Na	23	2	He	33530	0.01
Mg	24	2	He	650	2.26
Al	27	2	He	1413	0.63
K	39	2	He	63124	0.00
Ca	43	2	He	17	207.85
Ca	44	2	He	717	2.08
V	51	2	He	2070	0.54
Cr	52	2	He	8212	0.08
Mn	55	2	He	320	4.26
Fe	56	2	He	10834	0.04
Co	59	2	He	103	14.31
Ni	60	2	He	130	35.99
Cu	63	2	He	487	2.33
Zn	66	2	He	793	0.82
As	75	2	He	147	1.55
Sb	121	2	He	593	1.85
Se	78	2	He	65	12.04

Calibration Blank Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Ge	72	1	nogas	1618408	1.51
In	115	1	nogas	1821198	1.20

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	nogas	967339	0.58
Bi	209	1	nogas	1671348	0.24
Ge	72	2	He	465764	1.11
In	115	2	He	697773	2.35

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T09:57:22-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	011CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	10230	0.03
B	11	1	nogas	47225	0.00
Al	27	1	nogas	59549	0.00
P	31	1	nogas	32358	0.01
Ti	47	1	nogas	2917	0.13
Ni	60	1	nogas	8219	0.01
Cu	63	1	nogas	19603	0.02
Zn	66	1	nogas	7442	0.04
Se	77	1	nogas	4137	0.12
Se	82	1	nogas	507	3.51
Sr	88	1	nogas	42622	0.01
Mo	95	1	nogas	9110	0.04
Ag	107	1	nogas	22795	0.00
Cd	111	1	nogas	4417	0.13
Sn	118	1	nogas	14801	0.01
Sb	121	1	nogas	20024	0.02
Ba	137	1	nogas	6952	0.07
Tl	205	1	nogas	41737	0.00
Pb	208	1	nogas	59622	0.00
Na	23	2	He	312321	0.00
Mg	24	2	He	159855	0.00
Al	27	2	He	2260	0.35
K	39	2	He	223240	0.00
Ca	43	2	He	503	0.60
Ca	44	2	He	8513	0.02
V	51	2	He	12583	0.02
Cr	52	2	He	19686	0.01
Mn	55	2	He	8659	0.02
Fe	56	2	He	1018526	0.00
Co	59	2	He	15081	0.01
Ni	60	2	He	3874	0.11
Cu	63	2	He	9787	0.03
Zn	66	2	He	2824	0.26
As	75	2	He	1589	0.35
Sb	121	2	He	8222	0.03
Se	78	2	He	200	6.06

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	1636079	0.50	1618408	101.09	70	120	
In	115	1	nogas	1836283	1.21	1821198	100.83	70	120	
Li	6	1	nogas	966246	1.17	967339	99.89	70	120	
Bi	209	1	nogas	1676190	1.27	1671348	100.29	70	120	
Ge	72	2	He	470468	0.37	465764	101.01	70	120	
In	115	2	He	701009	0.59	697773	100.46	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T09:59:32-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	011CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	25850	0.01
B	11	1	nogas	92551	0.00
Al	27	1	nogas	100617	0.00
P	31	1	nogas	33928	0.00
Ti	47	1	nogas	6535	0.11
Ni	60	1	nogas	20267	0.03
Cu	63	1	nogas	49104	0.00
Zn	66	1	nogas	16296	0.03
Se	77	1	nogas	4631	0.12
Se	82	1	nogas	1100	0.95
Sr	88	1	nogas	106724	0.00
Mo	95	1	nogas	22394	0.01
Ag	107	1	nogas	57303	0.00
Cd	111	1	nogas	11047	0.04
Sn	118	1	nogas	38703	0.04
Sb	121	1	nogas	46953	0.00
Ba	137	1	nogas	16710	0.02
Tl	205	1	nogas	107528	0.00
Pb	208	1	nogas	148533	0.00
Na	23	2	He	728884	0.00
Mg	24	2	He	400062	0.00
Al	27	2	He	4254	0.18
K	39	2	He	466594	0.00
Ca	43	2	He	1173	0.43
Ca	44	2	He	20584	0.01
V	51	2	He	26394	0.01
Cr	52	2	He	36705	0.00
Mn	55	2	He	21239	0.01
Fe	56	2	He	2560207	0.00
Co	59	2	He	38593	0.01
Ni	60	2	He	9637	0.04
Cu	63	2	He	25218	0.00
Zn	66	2	He	5928	0.07
As	75	2	He	3914	0.04
Sb	121	2	He	20261	0.00
Se	78	2	He	378	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	1628826	0.52	1618408	100.64	70	120	
In	115	1	nogas	1833514	0.57	1821198	100.68	70	120	
Li	6	1	nogas	958484	1.11	967339	99.08	70	120	
Bi	209	1	nogas	1692911	1.91	1671348	101.29	70	120	
Ge	72	2	He	479845	1.08	465764	103.02	70	120	
In	115	2	He	715216	0.71	697773	102.50	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/1000
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T10:01:40-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	011CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	51134	0.00
B	11	1	nogas	171414	0.00
Al	27	1	nogas	169397	0.00
P	31	1	nogas	37042	0.01
Ti	47	1	nogas	13189	0.03
Ni	60	1	nogas	41184	0.01
Cu	63	1	nogas	97878	0.00
Zn	66	1	nogas	30284	0.01
Se	77	1	nogas	5194	0.08
Se	82	1	nogas	1853	0.12
Sr	88	1	nogas	216755	0.00
Mo	95	1	nogas	46721	0.00
Ag	107	1	nogas	117733	0.00
Cd	111	1	nogas	22581	0.02
Sn	118	1	nogas	69678	0.00
Sb	121	1	nogas	95519	0.00
Ba	137	1	nogas	34769	0.00
Tl	205	1	nogas	215417	0.00
Pb	208	1	nogas	299412	0.00
Na	23	2	He	1454467	0.00
Mg	24	2	He	816737	0.00
Al	27	2	He	6288	0.03
K	39	2	He	885693	0.00
Ca	43	2	He	2304	0.60
Ca	44	2	He	40732	0.01
V	51	2	He	52408	0.00
Cr	52	2	He	66225	0.00
Mn	55	2	He	44824	0.00
Fe	56	2	He	5441190	0.00
Co	59	2	He	75449	0.00
Ni	60	2	He	19446	0.01
Cu	63	2	He	49679	0.00
Zn	66	2	He	11508	0.01
As	75	2	He	8030	0.04
Sb	121	2	He	39992	0.01
Se	78	2	He	811	0.42

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	1645082	1.43	1618408	101.65	70	120	
In	115	1	nogas	1850296	1.04	1821198	101.60	70	120	
Li	6	1	nogas	965836	0.23	967339	99.84	70	120	
Bi	209	1	nogas	1704058	0.22	1671348	101.96	70	120	
Ge	72	2	He	479069	1.46	465764	102.86	70	120	
In	115	2	He	718145	1.04	697773	102.92	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T10:03:47-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	011CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	531175	0.00
B	11	1	nogas	1615318	0.00
Al	27	1	nogas	1395196	0.00
P	31	1	nogas	75000	0.00
Ti	47	1	nogas	137314	0.00
Ni	60	1	nogas	408113	0.00
Cu	63	1	nogas	983711	0.00
Zn	66	1	nogas	292103	0.00
Se	77	1	nogas	15805	0.03
Se	82	1	nogas	15875	0.04
Sr	88	1	nogas	2233774	0.00
Mo	95	1	nogas	479529	0.00
Ag	107	1	nogas	1186065	0.00
Cd	111	1	nogas	228251	0.00
Sn	118	1	nogas	703367	0.00
Sb	121	1	nogas	996493	0.00
Ba	137	1	nogas	354274	0.00
Tl	205	1	nogas	2220111	0.00
Pb	208	1	nogas	3060893	0.00
Na	23	2	He	14690716	0.00
Mg	24	2	He	8353225	0.00
Al	27	2	He	51102	0.00
K	39	2	He	8842404	0.00
Ca	43	2	He	24049	0.01
Ca	44	2	He	405940	0.00
V	51	2	He	513895	0.00
Cr	52	2	He	591203	0.00
Mn	55	2	He	444438	0.00
Fe	56	2	He	53632991	0.00
Co	59	2	He	774090	0.00
Ni	60	2	He	192664	0.00
Cu	63	2	He	493127	0.00
Zn	66	2	He	109538	0.00
As	75	2	He	78705	0.00
Sb	121	2	He	410710	0.00
Se	78	2	He	7310	0.02

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	1673132	1.19	1618408	103.38	70	120	
In	115	1	nogas	1856596	0.36	1821198	101.94	70	120	
Li	6	1	nogas	931278	0.70	967339	96.27	70	120	
Bi	209	1	nogas	1709720	1.41	1671348	102.30	70	120	
Ge	72	2	He	479232	0.79	465764	102.89	70	120	
In	115	2	He	703618	0.75	697773	100.84	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	016CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T10:05:52-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	011CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	1033274	0.00
B	11	1	nogas	3223911	0.00
Al	27	1	nogas	2699526	0.00
P	31	1	nogas	115408	0.00
Ti	47	1	nogas	268595	0.00
Ni	60	1	nogas	798539	0.00
Cu	63	1	nogas	1909152	0.00
Zn	66	1	nogas	554716	0.00
Se	77	1	nogas	27887	0.01
Se	82	1	nogas	31227	0.01
Sr	88	1	nogas	4439862	0.00
Mo	95	1	nogas	972876	0.00
Ag	107	1	nogas	2339936	0.00
Cd	111	1	nogas	450318	0.00
Sn	118	1	nogas	1404732	0.00
Sb	121	1	nogas	1977213	0.00
Ba	137	1	nogas	698410	0.00
Tl	205	1	nogas	4387591	0.00
Pb	208	1	nogas	6020007	0.00
Na	23	2	He	28926821	0.00
Mg	24	2	He	16290940	0.00
Al	27	2	He	99752	0.00
K	39	2	He	17146550	0.00
Ca	43	2	He	47281	0.00
Ca	44	2	He	795961	0.00
V	51	2	He	1017626	0.00
Cr	52	2	He	1155851	0.00
Mn	55	2	He	868104	0.00
Fe	56	2	He	105829362	0.00
Co	59	2	He	1504871	0.00
Ni	60	2	He	373882	0.00
Cu	63	2	He	950394	0.00
Zn	66	2	He	205896	0.00
As	75	2	He	153932	0.00
Sb	121	2	He	809987	0.00
Se	78	2	He	14682	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	1690038	0.74	1618408	104.43	70	120	
In	115	1	nogas	1838617	0.26	1821198	100.96	70	120	
Li	6	1	nogas	873265	0.42	967339	90.27	70	120	
Bi	209	1	nogas	1684808	0.17	1671348	100.81	70	120	
Ge	72	2	He	476707	1.13	465764	102.35	70	120	
In	115	2	He	699075	1.15	697773	100.19	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	021_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T10:25:28-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	97.121	0.513	528574	1.80	100	97.1	90	110	
B	11	1	nogas	477.219	1.399	1620129	2.08	500	95.4	90	110	
Al	27	1	nogas	101.752	0.664	1399443	1.55	100	101.8	90	110	
P	31	1	nogas	513.873	2.315	75505	2.60	500	102.8	90	110	
Ti	47	1	nogas	102.165	0.844	138057	0.73	100	102.2	90	110	
Ni	60	1	nogas	101.465	1.189	407634	1.82	100	101.5	90	110	
Cu	63	1	nogas	102.159	0.712	983118	2.01	100	102.2	90	110	
Zn	66	1	nogas	104.033	1.109	292958	2.33	100	104.0	90	110	
Se	77	1	nogas	100.273	1.945	16019	0.90	100	100.3	90	110	
Se	82	1	nogas	104.895	2.424	16529	1.81	100	104.9	90	110	
Sr	88	1	nogas	99.844	0.570	2246162	1.30	100	99.8	90	110	
Mo	95	1	nogas	98.584	0.785	484047	1.61	100	98.6	90	110	
Ag	107	1	nogas	99.674	1.253	1183540	1.78	100	99.7	90	110	
Cd	111	1	nogas	99.959	1.517	228434	2.46	100	100.0	90	110	
Sn	118	1	nogas	98.914	0.596	704327	1.11	100	98.9	90	110	
Sb	121	1	nogas	99.483	0.679	986884	1.55	100	99.5	90	110	
Ba	137	1	nogas	99.150	0.555	351474	1.42	100	99.2	90	110	
Tl	205	1	nogas	99.664	0.900	2202820	1.36	100	99.7	90	110	
Pb	208	1	nogas	98.658	1.012	2995098	1.41	100	98.7	90	110	
U	238	1	nogas	96.651	1.505	3389868	1.98	100	96.7	90	110	
Li	7	1	nogas	97.137	0.708	1709099	1.01	100	97.1	90	110	
Ba	135	1	nogas	98.729	1.088	197437	2.06	100	98.7	90	110	
Tl	203	1	nogas	99.618	1.648	909500	2.15	100	99.6	90	110	
Na	23	2	He	10155.898	1.466	14777788	0.54	10000	101.6	90	110	
Mg	24	2	He	10324.495	2.330	8469306	1.19	10000	103.2	90	110	
Al	27	2	He	102.474	1.573	52025	0.66	100	102.5	90	110	
K	39	2	He	10294.027	3.294	8920513	2.17	10000	102.9	90	110	
Ca	43	2	He	10393.320	1.451	24714	1.21	10000	103.9	90	110	
Ca	44	2	He	10229.122	1.123	409858	0.51	10000	102.3	90	110	
V	51	2	He	101.346	2.494	518514	1.30	100	101.3	90	110	
Cr	52	2	He	101.305	2.042	592638	0.81	100	101.3	90	110	
Mn	55	2	He	100.916	1.364	441158	0.14	100	100.9	90	110	
Fe	56	2	He	10196.773	2.008	54215703	1.09	10000	102.0	90	110	
Co	59	2	He	101.862	2.247	772413	1.09	100	101.9	90	110	
Ni	60	2	He	102.040	1.993	192368	0.82	100	102.0	90	110	
Cu	63	2	He	101.579	2.463	487493	1.32	100	101.6	90	110	
Zn	66	2	He	103.727	2.531	108676	1.52	100	103.7	90	110	
As	75	2	He	101.938	0.851	79040	0.52	100	101.9	90	110	
Sb	121	2	He	100.900	1.830	410840	0.61	100	100.9	90	110	
Se	78	2	He	103.308	0.769	7619	1.97	100	103.3	90	110	
Ti	47	2	He	101.945	2.618	22594	1.59	100	101.9	90	110	
Zr	90	1	nogas	98.364	1.669	1541852	2.64	100	98.4	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1688943	1.42	1618408	104.36	70	120	
In	115	1	nogas	1864502	0.99	1821198	102.38	70	120	
Li	6	1	nogas	926700	1.31	967339	95.80	70	120	
Bi	209	1	nogas	1698326	0.51	1671348	101.61	70	120	
Ge	72	2	He	478227	1.23	465764	102.68	70	120	

Initial Calibration Verification (ICV) Report

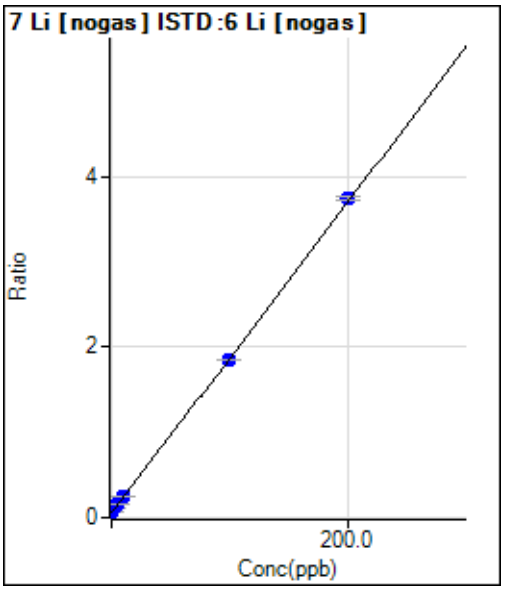
In	115	2	He	714327	0.34	697773	102.37	70	120	

Calibration for 021_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\070524A.b\
Analysis File: 070524A.batch.bin
DA Date-Time: 7/6/2024 10:31:27 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	011CALB.d	CAL BLK	7/5/2024 9:55:15 AM
2	012CALS.d	2/10/200	7/5/2024 9:57:22 AM
3	013CALS.d	5/25/500	7/5/2024 9:59:32 AM
4	014CALS.d	10/50/1000	7/5/2024 10:01:40 AM
5	015CALS.d	100/500/10K	7/5/2024 10:03:47 AM
6	016CALS.d	200/1000/20K	7/5/2024 10:05:52 AM
7			

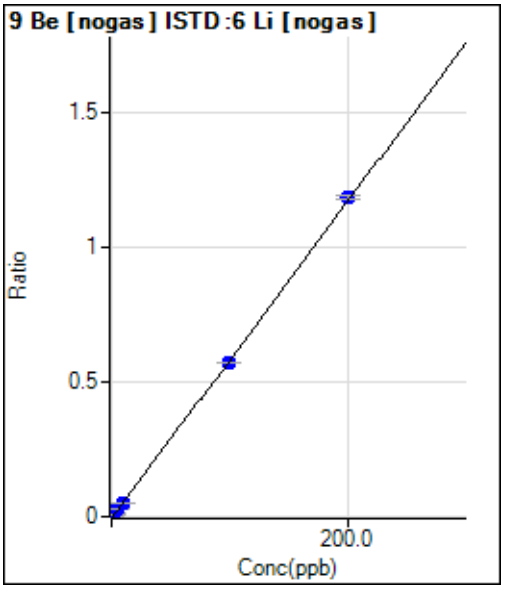
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70314.06	0.0727	P	0.5	
2	☐	2.000	1.876	103295.55	0.1069	P	0.4	-6.2
3	☐	5.000	4.588	149868.10	0.1564	P	0.8	-8.2
4	☐	10.000	9.179	231893.77	0.2401	P	0.1	-8.2
5	☐	100.000	97.013	1715509.30	1.8421	P	0.1	-3.0
6	☐	200.000	201.546	3273523.08	3.7487	P	0.6	0.8
7	☐	1.000						

y = 0.0182 * x + 0.0727
R = 0.9998
DL = 0.05967 ppb
BEC = 3.985 ppb

Weight: <None>
Min Conc: <None>

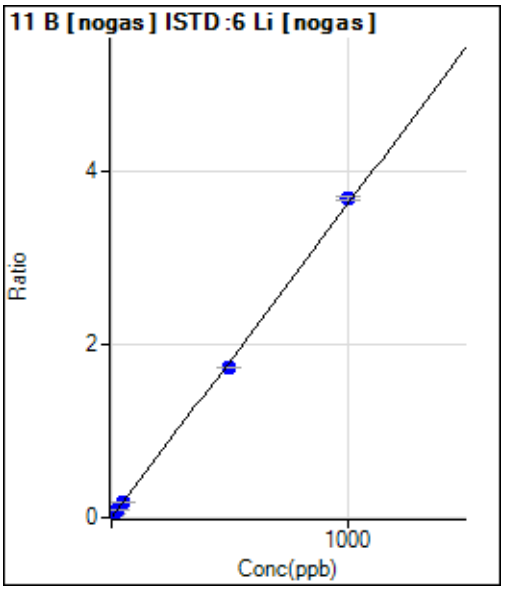


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	6.5	
2	☐	2.000	1.786	10230.13	0.0106	P	2.7	-10.7
3	☐	5.000	4.577	25849.84	0.0270	P	2.7	-8.5
4	☐	10.000	9.000	51133.57	0.0529	P	1.4	-10.0
5	☐	100.000	97.120	531175.09	0.5704	P	0.6	-2.9
6	☐	200.000	201.503	1033273.79	1.1833	P	0.7	0.8
7	☐	1.000						

y = 0.0059 * x + 9.9952E-005
R = 0.9999
DL = 0.003295 ppb
BEC = 0.01702 ppb

Weight: <None>
Min Conc: <None>

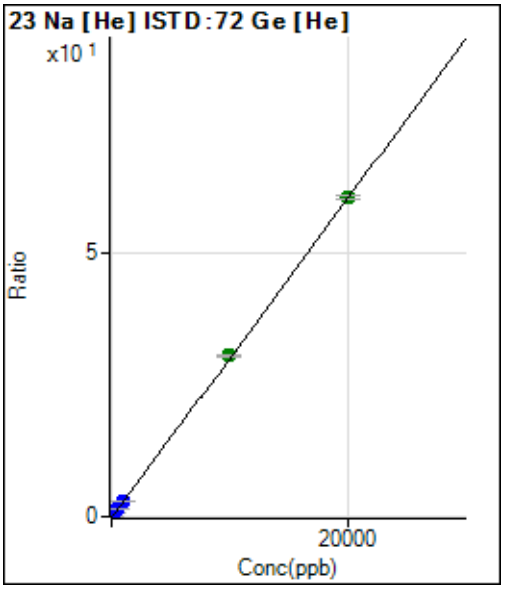
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18646.25	0.0193	P	1.1	
2	☐	10.000	8.171	47224.78	0.0489	P	2.1	-18.3
3	☐	25.000	21.334	92551.37	0.0966	P	1.1	-14.7
4	☐	50.000	43.666	171413.55	0.1775	P	1.5	-12.7
5	☐	500.000	473.414	1615318.41	1.7344	P	0.9	-5.3
6	☐	1000.000	1013.720	3223910.99	3.6920	P	1.7	1.4
7	☐	5.000						

y = 0.0036 * x + 0.0193
R = 0.9995
DL = 0.1706 ppb
BEC = 5.32 ppb

Weight: <None>
Min Conc: <None>

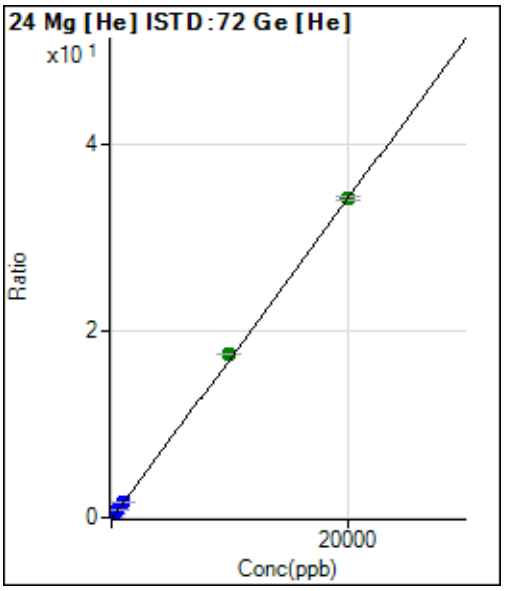


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33530.00	0.0720	P	2.5	
2	☐	200.000	194.953	312321.38	0.6638	P	0.2	-2.5
3	☐	500.000	476.644	728884.42	1.5190	P	0.4	-4.7
4	☐	1000.000	976.408	1454466.75	3.0363	P	1.3	-2.4
5	☐	10000.00	10073.15	14690716.45	30.6535	A	0.9	0.7
6	☐	20000.00	19965.23	28926821.24	60.6853	A	1.1	-0.2
7	☐	100.000						

y = 0.0030 * x + 0.0720
R = 1.0000
DL = 1.812 ppb
BEC = 23.71 ppb

Weight: <None>
Min Conc: <None>

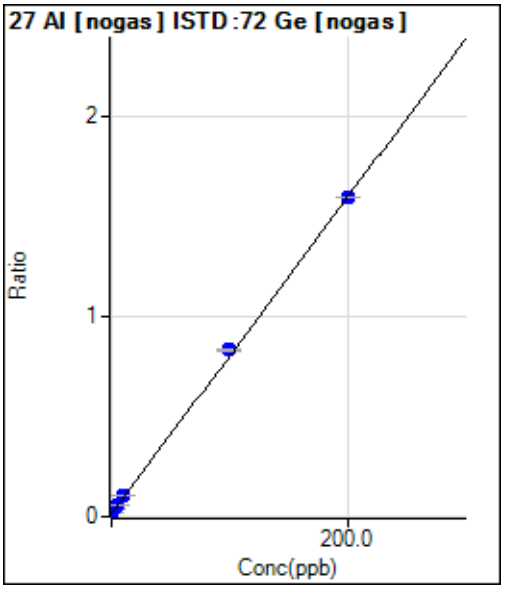
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0014	P	13.6	
2	☐	200.000	197.259	159854.54	0.3398	P	2.0	-1.4
3	☐	500.000	485.191	400062.05	0.8337	P	0.2	-3.0
4	☐	1000.000	993.120	816736.94	1.7051	P	1.6	-0.7
5	☐	10000.00	10159.62	8353225.29	17.4303	A	0.2	1.6
6	☐	20000.00	19920.93	16290939.76	34.1758	A	0.8	-0.4
7	☐	100.000						

y = 0.0017 * x + 0.0014
R = 1.0000
DL = 0.3321 ppb
BEC = 0.8127 ppb

Weight: <None>
Min Conc: <None>

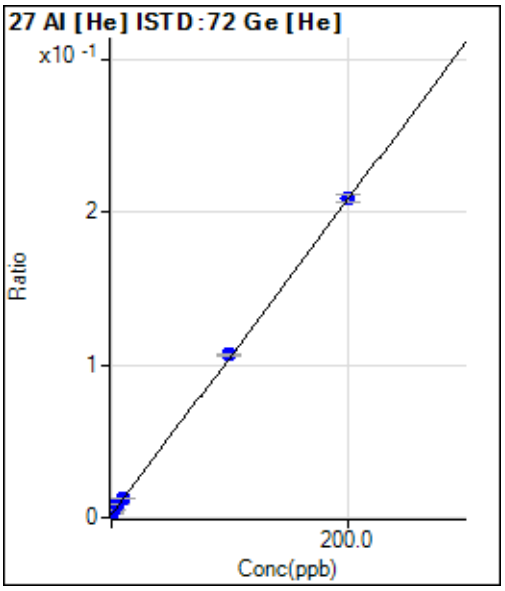


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36346.67	0.0225	P	2.7	
2	☐	2.000	1.759	59548.71	0.0364	P	1.2	-12.1
3	☐	5.000	4.962	100616.87	0.0618	P	0.8	-0.8
4	☐	10.000	10.164	169397.06	0.1030	P	1.6	1.6
5	☐	100.000	102.425	1395195.81	0.8339	P	0.9	2.4
6	☐	200.000	198.783	2699526.21	1.5973	P	0.5	-0.6
7	☐	1.000						

y = 0.0079 * x + 0.0225
R = 0.9999
DL = 0.2276 ppb
BEC = 2.835 ppb

Weight: <None>
Min Conc: <None>

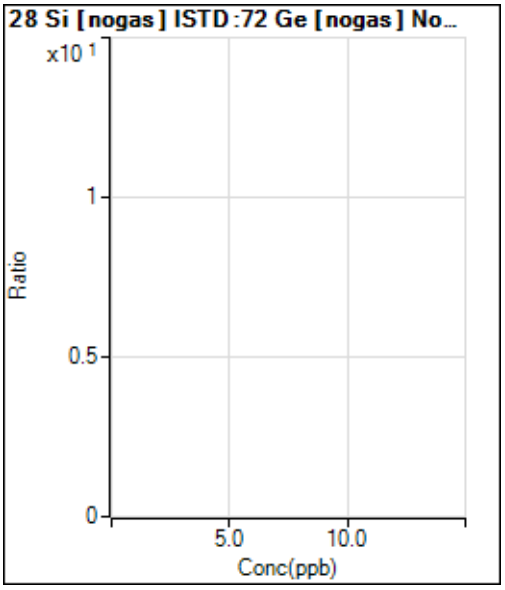
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1413.43	0.0030	P	8.6	
2	☐	2.000	1.714	2260.20	0.0048	P	7.6	-14.3
3	☐	5.000	5.654	4253.99	0.0089	P	8.8	13.1
4	☐	10.000	9.778	6288.07	0.0131	P	1.5	-2.2
5	☐	100.000	100.377	51101.65	0.1066	P	1.0	0.4
6	☐	200.000	199.809	99751.83	0.2093	P	1.9	-0.1
7	☐	1.000						

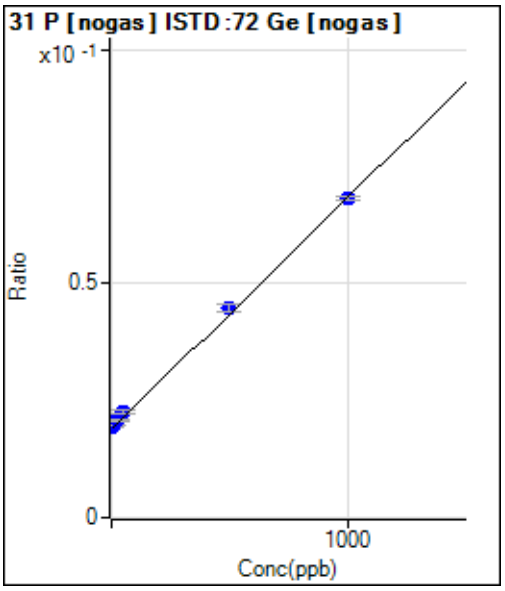
y = 0.0010 * x + 0.0030
R = 1.0000
DL = 0.76 ppb
BEC = 2.94 ppb

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						

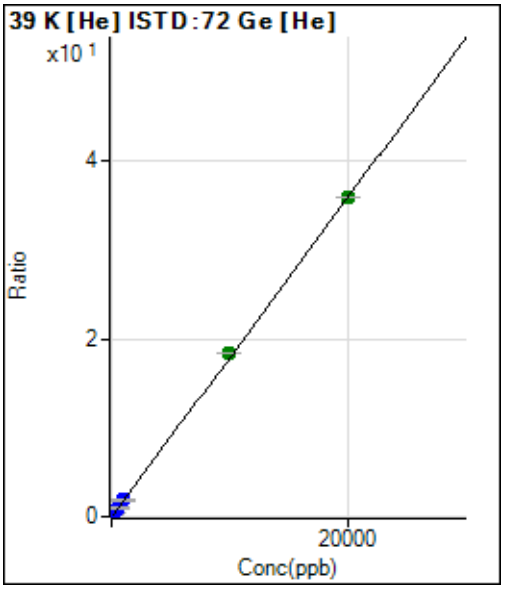
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	31215.34	0.0193	P	0.7	
2	☐	10.000	9.910	32357.79	0.0198	P	1.6	-0.9
3	☐	25.000	31.186	33927.92	0.0208	P	0.8	24.7
4	☐	50.000	65.491	37041.74	0.0225	P	4.4	31.0
5	☐	500.000	516.429	75000.16	0.0448	P	3.0	3.3
6	☐	1000.000	990.857	115407.95	0.0683	P	1.1	-0.9
7	☐	5.000						

y = 4.9456E-005 * x + 0.0193
R = 0.9997
DL = 8.487 ppb
BEC = 390 ppb

Weight: <None>
Min Conc: <None>

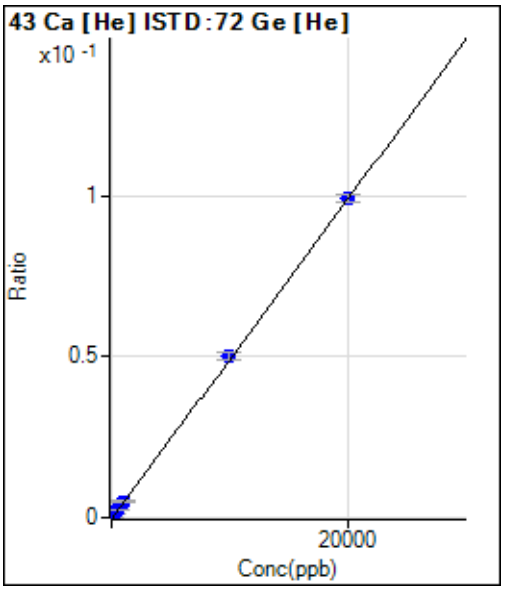


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63124.10	0.1355	P	1.3	
2	☐	200.000	188.386	223239.54	0.4745	P	0.7	-5.8
3	☐	500.000	465.099	466594.32	0.9724	P	0.6	-7.0
4	☐	1000.000	952.339	885693.45	1.8491	P	2.1	-4.8
5	☐	10000.00	10179.31	8842404.24	18.4516	A	0.6	1.8
6	☐	20000.00	19913.71	17146549.75	35.9672	A	0.6	-0.4
7	☐	100.000						

y = 0.0018 * x + 0.1355
R = 0.9999
DL = 2.862 ppb
BEC = 75.32 ppb

Weight: <None>
Min Conc: <None>

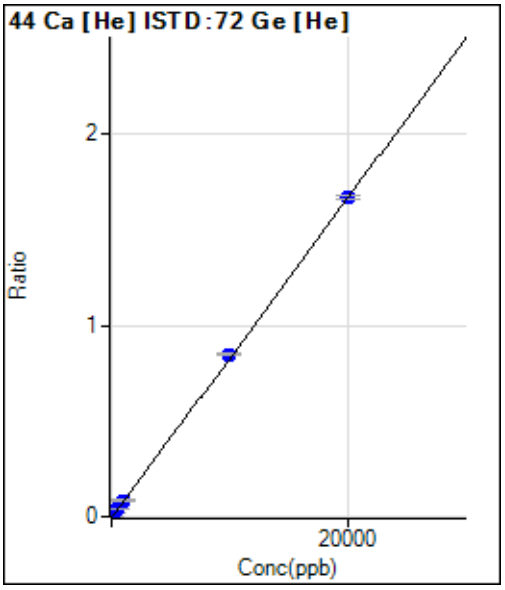
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	35.4	
2	☐	200.000	208.108	503.35	0.0011	P	3.4	4.1
3	☐	500.000	484.988	1173.40	0.0024	P	5.4	-3.0
4	☐	1000.000	959.297	2303.56	0.0048	P	12.4	-4.1
5	☐	10000.00	10093.36	24049.25	0.0502	P	3.8	0.9
6	☐	20000.00	19955.64	47280.55	0.0992	P	2.3	-0.2
7	☐	100.000						

y = 4.9691E-006 * x + 3.5872E-005
R = 1.0000
DL = 7.664 ppb
BEC = 7.219 ppb

Weight: <None>
Min Conc: <None>

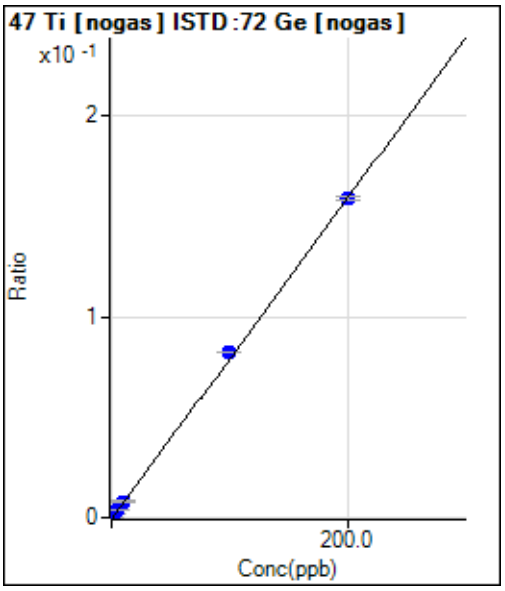


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.70	0.0015	P	13.8	
2	☐	200.000	197.958	8512.50	0.0181	P	2.2	-1.0
3	☐	500.000	494.504	20584.23	0.0429	P	0.7	-1.1
4	☐	1000.000	998.309	40731.56	0.0850	P	3.1	-0.2
5	☐	10000.00	10108.72	405940.46	0.8470	P	0.8	1.1
6	☐	20000.00	19945.88	795961.24	1.6698	P	1.3	-0.3
7	☐	100.000						

y = 8.3641E-005 * x + 0.0015
R = 1.0000
DL = 7.609 ppb
BEC = 18.38 ppb

Weight: <None>
Min Conc: <None>

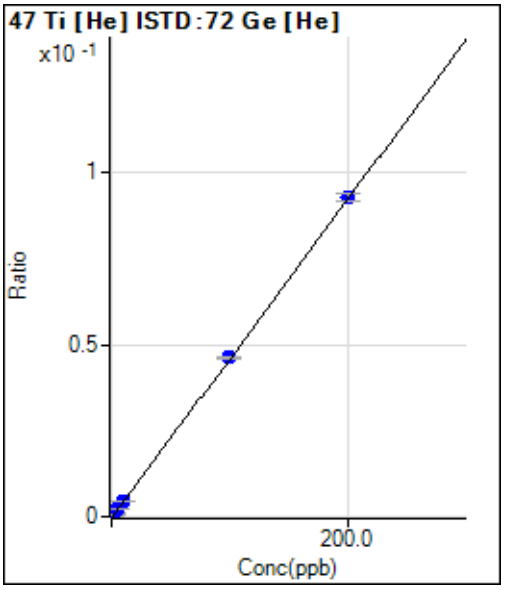
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0001	P	30.0	
2	☐	2.000	2.130	2917.00	0.0018	P	3.9	6.5
3	☐	5.000	4.918	6534.89	0.0040	P	6.7	-1.6
4	☐	10.000	9.928	13189.32	0.0080	P	3.4	-0.7
5	☐	100.000	102.570	137313.69	0.0821	P	0.4	2.6
6	☐	200.000	198.719	268595.35	0.1589	P	1.0	-0.6
7	☐	1.000						

y = 7.9937E-004 * x + 8.0231E-005
R = 0.9999
DL = 0.09019 ppb
BEC = 0.1004 ppb

Weight: <None>
Min Conc: <None>

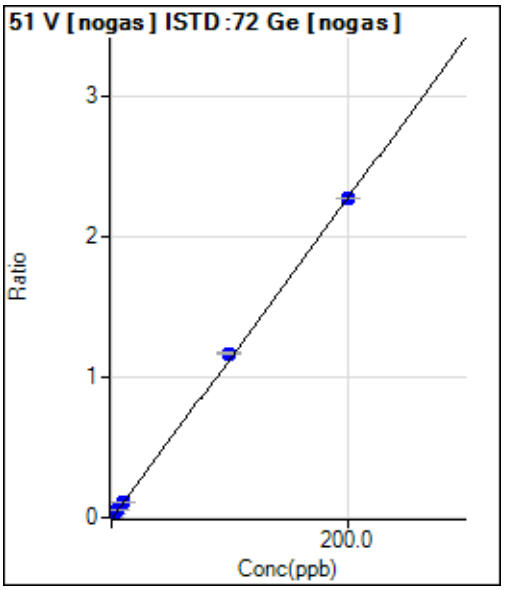


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	125.7	
2	☐	2.000	1.682	383.34	0.0008	P	6.9	-15.9
3	☐	5.000	4.868	1100.06	0.0023	P	10.5	-2.6
4	☐	10.000	9.956	2226.88	0.0046	P	4.0	-0.4
5	☐	100.000	99.582	22119.74	0.0462	P	1.3	-0.4
6	☐	200.000	200.218	44221.25	0.0928	P	1.8	0.1
7	☐	1.000						

y = 4.6317E-004 * x + 3.5987E-005
R = 1.0000
DL = 0.2929 ppb
BEC = 0.0777 ppb

Weight: <None>
Min Conc: <None>

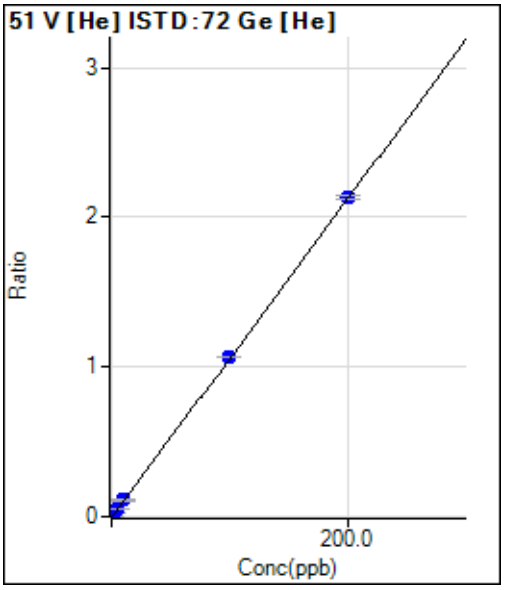
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	738.52	0.0004	P	363.7	
2	☐	2.000	1.890	36047.68	0.0220	P	7.3	-5.5
3	☐	5.000	5.070	95067.60	0.0584	P	3.8	1.4
4	☐	10.000	9.896	186705.59	0.1135	P	1.0	-1.0
5	☐	100.000	102.236	1954673.58	1.1684	P	1.5	2.2
6	☐	200.000	198.886	3840635.03	2.2725	P	0.6	-0.6
7	☐	1.000						

y = 0.0114 * x + 4.4018E-004
R = 0.9999
DL = 0.4204 ppb
BEC = 0.03853 ppb

Weight: <None>
Min Conc: <None>

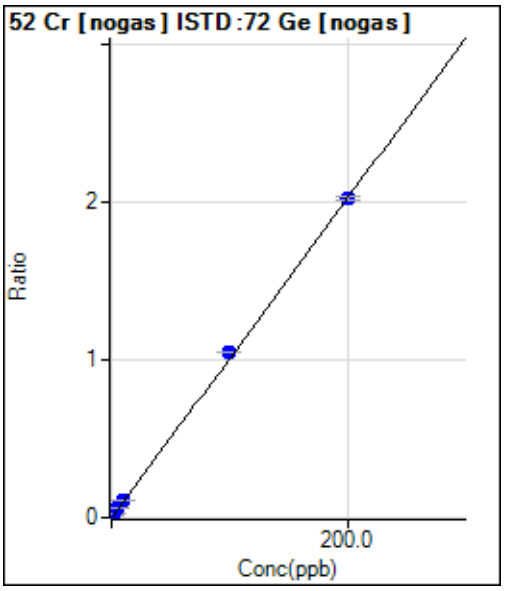


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2069.51	0.0044	P	12.1	
2	☐	2.000	2.092	12582.91	0.0267	P	2.8	4.6
3	☐	5.000	4.744	26393.80	0.0550	P	0.5	-5.1
4	☐	10.000	9.848	52407.60	0.1094	P	2.1	-1.5
5	☐	100.000	100.210	513895.41	1.0723	P	0.3	0.2
6	☐	200.000	199.908	1017625.98	2.1348	P	0.7	0.0
7	☐	1.000						

y = 0.0107 * x + 0.0044
R = 1.0000
DL = 0.1517 ppb
BEC = 0.4173 ppb

Weight: <None>
Min Conc: <None>

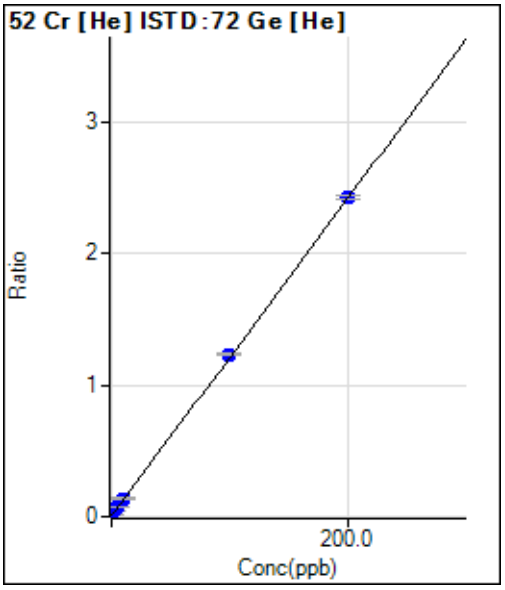
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11688.09	0.0072	P	1.1	
2	☐	2.000	1.977	44629.54	0.0273	P	0.3	-1.1
3	☐	5.000	4.959	93709.96	0.0575	P	1.1	-0.8
4	☐	10.000	10.113	180630.89	0.1098	P	1.7	1.1
5	☐	100.000	102.497	1751755.86	1.0471	P	0.8	2.5
6	☐	200.000	198.747	3419847.76	2.0235	P	1.1	-0.6
7	☐	1.000						

y = 0.0101 * x + 0.0072
R = 0.9999
DL = 0.02359 ppb
BEC = 0.7118 ppb

Weight: <None>
Min Conc: <None>

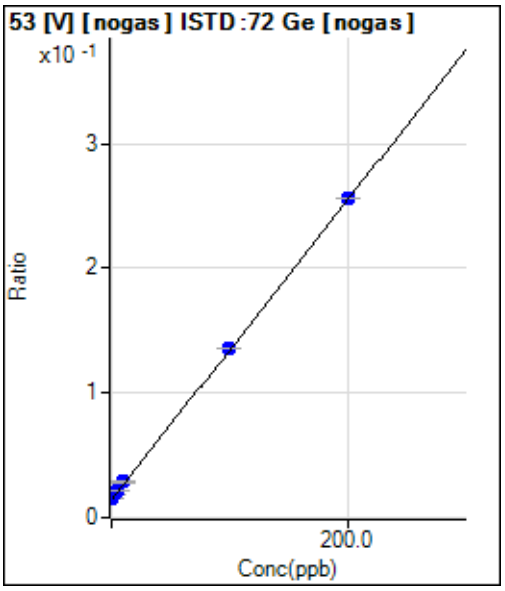


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8212.38	0.0176	P	7.1	
2	☐	2.000	2.007	19686.40	0.0418	P	2.0	0.4
3	☐	5.000	4.880	36704.82	0.0765	P	1.0	-2.4
4	☐	10.000	10.000	66225.04	0.1382	P	2.3	0.0
5	☐	100.000	100.822	591202.90	1.2336	P	0.4	0.8
6	☐	200.000	199.592	1155850.61	2.4249	P	1.1	-0.2
7	☐	1.000						

y = 0.0121 * x + 0.0176
R = 1.0000
DL = 0.3128 ppb
BEC = 1.463 ppb

Weight: <None>
Min Conc: <None>

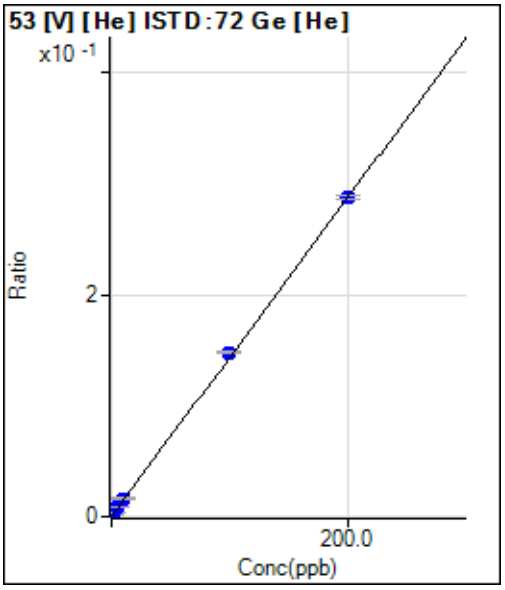
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25381.64	0.0157	P	2.8	
2	☐	2.000	1.964	29532.62	0.0181	P	2.2	-1.8
3	☐	5.000	4.680	34723.66	0.0213	P	1.6	-6.4
4	☐	10.000	10.811	47207.34	0.0287	P	1.7	8.1
5	☐	100.000	100.029	227644.60	0.1361	P	0.7	0.0
6	☐	200.000	199.953	433182.99	0.2563	P	0.6	0.0
7	☐	1.000						

y = 0.0012 * x + 0.0157
R = 1.0000
DL = 1.11 ppb
BEC = 13.03 ppb

Weight: <None>
Min Conc: <None>

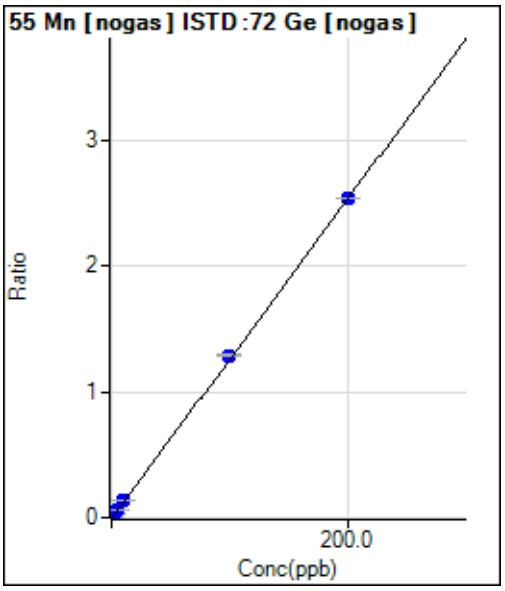


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	823.37	0.0018	P	6.3	
2	☐	2.000	1.665	1956.83	0.0042	P	5.1	-16.8
3	☐	5.000	5.103	4367.37	0.0091	P	1.1	2.1
4	☐	10.000	10.234	7892.18	0.0165	P	2.2	2.3
5	☐	100.000	101.714	70912.72	0.1480	P	1.4	1.7
6	☐	200.000	199.132	137276.40	0.2880	P	1.4	-0.4
7	☐	1.000						

y = 0.0014 * x + 0.0018
R = 0.9999
DL = 0.232 ppb
BEC = 1.229 ppb

Weight: <None>
Min Conc: <None>

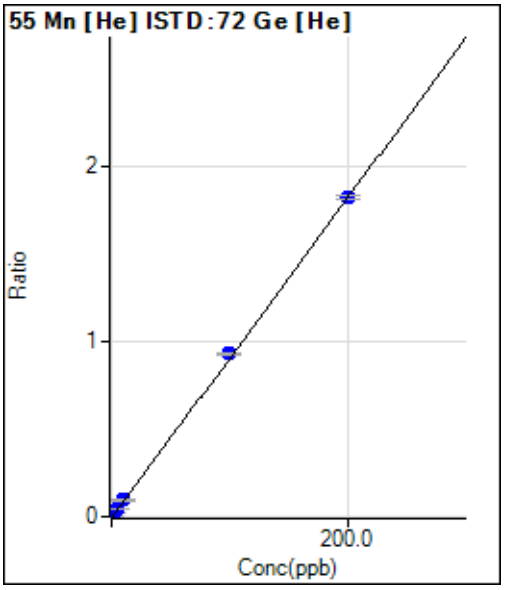
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4784.19	0.0030	P	5.2	
2	☐	2.000	1.976	46043.72	0.0281	P	1.9	-1.2
3	☐	5.000	5.010	108816.47	0.0668	P	1.2	0.2
4	☐	10.000	10.125	217152.02	0.1320	P	1.1	1.3
5	☐	100.000	101.248	2163714.71	1.2932	P	1.1	1.2
6	☐	200.000	199.370	4298971.50	2.5437	P	0.3	-0.3
7	☐	1.000						

y = 0.0127 * x + 0.0030
R = 1.0000
DL = 0.03649 ppb
BEC = 0.232 ppb

Weight: <None>
Min Conc: <None>

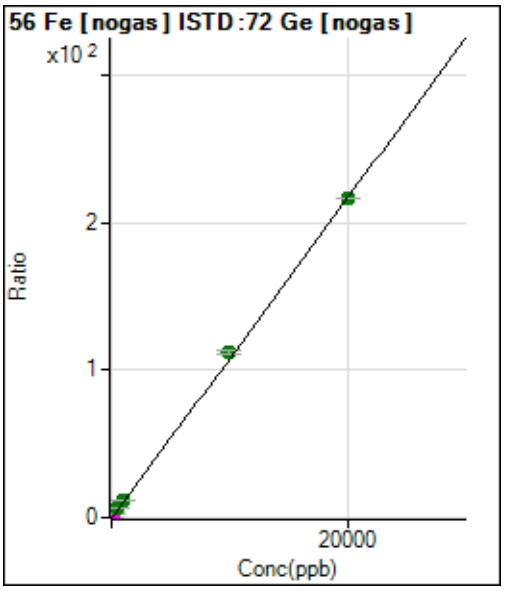


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	320.01	0.0007	P	13.9	
2	☐	2.000	1.940	8659.30	0.0184	P	1.6	-3.0
3	☐	5.000	4.770	21238.61	0.0443	P	1.6	-4.6
4	☐	10.000	10.166	44823.67	0.0936	P	1.3	1.7
5	☐	100.000	101.444	444438.31	0.9274	P	0.4	1.4
6	☐	200.000	199.276	868103.56	1.8212	P	0.9	-0.4
7	☐	1.000						

y = 0.0091 * x + 6.8731E-004
R = 1.0000
DL = 0.03146 ppb
BEC = 0.07524 ppb

Weight: <None>
Min Conc: <None>

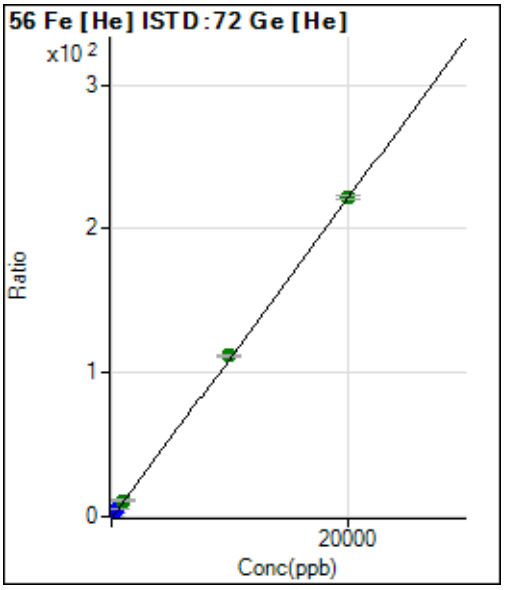
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	763172.83	0.4716	P	1.9	
2	☐	200.000	201.812	4361504.10	2.6659	M	1.9	0.9
3	☐	500.000	517.006	9924462.14	6.0929	A	1.6	3.4
4	☐	1000.000	1033.053	19250869.29	11.7037	A	1.5	3.3
5	☐	10000.00	10265.95	187522630.5	112.090	A	1.5	2.7
6	☐	20000.00	19864.92	365812154.5	216.456	A	0.4	-0.7
7	☐	100.000						

y = 0.0109 * x + 0.4716
R = 0.9999
DL = 2.424 ppb
BEC = 43.38 ppb

Weight: <None>
Min Conc: <None>

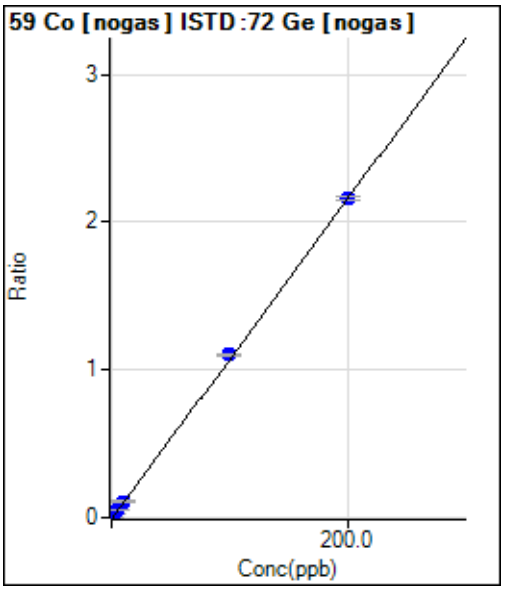


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10834.10	0.0233	P	4.5	
2	☐	200.000	192.641	1018525.50	2.1649	P	0.7	-3.7
3	☐	500.000	477.855	2560207.04	5.3358	P	0.8	-4.4
4	☐	1000.000	1019.603	5441189.71	11.3586	A	0.7	2.0
5	☐	10000.00	10064.14	53632990.87	111.910	A	1.3	0.6
6	☐	20000.00	19967.57	105829361.7	222.010	A	1.3	-0.2
7	☐	100.000						

y = 0.0111 * x + 0.0233
R = 1.0000
DL = 0.2852 ppb
BEC = 2.092 ppb

Weight: <None>
Min Conc: <None>

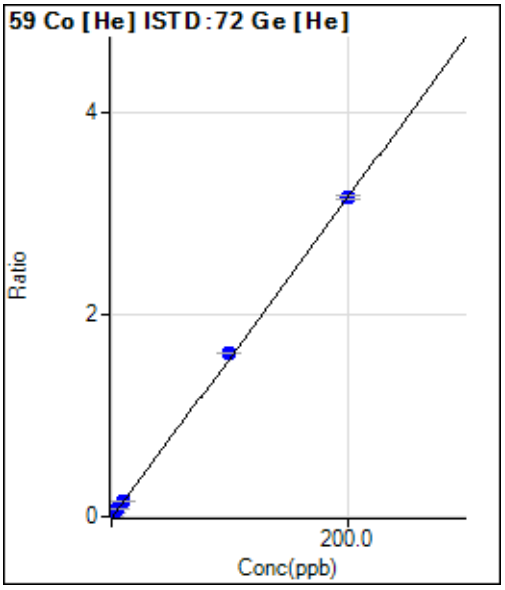
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	35.3	
2	☐	2.000	2.016	35976.65	0.0220	P	3.7	0.8
3	☐	5.000	4.994	88428.91	0.0543	P	1.2	-0.1
4	☐	10.000	10.176	181793.99	0.1105	P	0.6	1.8
5	☐	100.000	101.618	1844591.01	1.1025	P	0.6	1.6
6	☐	200.000	199.182	3651995.99	2.1608	P	1.5	-0.4
7	☐	1.000						

y = 0.0108 * x + 1.1954E-004
R = 1.0000
DL = 0.01166 ppb
BEC = 0.01102 ppb

Weight: <None>
Min Conc: <None>

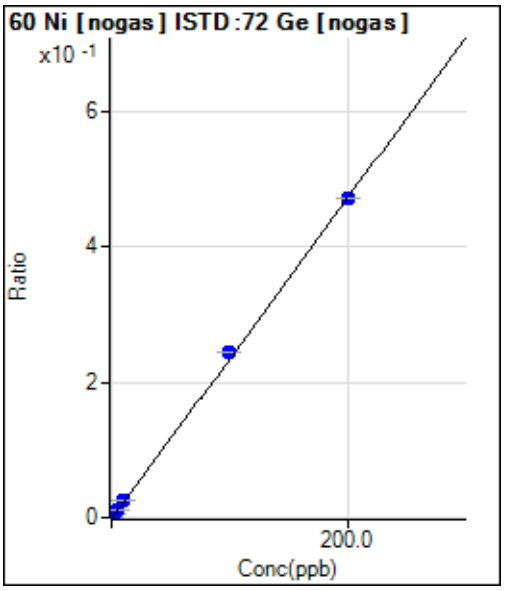


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	103.33	0.0002	P	15.3	
2	☐	2.000	2.008	15081.12	0.0321	P	1.4	0.4
3	☐	5.000	5.058	38593.17	0.0804	P	2.9	1.2
4	☐	10.000	9.919	75448.54	0.1575	P	0.9	-0.8
5	☐	100.000	101.851	774090.20	1.6153	P	0.1	1.9
6	☐	200.000	199.077	1504871.49	3.1570	P	0.9	-0.5
7	☐	1.000						

y = 0.0159 * x + 2.2199E-004
R = 0.9999
DL = 0.006415 ppb
BEC = 0.014 ppb

Weight: <None>
Min Conc: <None>

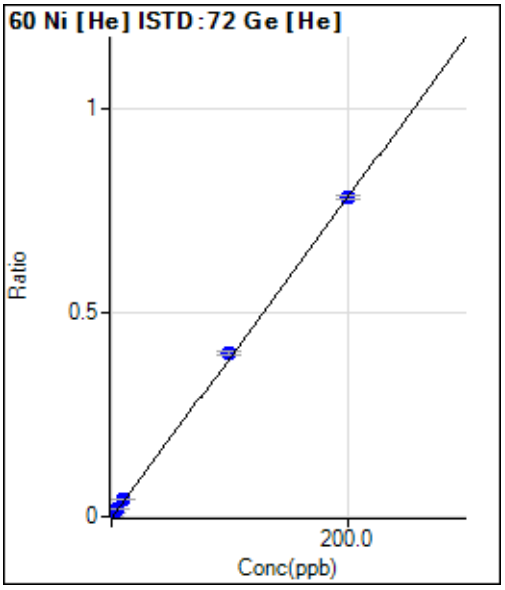
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.67	0.0002	P	11.5	
2	☐	2.000	2.049	8219.05	0.0050	P	0.9	2.5
3	☐	5.000	5.169	20267.35	0.0124	P	4.8	3.4
4	☐	10.000	10.466	41183.58	0.0250	P	1.4	4.7
5	☐	100.000	102.543	408112.78	0.2439	P	0.3	2.5
6	☐	200.000	198.701	798538.95	0.4725	P	0.6	-0.6
7	☐	1.000						

y = 0.0024 * x + 1.5233E-004
R = 0.9999
DL = 0.02202 ppb
BEC = 0.06408 ppb

Weight: <None>
Min Conc: <None>

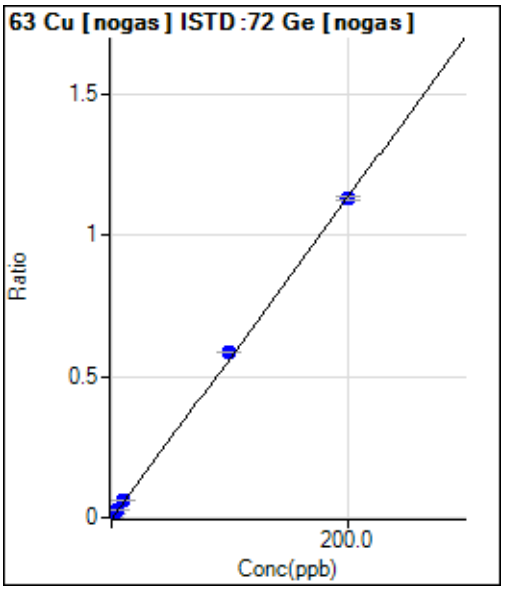


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0003	P	46.6	
2	☐	2.000	2.019	3873.90	0.0082	P	3.8	0.9
3	☐	5.000	5.028	9636.60	0.0201	P	5.0	0.6
4	☐	10.000	10.233	19446.16	0.0406	P	2.0	2.3
5	☐	100.000	101.971	192664.00	0.4020	P	1.5	2.0
6	☐	200.000	199.002	373881.69	0.7843	P	0.9	-0.5
7	☐	1.000						

y = 0.0039 * x + 2.7891E-004
R = 0.9999
DL = 0.09893 ppb
BEC = 0.07079 ppb

Weight: <None>
Min Conc: <None>

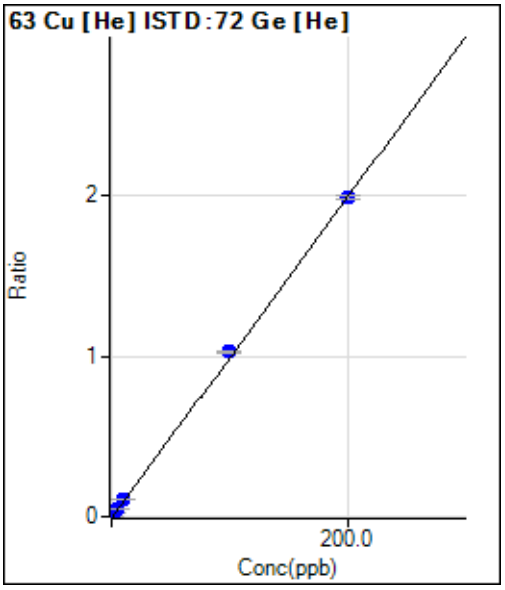
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1173.40	0.0007	P	3.4	
2	☐	2.000	1.978	19603.05	0.0120	P	3.5	-1.1
3	☐	5.000	5.170	49103.86	0.0301	P	0.3	3.4
4	☐	10.000	10.329	97877.69	0.0595	P	1.7	3.3
5	☐	100.000	103.192	983710.56	0.5879	P	0.1	3.2
6	☐	200.000	198.383	1909152.00	1.1296	P	0.9	-0.8
7	☐	1.000						

y = 0.0057 * x + 7.2501E-004
R = 0.9998
DL = 0.01282 ppb
BEC = 0.1274 ppb

Weight: <None>
Min Conc: <None>

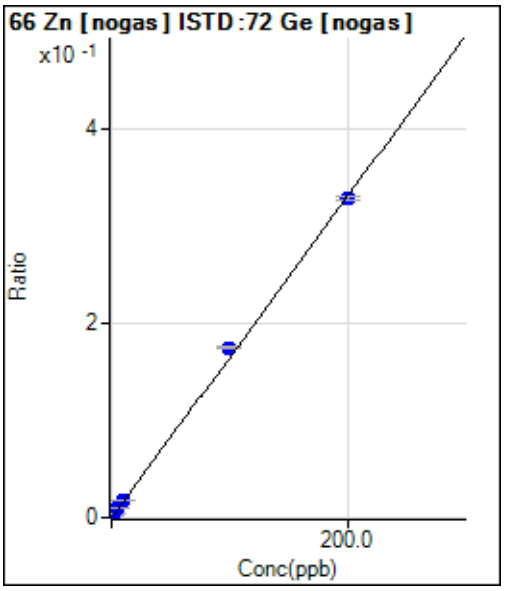


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	486.68	0.0010	P	10.7	
2	☐	2.000	1.970	9786.69	0.0208	P	3.0	-1.5
3	☐	5.000	5.137	25218.13	0.0526	P	1.2	2.7
4	☐	10.000	10.237	49679.09	0.1037	P	0.8	2.4
5	☐	100.000	102.522	493126.74	1.0290	P	0.8	2.5
6	☐	200.000	198.724	950393.53	1.9937	P	1.0	-0.6
7	☐	1.000						

y = 0.0100 * x + 0.0010
R = 0.9999
DL = 0.03333 ppb
BEC = 0.1042 ppb

Weight: <None>
Min Conc: <None>

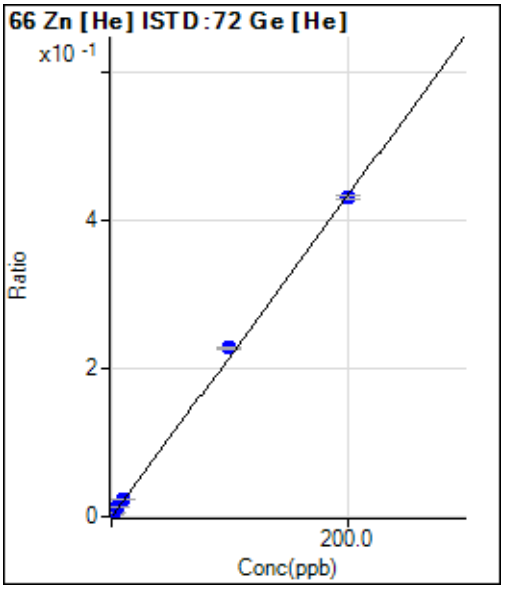
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2240.22	0.0014	P	8.9	
2	☐	2.000	1.914	7442.01	0.0045	P	3.6	-4.3
3	☐	5.000	5.213	16295.79	0.0100	P	4.4	4.3
4	☐	10.000	10.298	30284.46	0.0184	P	3.6	3.0
5	☐	100.000	104.725	292102.74	0.1746	P	1.4	4.7
6	☐	200.000	197.618	554715.88	0.3282	P	0.9	-1.2
7	☐	1.000						

y = 0.0017 * x + 0.0014
R = 0.9996
DL = 0.2243 ppb
BEC = 0.8367 ppb

Weight: <None>
Min Conc: <None>

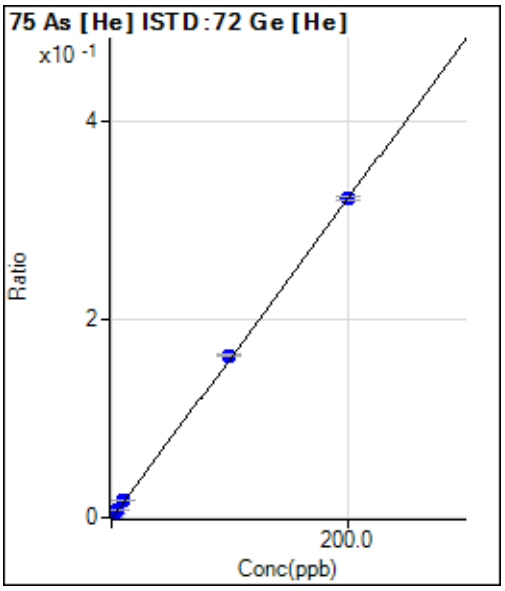


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	793.37	0.0017	P	6.4	
2	☐	2.000	1.976	2823.66	0.0060	P	7.0	-1.2
3	☐	5.000	4.897	5927.94	0.0124	P	3.3	-2.1
4	☐	10.000	10.262	11507.91	0.0240	P	0.3	2.6
5	☐	100.000	104.324	109538.45	0.2286	P	1.3	4.3
6	☐	200.000	197.828	205896.29	0.4319	P	0.7	-1.1
7	☐	1.000						

y = 0.0022 * x + 0.0017
R = 0.9997
DL = 0.1511 ppb
BEC = 0.7832 ppb

Weight: <None>
Min Conc: <None>

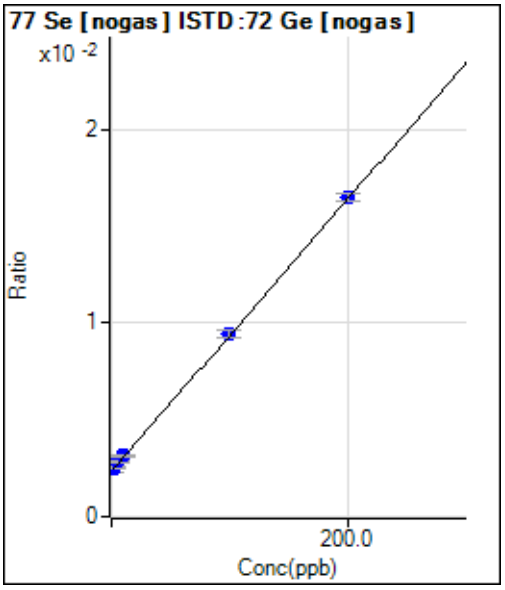
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146.67	0.0003	P	3.4	
2	☐	2.000	1.892	1588.98	0.0034	P	5.3	-5.4
3	☐	5.000	4.845	3913.87	0.0082	P	1.4	-3.1
4	☐	10.000	10.162	8029.98	0.0168	P	2.3	1.6
5	☐	100.000	101.282	78705.39	0.1642	P	0.8	1.3
6	☐	200.000	199.356	153931.63	0.3229	P	1.7	-0.3
7	☐	1.000						

y = 0.0016 * x + 3.1498E-004
R = 1.0000
DL = 0.01966 ppb
BEC = 0.1946 ppb

Weight: <None>
Min Conc: <None>

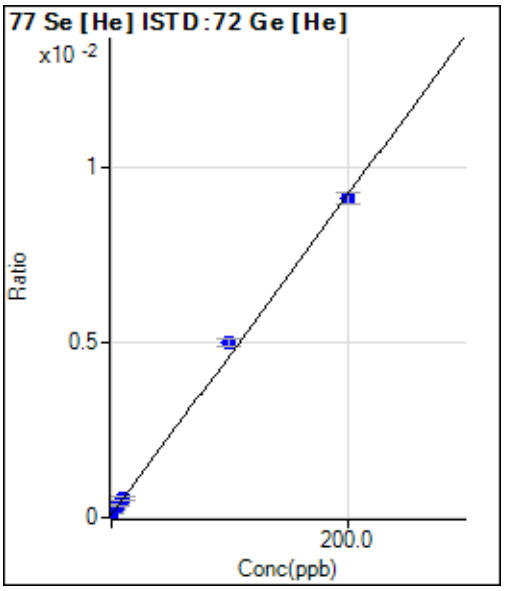


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3947.26	0.0024	P	14.0	
2	☐	2.000	1.262	4137.33	0.0025	P	4.7	-36.9
3	☐	5.000	5.738	4630.81	0.0028	P	5.3	14.8
4	☐	10.000	10.205	5194.33	0.0032	P	3.1	2.1
5	☐	100.000	99.677	15805.30	0.0094	P	3.8	-0.3
6	☐	200.000	200.140	27886.57	0.0165	P	2.9	0.1
7	☐	1.000						

y = 7.0266E-005 * x + 0.0024
R = 1.0000
DL = 14.62 ppb
BEC = 34.72 ppb

Weight: <None>
Min Conc: <None>

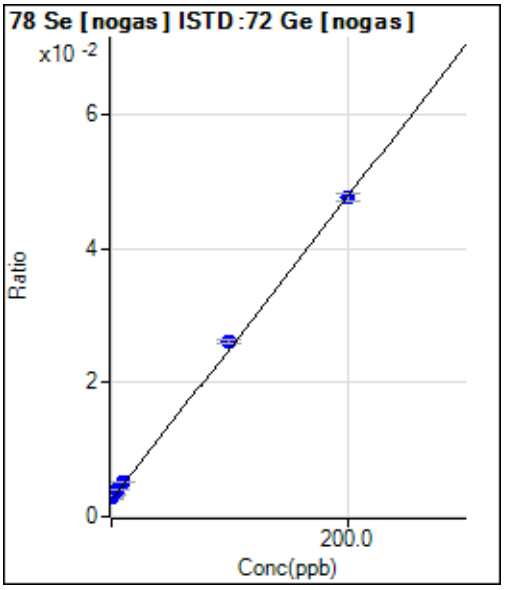
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0001	P	15.9	
2	☐	2.000	3.064	126.67	0.0003	P	23.8	53.2
3	☐	5.000	4.628	163.33	0.0003	P	20.5	-7.4
4	☐	10.000	9.622	273.34	0.0006	P	19.9	-3.8
5	☐	100.000	106.532	2400.24	0.0050	P	4.2	6.5
6	☐	200.000	196.751	4357.38	0.0091	P	3.9	-1.6
7	☐	1.000						

y = 4.5812E-005 * x + 1.2873E-004
R = 0.9992
DL = 1.343 ppb
BEC = 2.81 ppb

Weight: <None>
Min Conc: <None>

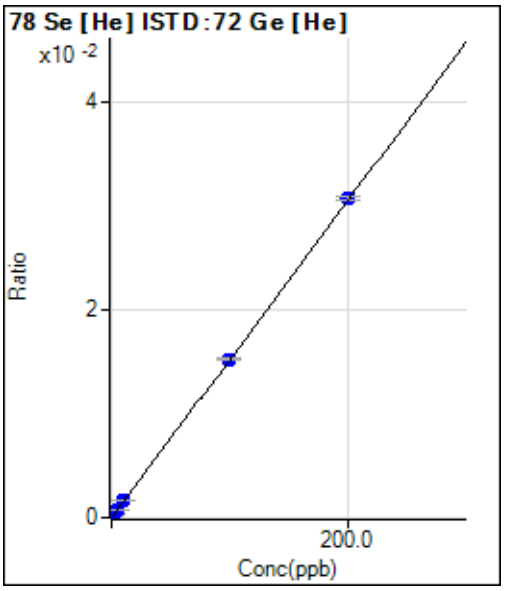


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4460.75	0.0028	P	5.9	
2	☐	2.000	2.813	5551.13	0.0034	P	6.8	40.6
3	☐	5.000	5.530	6531.56	0.0040	P	2.3	10.6
4	☐	10.000	10.891	8595.98	0.0052	P	3.5	8.9
5	☐	100.000	103.185	43791.45	0.0262	P	1.8	3.2
6	☐	200.000	198.342	80722.25	0.0478	P	2.6	-0.8
7	☐	1.000						

y = 2.2695E-004 * x + 0.0028
R = 0.9998
DL = 2.157 ppb
BEC = 12.14 ppb

Weight: <None>
Min Conc: <None>

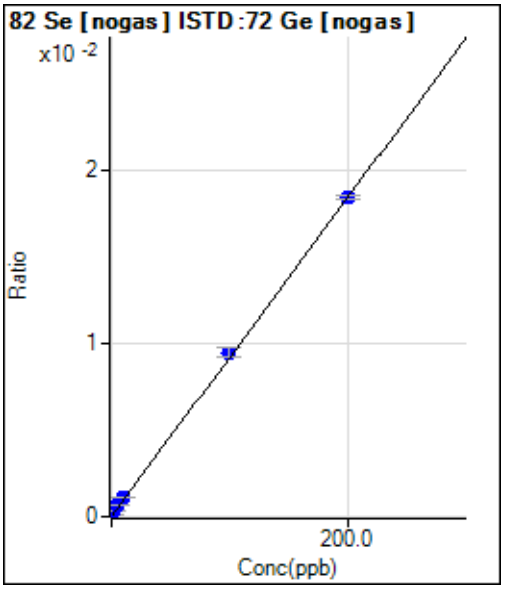
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	64.67	0.0001	P	8.4	
2	☐	2.000	1.872	200.00	0.0004	P	11.8	-6.4
3	☐	5.000	4.247	378.01	0.0008	P	6.9	-15.1
4	☐	10.000	10.175	811.36	0.0017	P	4.8	1.8
5	☐	100.000	98.880	7310.48	0.0153	P	1.2	-1.1
6	☐	200.000	200.572	14681.94	0.0308	P	0.9	0.3
7	☐	1.000						

y = 1.5287E-004 * x + 1.3889E-004
R = 1.0000
DL = 0.2287 ppb
BEC = 0.9086 ppb

Weight: <None>
Min Conc: <None>

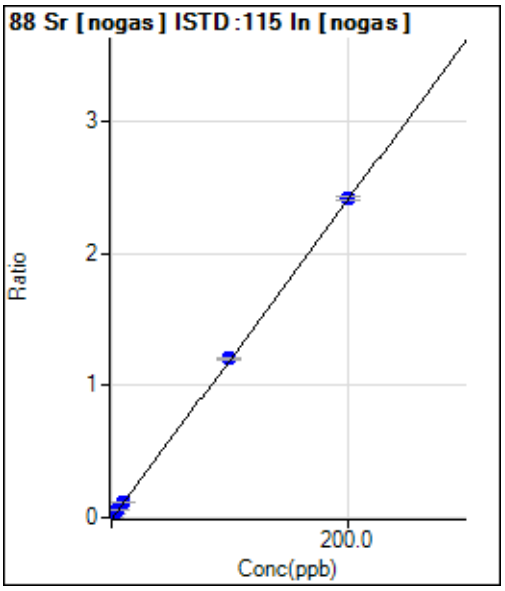


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0001	P	24.1	
2	☐	2.000	2.108	506.68	0.0003	P	17.3	5.4
3	☐	5.000	6.074	1100.06	0.0007	P	10.3	21.5
4	☐	10.000	10.969	1853.48	0.0011	P	1.8	9.7
5	☐	100.000	101.641	15875.38	0.0095	P	5.6	1.6
6	☐	200.000	199.103	31226.52	0.0185	P	0.9	-0.4
7	☐	1.000						

y = 9.2218E-005 * x + 1.1516E-004
R = 0.9999
DL = 0.9039 ppb
BEC = 1.249 ppb

Weight: <None>
Min Conc: <None>

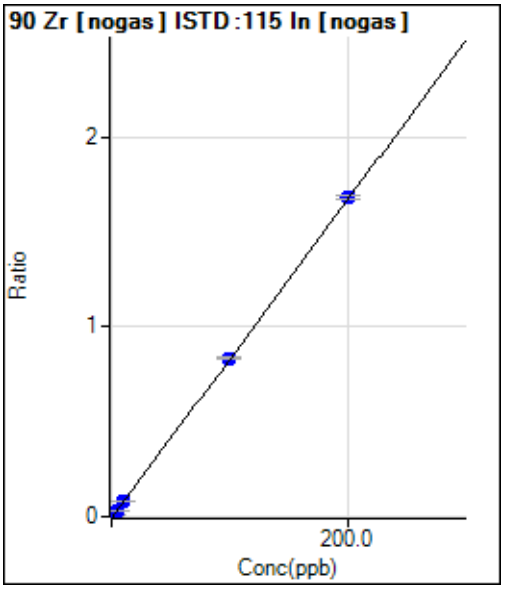
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0003	P	17.6	
2	☐	2.000	1.899	42622.02	0.0232	P	1.7	-5.1
3	☐	5.000	4.800	106724.45	0.0582	P	1.1	-4.0
4	☐	10.000	9.686	216754.85	0.1171	P	1.3	-3.1
5	☐	100.000	99.715	2233773.51	1.2031	P	1.0	-0.3
6	☐	200.000	200.164	4439861.91	2.4148	P	1.0	0.1
7	☐	1.000						

y = 0.0121 * x + 3.0707E-004
R = 1.0000
DL = 0.01346 ppb
BEC = 0.02546 ppb

Weight: <None>
Min Conc: <None>

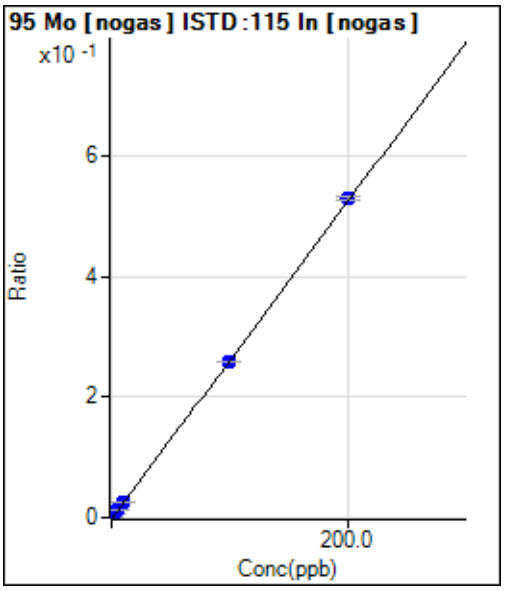


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1273.41	0.0007	P	11.6	
2	☐	2.000	1.429	23322.07	0.0127	P	1.1	-28.6
3	☐	5.000	4.092	64293.45	0.0351	P	1.0	-18.2
4	☐	10.000	9.083	142444.21	0.0770	P	1.6	-9.2
5	☐	100.000	99.284	1549522.01	0.8346	P	1.0	-0.7
6	☐	200.000	200.433	3096463.70	1.6841	P	0.9	0.2
7	☐	1.000						

y = 0.0084 * x + 6.9926E-004
R = 1.0000
DL = 0.02895 ppb
BEC = 0.08326 ppb

Weight: <None>
Min Conc: <None>

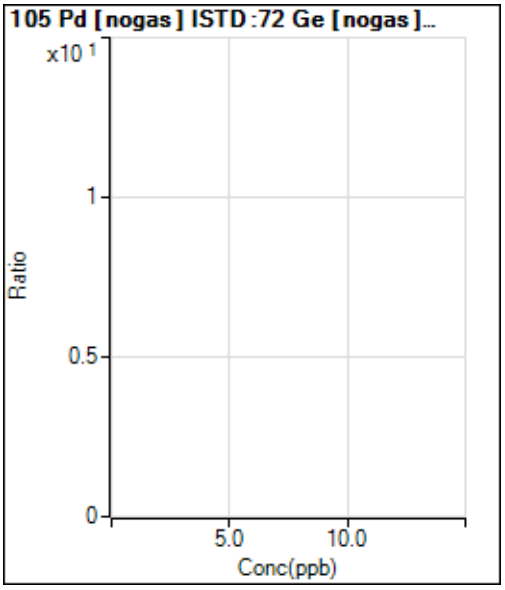
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0001	P	31.5	
2	☐	2.000	1.831	9109.62	0.0050	P	3.3	-8.5
3	☐	5.000	4.586	22394.08	0.0122	P	1.2	-8.3
4	☐	10.000	9.540	46721.27	0.0252	P	0.7	-4.6
5	☐	100.000	98.081	479529.14	0.2583	P	0.9	-1.9
6	☐	200.000	200.994	972875.77	0.5291	P	1.0	0.5
7	☐	1.000						

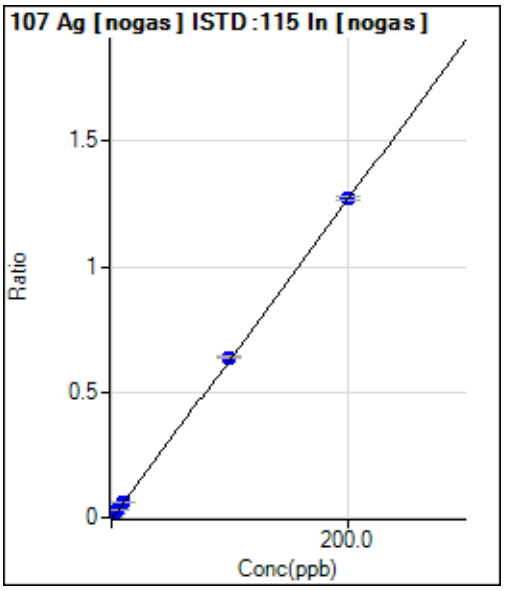
y = 0.0026 * x + 1.4305E-004
R = 0.9999
DL = 0.05136 ppb
BEC = 0.05435 ppb

Weight: <None>
Min Conc: <None>



	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						

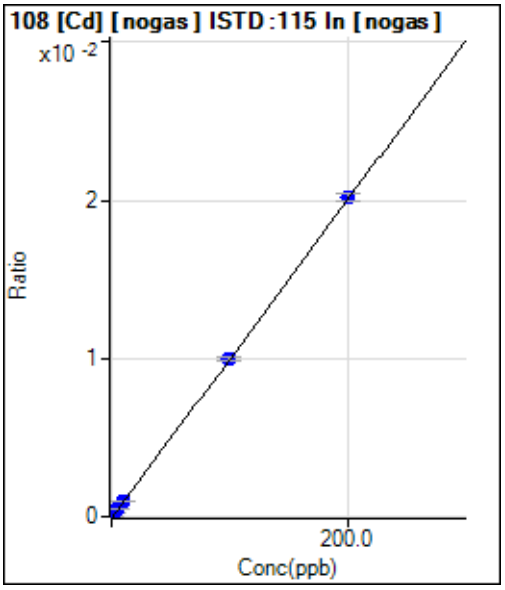
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	116.67	0.0001	P	26.4	
2	☐	2.000	1.940	22794.80	0.0124	P	1.3	-3.0
3	☐	5.000	4.898	57303.13	0.0313	P	1.8	-2.0
4	☐	10.000	9.983	117733.32	0.0636	P	1.7	-0.2
5	☐	100.000	100.311	1186064.77	0.6388	P	1.3	0.3
6	☐	200.000	199.849	2339935.80	1.2727	P	1.3	-0.1
7	☐	1.000						

y = 0.0064 * x + 6.4069E-005
R = 1.0000
DL = 0.007965 ppb
BEC = 0.01006 ppb

Weight: <None>
Min Conc: <None>

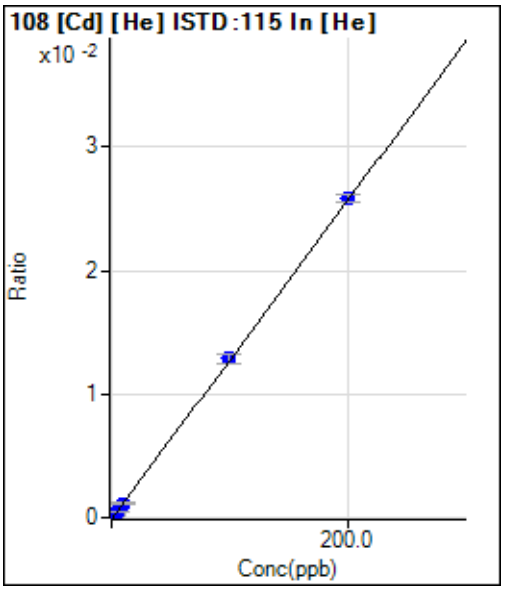


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.963	370.01	0.0002	P	10.7	-1.8
3	☐	5.000	5.001	930.04	0.0005	P	6.5	0.0
4	☐	10.000	9.253	1730.13	0.0009	P	3.9	-7.5
5	☐	100.000	99.123	18535.39	0.0100	P	2.5	-0.9
6	☐	200.000	200.476	37121.20	0.0202	P	3.0	0.2
7	☐	1.000						

y = 1.0069E-004 * x + 3.6857E-006
R = 1.0000
DL = 0.09511 ppb
BEC = 0.03661 ppb

Weight: <None>
Min Conc: <None>

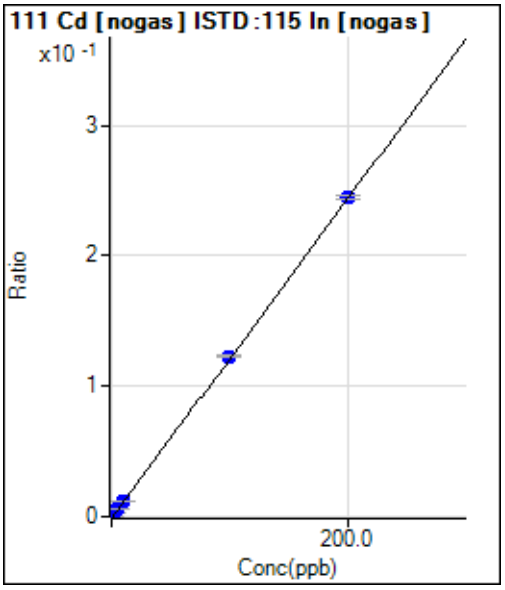
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.804	166.67	0.0002	P	28.4	-9.8
3	☐	5.000	3.715	346.68	0.0005	P	15.2	-25.7
4	☐	10.000	8.841	823.37	0.0011	P	12.1	-11.6
5	☐	100.000	99.595	9052.99	0.0129	P	6.0	-0.4
6	☐	200.000	200.294	18081.50	0.0259	P	2.0	0.1
7	☐	1.000						

y = 1.2911E-004 * x + 4.8102E-006
R = 1.0000
DL = 0.1936 ppb
BEC = 0.03726 ppb

Weight: <None>
Min Conc: <None>

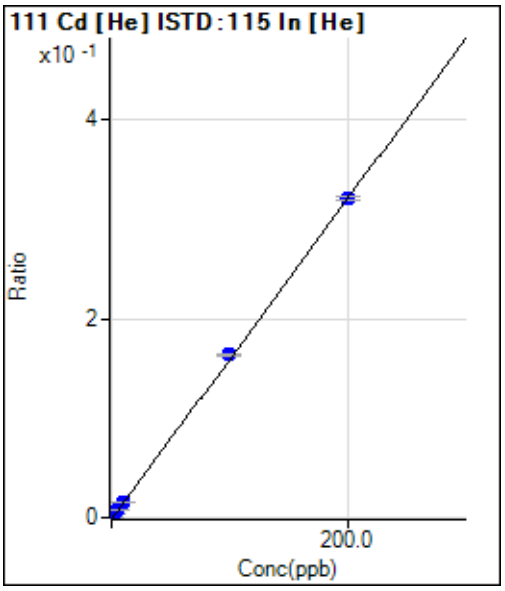


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.18	0.0000	P	97.1	
2	☐	2.000	1.961	4417.19	0.0024	P	6.7	-2.0
3	☐	5.000	4.913	11047.33	0.0060	P	3.5	-1.7
4	☐	10.000	9.954	22581.03	0.0122	P	2.7	-0.5
5	☐	100.000	100.310	228250.60	0.1229	P	1.3	0.3
6	☐	200.000	199.850	450318.27	0.2449	P	0.9	-0.1
7	☐	1.000						

y = 0.0012 * x + 3.3758E-006
R = 1.0000
DL = 0.008022 ppb
BEC = 0.002755 ppb

Weight: <None>
Min Conc: <None>

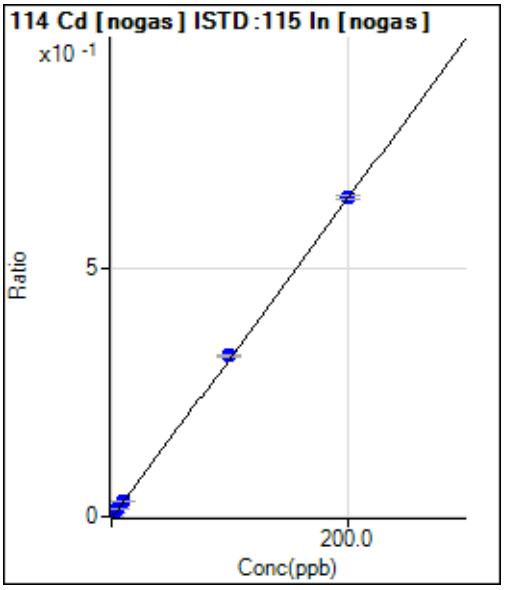
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-3.58	0.0000	P	-173.	
2	☐	2.000	1.954	2204.73	0.0031	P	14.1	-2.3
3	☐	5.000	4.995	5752.75	0.0080	P	5.4	-0.1
4	☐	10.000	9.915	11468.69	0.0160	P	0.7	-0.8
5	☐	100.000	101.728	115317.42	0.1639	P	1.2	1.7
6	☐	200.000	199.141	224261.67	0.3208	P	1.3	-0.4
7	☐	1.000						

y = 0.0016 * x - 5.1614E-006
R = 0.9999
DL = 0.01665 ppb
BEC = -0.003204 ppb

Weight: <None>
Min Conc: <None>

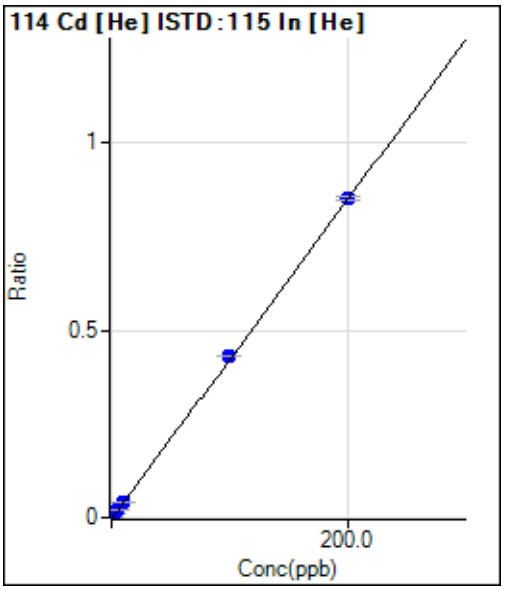


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	53.0	
2	☐	2.000	1.894	11204.53	0.0061	P	2.9	-5.3
3	☐	5.000	4.945	29142.88	0.0159	P	1.4	-1.1
4	☐	10.000	9.824	58377.71	0.0315	P	1.2	-1.8
5	☐	100.000	100.487	598723.48	0.3225	P	1.9	0.5
6	☐	200.000	199.768	1178634.17	0.6410	P	0.6	-0.1
7	☐	1.000						

y = 0.0032 * x + 2.5529E-005
R = 1.0000
DL = 0.01266 ppb
BEC = 0.007956 ppb

Weight: <None>
Min Conc: <None>

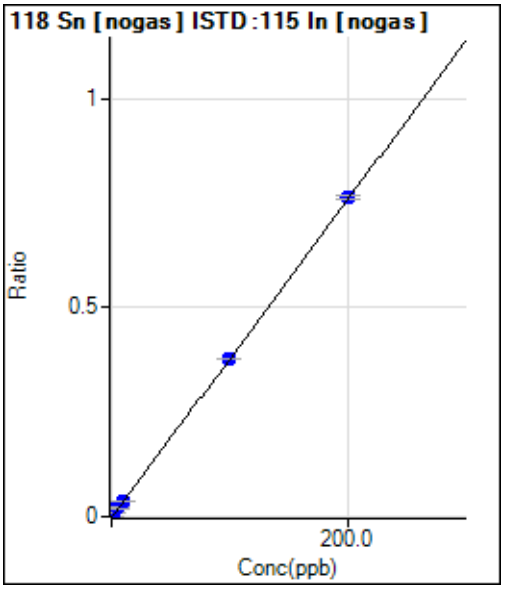
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	43.4	
2	☐	2.000	1.960	5904.63	0.0084	P	4.4	-2.0
3	☐	5.000	4.791	14670.95	0.0205	P	3.0	-4.2
4	☐	10.000	9.821	30161.69	0.0420	P	2.4	-1.8
5	☐	100.000	100.791	302876.49	0.4305	P	0.7	0.8
6	☐	200.000	199.619	595926.03	0.8525	P	0.7	-0.2
7	☐	1.000						

y = 0.0043 * x + 5.2907E-005
R = 1.0000
DL = 0.01612 ppb
BEC = 0.01239 ppb

Weight: <None>
Min Conc: <None>

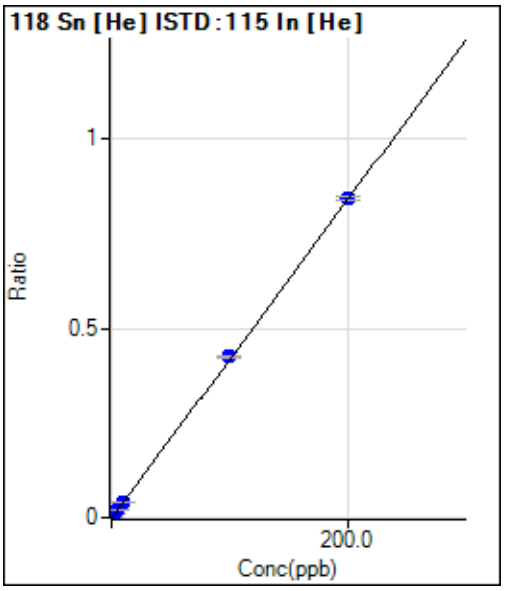


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2493.61	0.0014	P	8.2	
2	☐	2.000	1.758	14801.10	0.0081	P	1.0	-12.1
3	☐	5.000	5.189	38702.89	0.0211	P	15.4	3.8
4	☐	10.000	9.537	69677.89	0.0377	P	0.6	-4.6
5	☐	100.000	99.199	703366.73	0.3788	P	0.4	-0.8
6	☐	200.000	200.421	1404731.96	0.7640	P	1.4	0.2
7	☐	1.000						

y = 0.0038 * x + 0.0014
R = 1.0000
DL = 0.0888 ppb
BEC = 0.3596 ppb

Weight: <None>
Min Conc: <None>

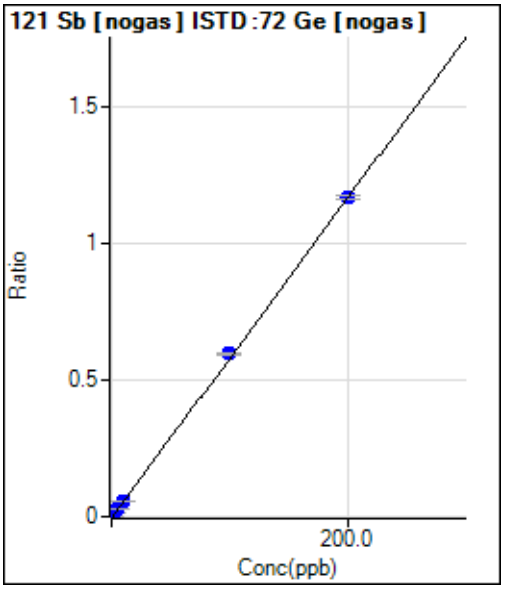
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1156.74	0.0017	P	2.9	
2	☐	2.000	1.770	6398.18	0.0091	P	4.0	-11.5
3	☐	5.000	4.609	15094.76	0.0211	P	1.8	-7.8
4	☐	10.000	9.721	30646.17	0.0427	P	1.2	-2.8
5	☐	100.000	100.530	299625.53	0.4259	P	0.9	0.5
6	☐	200.000	199.761	590389.02	0.8446	P	0.8	-0.1
7	☐	1.000						

y = 0.0042 * x + 0.0017
R = 1.0000
DL = 0.03402 ppb
BEC = 0.3928 ppb

Weight: <None>
Min Conc: <None>

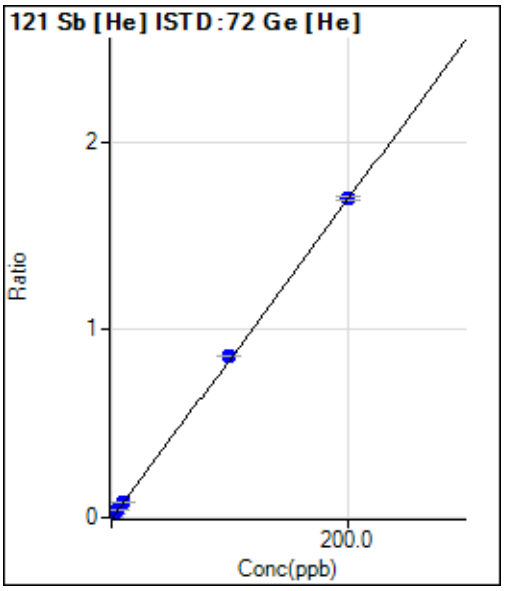


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1260.08	0.0008	P	2.2	
2	☐	2.000	1.954	20024.12	0.0122	P	3.8	-2.3
3	☐	5.000	4.782	46953.25	0.0288	P	1.7	-4.4
4	☐	10.000	9.767	95518.59	0.0581	P	1.3	-2.3
5	☐	100.000	101.399	996493.14	0.5956	P	0.5	1.4
6	☐	200.000	199.318	1977213.15	1.1699	P	1.2	-0.3
7	☐	1.000						

y = 0.0059 * x + 7.7843E-004
R = 1.0000
DL = 0.008753 ppb
BEC = 0.1327 ppb

Weight: <None>
Min Conc: <None>

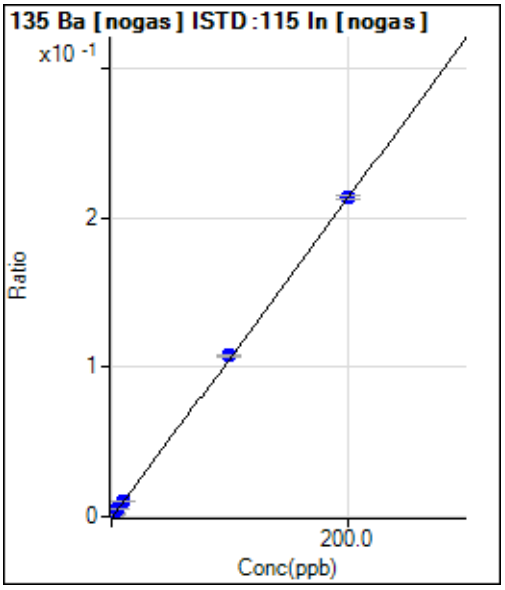
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	593.36	0.0013	P	10.7	
2	☐	2.000	1.906	8222.48	0.0175	P	2.6	-4.7
3	☐	5.000	4.817	20261.13	0.0422	P	1.5	-3.7
4	☐	10.000	9.668	39992.48	0.0835	P	1.9	-3.3
5	☐	100.000	100.641	410709.94	0.8570	P	0.2	0.6
6	☐	200.000	199.701	809986.76	1.6993	P	1.5	-0.1
7	☐	1.000						

y = 0.0085 * x + 0.0013
R = 1.0000
DL = 0.0482 ppb
BEC = 0.1498 ppb

Weight: <None>
Min Conc: <None>

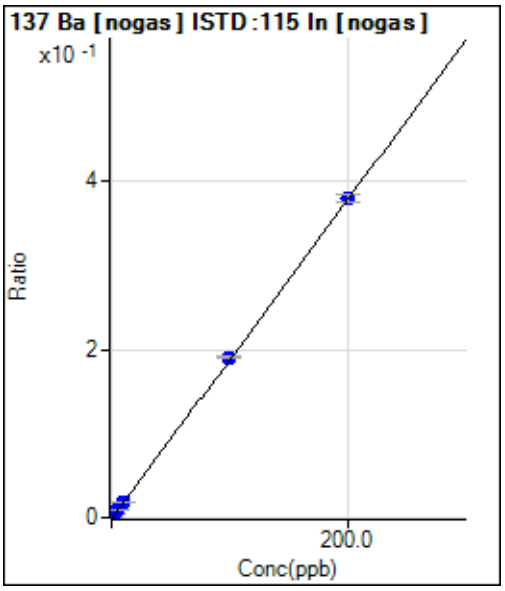


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0000	P	40.9	
2	☐	2.000	1.828	3687.21	0.0020	P	7.6	-8.6
3	☐	5.000	4.858	9636.76	0.0053	P	3.5	-2.8
4	☐	10.000	9.732	19396.80	0.0105	P	4.1	-2.7
5	☐	100.000	100.886	200883.71	0.1082	P	1.3	0.9
6	☐	200.000	199.576	393445.52	0.2140	P	1.7	-0.2
7	☐	1.000						

y = 0.0011 * x + 4.7605E-005
R = 1.0000
DL = 0.05448 ppb
BEC = 0.04441 ppb

Weight: <None>
Min Conc: <None>

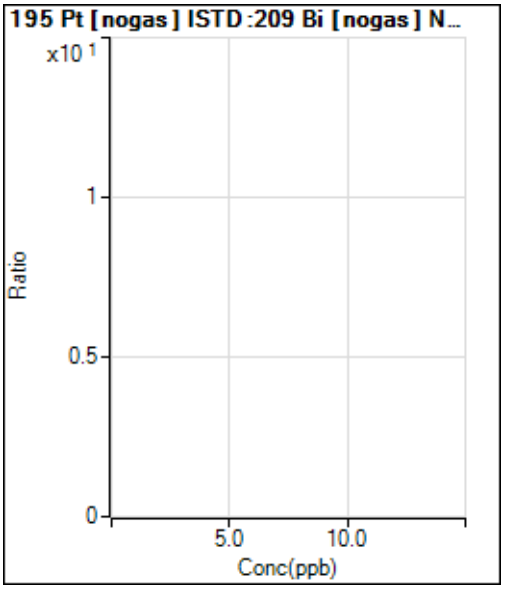
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0001	P	31.9	
2	☐	2.000	1.961	6951.81	0.0038	P	4.0	-2.0
3	☐	5.000	4.764	16710.10	0.0091	P	2.4	-4.7
4	☐	10.000	9.857	34769.48	0.0188	P	1.7	-1.4
5	☐	100.000	100.368	354273.71	0.1908	P	0.4	0.4
6	☐	200.000	199.829	698409.57	0.3799	P	2.0	-0.1
7	☐	1.000						

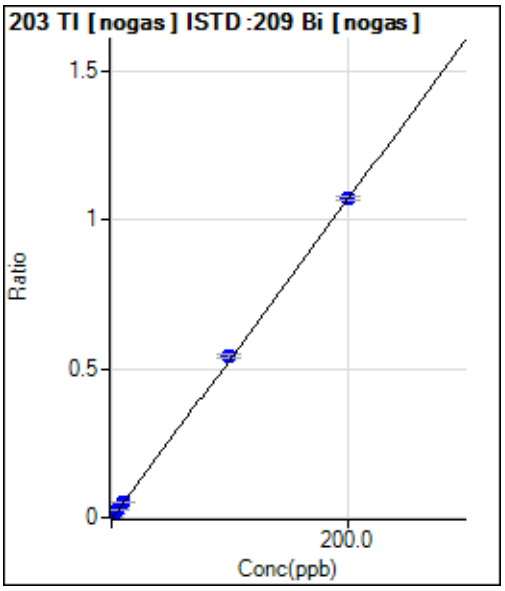
y = 0.0019 * x + 5.8436E-005
R = 1.0000
DL = 0.02941 ppb
BEC = 0.03075 ppb

Weight: <None>
Min Conc: <None>



	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						

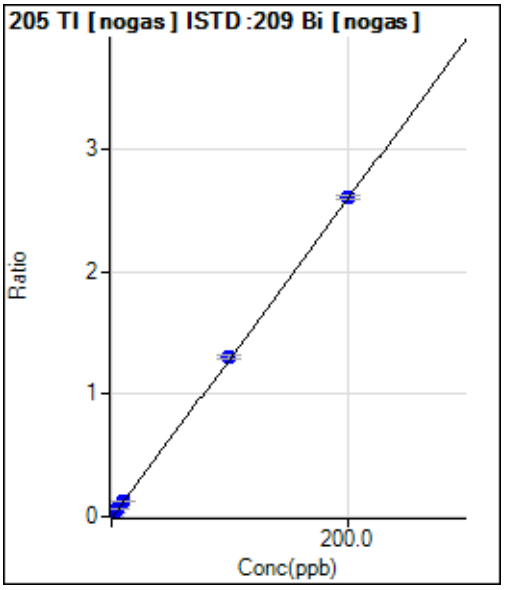
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0001	P	22.9	
2	☐	2.000	1.963	17818.59	0.0106	P	1.3	-1.8
3	☐	5.000	4.807	43867.37	0.0259	P	2.9	-3.9
4	☐	10.000	9.826	90129.48	0.0529	P	1.7	-1.7
5	☐	100.000	100.733	925627.17	0.5415	P	2.3	0.7
6	☐	200.000	199.647	1808033.99	1.0731	P	1.7	-0.2
7	☐	1.000						

y = 0.0054 * x + 7.7765E-005
R = 1.0000
DL = 0.009946 ppb
BEC = 0.01447 ppb

Weight: <None>
Min Conc: <None>

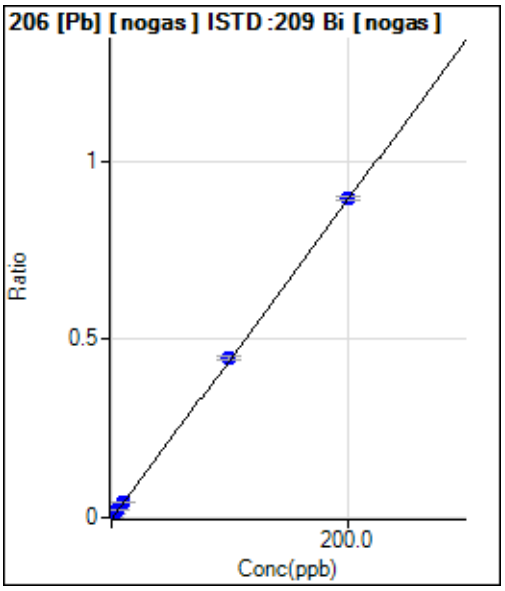


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	280.01	0.0002	P	6.0	
2	☐	2.000	1.901	41737.35	0.0249	P	2.5	-4.9
3	☐	5.000	4.871	107527.98	0.0635	P	3.9	-2.6
4	☐	10.000	9.702	215416.93	0.1264	P	1.7	-3.0
5	☐	100.000	99.795	2220111.11	1.2987	P	2.5	-0.2
6	☐	200.000	200.121	4387590.66	2.6042	P	1.5	0.1
7	☐	1.000						

y = 0.0130 * x + 1.6752E-004
R = 1.0000
DL = 0.002319 ppb
BEC = 0.01287 ppb

Weight: <None>
Min Conc: <None>

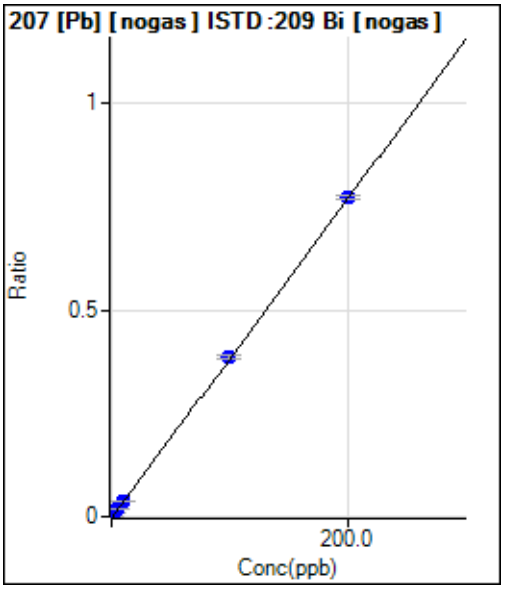
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	286.68	0.0002	P	26.1	
2	☐	2.000	1.969	15071.88	0.0090	P	4.2	-1.6
3	☐	5.000	4.903	37481.96	0.0221	P	2.3	-1.9
4	☐	10.000	9.840	75444.68	0.0443	P	2.9	-1.6
5	☐	100.000	99.958	766087.36	0.4482	P	2.2	0.0
6	☐	200.000	200.032	1510692.32	0.8967	P	1.5	0.0
7	☐	1.000						

y = 0.0045 * x + 1.7149E-004
R = 1.0000
DL = 0.02998 ppb
BEC = 0.03827 ppb

Weight: <None>
Min Conc: <None>

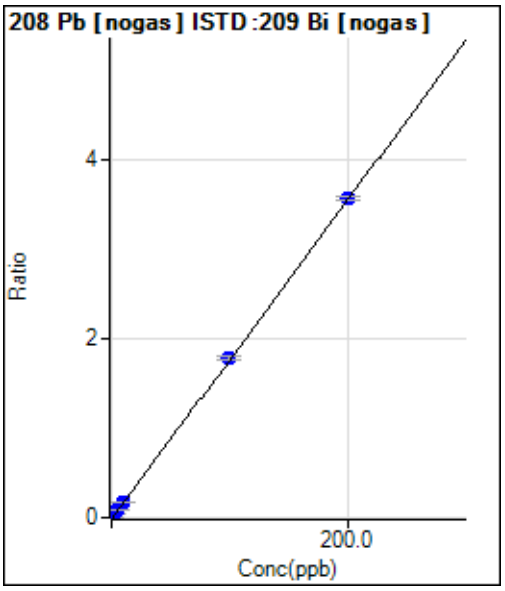


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0002	P	9.7	
2	☐	2.000	1.943	12842.93	0.0077	P	2.7	-2.9
3	☐	5.000	4.795	31616.94	0.0187	P	3.3	-4.1
4	☐	10.000	9.826	64954.87	0.0381	P	3.3	-1.7
5	☐	100.000	100.169	661812.11	0.3871	P	1.7	0.2
6	☐	200.000	199.930	1301556.98	0.7725	P	1.6	0.0
7	☐	1.000						

y = 0.0039 * x + 1.5758E-004
R = 1.0000
DL = 0.01186 ppb
BEC = 0.04079 ppb

Weight: <None>
Min Conc: <None>

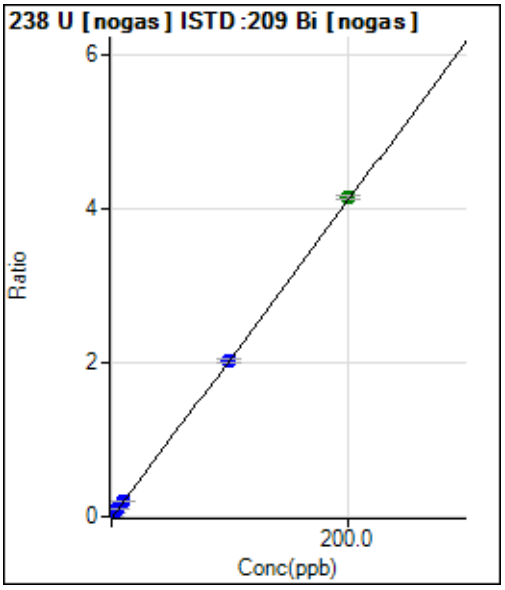
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1073.38	0.0006	P	3.2	
2	☐	2.000	1.955	59622.20	0.0356	P	3.1	-2.2
3	☐	5.000	4.876	148533.06	0.0878	P	2.5	-2.5
4	☐	10.000	9.797	299411.81	0.1757	P	1.7	-2.0
5	☐	100.000	100.169	3060892.88	1.7905	P	2.1	0.2
6	☐	200.000	199.929	6020006.55	3.5731	P	1.5	0.0
7	☐	1.000						

y = 0.0179 * x + 6.4225E-004
R = 1.0000
DL = 0.003463 ppb
BEC = 0.03594 ppb

Weight: <None>
Min Conc: <None>

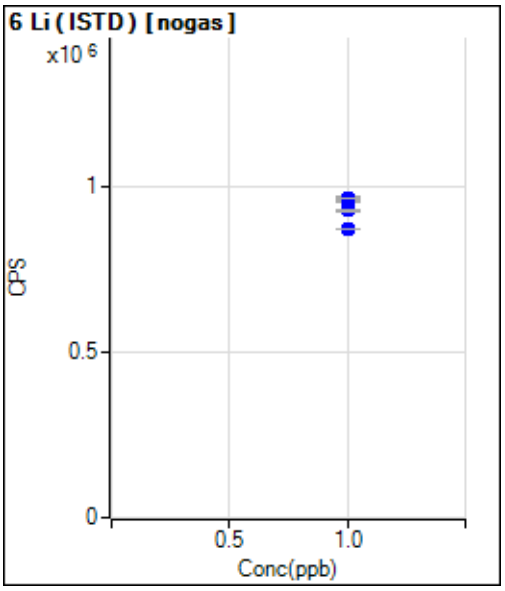


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	310.01	0.0002	P	17.8	
2	☐	2.000	1.873	65138.76	0.0389	P	2.8	-6.3
3	☐	5.000	4.565	159834.33	0.0944	P	3.2	-8.7
4	☐	10.000	9.319	328191.96	0.1926	P	2.4	-6.8
5	☐	100.000	97.739	3450238.91	2.0184	P	2.7	-2.3
6	☐	200.000	201.177	6999179.48	4.1542	A	1.2	0.6
7	☐	1.000						

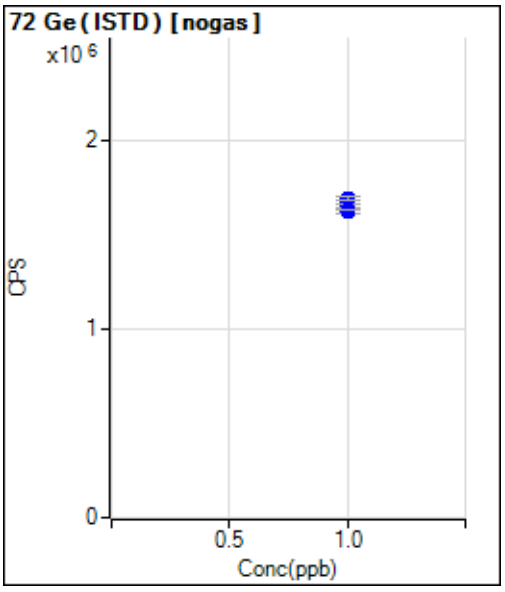
y = 0.0206 * x + 1.8546E-004
R = 0.9999
DL = 0.004806 ppb
BEC = 0.008982 ppb

Weight: <None>
Min Conc: <None>

Calibration for 021_ICV.d

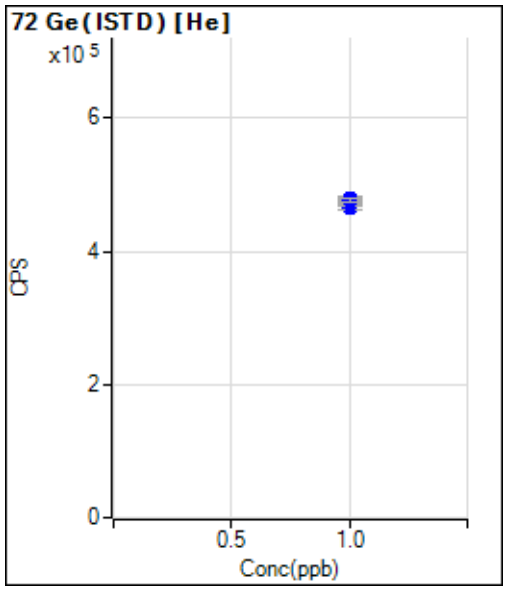


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		967339.16		P	0.6	
2	☐	1.000		966245.86		P	1.2	
3	☐	1.000		958484.46		P	1.1	
4	☐	1.000		965836.18		P	0.2	
5	☐	1.000		931278.40		P	0.7	
6	☐	1.000		873264.98		P	0.4	
7	☐	1.000						

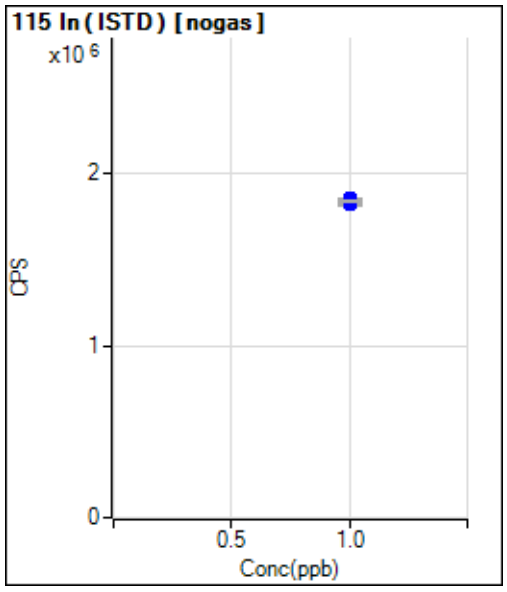


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1618408.42		P	1.5	
2	☐	1.000		1636078.57		P	0.5	
3	☐	1.000		1628825.76		P	0.5	
4	☐	1.000		1645082.06		P	1.4	
5	☐	1.000		1673132.48		P	1.2	
6	☐	1.000		1690038.31		P	0.7	
7	☐	1.000						

Calibration for 021_ICV.d

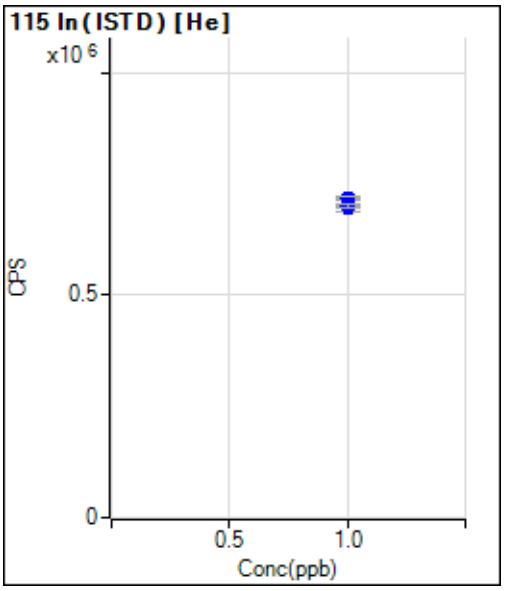


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		465764.03		P	1.1	
2	☐	1.000		470467.93		P	0.4	
3	☐	1.000		479845.34		P	1.1	
4	☐	1.000		479069.47		P	1.5	
5	☐	1.000		479231.50		P	0.8	
6	☐	1.000		476707.34		P	1.1	
7	☐	1.000						

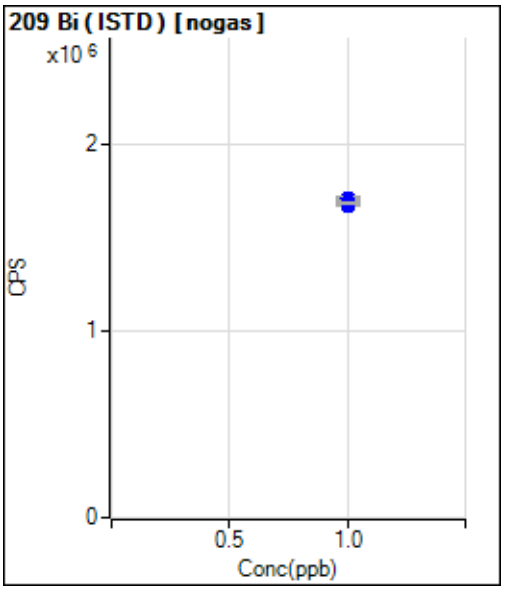


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1821198.24		P	1.2	
2	☐	1.000		1836283.12		P	1.2	
3	☐	1.000		1833513.71		P	0.6	
4	☐	1.000		1850296.35		P	1.0	
5	☐	1.000		1856596.07		P	0.4	
6	☐	1.000		1838617.27		P	0.3	
7	☐	1.000						

Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		697773.09		P	2.4	
2	☐	1.000		701008.83		P	0.6	
3	☐	1.000		715216.24		P	0.7	
4	☐	1.000		718144.93		P	1.0	
5	☐	1.000		703617.92		P	0.8	
6	☐	1.000		699074.91		P	1.2	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1671347.53		P	0.2	
2	☐	1.000		1676189.66		P	1.3	
3	☐	1.000		1692910.70		P	1.9	
4	☐	1.000		1704058.15		P	0.2	
5	☐	1.000		1709719.56		P	1.4	
6	☐	1.000		1684807.63		P	0.2	
7	☐	1.000						

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV2
Data File Name	023LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T10:29:43-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	1.788	2.796	10537	2.30	2	89.4	70	120	
B	11	1	nogas	13.630	1.358	68247	0.52	10	136.3	70	120	NewName Main CR1 Failed
Al	27	1	nogas	1.743	7.476	61028	2.90	2	87.2	70	120	
P	31	1	nogas	8.694	11.719	33176	1.37	10	86.9	70	120	
Ti	47	1	nogas	2.085	6.304	2940	6.52	2	104.3	70	120	
Ni	60	1	nogas	2.111	4.635	8699	4.97	2	105.5	70	120	
Cu	63	1	nogas	2.027	3.232	20638	4.34	2	101.4	70	120	
Zn	66	1	nogas	1.738	4.793	7165	3.59	2	86.9	70	120	
Se	77	1	nogas	-1.290	-114.369	3954	5.61	2	-64.5	70	120	NewName Main CR1 Failed
Se	82	1	nogas	2.105	12.998	520	6.93	2	105.2	70	120	
Sr	88	1	nogas	1.913	1.454	43742	1.68	2	95.7	70	120	
Mo	95	1	nogas	1.978	9.116	10007	9.26	2	98.9	70	120	
Ag	107	1	nogas	1.928	0.679	23085	1.04	2	96.4	70	120	
Cd	111	1	nogas	1.878	8.096	4311	8.26	2	93.9	70	120	
Sn	118	1	nogas	2.055	1.935	17187	1.71	2	102.8	70	120	
Sb	121	1	nogas	2.066	0.089	21697	1.26	2	103.3	70	120	
Ba	137	1	nogas	1.815	1.091	6562	1.35	2	90.8	70	120	
Tl	205	1	nogas	1.942	4.013	43269	2.92	2	97.1	70	120	
Pb	208	1	nogas	1.940	0.951	60073	0.37	2	97.0	70	120	
[Pb]	206	1	nogas	1.941	1.757	15092	1.66	2	97.1	70	120	
[Pb]	207	1	nogas	1.895	2.068	12720	2.30	2	94.7	70	120	
U	238	1	nogas	1.835	2.300	64760	1.30	2	91.7	70	120	
Li	7	1	nogas	1.766	7.828	104274	1.96	2	88.3	70	120	
Ba	135	1	nogas	1.926	0.207	3951	0.25	2	96.3	70	120	
Tl	203	1	nogas	1.946	2.450	17919	1.47	2	97.3	70	120	
Na	23	2	He	190.988	1.166	314568	0.68	200	95.5	70	120	
Mg	24	2	He	195.370	1.271	162435	1.82	200	97.7	70	120	
Al	27	2	He	1.745	10.377	2334	3.44	2	87.3	70	120	
K	39	2	He	188.424	1.136	229031	0.35	200	94.2	70	120	
Ca	43	2	He	201.360	16.056	500	15.10	200	100.7	70	120	
Ca	44	2	He	202.547	7.442	8919	7.19	200	101.3	70	120	
V	51	2	He	1.962	5.340	12237	5.02	2	98.1	70	120	
Cr	52	2	He	1.822	7.242	19119	3.62	2	91.1	70	120	
Mn	55	2	He	1.930	3.462	8839	2.74	2	96.5	70	120	
Fe	56	2	He	191.843	0.555	1040542	0.45	200	95.9	70	120	
Co	59	2	He	2.023	0.824	15592	0.71	2	101.2	70	120	
Ni	60	2	He	1.841	7.511	3634	6.64	2	92.0	70	120	
Cu	63	2	He	2.016	6.097	10257	5.36	2	100.8	70	120	
Zn	66	2	He	1.669	8.718	2574	5.30	2	83.5	70	120	
As	75	2	He	1.997	3.688	1711	2.73	2	99.8	70	120	
Se	77	2	He	1.716	70.498	100	26.46	2	85.8	70	120	
Sb	121	2	He	2.141	2.237	9400	1.65	2	107.0	70	120	
Se	78	2	He	1.956	9.337	211	6.16	2	97.8	70	120	
Ti	47	2	He	1.949	24.267	453	23.79	2	97.4	70	120	
Zr	90	1	nogas	1.720	1.562	28331	1.64	2	86.0	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	1682601	1.30	1618408	103.97	70	120	
In	115	1	nogas	1870205	0.41	1821198	102.69	70	120	
Li	6	1	nogas	994066	0.49	967339	102.76	70	120	
Bi	209	1	nogas	1701162	1.08	1671348	101.78	70	120	
Ge	72	2	He	482623	0.62	465764	103.62	70	120	
In	115	2	He	717596	0.45	697773	102.84	70	120	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV5
Data File Name	024LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T10:31:50-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	4.449	0.364	25942	0.59	5	89.0	70	130	
B	11	1	nogas	24.347	0.637	106335	0.85	25	97.4	70	130	
Al	27	1	nogas	4.920	1.126	102439	1.06	5	98.4	70	130	
P	31	1	nogas	28.017	33.616	34469	2.69	25	112.1	70	130	
Ti	47	1	nogas	4.974	1.915	6762	0.53	5	99.5	70	130	
Ni	60	1	nogas	5.058	2.140	20297	0.87	5	101.2	70	130	
Cu	63	1	nogas	5.047	1.829	49098	2.40	5	100.9	70	130	
Zn	66	1	nogas	4.868	2.551	15732	2.96	5	97.4	70	130	
Se	77	1	nogas	2.920	77.428	4411	6.49	5	58.4	70	130	NewName Main CR1 Failed
Se	82	1	nogas	6.091	23.114	1130	20.10	5	121.8	70	130	
Sr	88	1	nogas	4.705	2.232	107561	1.49	5	94.1	70	130	
Mo	95	1	nogas	4.749	2.196	23836	2.76	5	95.0	70	130	
Ag	107	1	nogas	4.823	0.800	58016	0.35	5	96.5	70	130	
Cd	111	1	nogas	4.767	3.332	11021	3.01	5	95.3	70	130	
Sn	118	1	nogas	4.911	1.571	37813	2.14	5	98.2	70	130	
Sb	121	1	nogas	4.945	2.060	49669	3.32	5	98.9	70	130	
Ba	137	1	nogas	4.780	3.302	17241	3.72	5	95.6	70	130	
Tl	205	1	nogas	4.852	4.887	107528	3.46	5	97.0	70	130	
Pb	208	1	nogas	4.865	3.520	148772	2.10	5	97.3	70	130	
U	238	1	nogas	4.570	3.625	160656	2.19	5	91.4	70	130	
Li	7	1	nogas	4.442	0.878	152069	0.96	5	88.8	70	130	
Na	23	2	He	481.735	0.640	745403	0.76	500	96.3	70	130	
Mg	24	2	He	485.769	0.716	405489	1.12	500	97.2	70	130	
Al	27	2	He	4.916	7.868	3937	3.94	5	98.3	70	130	
K	39	2	He	471.878	1.061	478265	0.19	500	94.4	70	130	
Ca	43	2	He	498.209	5.671	1220	5.74	500	99.6	70	130	
Ca	44	2	He	495.258	3.914	20865	2.87	500	99.1	70	130	
V	51	2	He	4.866	0.814	27352	0.51	5	97.3	70	130	
Cr	52	2	He	4.866	2.488	37083	2.60	5	97.3	70	130	
Mn	55	2	He	4.878	4.666	21983	4.69	5	97.6	70	130	
Fe	56	2	He	482.285	1.959	2615637	1.36	500	96.5	70	130	
Co	59	2	He	5.094	1.164	39348	1.10	5	101.9	70	130	
Ni	60	2	He	4.897	4.295	9510	4.74	5	97.9	70	130	
Cu	63	2	He	4.947	1.257	24607	2.24	5	98.9	70	130	
Zn	66	2	He	5.014	9.442	6125	8.21	5	100.3	70	130	
As	75	2	He	4.898	4.178	4003	3.31	5	98.0	70	130	
Sb	121	2	He	4.843	1.725	20622	1.12	5	96.9	70	130	
Se	78	2	He	5.024	6.622	441	6.46	5	100.5	70	130	
Ti	47	2	He	5.051	9.500	1153	8.73	5	101.0	70	130	
Zr	90	1	nogas	4.234	1.213	68369	1.73	5	84.7	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	1667351	1.36	1618408	103.02	70	120	
In	115	1	nogas	1885324	0.76	1821198	103.52	70	120	
Li	6	1	nogas	989308	0.57	967339	102.27	70	120	
Bi	209	1	nogas	1699584	1.45	1671348	101.69	70	120	
Ge	72	2	He	485776	1.03	465764	104.30	70	120	
In	115	2	He	718522	0.23	697773	102.97	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\070524A.b
Acq Date Time	2024-07-05T10:36:04-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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
Sb	121	1	nogas	0.020	9.6	1503	1.4	2	
V	51	2	He	-0.181	-61.9	1207	46.2	2.5	
Sb	121	2	He	-0.010	-78.7	573	6.6	2	
V	51	1	nogas	-0.008	-928.9	601	225.6	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	1675324	1.39	1618408	103.52	70	120	
In	115	1	nogas	1859705	1.16	1821198	102.11	70	120	
Li	6	1	nogas	988979	0.72	967339	102.24	70	120	
Bi	209	1	nogas	1672180	2.04	1671348	100.05	70	120	
Ge	72	2	He	481465	1.23	465764	103.37	70	120	
In	115	2	He	713943	0.92	697773	102.32	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSA
Data File Name	027ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T10:38:11-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	0.015	24.355	170	11.76	2	0.7	100	50	
B	11	1	nogas	2.429	12.651	25426	2.74	20	12.1	100	50	
Al	27	1	nogas	90726.421	1.205	1195000942	1.27	10	907264.2	100	0	
P	31	1	nogas	872909.743	2.272	71791727	0.90	20	4364548.7	100	50	ICSA Main CR1 FailedICSA Main CR2 Failed
Ti	47	1	nogas	1978.592	1.357	2629606	1.52	5	39571.8	100	50	ICSA Main CR1 Failed
Ni	60	1	nogas	1.552	5.048	6385	2.84	5	31.0	100	50	
Cu	63	1	nogas	1.144	2.097	12032	4.20	2	57.2	100	50	
Zn	66	1	nogas	3.702	4.988	12475	2.79	5	74.0	100	50	ICSA Main CR1 Failed
Se	77	1	nogas	12.797	12.758	5554	5.57	5	255.9	100	50	ICSA Main CR1 Failed
Se	82	1	nogas	0.259	210.651	230	33.96	2	12.9	100	50	
Sr	88	1	nogas	0.898	1.775	18822	3.55	5	18.0	100	50	
Mo	95	1	nogas	1975.354	1.627	8780237	0.60	5	39507.1	100	50	ICSA Main CR1 Failed
Ag	107	1	nogas	0.053	31.583	680	28.63	5	1.1	100	50	
Cd	111	1	nogas	0.894	33.424	1849	31.86	2	44.7	100	50	
Sn	118	1	nogas	0.207	2.236	3644	2.06	10	2.1	100	50	
Sb	121	1	nogas	0.064	11.418	1917	3.92	4	1.6	100	50	
Ba	137	1	nogas	0.484	5.051	1653	4.93	5	9.7	100	50	
Tl	205	1	nogas	0.013	11.829	503	6.07	2	0.6	100	50	
Pb	208	1	nogas	0.932	2.896	26364	2.85	5	18.6	100	50	
U	238	1	nogas	0.008	55.624	543	25.79	5	0.2	0	50	
Li	7	1	nogas	0.278	1.327	70438	1.31		#DIV/0!	0	50	
Ba	135	1	nogas	0.400	12.194	803	9.67		#DIV/0!	0	50	
Tl	203	1	nogas	0.007	62.511	180	22.22		#DIV/0!	0	50	
Na	23	2	He	97034.732	0.672	137002545	1.37	200	48517.4	100	0	
Mg	24	2	He	96878.862	1.051	77266269	0.21	200	48439.4	100	0	
Al	27	2	He	96154.921	0.957	46142046	1.10	10	961549.2	100	0	
K	39	2	He	97591.793	1.602	81698477	0.69	200	48795.9	100	0	
Ca	43	2	He	93026.936	0.519	214944	1.32	200	46513.5	100	0	
Ca	44	2	He	94624.801	0.667	3680340	0.63	200	47312.4	100	0	
V	51	2	He	0.225	55.604	3177	18.59	5	4.5	100	50	
Cr	52	2	He	0.752	15.101	12415	4.45	5	15.0	100	50	
Mn	55	2	He	1.531	6.249	6818	4.79	5	30.6	100	50	
Fe	56	2	He	96014.204	0.860	496286446	1.01	200	48007.1	100	50	ICSA Main CR1 Failed
Co	59	2	He	1.028	8.127	7679	6.98	5	20.6	100	50	
Ni	60	2	He	1.163	4.995	2260	4.22	5	23.3	100	50	
Cu	63	2	He	0.969	3.926	5004	4.70	2	48.4	100	50	
Zn	66	2	He	3.317	8.481	4144	6.00	5	66.3	100	50	ICSA Main CR1 Failed
As	75	2	He	0.401	20.959	448	13.81	5	8.0	100	50	
Sb	121	2	He	0.064	8.724	847	2.73	4	1.6	100	50	
Se	78	2	He	-0.064	-242.227	60	17.32	2	-3.2	100	50	
Ti	47	2	He	1969.718	1.687	424138	0.70	5	39394.4	100	50	ICSA Main CR1 Failed
Cr	52	1	nogas	0.699	5.249	23789	1.33		#DIV/0!	0	50	
Mn	55	1	nogas	0.971	2.957	25485	1.58		#DIV/0!	0	50	
Co	59	1	nogas	0.935	4.849	17043	2.51		#DIV/0!	0	50	
V	51	1	nogas	0.083	71.109	2308	48.11		#DIV/0!	0	50	
Fe	56	1	nogas	95824.768	2.217	1732599388	0.22		#DIV/0!	0	50	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1662815	2.44	1618408	102.74	70	120	
In	115	1	nogas	1689169	1.95	1821198	92.75	70	120	
Li	6	1	nogas	905861	1.23	967339	93.64	70	120	
Bi	209	1	nogas	1523709	0.95	1671348	91.17	70	120	
Ge	72	2	He	464947	1.23	465764	99.82	70	120	
In	115	2	He	647092	0.30	697773	92.74	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\070524A.b
Acq Date Time	2024-07-05T10:40:15-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	90.412	0.492	459544	0.98	100	90.4	80	120	
B	11	1	nogas	487.132	0.151	1544152	0.88	100	487.1	80	120	ICSB Main CR1 Failed
Al	27	1	nogas	92987.663	2.415	1247947901	0.81	100100	92.9	80	120	
Ti	47	1	nogas	2151.780	0.929	2914291	0.73	2100	102.5	80	120	
Ni	60	1	nogas	90.402	0.831	364367	1.35	100	90.4	80	120	
Cu	63	1	nogas	90.186	0.523	870779	1.59	100	90.2	80	120	
Zn	66	1	nogas	97.072	0.991	274353	1.21	100	97.1	80	120	
Se	77	1	nogas	118.194	2.911	18201	0.85	100	118.2	80	120	
Se	82	1	nogas	97.601	3.862	15448	4.74	100	97.6	80	120	
Sr	88	1	nogas	103.278	0.827	2145314	2.31	100	103.3	80	120	
Mo	95	1	nogas	2148.974	1.788	9735311	1.28	2100	102.3	80	120	
Ag	107	1	nogas	97.301	0.481	1066753	1.89	100	97.3	80	120	
Cd	111	1	nogas	100.874	0.799	212814	1.34	100	100.9	80	120	
Sn	118	1	nogas	99.700	0.311	655456	1.58	100	99.7	80	120	
Sb	121	1	nogas	96.198	1.248	957343	1.41	100	96.2	80	120	
Ba	137	1	nogas	101.270	0.468	331463	2.19	100	101.3	80	120	
Tl	205	1	nogas	100.535	2.583	2025075	2.79	100	100.5	80	120	
Pb	208	1	nogas	101.599	1.976	2810903	2.19	100	101.6	80	120	
U	238	1	nogas	100.267	2.029	3204824	2.19	100	100.3	80	120	
Li	7	1	nogas	97.030	0.376	1594560	0.70	100	97.0	80	120	
Na	23	2	He	110304.177	1.067	157129908	1.01	110000	100.3	80	120	
Mg	24	2	He	109084.629	1.069	87788632	1.01	110000	99.2	80	120	
Al	27	2	He	99079.878	0.679	47974523	0.86	100100	99.0	80	120	
K	39	2	He	110684.670	1.052	93492882	1.03	110000	100.6	80	120	
Ca	43	2	He	107041.228	0.716	249540	0.61	110000	97.3	80	120	
Ca	44	2	He	108108.241	1.003	4242606	1.01	110000	98.3	80	120	
V	51	2	He	96.497	0.584	484500	0.71	100	96.5	80	120	
Cr	52	2	He	95.770	0.745	550129	0.61	100	95.8	80	120	
Mn	55	2	He	96.659	1.143	414558	0.98	100	96.7	80	120	
Fe	56	2	He	108613.380	0.533	566470552	0.63	110000	98.7	80	120	
Co	59	2	He	94.717	0.493	704686	0.46	100	94.7	80	120	
Ni	60	2	He	93.303	1.788	172588	1.92	100	93.3	80	120	
Cu	63	2	He	93.078	1.072	438309	0.89	100	93.1	80	120	
Zn	66	2	He	98.754	1.756	101550	1.57	100	98.8	80	120	
As	75	2	He	100.134	0.699	76170	0.64	100	100.1	80	120	
Sb	121	2	He	98.297	1.302	392691	1.24	100	98.3	80	120	
Se	78	2	He	100.234	2.567	7253	2.38	100	100.2	80	120	
Ti	47	2	He	2146.286	0.364	466365	0.46	100	2146.3	80	120	ICSB Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1694373	1.60	1618408	104.69	70	120	
In	115	1	nogas	1721519	1.76	1821198	94.53	70	120	
Li	6	1	nogas	865479	0.74	967339	89.47	70	120	
Bi	209	1	nogas	1547756	0.24	1671348	92.61	70	120	
Ge	72	2	He	469118	0.18	465764	100.72	70	120	
In	115	2	He	644125	0.50	697773	92.31	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	031_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T11:03:07-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	101.226	0.537	558399	0.36	100	101.2	90	110	
B	11	1	nogas	455.329	1.380	1567732	1.66	500	91.1	90	110	
Al	27	1	nogas	105.101	0.959	1485999	1.04	100	105.1	90	110	
P	31	1	nogas	4595.015	1.056	428412	0.51	500	919.0	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	109.268	1.094	151931	1.51	100	109.3	90	110	
Ni	60	1	nogas	106.882	0.237	441821	1.36	100	106.9	90	110	
Cu	63	1	nogas	106.371	0.360	1053241	1.78	100	106.4	90	110	
Zn	66	1	nogas	105.658	0.718	306080	1.01	100	105.7	90	110	
Se	77	1	nogas	105.566	4.313	17127	2.27	100	105.6	90	110	
Se	82	1	nogas	105.393	3.797	17093	4.59	100	105.4	90	110	
Sr	88	1	nogas	106.105	0.238	2432753	0.86	100	106.1	90	110	
Mo	95	1	nogas	102.468	0.644	512747	1.15	100	102.5	90	110	
Ag	107	1	nogas	102.720	0.342	1243130	1.37	100	102.7	90	110	
Cd	111	1	nogas	106.703	0.646	248510	1.45	100	106.7	90	110	
Sn	118	1	nogas	106.648	0.118	773793	1.19	100	106.6	90	110	
Sb	121	1	nogas	108.261	0.531	1105024	1.94	100	108.3	90	110	
Ba	137	1	nogas	104.643	1.351	378084	2.32	100	104.6	90	110	
Tl	205	1	nogas	109.812	2.149	2487438	1.45	100	109.8	90	110	
Pb	208	1	nogas	105.475	2.305	3281598	1.62	100	105.5	90	110	
U	238	1	nogas	110.717	2.136	3979673	1.50	100	110.7	90	110	CCV Main CR1-2 Failed
Li	7	1	nogas	95.855	0.530	1710520	0.75	100	95.9	90	110	
Ba	135	1	nogas	105.418	1.958	214866	2.90	100	105.4	90	110	
Tl	203	1	nogas	109.406	2.614	1023646	2.01	100	109.4	90	110	
Na	23	2	He	9735.074	2.537	14787231	2.58	10000	97.4	90	110	
Mg	24	2	He	9994.900	0.867	8558458	0.73	10000	99.9	90	110	
Al	27	2	He	102.869	0.154	54507	0.63	100	102.9	90	110	
K	39	2	He	10021.596	1.522	9067877	1.70	10000	100.2	90	110	
Ca	43	2	He	10038.558	1.134	24914	0.62	10000	100.4	90	110	
Ca	44	2	He	9866.957	0.688	412683	1.19	10000	98.7	90	110	
V	51	2	He	105.378	0.451	562711	0.66	100	105.4	90	110	
Cr	52	2	He	105.818	0.349	645784	0.50	100	105.8	90	110	
Mn	55	2	He	104.594	1.073	477256	1.35	100	104.6	90	110	
Fe	56	2	He	10060.917	0.774	55838008	1.02	10000	100.6	90	110	
Co	59	2	He	105.681	0.466	836503	0.45	100	105.7	90	110	
Ni	60	2	He	106.522	0.467	209614	0.52	100	106.5	90	110	
Cu	63	2	He	106.148	0.792	531736	0.47	100	106.1	90	110	
Zn	66	2	He	102.558	0.861	112175	1.22	100	102.6	90	110	
As	75	2	He	103.798	1.246	83996	0.75	100	103.8	90	110	
Sb	121	2	He	105.680	0.406	449129	0.55	100	105.7	90	110	
Se	78	2	He	105.706	1.153	8134	0.64	100	105.7	90	110	
Ti	47	2	He	104.472	2.622	24170	2.78	100	104.5	90	110	
Zr	90	1	nogas	51.780	0.435	827806	1.52	100	51.8	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1737879	1.44	1618408	107.38	70	120	
In	115	1	nogas	1900311	1.09	1821198	104.34	70	120	
Li	6	1	nogas	939342	0.40	967339	97.11	70	120	
Bi	209	1	nogas	1740789	0.71	1671348	104.15	70	120	
Ge	72	2	He	499111	0.52	465764	107.16	70	120	
In	115	2	He	727422	0.59	697773	104.25	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	032_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T11:05:12-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	0.058	26.7	442	20.5	2.5	
B	11	1	nogas	10.704	21.3	57969	14.1	2.5	CCB Main CR1 Failed
Al	27	1	nogas	0.617	9.9	47106	2.1	5	
P	31	1	nogas	-18.233	-46.2	31666	2.6	2.5	
Ti	47	1	nogas	0.343	30.4	610	23.6	2.5	
Ni	60	1	nogas	0.119	13.9	750	9.3	2.5	
Cu	63	1	nogas	0.081	24.2	2044	9.6	5	
Zn	66	1	nogas	0.124	81.0	2737	10.3	2.5	
Se	77	1	nogas	-6.619	-25.9	3400	5.8	2.5	
Se	82	1	nogas	0.241	164.7	237	26.8	5	
Sr	88	1	nogas	0.071	13.9	2230	10.6	2.5	
Mo	95	1	nogas	0.728	18.6	3961	17.2	2.5	
Ag	107	1	nogas	0.077	14.9	1070	13.6	2.5	
Cd	111	1	nogas	0.069	62.3	169	60.1	2.5	
Sn	118	1	nogas	0.600	11.2	7025	7.2	2.5	
Sb	121	1	nogas	0.327	7.8	4647	5.2	2	
Ba	137	1	nogas	0.084	9.9	420	7.1	2.5	
Tl	205	1	nogas	0.378	49.4	8970	48.8	2.5	
Pb	208	1	nogas	0.094	13.2	4074	10.4	2.5	
U	238	1	nogas	0.094	25.9	3724	24.6	2.5	
Na	23	2	He	8.921	3.0	49152	0.7	100	
Mg	24	2	He	4.933	0.6	4891	1.0	100	
Al	27	2	He	0.268	138.7	1643	12.1	5	
K	39	2	He	6.698	6.3	73222	0.2	100	
Ca	43	2	He	17.153	41.8	60	28.9	100	
Ca	44	2	He	12.464	14.4	1280	6.1	100	
V	51	2	He	-0.042	-228.4	1988	25.9	2.5	
Cr	52	2	He	-0.142	-42.0	7899	4.3	2.5	
Mn	55	2	He	0.121	4.7	890	2.2	2.5	
Fe	56	2	He	7.560	6.4	53254	5.7	100	
Co	59	2	He	0.047	24.4	480	18.2	2.5	
Ni	60	2	He	0.088	27.1	310	14.8	2.5	
Cu	63	2	He	0.061	28.5	823	9.9	5	
Zn	66	2	He	0.137	49.9	993	8.1	2.5	
As	75	2	He	0.154	32.2	280	14.5	2.5	
Sb	121	2	He	0.211	6.2	1520	3.0	2	
Se	78	2	He	0.455	45.4	103	14.5	5	
Ti	47	2	He	0.636	147.1	163	130.9	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	1722285	0.31	1618408	106.42	70	120	
In	115	1	nogas	1924274	0.36	1821198	105.66	70	120	
Li	6	1	nogas	998652	0.23	967339	103.24	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	1756378	0.99	1671348	105.09	70	120	
Ge	72	2	He	496159	0.75	465764	106.53	70	120	
In	115	2	He	737924	0.56	697773	105.75	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	043_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T11:28:49-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	101.622	0.139	577223	0.66	100	101.6	90	110	
B	11	1	nogas	453.305	0.914	1607181	1.53	500	90.7	90	110	
Al	27	1	nogas	104.415	0.932	1517545	0.60	100	104.4	90	110	
P	31	1	nogas	4635.996	1.986	443911	1.01	500	927.2	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	108.919	0.815	155659	1.65	100	108.9	90	110	
Ni	60	1	nogas	105.778	0.978	449412	1.71	100	105.8	90	110	
Cu	63	1	nogas	106.838	0.568	1087206	1.41	100	106.8	90	110	
Zn	66	1	nogas	104.600	1.138	311458	1.37	100	104.6	90	110	
Se	77	1	nogas	102.729	1.577	17250	1.47	100	102.7	90	110	
Se	82	1	nogas	107.123	1.945	17851	2.57	100	107.1	90	110	
Sr	88	1	nogas	106.335	0.716	2481263	0.71	100	106.3	90	110	
Mo	95	1	nogas	102.017	0.032	519564	1.18	100	102.0	90	110	
Ag	107	1	nogas	103.048	0.321	1269209	1.00	100	103.0	90	110	
Cd	111	1	nogas	107.202	0.809	254103	1.40	100	107.2	90	110	
Sn	118	1	nogas	106.229	0.222	784446	1.19	100	106.2	90	110	
Sb	121	1	nogas	107.350	0.956	1126134	1.81	100	107.4	90	110	
Ba	137	1	nogas	104.436	0.815	384030	1.96	100	104.4	90	110	
Tl	205	1	nogas	108.944	2.662	2500195	1.95	100	108.9	90	110	
Pb	208	1	nogas	105.576	2.337	3327926	1.59	100	105.6	90	110	
U	238	1	nogas	111.113	3.374	4046204	2.66	100	111.1	90	110	CCV Main CR1-2 Failed
Li	7	1	nogas	95.927	0.163	1762562	0.82	100	95.9	90	110	
Ba	135	1	nogas	104.575	0.893	216920	1.95	100	104.6	90	110	
Tl	203	1	nogas	109.202	3.500	1035126	2.76	100	109.2	90	110	
Na	23	2	He	10020.690	0.527	15436867	1.95	10000	100.2	90	110	
Mg	24	2	He	10168.615	1.755	8829465	0.15	10000	101.7	90	110	
Al	27	2	He	105.453	2.275	56618	0.62	100	105.5	90	110	
K	39	2	He	10074.423	2.702	9242153	1.10	10000	100.7	90	110	
Ca	43	2	He	10060.936	1.135	25325	1.71	10000	100.6	90	110	
Ca	44	2	He	9981.613	2.520	423281	0.94	10000	99.8	90	110	
V	51	2	He	106.378	0.543	576069	1.08	100	106.4	90	110	
Cr	52	2	He	106.390	0.828	658403	0.81	100	106.4	90	110	
Mn	55	2	He	104.750	1.128	484698	0.56	100	104.8	90	110	
Fe	56	2	He	10039.249	1.564	56500109	0.07	10000	100.4	90	110	
Co	59	2	He	106.331	0.916	853560	1.04	100	106.3	90	110	
Ni	60	2	He	106.979	1.090	213482	0.64	100	107.0	90	110	
Cu	63	2	He	107.891	1.358	548077	0.26	100	107.9	90	110	
Zn	66	2	He	103.072	2.191	114307	0.57	100	103.1	90	110	
As	75	2	He	104.496	1.245	85759	1.20	100	104.5	90	110	
Sb	121	2	He	107.139	0.955	461818	2.15	100	107.1	90	110	
Se	78	2	He	104.597	0.971	8164	0.80	100	104.6	90	110	
Ti	47	2	He	105.102	1.312	24664	2.91	100	105.1	90	110	
Zr	90	1	nogas	51.978	0.194	845702	1.34	100	52.0	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1786085	0.86	1618408	110.36	70	120	
In	115	1	nogas	1934061	1.18	1821198	106.20	70	120	
Li	6	1	nogas	967220	0.69	967339	99.99	70	120	
Bi	209	1	nogas	1763699	0.76	1671348	105.53	70	120	
Ge	72	2	He	506208	1.62	465764	108.68	70	120	
In	115	2	He	740438	0.68	697773	106.11	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	044_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T11:30:56-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	0.060	17.1	458	13.7	2.5	
B	11	1	nogas	10.191	19.5	57176	12.8	2.5	CCB Main CR1 Failed
Al	27	1	nogas	0.640	18.1	47975	3.2	5	
P	31	1	nogas	-9.376	-47.5	32802	0.8	2.5	
Ti	47	1	nogas	0.230	8.8	460	5.8	2.5	
Ni	60	1	nogas	0.119	25.6	757	16.6	2.5	
Cu	63	1	nogas	0.063	19.0	1883	6.1	5	
Zn	66	1	nogas	0.142	51.0	2820	7.3	2.5	
Se	77	1	nogas	-5.346	-17.4	3597	3.3	2.5	
Se	82	1	nogas	0.805	27.6	330	10.5	5	
Sr	88	1	nogas	0.083	20.5	2540	14.4	2.5	
Mo	95	1	nogas	0.588	27.6	3277	24.0	2.5	
Ag	107	1	nogas	0.079	12.2	1107	11.4	2.5	
Cd	111	1	nogas	0.079	16.9	195	15.8	2.5	
Sn	118	1	nogas	0.626	13.9	7275	7.8	2.5	
Sb	121	1	nogas	0.343	19.4	4858	13.7	2	
Ba	137	1	nogas	0.091	9.9	450	6.7	2.5	
Tl	205	1	nogas	0.361	44.6	8560	44.2	2.5	
Pb	208	1	nogas	0.099	20.5	4230	16.2	2.5	
U	238	1	nogas	0.101	28.6	3974	27.3	2.5	
Na	23	2	He	8.534	7.8	49603	3.1	100	
Mg	24	2	He	5.027	5.2	5078	5.6	100	
Al	27	2	He	0.481	46.7	1790	7.9	5	
K	39	2	He	6.088	5.3	74217	1.3	100	
Ca	43	2	He	17.894	55.2	63	39.7	100	
Ca	44	2	He	13.135	42.7	1333	16.6	100	
V	51	2	He	-0.057	-94.4	1945	13.7	2.5	
Cr	52	2	He	-0.118	-70.7	8216	6.5	2.5	
Mn	55	2	He	0.120	16.8	903	9.5	2.5	
Fe	56	2	He	7.154	6.9	52097	6.3	100	
Co	59	2	He	0.058	19.1	580	15.0	2.5	
Ni	60	2	He	0.073	26.2	287	14.1	2.5	
Cu	63	2	He	0.054	12.3	803	5.6	5	
Zn	66	2	He	0.121	21.5	997	3.8	2.5	
As	75	2	He	0.139	10.5	273	4.4	2.5	
Sb	121	2	He	0.229	5.5	1633	2.8	2	
Se	78	2	He	0.390	32.7	101	10.9	5	
Ti	47	2	He	0.247	67.6	77	52.7	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	1742671	0.44	1618408	107.68	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	nogas	1941294	1.36	1821198	106.59	70	120	
Li	6	1	nogas	1017435	0.45	967339	105.18	70	120	
Bi	209	1	nogas	1754224	1.14	1671348	104.96	70	120	
Ge	72	2	He	506665	1.45	465764	108.78	70	120	
In	115	2	He	745617	0.43	697773	106.86	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	067_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T12:22:05-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	99.969	0.509	529439	0.37	100	100.0	90	110	
B	11	1	nogas	446.103	1.861	1474998	2.27	500	89.2	90	110	CCV Main CR1-2 Failed
Al	27	1	nogas	100.555	1.166	1428252	1.94	100	100.6	90	110	
P	31	1	nogas	4423.905	1.287	415072	0.50	500	884.8	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	105.057	1.376	146583	2.57	100	105.1	90	110	
Ni	60	1	nogas	102.546	0.591	425301	1.08	100	102.5	90	110	
Cu	63	1	nogas	103.541	1.042	1028584	1.39	100	103.5	90	110	
Zn	66	1	nogas	102.583	0.496	298231	1.05	100	102.6	90	110	
Se	77	1	nogas	103.724	4.769	16967	4.77	100	103.7	90	110	
Se	82	1	nogas	105.668	1.165	17190	0.92	100	105.7	90	110	
Sr	88	1	nogas	103.147	0.962	2437859	1.52	100	103.1	90	110	
Mo	95	1	nogas	98.463	1.200	507930	2.07	100	98.5	90	110	
Ag	107	1	nogas	99.640	1.483	1243098	2.47	100	99.6	90	110	
Cd	111	1	nogas	103.380	1.794	248215	2.82	100	103.4	90	110	
Sn	118	1	nogas	105.284	1.433	787493	2.13	100	105.3	90	110	
Sb	121	1	nogas	109.448	0.382	1120754	1.27	100	109.4	90	110	
Ba	137	1	nogas	103.317	0.851	384760	1.28	100	103.3	90	110	
Tl	205	1	nogas	107.600	2.491	2499644	1.94	100	107.6	90	110	
Pb	208	1	nogas	104.225	1.881	3325704	1.28	100	104.2	90	110	
U	238	1	nogas	108.666	2.642	4005699	1.95	100	108.7	90	110	
Li	7	1	nogas	95.059	0.463	1629105	0.85	100	95.1	90	110	
Ba	135	1	nogas	104.435	1.688	219401	2.18	100	104.4	90	110	
Tl	203	1	nogas	107.384	2.503	1030411	1.86	100	107.4	90	110	
Na	23	2	He	9549.730	2.711	14405012	2.53	10000	95.5	90	110	
Mg	24	2	He	9763.050	1.402	8301560	0.77	10000	97.6	90	110	
Al	27	2	He	100.708	2.170	53018	1.60	100	100.7	90	110	
K	39	2	He	9693.662	0.383	8712530	1.05	10000	96.9	90	110	
Ca	43	2	He	9578.416	2.756	23605	1.85	10000	95.8	90	110	
Ca	44	2	He	9631.848	1.058	400045	0.48	10000	96.3	90	110	
V	51	2	He	103.037	0.685	546424	0.30	100	103.0	90	110	
Cr	52	2	He	102.456	1.332	621171	0.41	100	102.5	90	110	
Mn	55	2	He	102.193	0.350	463059	0.56	100	102.2	90	110	
Fe	56	2	He	9865.711	1.197	54374816	1.43	10000	98.7	90	110	
Co	59	2	He	103.593	1.010	814267	0.51	100	103.6	90	110	
Ni	60	2	He	103.275	1.228	201827	1.77	100	103.3	90	110	
Cu	63	2	He	104.229	0.463	518523	0.74	100	104.2	90	110	
Zn	66	2	He	102.925	1.076	111798	1.92	100	102.9	90	110	
As	75	2	He	104.683	1.310	84121	0.48	100	104.7	90	110	
Sb	121	2	He	108.511	1.095	457928	0.61	100	108.5	90	110	
Se	78	2	He	104.736	0.889	8005	1.50	100	104.7	90	110	
Ti	47	2	He	102.093	1.016	23455	1.11	100	102.1	90	110	
Zr	90	1	nogas	49.895	1.521	822255	1.84	100	49.9	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1743610	1.23	1618408	107.74	70	120	
In	115	1	nogas	1958849	1.04	1821198	107.56	70	120	
Li	6	1	nogas	901830	0.77	967339	93.23	70	120	
Bi	209	1	nogas	1785293	0.80	1671348	106.82	70	120	
Ge	72	2	He	495654	0.90	465764	106.42	70	120	
In	115	2	He	732801	0.64	697773	105.02	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	068_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T12:24:11-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	0.075	15.8	517	12.9	2.5	
B	11	1	nogas	8.619	21.4	48214	13.0	2.5	CCB Main CR1 Failed
Al	27	1	nogas	0.943	2.2	51145	1.9	5	
P	31	1	nogas	-30.270	-13.6	30397	0.2	2.5	
Ti	47	1	nogas	0.271	17.7	507	11.9	2.5	
Ni	60	1	nogas	0.141	21.8	833	14.0	2.5	
Cu	63	1	nogas	0.142	6.9	2617	2.5	5	
Zn	66	1	nogas	0.188	40.9	2897	8.6	2.5	
Se	77	1	nogas	-0.589	-452.1	4097	7.4	2.5	
Se	82	1	nogas	0.634	31.8	297	10.3	5	
Sr	88	1	nogas	0.099	9.1	2904	6.7	2.5	
Mo	95	1	nogas	0.599	10.4	3317	10.0	2.5	
Ag	107	1	nogas	0.075	19.4	1040	17.7	2.5	
Cd	111	1	nogas	0.073	15.7	179	15.1	2.5	
Sn	118	1	nogas	0.688	15.6	7686	10.8	2.5	
Sb	121	1	nogas	0.334	8.5	4674	4.8	2	
Ba	137	1	nogas	0.112	31.0	523	24.9	2.5	
Tl	205	1	nogas	0.402	43.6	9577	43.5	2.5	
Pb	208	1	nogas	0.144	12.3	5701	11.1	2.5	
U	238	1	nogas	0.110	18.1	4347	18.1	2.5	
Na	23	2	He	14.873	2.8	58227	0.8	100	
Mg	24	2	He	5.868	8.1	5698	7.4	100	
Al	27	2	He	1.030	36.8	2037	9.8	5	
K	39	2	He	5.879	25.4	72632	2.1	100	
Ca	43	2	He	17.068	23.5	60	16.7	100	
Ca	44	2	He	14.652	13.0	1373	5.9	100	
V	51	2	He	-0.021	-482.5	2097	25.6	2.5	
Cr	52	2	He	-0.190	-16.2	7632	2.2	2.5	
Mn	55	2	He	0.092	35.2	760	19.6	2.5	
Fe	56	2	He	8.506	8.5	58577	7.1	100	
Co	59	2	He	0.044	23.9	457	18.4	2.5	
Ni	60	2	He	0.099	8.0	333	4.6	2.5	
Cu	63	2	He	0.105	14.0	1043	7.2	5	
Zn	66	2	He	0.145	50.5	1003	8.0	2.5	
As	75	2	He	0.207	21.7	323	10.9	2.5	
Sb	121	2	He	0.164	22.2	1327	11.8	2	
Se	78	2	He	0.363	54.0	97	15.7	5	
Ti	47	2	He	0.139	61.9	50	40.0	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	1708823	1.33	1618408	105.59	70	120	
In	115	1	nogas	1927920	0.59	1821198	105.86	70	120	
Li	6	1	nogas	954875	0.40	967339	98.71	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	1767667	1.25	1671348	105.76	70	120	
Ge	72	2	He	497100	0.30	465764	106.73	70	120	
In	115	2	He	738308	0.51	697773	105.81	70	120	

Sample Report

Sample Table

Sample Name	LCS-214353
Data File Name	070SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T12:28:36-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	011CALB.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	41.412	41.412	0.35	230507	0.02	2000	
B	11	1	nogas	2.580	2.580	23.14	27112	0.01	2000	
Al	27	1	nogas	99.614	99.614	1.61	1388179	0.01	2000	
Ti	47	1	nogas	138.078	138.078	1.01	188928	0.07	2000	
Ni	60	1	nogas	46.986	46.986	0.80	191322	0.02	2000	
Cu	63	1	nogas	47.185	47.185	0.50	460535	0.01	2000	
Zn	66	1	nogas	46.913	46.913	2.28	135057	0.03	2000	
Se	77	1	nogas	49.787	49.787	1.26	10157	0.49	2000	
Se	82	1	nogas	49.079	49.079	1.08	7939	0.62	2000	
Sr	88	1	nogas	90.615	90.615	0.92	2120202	0.00	2000	
Mo	95	1	nogas	45.882	45.882	1.26	234444	0.02	2000	
Ag	107	1	nogas	47.055	47.055	0.63	581112	0.01	2000	
Cd	111	1	nogas	46.643	46.643	2.22	110878	0.04	2000	
Sn	118	1	nogas	91.947	91.947	1.05	681167	0.01	2000	
Sb	121	1	nogas	48.184	48.184	0.62	484832	0.01	2000	
Ba	137	1	nogas	47.160	47.160	0.85	173914	0.03	2000	
Tl	205	1	nogas	44.774	44.774	4.42	1069639	0.00	2000	
Pb	208	1	nogas	45.080	45.080	4.47	1479610	0.00	2000	
U	238	1	nogas	0.013	0.013	21.51	827	0.00	2000	
Na	23	2	He	4605.136	4605.136	1.11	6976016	0.07	200000	
Mg	24	2	He	4541.074	4541.074	0.66	3868097	0.12	200000	
Al	27	2	He	99.353	99.353	0.81	52413	0.19	2000	
K	39	2	He	4470.327	4470.327	0.52	4060364	0.11	200000	
Ca	43	2	He	4926.032	4926.032	2.32	12168	40.48	200000	
Ca	44	2	He	4795.399	4795.399	1.73	199868	2.40	200000	
V	51	2	He	45.623	45.623	0.42	243570	0.02	2000	
Cr	52	2	He	46.301	46.301	0.28	285979	0.02	2000	
Mn	55	2	He	46.732	46.732	0.92	212274	0.02	2000	
Fe	56	2	He	4794.159	4794.159	1.51	26469297	0.02	200000	
Co	59	2	He	46.993	46.993	0.44	370036	0.01	2000	
Ni	60	2	He	46.334	46.334	0.52	90766	0.05	2000	
Cu	63	2	He	47.635	47.635	0.95	237639	0.02	2000	
Zn	66	2	He	46.462	46.462	1.89	51007	0.09	2000	
As	75	2	He	46.512	46.512	1.27	37524	0.12	2000	
Sb	121	2	He	47.670	47.670	0.34	201857	0.02	2000	
Se	78	2	He	45.861	45.861	1.27	3549	1.29	2000	
Ti	47	2	He	135.597	135.597	0.36	31196	0.43	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	1710638	2.03	1618408	105.70	70	120	
In	115	1	nogas	1939083	1.89	1821198	106.47	70	120	
Li	6	1	nogas	947586	0.84	967339	97.96	70	120	
Bi	209	1	nogas	1836747	2.48	1671348	109.90	70	120	

Sample Report

Ge	72	2	He	496433	0.66	465764	106.58	70	120	
In	115	2	He	743357	1.25	697773	106.53	70	120	

Sample Report

Sample Table

Sample Name	HS24061247-01MS
Data File Name	073SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T12:34:54-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	011CALB.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	41.354	41.354	0.83	220958	0.02	2000	
B	11	1	nogas	93.104	93.104	0.90	324357	0.03	2000	
Al	27	1	nogas	222.906	222.906	0.69	2992145	0.01	2000	
Ti	47	1	nogas	141.949	141.949	0.91	189980	0.07	2000	
Ni	60	1	nogas	45.647	45.647	1.74	181814	0.03	2000	
Cu	63	1	nogas	46.664	46.664	1.44	445504	0.01	2000	
Zn	66	1	nogas	48.330	48.330	1.37	136050	0.04	2000	
Se	77	1	nogas	52.415	52.415	0.75	10244	0.51	2000	
Se	82	1	nogas	47.074	47.074	0.74	7455	0.63	2000	
Sr	88	1	nogas	105.440	105.440	0.29	2406284	0.00	2000	
Mo	95	1	nogas	44.702	44.702	1.48	222794	0.02	2000	
Ag	107	1	nogas	45.203	45.203	0.74	544575	0.01	2000	
Cd	111	1	nogas	46.302	46.302	1.22	107341	0.04	2000	
Sn	118	1	nogas	96.638	96.638	1.83	698207	0.01	2000	
Sb	121	1	nogas	47.209	47.209	1.27	464617	0.01	2000	
Ba	137	1	nogas	62.669	62.669	0.64	225415	0.03	2000	
Tl	205	1	nogas	46.053	46.053	2.63	1043361	0.00	2000	
Pb	208	1	nogas	46.481	46.481	2.75	1446764	0.00	2000	
U	238	1	nogas	0.013	0.013	11.56	780	0.00	2000	
Na	23	2	He	22314.738	22314.738	1.71	32815745	0.07	200000	
Mg	24	2	He	4786.467	4786.467	1.46	3973900	0.12	200000	
Al	27	2	He	224.491	224.491	1.42	113583	0.20	2000	
K	39	2	He	8268.878	8268.878	0.46	7265167	0.11	200000	
Ca	43	2	He	6042.454	6042.454	5.35	14547	41.54	200000	
Ca	44	2	He	6000.157	6000.157	1.66	243580	2.46	200000	
V	51	2	He	44.738	44.738	1.18	232847	0.02	2000	
Cr	52	2	He	44.540	44.540	0.44	268475	0.02	2000	
Mn	55	2	He	98.784	98.784	0.11	437012	0.02	2000	
Fe	56	2	He	6156.919	6156.919	1.46	33132002	0.02	200000	
Co	59	2	He	45.702	45.702	0.40	350782	0.01	2000	
Ni	60	2	He	45.180	45.180	1.21	86270	0.05	2000	
Cu	63	2	He	46.055	46.055	0.77	223969	0.02	2000	
Zn	66	2	He	47.738	47.738	2.19	51061	0.09	2000	
As	75	2	He	45.518	45.518	0.83	35798	0.13	2000	
Sb	121	2	He	46.496	46.496	1.81	191919	0.02	2000	
Se	78	2	He	45.860	45.860	2.24	3460	1.33	2000	
Ti	47	2	He	138.410	138.410	1.15	31039	0.45	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	1673037	0.60	1618408	103.38	70	120	
In	115	1	nogas	1891496	1.10	1821198	103.86	70	120	
Li	6	1	nogas	909618	0.35	967339	94.03	70	120	
Bi	209	1	nogas	1741148	2.15	1671348	104.18	70	120	

Sample Report

Ge	72	2	He	483892	0.32	465764	103.89	70	120	
In	115	2	He	718962	1.14	697773	103.04	70	120	

Sample Report

Sample Table

Sample Name	HS24061247-01MSD
Data File Name	074SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T12:37:00-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	011CALB.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	39.456	39.456	0.44	212133	0.02	2000	
B	11	1	nogas	90.841	90.841	0.48	318872	0.03	2000	
Al	27	1	nogas	214.220	214.220	0.20	2893707	0.01	2000	
Ti	47	1	nogas	138.130	138.130	0.93	185931	0.07	2000	
Ni	60	1	nogas	43.826	43.826	1.15	175590	0.02	2000	
Cu	63	1	nogas	44.024	44.024	1.30	422796	0.01	2000	
Zn	66	1	nogas	45.830	45.830	2.09	129900	0.04	2000	
Se	77	1	nogas	53.100	53.100	1.49	10384	0.51	2000	
Se	82	1	nogas	44.407	44.407	0.98	7085	0.63	2000	
Sr	88	1	nogas	101.382	101.382	0.62	2318491	0.00	2000	
Mo	95	1	nogas	43.075	43.075	1.09	215129	0.02	2000	
Ag	107	1	nogas	43.830	43.830	0.47	529116	0.01	2000	
Cd	111	1	nogas	44.035	44.035	1.69	102276	0.04	2000	
Sn	118	1	nogas	94.220	94.220	0.94	682075	0.01	2000	
Sb	121	1	nogas	45.476	45.476	0.48	450213	0.01	2000	
Ba	137	1	nogas	60.240	60.240	1.99	217081	0.03	2000	
Tl	205	1	nogas	44.164	44.164	2.35	1003242	0.00	2000	
Pb	208	1	nogas	44.498	44.498	2.43	1388810	0.00	2000	
U	238	1	nogas	0.012	0.012	12.04	757	0.00	2000	
Na	23	2	He	21729.535	21729.535	3.07	32171840	0.07	200000	
Mg	24	2	He	4578.997	4578.997	1.70	3827700	0.12	200000	
Al	27	2	He	213.526	213.526	1.67	108850	0.20	2000	
K	39	2	He	7958.106	7958.106	1.81	7042184	0.11	200000	
Ca	43	2	He	5894.732	5894.732	1.58	14290	41.25	200000	
Ca	44	2	He	5739.843	5739.843	0.73	234656	2.45	200000	
V	51	2	He	43.186	43.186	1.08	226418	0.02	2000	
Cr	52	2	He	43.305	43.305	0.85	263072	0.02	2000	
Mn	55	2	He	95.241	95.241	1.71	424217	0.02	2000	
Fe	56	2	He	5968.157	5968.157	0.99	32337808	0.02	200000	
Co	59	2	He	43.630	43.630	1.24	337178	0.01	2000	
Ni	60	2	He	44.256	44.256	2.78	85083	0.05	2000	
Cu	63	2	He	43.880	43.880	1.46	214891	0.02	2000	
Zn	66	2	He	44.600	44.600	2.32	48088	0.09	2000	
As	75	2	He	43.713	43.713	0.71	34621	0.13	2000	
Sb	121	2	He	45.319	45.319	0.37	188373	0.02	2000	
Se	78	2	He	43.977	43.977	1.38	3343	1.32	2000	
Ti	47	2	He	133.835	133.835	1.81	30217	0.44	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	1682789	1.16	1618408	103.98	70	120	
In	115	1	nogas	1895429	1.91	1821198	104.08	70	120	
Li	6	1	nogas	915258	0.99	967339	94.62	70	120	
Bi	209	1	nogas	1745368	0.57	1671348	104.43	70	120	

Sample Report

Ge	72	2	He	487236	0.93	465764	104.61	70	120	
In	115	2	He	721296	0.46	697773	103.37	70	120	

Sample Report

Sample Table

Sample Name	HS24061313-01MS
Data File Name	076SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T12:41:11-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	011CALB.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	40.345	40.345	0.50	208124	0.02	2000	
B	11	1	nogas	16.370	16.370	1.23	69012	0.02	2000	
Al	27	1	nogas	114.483	114.483	1.32	1520627	0.01	2000	
Ti	47	1	nogas	138.110	138.110	1.99	180737	0.08	2000	
Ni	60	1	nogas	54.890	54.890	0.86	213729	0.03	2000	
Cu	63	1	nogas	44.283	44.283	0.97	413440	0.01	2000	
Zn	66	1	nogas	47.072	47.072	0.94	129645	0.04	2000	
Se	77	1	nogas	62.816	62.816	2.84	11214	0.56	2000	
Se	82	1	nogas	45.616	45.616	2.23	7072	0.65	2000	
Sr	88	1	nogas	218.737	218.737	2.39	4897682	0.00	2000	
Mo	95	1	nogas	44.615	44.615	2.39	218204	0.02	2000	
Ag	107	1	nogas	43.773	43.773	0.22	517561	0.01	2000	
Cd	111	1	nogas	44.291	44.291	0.81	100769	0.04	2000	
Sn	118	1	nogas	93.758	93.758	1.29	664801	0.01	2000	
Sb	121	1	nogas	46.146	46.146	0.77	444127	0.01	2000	
Ba	137	1	nogas	152.588	152.588	0.88	538477	0.03	2000	
Tl	205	1	nogas	43.810	43.810	2.17	983739	0.00	2000	
Pb	208	1	nogas	44.739	44.739	1.30	1380369	0.00	2000	
U	238	1	nogas	0.028	0.028	9.55	1303	0.00	2000	
Na	23	2	He	27845.156	27845.156	0.85	39641164	0.07	200000	
Mg	24	2	He	7629.633	7629.633	1.62	6132972	0.12	200000	
Al	27	2	He	114.388	114.388	3.13	56732	0.20	2000	
K	39	2	He	6536.324	6536.324	0.51	5573898	0.12	200000	
Ca	43	2	He	10596.392	10596.392	2.75	24687	42.92	200000	
Ca	44	2	He	10555.528	10555.528	1.32	414365	2.55	200000	
V	51	2	He	43.077	43.077	0.34	217160	0.02	2000	
Cr	52	2	He	50.468	50.468	0.62	293450	0.02	2000	
Mn	55	2	He	135.921	135.921	1.24	582103	0.02	2000	
Fe	56	2	He	11192.233	11192.233	0.65	58308369	0.02	200000	
Co	59	2	He	44.085	44.085	0.77	327631	0.01	2000	
Ni	60	2	He	54.893	54.893	1.04	101461	0.05	2000	
Cu	63	2	He	44.753	44.753	1.74	210731	0.02	2000	
Zn	66	2	He	46.452	46.452	1.86	48128	0.10	2000	
As	75	2	He	44.385	44.385	1.34	33802	0.13	2000	
Sb	121	2	He	46.102	46.102	0.34	184261	0.03	2000	
Se	78	2	He	43.738	43.738	4.06	3198	1.37	2000	
Ti	47	2	He	135.976	135.976	2.09	29526	0.46	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	1636066	1.08	1618408	101.09	70	120	
In	115	1	nogas	1856406	1.42	1821198	101.93	70	120	
Li	6	1	nogas	878210	0.50	967339	90.79	70	120	
Bi	209	1	nogas	1725407	1.13	1671348	103.23	70	120	

Sample Report

Ge	72	2	He	468528	0.43	465764	100.59	70	120	
In	115	2	He	711691	0.87	697773	101.99	70	120	

Sample Report

Sample Table

Sample Name	HS24061313-01MSD
Data File Name	077SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T12:43:15-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	011CALB.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	41.197	41.197	1.25	213796	0.02	2000	
B	11	1	nogas	16.203	16.203	2.21	68895	0.02	2000	
Al	27	1	nogas	118.230	118.230	1.02	1572196	0.01	2000	
Ti	47	1	nogas	141.870	141.870	0.77	186023	0.08	2000	
Ni	60	1	nogas	55.992	55.992	1.08	218431	0.03	2000	
Cu	63	1	nogas	45.396	45.396	0.48	424632	0.01	2000	
Zn	66	1	nogas	48.236	48.236	1.57	133033	0.04	2000	
Se	77	1	nogas	68.216	68.216	8.23	11855	0.58	2000	
Se	82	1	nogas	45.181	45.181	0.53	7018	0.64	2000	
Sr	88	1	nogas	225.372	225.372	0.50	5106272	0.00	2000	
Mo	95	1	nogas	45.906	45.906	1.29	227164	0.02	2000	
Ag	107	1	nogas	44.139	44.139	0.68	527953	0.01	2000	
Cd	111	1	nogas	45.151	45.151	1.34	103919	0.04	2000	
Sn	118	1	nogas	95.964	95.964	0.14	688357	0.01	2000	
Sb	121	1	nogas	48.236	48.236	1.53	465081	0.01	2000	
Ba	137	1	nogas	156.680	156.680	0.33	559362	0.03	2000	
Tl	205	1	nogas	45.662	45.662	1.26	1024732	0.00	2000	
Pb	208	1	nogas	46.103	46.103	1.68	1421472	0.00	2000	
U	238	1	nogas	0.030	0.030	6.94	1370	0.00	2000	
Na	23	2	He	28696.701	28696.701	0.74	40797321	0.07	200000	
Mg	24	2	He	7912.902	7912.902	1.18	6352019	0.12	200000	
Al	27	2	He	120.727	120.727	1.66	59721	0.20	2000	
K	39	2	He	6670.433	6670.433	0.96	5679103	0.12	200000	
Ca	43	2	He	11330.669	11330.669	2.06	26360	42.98	200000	
Ca	44	2	He	10837.080	10837.080	0.81	424819	2.55	200000	
V	51	2	He	44.917	44.917	1.73	226049	0.02	2000	
Cr	52	2	He	51.855	51.855	1.04	300878	0.02	2000	
Mn	55	2	He	142.170	142.170	0.47	607995	0.02	2000	
Fe	56	2	He	11523.218	11523.218	0.84	59951526	0.02	200000	
Co	59	2	He	45.376	45.376	0.24	336760	0.01	2000	
Ni	60	2	He	57.268	57.268	0.19	105703	0.05	2000	
Cu	63	2	He	46.010	46.010	1.14	216353	0.02	2000	
Zn	66	2	He	48.581	48.581	2.19	50228	0.10	2000	
As	75	2	He	45.870	45.870	1.58	34881	0.13	2000	
Sb	121	2	He	47.464	47.464	1.83	189417	0.03	2000	
Se	78	2	He	45.940	45.940	1.79	3351	1.37	2000	
Ti	47	2	He	138.333	138.333	1.68	29993	0.46	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	1639160	0.48	1618408	101.28	70	120	
In	115	1	nogas	1878037	1.21	1821198	103.12	70	120	
Li	6	1	nogas	883502	0.35	967339	91.33	70	120	
Bi	209	1	nogas	1724101	0.52	1671348	103.16	70	120	

Sample Report

Ge	72	2	He	467885	0.53	465764	100.46	70	120	
In	115	2	He	710864	1.11	697773	101.88	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\070524A.b
Acq Date Time	2024-07-05T12:47:28-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	100.679	0.348	516320	0.53	100	100.7	90	110	
B	11	1	nogas	452.638	0.980	1448913	1.13	500	90.5	90	110	
Al	27	1	nogas	100.982	1.120	1384174	0.82	100	101.0	90	110	
P	31	1	nogas	4459.594	1.224	403624	0.62	500	891.9	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	104.927	1.142	141292	1.15	100	104.9	90	110	
Ni	60	1	nogas	103.123	0.801	412858	1.79	100	103.1	90	110	
Cu	63	1	nogas	103.611	0.507	993580	1.80	100	103.6	90	110	
Zn	66	1	nogas	104.054	0.617	292000	2.24	100	104.1	90	110	
Se	77	1	nogas	110.940	8.002	17217	4.73	100	110.9	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	106.275	2.475	16686	2.06	100	106.3	90	110	
Sr	88	1	nogas	103.978	1.156	2382655	1.99	100	104.0	90	110	
Mo	95	1	nogas	99.621	2.071	498248	2.88	100	99.6	90	110	
Ag	107	1	nogas	100.238	0.741	1212317	1.33	100	100.2	90	110	
Cd	111	1	nogas	104.771	0.399	243858	1.34	100	104.8	90	110	
Sn	118	1	nogas	105.700	1.081	766492	1.98	100	105.7	90	110	
Sb	121	1	nogas	111.242	0.609	1099487	1.03	100	111.2	90	110	CCV Main CR1-2 Failed
Ba	137	1	nogas	104.262	1.938	376483	2.89	100	104.3	90	110	
Tl	205	1	nogas	107.754	3.140	2455714	2.06	100	107.8	90	110	
Pb	208	1	nogas	104.985	2.987	3286303	1.83	100	105.0	90	110	
U	238	1	nogas	111.136	3.163	4019147	2.21	100	111.1	90	110	CCV Main CR1-2 Failed
Li	7	1	nogas	95.732	0.305	1588237	0.18	100	95.7	90	110	
Ba	135	1	nogas	105.341	1.609	214550	1.99	100	105.3	90	110	
Tl	203	1	nogas	107.895	3.683	1015627	2.53	100	107.9	90	110	
Na	23	2	He	9444.749	1.308	13963564	1.03	10000	94.4	90	110	
Mg	24	2	He	9658.100	2.942	8048417	2.39	10000	96.6	90	110	
Al	27	2	He	100.887	1.842	52052	0.95	100	100.9	90	110	
K	39	2	He	9749.993	2.445	8587057	1.57	10000	97.5	90	110	
Ca	43	2	He	9405.077	3.164	22717	2.53	10000	94.1	90	110	
Ca	44	2	He	9615.523	1.797	391399	0.95	10000	96.2	90	110	
V	51	2	He	101.682	1.100	528531	0.80	100	101.7	90	110	
Cr	52	2	He	102.267	1.107	607723	1.06	100	102.3	90	110	
Mn	55	2	He	101.231	1.139	449549	0.21	100	101.2	90	110	
Fe	56	2	He	9709.793	1.936	52447236	1.63	10000	97.1	90	110	
Co	59	2	He	102.713	0.620	791291	0.36	100	102.7	90	110	
Ni	60	2	He	102.033	1.460	195410	0.61	100	102.0	90	110	
Cu	63	2	He	103.277	0.872	503551	0.66	100	103.3	90	110	
Zn	66	2	He	101.510	2.543	108054	1.56	100	101.5	90	110	
As	75	2	He	103.857	1.054	81799	0.21	100	103.9	90	110	
Sb	121	2	He	109.228	1.749	451752	0.84	100	109.2	90	110	
Se	78	2	He	104.332	1.815	7815	1.34	100	104.3	90	110	
Ti	47	2	He	102.858	0.890	23161	1.61	100	102.9	90	110	
Zr	90	1	nogas	50.604	1.210	808509	1.73	100	50.6	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1683089	1.63	1618408	104.00	70	120	
In	115	1	nogas	1899099	0.96	1821198	104.28	70	120	
Li	6	1	nogas	873267	0.32	967339	90.28	70	120	
Bi	209	1	nogas	1751639	1.16	1671348	104.80	70	120	
Ge	72	2	He	485787	0.95	465764	104.30	70	120	
In	115	2	He	723198	0.12	697773	103.64	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	080_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T12:49:34-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	0.079	17.0	527	13.3	2.5	
B	11	1	nogas	9.279	20.1	49494	12.4	2.5	CCB Main CR1 Failed
Al	27	1	nogas	0.532	4.7	44585	0.5	5	
P	31	1	nogas	-8.397	-96.3	31543	1.7	2.5	
Ti	47	1	nogas	0.387	54.7	650	42.9	2.5	
Ni	60	1	nogas	0.110	18.8	693	12.3	2.5	
Cu	63	1	nogas	0.105	8.4	2207	3.3	5	
Zn	66	1	nogas	0.070	42.3	2507	3.2	2.5	
Se	77	1	nogas	-2.330	-61.2	3804	3.8	2.5	
Se	82	1	nogas	0.871	25.3	327	9.8	5	
Sr	88	1	nogas	0.107	11.6	3037	9.6	2.5	
Mo	95	1	nogas	0.608	19.8	3307	17.9	2.5	
Ag	107	1	nogas	0.090	13.2	1210	11.6	2.5	
Cd	111	1	nogas	0.065	30.9	157	29.4	2.5	
Sn	118	1	nogas	0.673	11.5	7452	7.4	2.5	
Sb	121	1	nogas	0.461	12.0	5818	9.0	2	
Ba	137	1	nogas	0.127	16.0	567	12.5	2.5	
Tl	205	1	nogas	0.417	43.5	9894	44.1	2.5	
Pb	208	1	nogas	0.128	10.0	5147	9.4	2.5	
U	238	1	nogas	0.120	23.7	4698	23.4	2.5	
Na	23	2	He	14.465	2.5	55436	1.7	100	
Mg	24	2	He	7.392	10.0	6735	9.7	100	
Al	27	2	He	0.283	130.7	1590	10.9	5	
K	39	2	He	9.219	13.1	72760	1.7	100	
Ca	43	2	He	8.259	129.2	37	68.6	100	
Ca	44	2	He	12.346	39.8	1230	16.7	100	
V	51	2	He	0.010	542.9	2180	13.3	2.5	
Cr	52	2	He	-0.202	-29.0	7269	4.0	2.5	
Mn	55	2	He	0.138	23.5	933	15.1	2.5	
Fe	56	2	He	9.629	6.8	62339	6.1	100	
Co	59	2	He	0.065	15.4	600	13.3	2.5	
Ni	60	2	He	0.088	10.9	300	6.7	2.5	
Cu	63	2	He	0.097	5.7	967	2.2	5	
Zn	66	2	He	0.133	79.4	953	12.2	2.5	
As	75	2	He	0.199	20.7	304	10.4	2.5	
Sb	121	2	He	0.297	9.9	1817	6.0	2	
Se	78	2	He	0.615	45.3	111	18.0	5	
Ti	47	2	He	0.149	110.3	50	72.1	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	1671541	0.62	1618408	103.28	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	nogas	1896445	0.34	1821198	104.13	70	120	
Li	6	1	nogas	936008	0.83	967339	96.76	70	120	
Bi	209	1	nogas	1760868	1.74	1671348	105.36	70	120	
Ge	72	2	He	478305	0.77	465764	102.69	70	120	
In	115	2	He	718966	1.87	697773	103.04	70	120	

Sample Report

Sample Table

Sample Name	HS24061247-01MSD
Data File Name	089SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T13:09:33-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	011CALB.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	41.008	41.008	2.12	224942	0.02	2000	
B	11	1	nogas	90.847	90.847	3.00	325337	0.03	2000	
Al	27	1	nogas	221.336	221.336	2.13	2994388	0.01	2000	
Ti	47	1	nogas	144.254	144.254	2.19	194536	0.07	2000	
Ni	60	1	nogas	45.709	45.709	1.46	183455	0.02	2000	
Cu	63	1	nogas	46.268	46.268	1.60	445117	0.01	2000	
Zn	66	1	nogas	47.735	47.735	1.31	135435	0.04	2000	
Se	77	1	nogas	52.695	52.695	6.52	10357	0.51	2000	
Se	82	1	nogas	47.076	47.076	4.68	7512	0.63	2000	
Sr	88	1	nogas	104.998	104.998	0.65	2428707	0.00	2000	
Mo	95	1	nogas	44.964	44.964	0.39	227160	0.02	2000	
Ag	107	1	nogas	45.295	45.295	0.49	553081	0.01	2000	
Cd	111	1	nogas	46.209	46.209	1.23	108568	0.04	2000	
Sn	118	1	nogas	97.328	97.328	0.17	712679	0.01	2000	
Sb	121	1	nogas	48.529	48.529	1.32	481234	0.01	2000	
Ba	137	1	nogas	62.598	62.598	0.81	228191	0.03	2000	
Tl	205	1	nogas	45.742	45.742	3.44	1046531	0.00	2000	
Pb	208	1	nogas	46.528	46.528	2.74	1462683	0.00	2000	
U	238	1	nogas	0.008	0.008	27.01	620	0.00	2000	
Na	23	2	He	22756.060	22756.060	0.38	33464784	0.07	200000	
Mg	24	2	He	4846.953	4846.953	1.07	4024139	0.12	200000	
Al	27	2	He	219.946	219.946	1.30	111310	0.20	2000	
K	39	2	He	8348.331	8348.331	1.99	7333824	0.11	200000	
Ca	43	2	He	6080.854	6080.854	1.77	14637	41.54	200000	
Ca	44	2	He	6025.873	6025.873	1.73	244603	2.46	200000	
V	51	2	He	44.935	44.935	0.53	233863	0.02	2000	
Cr	52	2	He	45.768	45.768	1.41	275620	0.02	2000	
Mn	55	2	He	99.832	99.832	1.90	441592	0.02	2000	
Fe	56	2	He	6327.809	6327.809	2.08	34048193	0.02	200000	
Co	59	2	He	46.014	46.014	1.97	353134	0.01	2000	
Ni	60	2	He	46.391	46.391	2.75	88566	0.05	2000	
Cu	63	2	He	46.474	46.474	0.29	226003	0.02	2000	
Zn	66	2	He	47.862	47.862	1.72	51188	0.09	2000	
As	75	2	He	45.556	45.556	1.81	35827	0.13	2000	
Sb	121	2	He	47.245	47.245	1.34	194992	0.02	2000	
Se	78	2	He	46.792	46.792	1.80	3528	1.33	2000	
Ti	47	2	He	140.113	140.113	1.54	31420	0.45	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	1685947	0.56	1618408	104.17	70	120	
In	115	1	nogas	1917253	1.87	1821198	105.27	70	120	
Li	6	1	nogas	933848	0.50	967339	96.54	70	120	
Bi	209	1	nogas	1758309	1.55	1671348	105.20	70	120	

Sample Report

Ge	72	2	He	483898	1.08	465764	103.89	70	120	
In	115	2	He	724694	1.04	697773	103.86	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	091_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T13:13:46-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	94.809	0.857	507066	0.62	100	94.8	90	110	
B	11	1	nogas	450.585	0.451	1504356	1.45	500	90.1	90	110	
Al	27	1	nogas	103.729	0.680	1456667	1.15	100	103.7	90	110	
P	31	1	nogas	1455.885	2.019	157515	2.11	500	291.2	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	98.458	0.757	135938	1.42	100	98.5	90	110	
Ni	60	1	nogas	98.018	1.320	402333	2.30	100	98.0	90	110	
Cu	63	1	nogas	97.939	0.539	962902	1.61	100	97.9	90	110	
Zn	66	1	nogas	98.442	1.868	283319	2.41	100	98.4	90	110	
Se	77	1	nogas	101.164	3.016	16473	1.70	100	101.2	90	110	
Se	82	1	nogas	99.524	3.056	16039	4.31	100	99.5	90	110	
Sr	88	1	nogas	98.969	0.351	2282784	1.22	100	99.0	90	110	
Mo	95	1	nogas	97.083	1.348	488749	2.21	100	97.1	90	110	
Ag	107	1	nogas	93.207	0.786	1134735	1.37	100	93.2	90	110	
Cd	111	1	nogas	99.018	0.319	231987	1.19	100	99.0	90	110	
Sn	118	1	nogas	99.130	0.258	723705	0.94	100	99.1	90	110	
Sb	121	1	nogas	102.222	0.499	1035903	0.87	100	102.2	90	110	
Ba	137	1	nogas	100.222	1.322	364246	1.73	100	100.2	90	110	
Tl	205	1	nogas	101.143	1.880	2345036	2.10	100	101.1	90	110	
Pb	208	1	nogas	99.839	1.999	3179435	2.18	100	99.8	90	110	
U	238	1	nogas	97.641	2.153	3592272	2.29	100	97.6	90	110	
Li	7	1	nogas	94.668	0.597	1638689	0.79	100	94.7	90	110	
Ba	135	1	nogas	101.371	1.296	207842	2.14	100	101.4	90	110	
Tl	203	1	nogas	100.868	2.246	966003	2.41	100	100.9	90	110	
Na	23	2	He	9560.044	1.277	14369849	0.74	10000	95.6	90	110	
Mg	24	2	He	9637.197	1.894	8165252	0.51	10000	96.4	90	110	
Al	27	2	He	103.287	1.243	54159	2.52	100	103.3	90	110	
K	39	2	He	9589.158	2.017	8587873	0.93	10000	95.9	90	110	
Ca	43	2	He	9518.133	3.098	23372	1.39	10000	95.2	90	110	
Ca	44	2	He	9576.124	2.682	396268	1.00	10000	95.8	90	110	
V	51	2	He	97.356	0.765	514630	1.30	100	97.4	90	110	
Cr	52	2	He	97.404	1.438	588898	0.73	100	97.4	90	110	
Mn	55	2	He	97.712	2.488	441128	0.71	100	97.7	90	110	
Fe	56	2	He	9723.785	1.174	53403101	1.08	10000	97.2	90	110	
Co	59	2	He	98.086	1.254	768269	0.73	100	98.1	90	110	
Ni	60	2	He	98.848	0.419	192506	1.45	100	98.8	90	110	
Cu	63	2	He	98.933	0.920	490471	1.02	100	98.9	90	110	
Zn	66	2	He	96.870	1.101	104899	1.77	100	96.9	90	110	
As	75	2	He	98.623	0.551	78990	1.37	100	98.6	90	110	
Sb	121	2	He	100.683	0.762	423476	1.39	100	100.7	90	110	
Se	78	2	He	99.113	4.697	7549	2.93	100	99.1	90	110	
Ti	47	2	He	95.947	2.700	21963	1.47	100	95.9	90	110	
Zr	90	1	nogas	85.808	0.590	1379051	1.04	100	85.8	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1725456	1.35	1618408	106.61	70	120	
In	115	1	nogas	1911660	1.13	1821198	104.97	70	120	
Li	6	1	nogas	910769	1.35	967339	94.15	70	120	
Bi	209	1	nogas	1781543	0.24	1671348	106.59	70	120	
Ge	72	2	He	493956	1.85	465764	106.05	70	120	
In	115	2	He	725136	1.02	697773	103.92	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	092_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T13:15:52-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	0.054	13.3	408	9.8	2.5	
B	11	1	nogas	13.335	17.5	66161	11.8	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-0.210	-52.2	35769	2.9	5	
P	31	1	nogas	10.251	103.5	34045	1.5	2.5	CCB Main CR1 Failed
Ti	47	1	nogas	0.164	52.8	363	31.9	2.5	
Ni	60	1	nogas	0.221	8.8	1167	8.0	2.5	
Cu	63	1	nogas	0.078	34.3	2010	13.1	5	
Zn	66	1	nogas	0.127	31.3	2740	3.2	2.5	
Se	77	1	nogas	-9.963	-16.3	2994	7.3	2.5	
Se	82	1	nogas	0.332	189.9	250	38.6	5	
Sr	88	1	nogas	0.061	18.2	2027	11.4	2.5	
Mo	95	1	nogas	0.552	22.3	3097	19.5	2.5	
Ag	107	1	nogas	0.066	6.4	940	5.6	2.5	
Cd	111	1	nogas	0.034	19.4	87	18.5	2.5	
Sn	118	1	nogas	0.844	13.0	8890	8.1	2.5	
Sb	121	1	nogas	0.955	13.4	10971	10.8	2	
Ba	137	1	nogas	0.057	45.0	323	28.6	2.5	
Tl	205	1	nogas	0.369	44.0	9007	43.8	2.5	
Pb	208	1	nogas	0.080	16.3	3747	12.2	2.5	
U	238	1	nogas	0.070	19.1	2930	18.0	2.5	
Na	23	2	He	5.869	9.8	44962	2.7	100	
Mg	24	2	He	3.934	5.8	4077	5.3	100	
Al	27	2	He	-0.255	-72.7	1387	6.2	5	
K	39	2	He	5.136	20.2	72482	2.0	100	
Ca	43	2	He	7.490	123.3	37	63.0	100	
Ca	44	2	He	1.513	208.8	833	16.3	100	
V	51	2	He	-0.223	-30.0	1037	35.3	2.5	
Cr	52	2	He	-0.452	-1.1	6105	0.4	2.5	
Mn	55	2	He	0.053	8.7	587	4.3	2.5	
Fe	56	2	He	6.019	15.0	45145	11.1	100	
Co	59	2	He	0.034	26.5	383	19.6	2.5	
Ni	60	2	He	0.191	12.6	517	9.5	2.5	
Cu	63	2	He	0.044	28.1	743	8.6	5	
Zn	66	2	He	0.117	19.7	980	1.8	2.5	
As	75	2	He	0.115	37.5	251	13.9	2.5	
Sb	121	2	He	0.662	4.6	3457	4.5	2	
Se	78	2	He	0.399	42.3	100	12.2	5	
Ti	47	2	He	0.109	81.5	43	48.0	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	1720298	1.21	1618408	106.30	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	nogas	1942786	1.56	1821198	106.68	70	120	
Li	6	1	nogas	979454	0.70	967339	101.25	70	120	
Bi	209	1	nogas	1805574	1.33	1671348	108.03	70	120	
Ge	72	2	He	500639	0.82	465764	107.49	70	120	
In	115	2	He	741245	0.34	697773	106.23	70	120	

Sample Report

Sample Table

Sample Name	LCS-214353
Data File Name	102SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T13:36:47-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 214363
ISTD Ref FileName	011CALB.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	45.615	45.615	1.01	231098	0.02	2000	
B	11	1	nogas	426.469	426.469	2.61	1349338	0.03	2000	
Al	27	1	nogas	105.074	105.074	0.55	1338155	0.01	2000	
Ti	47	1	nogas	126.340	126.340	1.98	158220	0.08	2000	
Ni	60	1	nogas	49.573	49.573	0.57	184697	0.03	2000	
Cu	63	1	nogas	49.063	49.063	0.86	438166	0.01	2000	
Zn	66	1	nogas	51.751	51.751	0.82	136144	0.04	2000	
Se	77	1	nogas	104.044	104.044	5.59	15258	0.68	2000	
Se	82	1	nogas	49.262	49.262	3.98	7292	0.68	2000	
Sr	88	1	nogas	76.479	76.479	0.54	1630620	0.00	2000	
Mo	95	1	nogas	47.572	47.572	0.83	221475	0.02	2000	
Ag	107	1	nogas	49.500	49.500	0.46	557066	0.01	2000	
Cd	111	1	nogas	49.563	49.563	0.98	107335	0.05	2000	
Sn	118	1	nogas	75.562	75.562	1.19	510488	0.01	2000	
Sb	121	1	nogas	51.222	51.222	0.61	471535	0.01	2000	
Ba	137	1	nogas	49.563	49.563	1.08	166552	0.03	2000	
Tl	205	1	nogas	48.537	48.537	5.03	1046226	0.00	2000	
Pb	208	1	nogas	49.296	49.296	3.35	1460242	0.00	2000	
U	238	1	nogas	194.248	194.248	2.88	6645208	0.00	2000	
Na	23	2	He	4986.718	4986.718	1.07	6843331	0.07	200000	
Mg	24	2	He	4801.176	4801.176	1.51	3705907	0.13	200000	
Al	27	2	He	103.953	103.953	0.65	49640	0.21	2000	
K	39	2	He	4705.728	4705.728	1.74	3870024	0.12	200000	
Ca	43	2	He	4953.182	4953.182	6.23	11084	44.69	200000	
Ca	44	2	He	4998.916	4998.916	0.63	188804	2.65	200000	
V	51	2	He	47.787	47.787	1.27	231113	0.02	2000	
Cr	52	2	He	48.078	48.078	1.28	268796	0.02	2000	
Mn	55	2	He	49.055	49.055	1.00	201920	0.02	2000	
Fe	56	2	He	5047.324	5047.324	1.92	25253753	0.02	200000	
Co	59	2	He	48.575	48.575	1.61	346613	0.01	2000	
Ni	60	2	He	49.823	49.823	2.29	88429	0.06	2000	
Cu	63	2	He	49.261	49.261	1.91	222670	0.02	2000	
Zn	66	2	He	51.726	51.726	1.47	51385	0.10	2000	
As	75	2	He	49.582	49.582	0.79	36245	0.14	2000	
Sb	121	2	He	50.323	50.323	1.87	193062	0.03	2000	
Se	78	2	He	49.940	49.940	3.80	3497	1.43	2000	
Ti	47	2	He	123.202	123.202	2.68	25685	0.48	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	1565263	0.98	1618408	96.72	70	120	
In	115	1	nogas	1766903	0.96	1821198	97.02	70	120	
Li	6	1	nogas	862548	0.49	967339	89.17	70	120	
Bi	209	1	nogas	1657514	2.62	1671348	99.17	70	120	

Sample Report

Ge	72	2	He	449922	1.28	465764	96.60	70	120	
In	115	2	He	659952	1.25	697773	94.58	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	103_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T13:38:53-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	94.510	0.850	463543	1.12	100	94.5	90	110	
B	11	1	nogas	450.380	1.883	1378858	2.03	500	90.1	90	110	
Al	27	1	nogas	105.082	0.145	1313251	1.22	100	105.1	90	110	
P	31	1	nogas	1419.319	0.582	137441	0.94	500	283.9	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	100.142	0.339	123079	0.77	100	100.1	90	110	
Ni	60	1	nogas	99.354	1.154	363041	2.15	100	99.4	90	110	
Cu	63	1	nogas	99.014	0.789	866606	1.76	100	99.0	90	110	
Zn	66	1	nogas	99.904	1.283	255913	1.30	100	99.9	90	110	
Se	77	1	nogas	127.455	3.163	17500	1.39	100	127.5	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	101.948	3.250	14621	4.23	100	101.9	90	110	
Sr	88	1	nogas	99.003	0.572	2078404	1.39	100	99.0	90	110	
Mo	95	1	nogas	96.094	1.235	440268	1.33	100	96.1	90	110	
Ag	107	1	nogas	92.946	0.691	1029936	1.75	100	92.9	90	110	
Cd	111	1	nogas	99.428	2.016	212051	3.14	100	99.4	90	110	
Sn	118	1	nogas	99.937	1.137	663982	0.36	100	99.9	90	110	
Sb	121	1	nogas	105.563	0.589	952282	0.92	100	105.6	90	110	
Ba	137	1	nogas	100.567	1.830	332652	1.89	100	100.6	90	110	
Tl	205	1	nogas	103.302	1.595	2152449	1.91	100	103.3	90	110	
Pb	208	1	nogas	102.129	2.011	2922789	2.10	100	102.1	90	110	
U	238	1	nogas	100.249	1.741	3314590	1.98	100	100.2	90	110	
Li	7	1	nogas	94.817	0.288	1504978	0.30	100	94.8	90	110	
Ba	135	1	nogas	100.563	0.145	187649	1.01	100	100.6	90	110	
Tl	203	1	nogas	102.303	2.407	880489	2.62	100	102.3	90	110	
Na	23	2	He	9704.176	1.479	12983724	1.14	10000	97.0	90	110	
Mg	24	2	He	9887.571	0.547	7458188	1.21	10000	98.9	90	110	
Al	27	2	He	105.018	0.175	48988	0.77	100	105.0	90	110	
K	39	2	He	9992.777	0.727	7964658	0.94	10000	99.9	90	110	
Ca	43	2	He	9685.749	2.117	21175	1.89	10000	96.9	90	110	
Ca	44	2	He	9676.986	0.990	356527	1.31	10000	96.8	90	110	
V	51	2	He	98.602	1.037	463920	1.08	100	98.6	90	110	
Cr	52	2	He	97.658	0.541	525577	0.70	100	97.7	90	110	
Mn	55	2	He	99.115	0.480	398384	0.75	100	99.1	90	110	
Fe	56	2	He	9915.423	1.548	48471443	1.04	10000	99.2	90	110	
Co	59	2	He	98.152	1.595	684331	1.17	100	98.2	90	110	
Ni	60	2	He	99.468	0.912	172419	0.77	100	99.5	90	110	
Cu	63	2	He	99.310	0.826	438245	0.62	100	99.3	90	110	
Zn	66	2	He	100.042	0.390	96403	0.60	100	100.0	90	110	
As	75	2	He	99.097	0.712	70647	0.70	100	99.1	90	110	
Sb	121	2	He	103.999	0.558	389334	0.49	100	104.0	90	110	
Se	78	2	He	99.348	2.823	6738	2.41	100	99.3	90	110	
Ti	47	2	He	99.078	1.061	20190	0.56	100	99.1	90	110	
Zr	90	1	nogas	85.163	1.316	1245821	2.21	100	85.2	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1536009	1.10	1618408	94.91	70	120	
In	115	1	nogas	1739908	1.14	1821198	95.54	70	120	
Li	6	1	nogas	835152	0.33	967339	86.33	70	120	
Bi	209	1	nogas	1601055	0.50	1671348	95.79	70	120	
Ge	72	2	He	439649	0.66	465764	94.39	70	120	
In	115	2	He	653092	1.74	697773	93.60	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	104_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq Date Time	2024-07-05T13:40:59-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	011CALB.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	0.040	21.7	303	15.3	2.5	
B	11	1	nogas	17.025	15.5	72906	10.8	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-0.217	-6.3	32141	0.7	5	
P	31	1	nogas	0.226	4078.2	29906	2.7	2.5	
Ti	47	1	nogas	0.128	58.9	283	32.8	2.5	
Ni	60	1	nogas	0.205	9.7	990	7.1	2.5	
Cu	63	1	nogas	0.052	40.2	1580	11.7	5	
Zn	66	1	nogas	0.091	77.2	2377	7.4	2.5	
Se	77	1	nogas	0.608	298.1	3847	5.4	2.5	
Se	82	1	nogas	0.523	75.1	253	22.4	5	
Sr	88	1	nogas	0.126	14.5	3204	11.4	2.5	
Mo	95	1	nogas	0.589	13.3	2970	11.4	2.5	
Ag	107	1	nogas	0.068	5.4	877	4.0	2.5	
Cd	111	1	nogas	0.051	30.0	116	28.1	2.5	
Sn	118	1	nogas	0.832	16.0	7949	10.8	2.5	
Sb	121	1	nogas	0.945	15.0	9797	12.8	2	
Ba	137	1	nogas	0.064	25.6	317	18.0	2.5	
Tl	205	1	nogas	0.413	51.0	9077	51.6	2.5	
Pb	208	1	nogas	0.080	18.5	3370	14.6	2.5	
U	238	1	nogas	0.095	19.5	3501	19.8	2.5	
Na	23	2	He	15.715	5.5	53038	2.8	100	
Mg	24	2	He	6.178	2.2	5314	2.9	100	
Al	27	2	He	-0.192	-43.2	1257	3.8	5	
K	39	2	He	8.240	3.7	66622	1.2	100	
Ca	43	2	He	15.413	87.7	50	60.0	100	
Ca	44	2	He	6.011	32.2	903	6.8	100	
V	51	2	He	-0.080	-55.6	1592	14.3	2.5	
Cr	52	2	He	-0.336	-24.7	6018	6.4	2.5	
Mn	55	2	He	0.089	21.1	667	12.6	2.5	
Fe	56	2	He	5.921	3.5	39485	4.0	100	
Co	59	2	He	0.035	6.9	343	4.4	2.5	
Ni	60	2	He	0.216	9.8	500	6.0	2.5	
Cu	63	2	He	0.067	19.8	760	8.6	5	
Zn	66	2	He	0.171	20.5	920	4.3	2.5	
As	75	2	He	0.181	21.5	269	9.0	2.5	
Sb	121	2	He	0.628	6.3	2930	6.3	2	
Se	78	2	He	0.508	67.6	96	24.6	5	
Ti	47	2	He	0.149	74.2	47	49.5	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	1549607	0.32	1618408	95.75	70	120	

Continuing Calibration Blank (CCB) Report

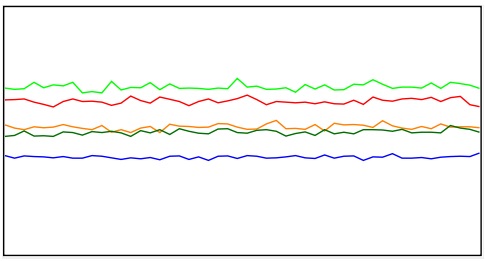
In	115	1	nogas	1754177	0.76	1821198	96.32	70	120	
Li	6	1	nogas	901251	0.99	967339	93.17	70	120	
Bi	209	1	nogas	1628692	1.99	1671348	97.45	70	120	
Ge	72	2	He	443105	1.41	465764	95.14	70	120	
In	115	2	He	665227	0.54	697773	95.34	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\070524A.b
Acq. Date-Time	7/5/2024 9:06:00 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	10000	6208	62075.67		
24	20000	13577	135773.93		
59	50000	19676	196760.04		
115	20000	10321	103211.30		
208	20000	9903	99030.80		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	1.819	5.000	
24	1.934	5.000	
59	1.584	5.000	
115	2.074	5.000	
208	2.043	5.000	

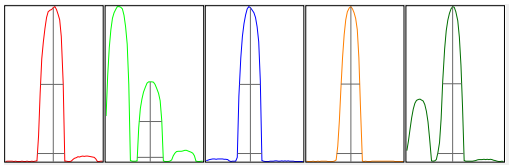
Mass	Background	Background (Required)	Background (Flag)
9	0.400		
24	0.500		
59	0.800		
115	2.300		
208	6.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.853 %
Doubly Charged	70 / 140 1.049 %

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	6153.81	9.00	8.90 - 9.10	
24	13461.37	23.90	23.90 - 24.10	
59	20087.08	58.90	58.90 - 59.10	
115	10678.07	114.90	114.90 - 115.10	
208	10305.98	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.69	0.831		
24	0.69	0.790		
59	0.64	0.743		
115	0.57	0.770		
208	0.58	0.799		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 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	10.1 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	124	Axis Gain	0.9992	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.5 mm

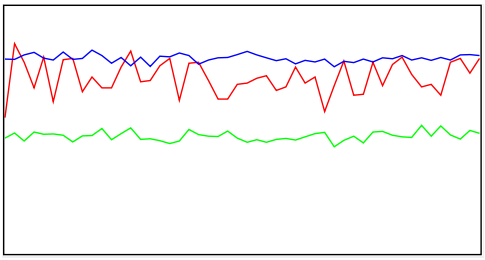
EM

Discriminator	4.5 mV	Analog HV	1644 V	Pulse HV	1681 V

[He]

Tune Check Report

Sensitivity



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

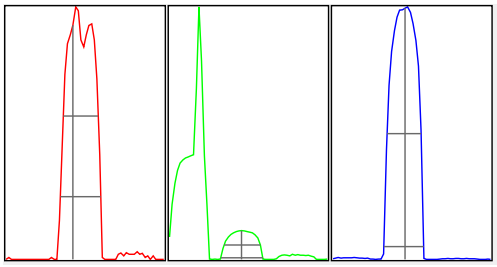
Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	200	142	1424.87		
24	2000	949	9488.70		
59	10000	7901	79014.98		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	9.391	5.000	Fail
24	3.998	5.000	
59	1.913	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	141.76	8.80	8.90 - 9.10	Fail
24	941.57	23.90	23.90 - 24.10	
59	8136.38	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.66	0.755		
24	0.68	0.789		
59	0.64	0.742		

Tune Parameters

Plasma Parameters

Tune Check Report

Plasma Mode	---	Nebulizer Gas	0.48 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	0.4 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	124	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.5 mm		

EM

Discriminator	4.5 mV	Analog HV	1644 V	Pulse HV	1681 V

HS24061313 E2400735 Perch Level IV Report

ALS WO# HS24061313

July 11, 2024 Service Request No:E2400735

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

Laboratory Results for: HS24061313

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 21, 2024
For your reference, these analyses have been assigned our service request number **E2400735.**

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

Certificate of Analysis

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

Client:	ALS Environmental - US	**Service Request No.:**	E2400735
Project:	HS24061313	**Date Received:**	06/21/24
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Six samples were received for analysis at ALS Environmental in Houston on 06/21/24.

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

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400375: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

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

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

Client: ALS Environmental - US **Service Request:**E2400735
Project: HS24061313

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400735-001	18WW19_061924	6/19/2024	0725
E2400735-002	18WW20_061924	6/19/2024	0815
E2400735-003	18WW25_061924	6/19/2024	0900
E2400735-004	125_061924	6/19/2024	0915
E2400735-005	18CPTMW16_061924	6/19/2024	1050
E2400735-006	18CPTMW16_061924_a	6/19/2024	1050

Service Request Summary

Folder #: **E2400735**
Client Name: ALS Environmental - US
Project Name: HS24061313
Project Number:

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

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/21/24
Internal Due Date: 7/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400735-001	18WW19_061924	Water	06/19/24 0725	**IV**
E2400735-002	18WW20_061924	Water	06/19/24 0815	**IV**
E2400735-003	18WW25_061924	Water	06/19/24 0900	**IV**
E2400735-004	125_061924	Water	06/19/24 0915	**IV**
E2400735-005	18CPTMW16_061924	Water	06/19/24 1050	**IV**
E2400735-006	18CPTMW16_061924_a	Water	06/19/24 1050	**IV**

Service Request Summary

Folder #: **E2400735**
Client Name: ALS Environmental - US
Project Name: HS24061313
Project Number:

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

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/21/24
Internal Due Date: 7/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Data Qualifiers

Lab Standard

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

Data Qualifiers

Lab Standard

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

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Acronyms

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

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ALS Environmental

State Certifications, Accreditations, and Licenses

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

Chain of Custody

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ALS Laboratory Group
HS24061313

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26111**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

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

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24061313
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24061313-01**	**18ww19_061924**	**Water**	**19 Jun 2024 07:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024
2.	**HS24061313-02**	**18ww20_061924**	**Water**	**19 Jun 2024 08:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024
3.	**HS24061313-03**	**18ww25_061924**	**Water**	**19 Jun 2024 09:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024
4.	**HS24061313-04**	**125_061924**	**Water**	**19 Jun 2024 09:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024
5.	**HS24061313-05**	**18CPTMW16_061924**	**Water**	**19 Jun 2024 10:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024
6.	**HS24061313-06**	**18CPTMW16_061924_a**	**Water**	**19 Jun 2024 10:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			05 Jul 2024

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

MS/MSD on Sample (-01)

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26111**

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

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

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HS24061313

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Sample Receipt Checklist

Work Order ID: HS24061313 **Date/Time received:** 20 Jun 2024 09:25

Client name: Bhate Environmental Associates, Inc. **Received by:** Belinda Gomez

Completed/By: 20 Jun 2024 22:10 (Date/Time) Michael Lucio (eSignature) **Reviewed/By:** 21 Jun 2024 13:28 (Date/Time) Luis.Aguilar (eSignature)

Matrices: w **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present
Chain of custody present?	☑ Yes	☐ No	1 Page(s)
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):
Samplers name present on COC?	☑ Yes	☐ No	
Chain of custody agrees with sample labels?	☑ Yes	☐ No	
Samples in proper container/bottle?	☑ Yes	☐ No	
Sample containers intact?	☑ Yes	☐ No	
Sufficient sample volume for indicated test?	☑ Yes	☐ No	
All samples received within holding time?	☑ Yes	☐ No	
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No	

Temperature(s)/Thermometer(s): 0.8uc/0.9c IR31

Cooler Information: 1 Cooler(s), Blue

Date/Time sample(s) sent to storage: 06/20/2024 22:11

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

pH adjusted by: _____

Login notes: _____

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

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 441034 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 7/3/24 11:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400734-021	ICT14C_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
2	E2400734-022	ICT14D_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
3	E2400734-023	ICT14E_062024	.02	6850/ClO4 DOD			Ground Water	10mL	
4	E2400735-001	18WW19_061924	.01	6850/ClO4 DOD			Water	10mL	
5	E2400735-002	18WW20_061924	.01	6850/ClO4 DOD			Water	10mL	
6	E2400735-003	18WW25_061924	.01	6850/ClO4 DOD			Water	10mL	
7	E2400735-004	125_061924	.01	6850/ClO4 DOD			Water	10mL	
8	E2400735-005	18CPTMW16_061924	.01	6850/ClO4 DOD			Water	10mL	
9	E2400735-006	18CPTMW16_061924_a	.01	6850/ClO4 DOD			Water	10mL	
10	E2400736-001	130_062124	.02	6850/ClO4 DOD			Water	10mL	
11	E2400736-002	17WW03_062124	.02	6850/ClO4 DOD			Water	10mL	
12	E2400736-003	17WW01_062124	.02	6850/ClO4 DOD			Water	10mL	
13	E2400736-004	17WW01_062124_A	.02	6850/ClO4 DOD			Water	10mL	
14	E2400736-005	17WW02_062124	.02	6850/ClO4 DOD			Water	10mL	
15	E2400736-006	17WW06_062124	.02	6850/ClO4 DOD			Water	10mL	
16	E2400785-001	LGAC-INF-070124	.01	6850/ClO4 DOD			Water	10mL	
17	E2400787-001	LH18/24-SP650_070224_AIX	.01	6850/ClO4 DOD			Water	10mL	
18	E2400788-001	LH18/24-SP650_070224_BIX	.01	6850/ClO4 DOD			Water	10mL	
19	E2400788-002	LH18/24-SP650_070224_AIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400789-001	LH18/24-SP140_070224	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400375-01	MB		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400375-02	LCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400375-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
24	EQ2400375-04	ICS		6850/ClO4 DOD			Liquid	10mL	
25	EQ2400375-05	18WW19_061924 MS	.01	6850/ClO4 DOD			Liquid	10mL	
26	EQ2400375-06	18WW19_061924 DMS	.01	6850/ClO4 DOD			Liquid	10mL	
27	EQ2400375-07	17WW03_062124 MS	.02	6850/ClO4 DOD			Liquid	10mL	
28	EQ2400375-08	17WW03_062124 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

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

EQ2400375-04 20.00µL

Preparation Information Benchsheet

Prep Run#: 441034 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 7/3/24 11:00

Name:	Perchlorate Internal Standard 1ug/mL	Inventory ID	236095	Logbook Ref:	Perchlorate IS cg7/3/24	Expires On:	11/24/2024

E2400734-021	100.00µL	E2400734-022	100.00µL	E2400734-023	100.00µL	E2400735-001	100.00µL	E2400735-002	100.00µL	E2400735-003	100.00µL
E2400735-004	100.00µL	E2400735-005	100.00µL	E2400735-006	100.00µL	E2400736-001	100.00µL	E2400736-002	100.00µL	E2400736-003	100.00µL
E2400736-004	100.00µL	E2400736-005	100.00µL	E2400736-006	100.00µL	E2400785-001	100.00µL	E2400787-001	100.00µL	E2400788-001	100.00µL
E2400788-002	100.00µL	E2400789-001	100.00µL	EQ2400375-01	100.00µL	EQ2400375-02	100.00µL	EQ2400375-03	100.00µL	EQ2400375-04	100.00µL
EQ2400375-05	100.00µL	EQ2400375-06	100.00µL	EQ2400375-07	100.00µL	EQ2400375-08	100.00µL				

Name:	Perchlorate Intermediate Stock 3	Inventory ID	236096	Logbook Ref:	Perchlorate Inter. Stock 3 cg7	Expires On:	10/25/2024

EQ2400375-02	100.00µL	EQ2400375-03	100.00µL	EQ2400375-04	100.00µL	EQ2400375-05	100.00µL	EQ2400375-06	100.00µL	EQ2400375-07	100.00µL
EQ2400375-08	100.00µL										

Preparation Materials

6850 Luer-Lok Syringes Luer Lok Syringes (235268)

Preparation Steps

Step: Preparation
Started: 7/3/24 11:00
Finished: 7/3/24 13:32
By: JOSEL.JUAREZ
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:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0725
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18WW19_061924	**Units:**	µg/L
Lab Code:	E2400735-001	**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	7/ 3/24	7/5/24 17:28	441034	846917	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0815
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18WW20_061924	**Units:**	µg/L
Lab Code:	E2400735-002	**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	7/ 3/24	7/5/24 18:07	441034	846917	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0900
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18WW25_061924	**Units:**	µg/L
Lab Code:	E2400735-003	**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	7/ 3/24	7/5/24 18:12	441034	846917	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0915
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	125_061924	**Units:**	µg/L
Lab Code:	E2400735-004	**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	**1340**		10.0	5.00	2.50	100	7/ 3/24	7/10/24 15:00	441034	846941	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 1050
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18CPTMW16_061924	**Units:**	µg/L
Lab Code:	E2400735-005	**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	7/ 3/24	7/5/24 18:23	441034	846917	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 1050
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18CPTMW16_061924_a	**Units:**	µg/L
Lab Code:	E2400735-006	**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	7/ 3/24	7/5/24 18:29	441034	846917	*

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400375-01	**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	7/ 3/24	7/5/24 13:51	441034	846469	

Accuracy & Precision

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dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Analyzed:**	07/05/24
Sample Matrix:	Water	**Date Extracted:**	07/03/24

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

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	846469

	Lab Control Sample EQ2400375-02			Duplicate Lab Control Sample EQ2400375-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.105	0.100	105	0.104	0.100	104	84-119	2	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400375-02	**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	**0.105**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 13:56	441034	846469	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400375-03	**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	**0.104**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 14:02	441034	846469	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	06/19/24
Sample Matrix:	Water	**Date Received:**	06/21/24
		Date Analyzed:	07/5/24
		Date Extracted:	07/3/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	18WW19_061924	**Units:**	ug/L
Lab Code:	E2400735-001	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike EQ2400375-05			Duplicate Matrix Spike EQ2400375-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	ND U	0.115	0.100	115	0.111	0.100	111	84-119	4	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.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0725
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18WW19_061924	**Units:**	µg/L
Lab Code:	EQ2400375-05	**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	**0.115**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 17:56	441034	846917	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400735
Project:	HS24061313	**Date Collected:**	6/19/24 0725
Sample Matrix:	Water	**Date Received:**	6/21/24
Sample Name:	18WW19_061924	**Units:**	µg/L
Lab Code:	EQ2400375-06	**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	**0.111**		0.100	0.0500	0.0250	1	7/ 3/24	7/5/24 18:01	441034	846917	

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

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

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

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

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

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

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Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

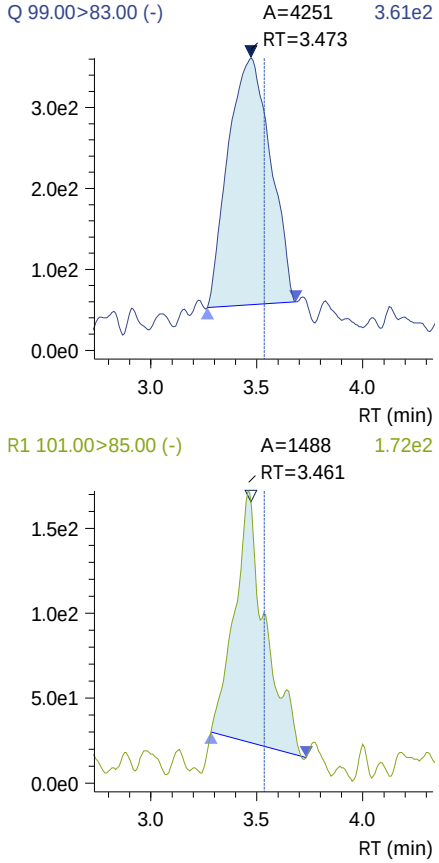
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

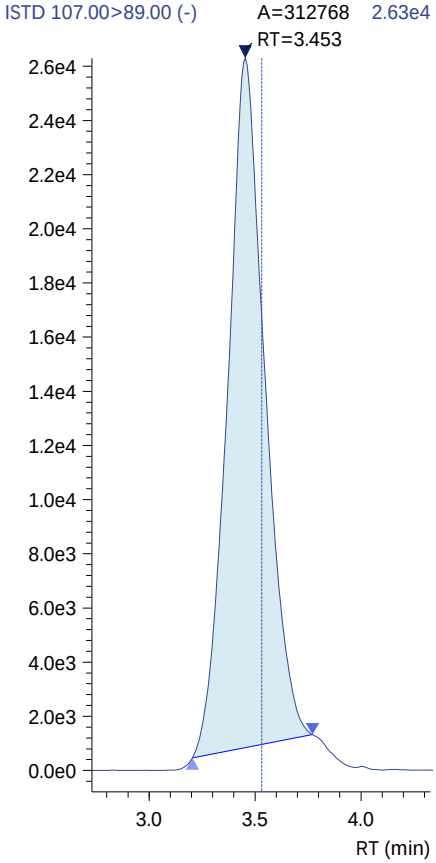
Perchlorate

Conc 0.0931
R#1 35.01 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

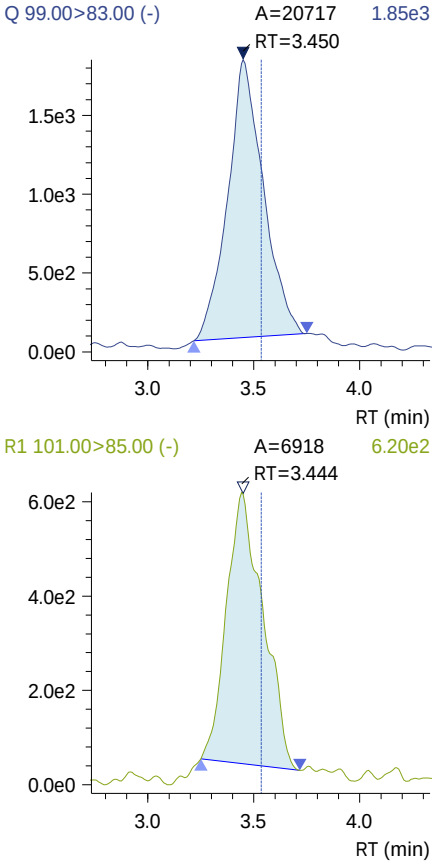
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

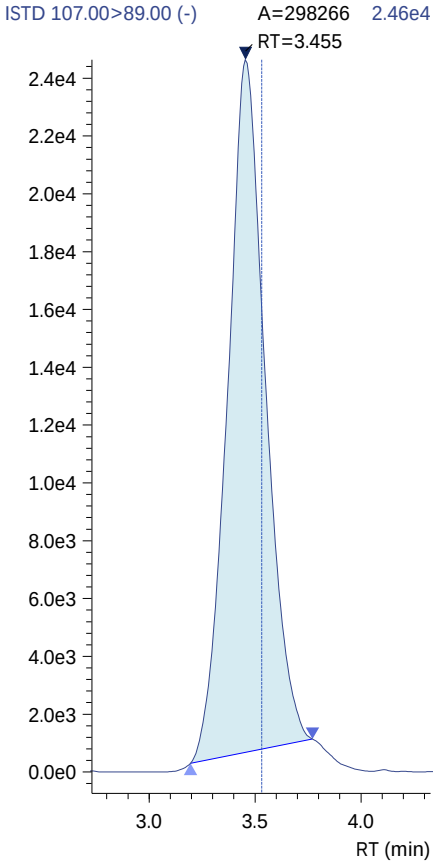
Perchlorate

Conc 0.4757
R#1 33.39 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

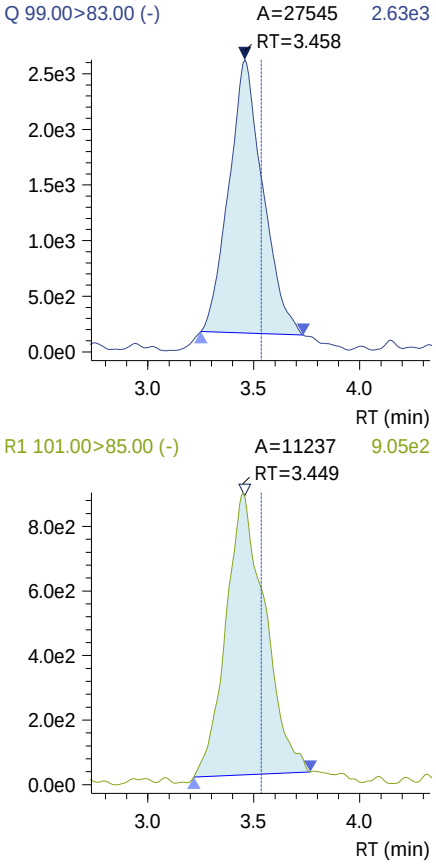
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

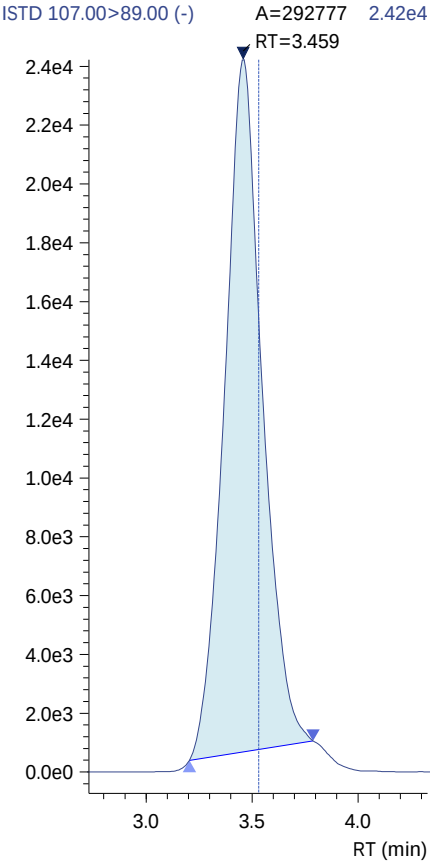
Perchlorate

Conc 0.6444
R#1 40.79 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

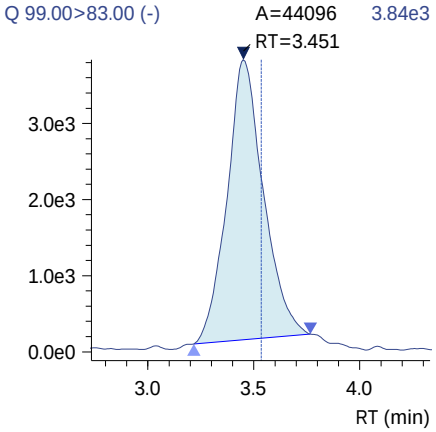
Perchlorate ICAL 4

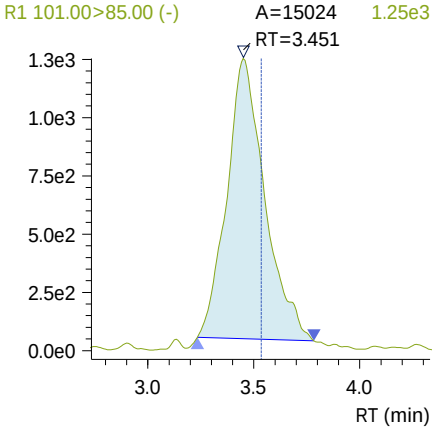
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

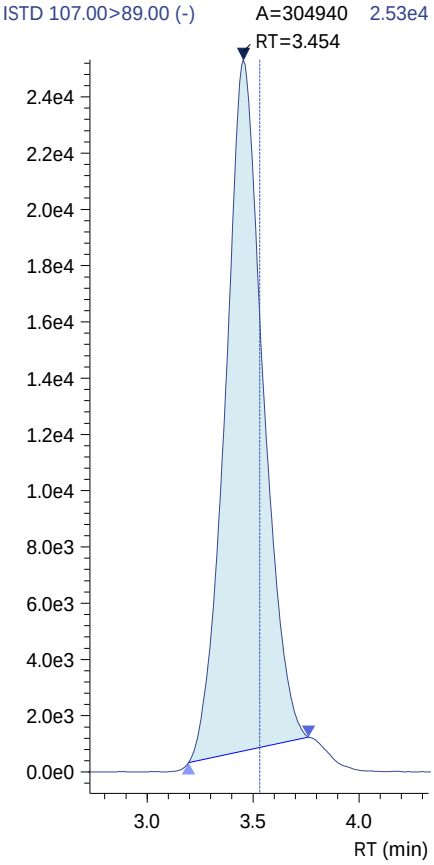
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

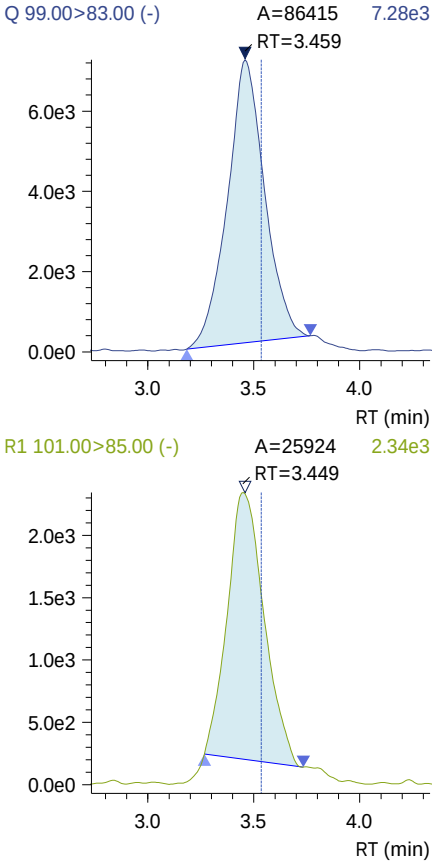
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

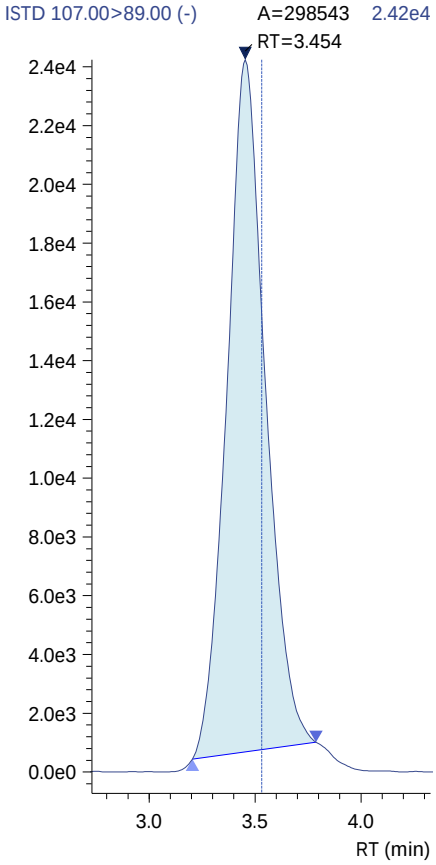
Perchlorate

Conc 1.9825
R#1 30.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

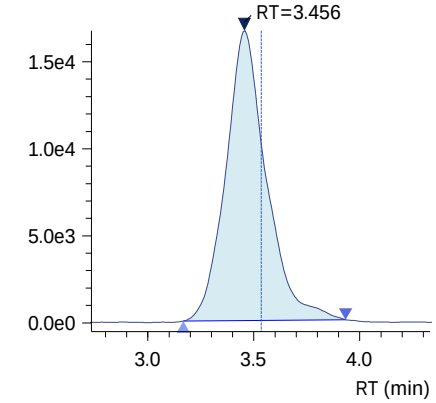
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

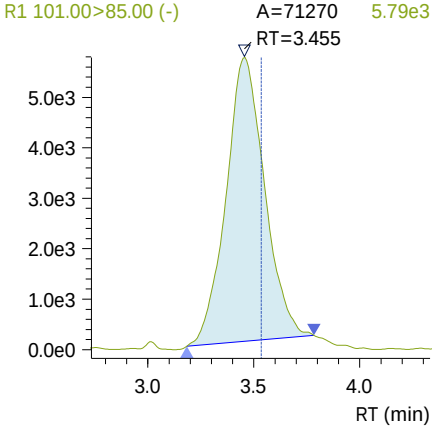
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4 RT=3.456



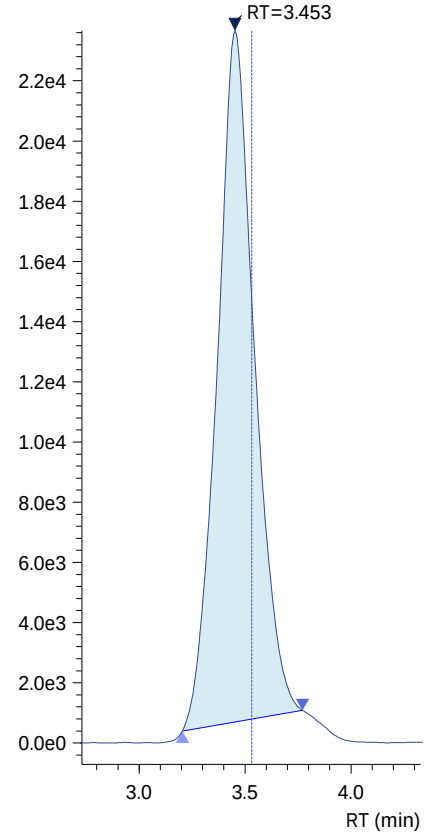
R1 101.00>85.00 (-) A=71270 5.79e3 RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4 RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

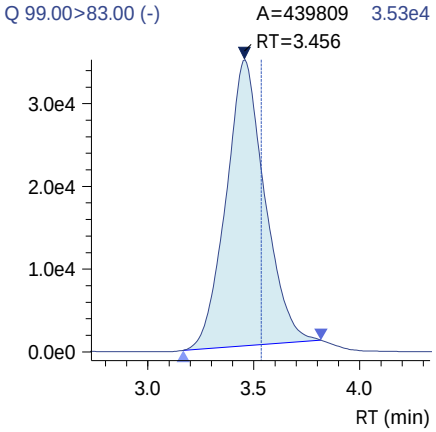
Perchlorate ICAL 7

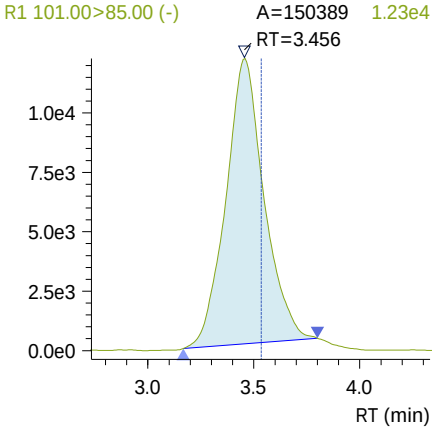
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

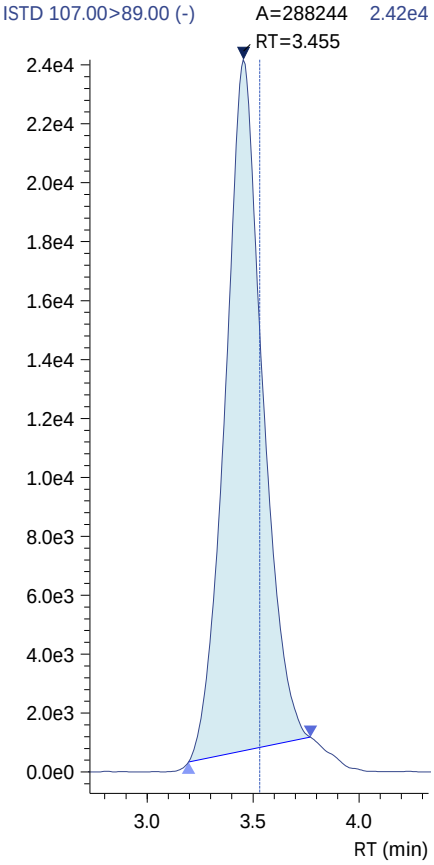
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

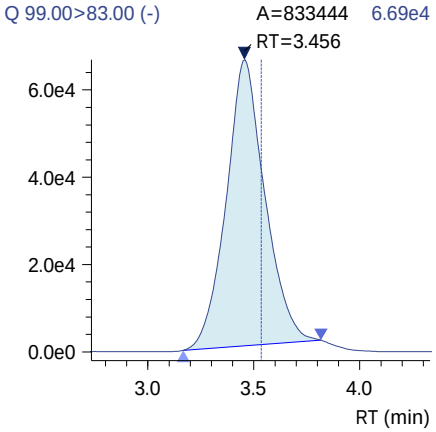
Perchlorate ICAL 8

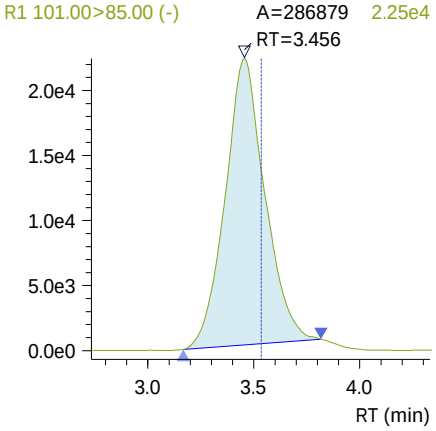
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9 364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

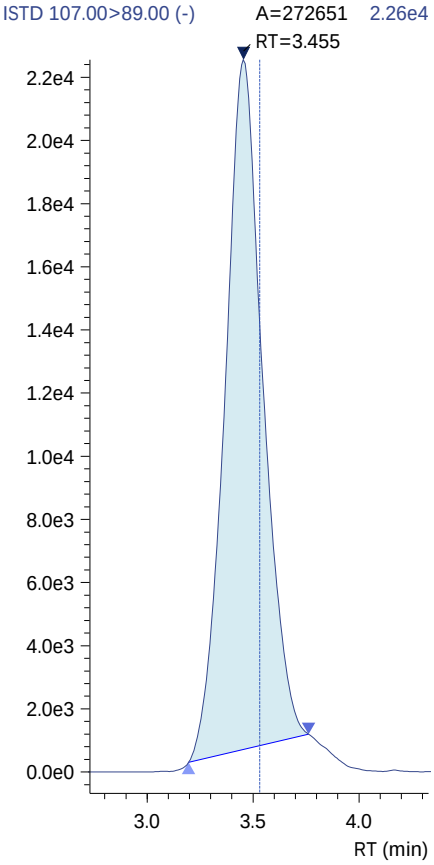
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 9

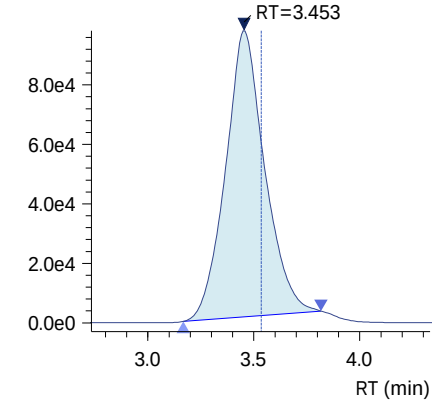
Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365	276997	30.5	ng/mL	101.00	36.19	23.50
			38		749		>85.00		-43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

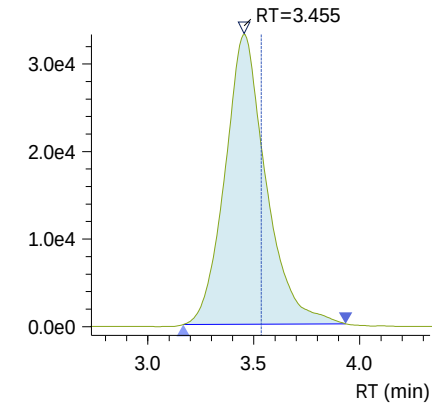
Perchlorate

Conc 30.5749
R#1 36.19 (34.10)

Q 99.00>83.00 (-) A=1236538 9.82e4



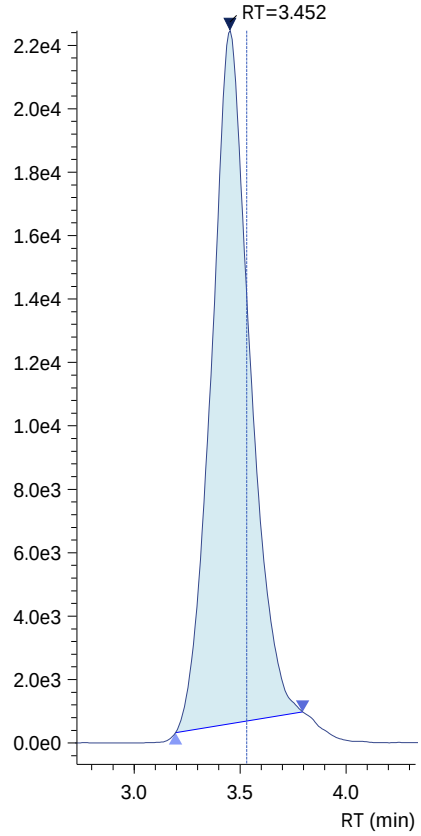
R1 101.00>85.00 (-) A=447467 3.34e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=276997 2.25e4



Insight Report

Printed at 6/12/2024 8:45:04 AM

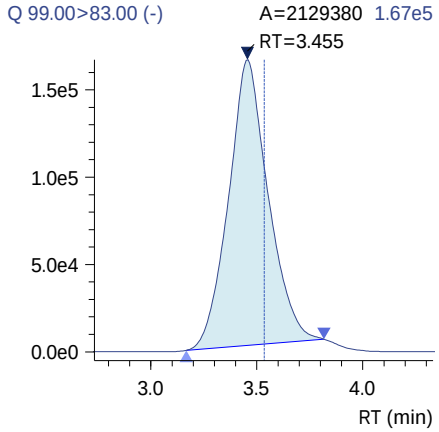
Perchlorate ICAL 10

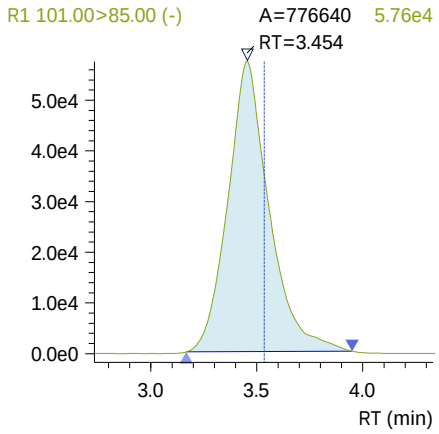
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

Perchlorate

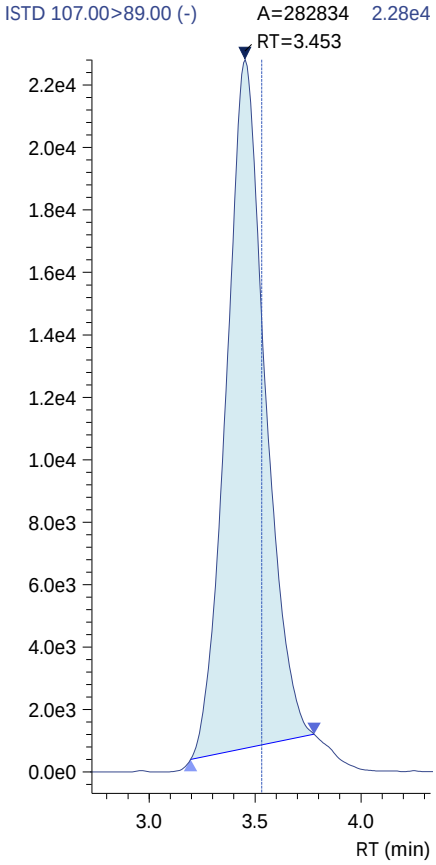
Conc 51.5649
R#1 36.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

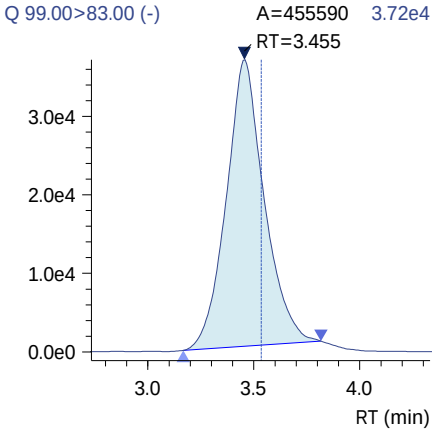
PerchlorateICV

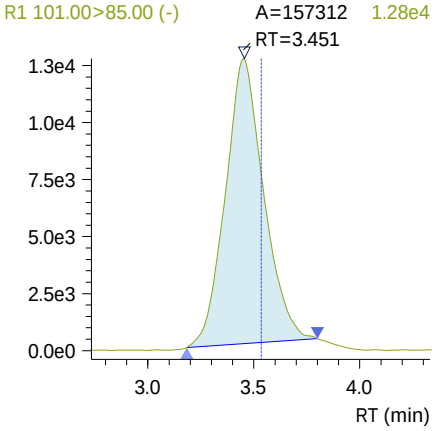
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

Perchlorate

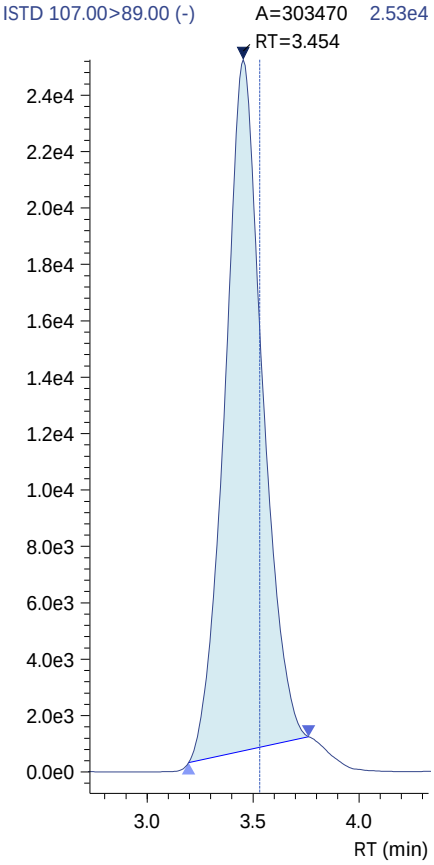
Conc 10.2823
R#1 34.53 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

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

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211813-9 B:**Acetonitrile 235171
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240705-001	IB	Perchlorate6850c.lcm	1x		7/5/2024 12:32
2	20240705-002	IB	Perchlorate6850c.lcm	1x		7/5/2024 12:56
3	20240705-003	CCV	Perchlorate6850c.lcm	1x		7/5/2024 13:02
4	20240705-004	ICS	Perchlorate6850c.lcm	1x		7/5/2024 13:16
5	20240705-005	LODV	Perchlorate6850c.lcm	1x		7/5/2024 13:29
6	20240705-006	IB	Perchlorate6850c.lcm	1x		7/5/2024 13:34
7	20240705-007	E2400788-001	Perchlorate6850c.lcm	1x		7/5/2024 13:40
8	20240705-008	E2400788-002	Perchlorate6850c.lcm	1x		7/5/2024 13:45
9	20240705-009	EQ2400375-01MB	Perchlorate6850c.lcm	1x		7/5/2024 13:51
10	20240705-010	EQ2400375-02LCS	Perchlorate6850c.lcm	1x		7/5/2024 13:56
11	20240705-011	EQ2400375-03DLCS	Perchlorate6850c.lcm	1x		7/5/2024 14:02
12	20240705-012	EQ2400375-04ICS	Perchlorate6850c.lcm	1x		7/5/2024 14:07
13	20240705-013	IB	Perchlorate6850c.lcm	1x		7/5/2024 14:14
14	20240705-014	CCV	Perchlorate6850c.lcm	1x		7/5/2024 14:19
15	20240705-015	EQ2400374-01MB	Perchlorate6850c.lcm	1x		7/5/2024 14:25
16	20240705-016	EQ2400374-02LCS	Perchlorate6850c.lcm	1x		7/5/2024 14:30
17	20240705-017	EQ2400374-03DLCS	Perchlorate6850c.lcm	1x		7/5/2024 14:36
18	20240705-018	EQ2400374-04ICS	Perchlorate6850c.lcm	1x		7/5/2024 14:42
19	20240705-019	E2400734-001	Perchlorate6850c.lcm	1x		7/5/2024 14:47
20	20240705-020	E2400734-002	Perchlorate6850c.lcm	1x	DNU	7/5/2024 14:53
21	20240705-021	E2400734-003	Perchlorate6850c.lcm	1x	DNU	7/5/2024 14:58
22	20240705-022	E2400734-004	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:04
23	20240705-023	EQ2400374-05MS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:09
24	20240705-024	EQ2400374-06DMS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:15
25	20240705-025	IB	Perchlorate6850c.lcm	1x		7/5/2024 15:20
26	20240705-026	CCV	Perchlorate6850c.lcm	1x		7/5/2024 15:26
27	20240705-027	E2400734-005	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:32
28	20240705-028	E2400734-006	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:37
29	20240705-029	E2400734-007	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:43
30	20240705-030	E2400734-008	Perchlorate6850c.lcm	1x	DNU	7/5/2024 15:48
31	20240705-031	E2400734-009	Perchlorate6850c.lcm	1x		7/5/2024 15:54
32	20240705-032	E2400734-010	Perchlorate6850c.lcm	1x		7/5/2024 15:59
33	20240705-033	E2400734-011	Perchlorate6850c.lcm	1x		7/5/2024 16:05
34	20240705-034	E2400734-012	Perchlorate6850c.lcm	1x		7/5/2024 16:10
35	20240705-035	E2400734-013	Perchlorate6850c.lcm	1x	DNU	7/5/2024 16:16
36	20240705-036	E2400734-014	Perchlorate6850c.lcm	1x		7/5/2024 16:21
37	20240705-037	IB	Perchlorate6850c.lcm	1x		7/5/2024 16:27
38	20240705-038	CCV	Perchlorate6850c.lcm	1x		7/5/2024 16:32
39	20240705-039	E2400734-015	Perchlorate6850c.lcm	1x		7/5/2024 16:38
40	20240705-040	E2400734-016	Perchlorate6850c.lcm	1x		7/5/2024 16:44
41	20240705-041	E2400734-017	Perchlorate6850c.lcm	1x	DNU	7/5/2024 16:49

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211813-9 B:**Acetonitrile 235171
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
42	20240705-042	E2400734-018	Perchlorate6850c.lcm	1x		7/5/2024 16:55
43	20240705-043	E2400734-019	Perchlorate6850c.lcm	1x		7/5/2024 17:00
44	20240705-044	E2400734-020	Perchlorate6850c.lcm	1x	DNU	7/5/2024 17:06
45	20240705-045	E2400734-021	Perchlorate6850c.lcm	1x	DNU	7/5/2024 17:11
46	20240705-046	E2400734-022	Perchlorate6850c.lcm	1x		7/5/2024 17:17
47	20240705-047	E2400734-023	Perchlorate6850c.lcm	1x	DNU	7/5/2024 17:22
48	20240705-048	E2400735-001	Perchlorate6850c.lcm	1x		7/5/2024 17:28
49	20240705-049	IB	Perchlorate6850c.lcm	1x		7/5/2024 17:33
50	20240705-050	CCV	Perchlorate6850c.lcm	1x		7/5/2024 17:39
51	20240705-051	EQ2400374-02LCS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 17:44
52	20240705-052	EQ2400374-03DLCS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 17:50
53	20240705-053	E2400735-001MS	Perchlorate6850c.lcm	1x		7/5/2024 17:56
54	20240705-054	E2400735-001DMS	Perchlorate6850c.lcm	1x		7/5/2024 18:01
55	20240705-055	E2400735-002	Perchlorate6850c.lcm	1x		7/5/2024 18:07
56	20240705-056	E2400735-003	Perchlorate6850c.lcm	1x		7/5/2024 18:12
57	20240705-057	E2400735-004	Perchlorate6850c.lcm	1x	DNU	7/5/2024 18:18
58	20240705-058	E2400735-005	Perchlorate6850c.lcm	1x		7/5/2024 18:23
59	20240705-059	E2400735-006	Perchlorate6850c.lcm	1x		7/5/2024 18:29
60	20240705-060	E2400736-001	Perchlorate6850c.lcm	1x		7/5/2024 18:34
61	20240705-061	IB	Perchlorate6850c.lcm	1x		7/5/2024 18:40
62	20240705-062	CCV	Perchlorate6850c.lcm	1x		7/5/2024 18:45
63	20240705-063	E2400736-002	Perchlorate6850c.lcm	1x	DNU	7/5/2024 18:51
64	20240705-064	E2400736-002MS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 18:56
65	20240705-065	E2400736-002DMS	Perchlorate6850c.lcm	1x	DNU	7/5/2024 19:02
66	20240705-066	E2400736-003	Perchlorate6850c.lcm	1x	DNU	7/5/2024 19:08
67	20240705-067	E2400736-004	Perchlorate6850c.lcm	1x	DNU	7/5/2024 19:13
68	20240705-068	E2400736-005	Perchlorate6850c.lcm	1x		7/5/2024 19:19
69	20240705-069	E2400736-006	Perchlorate6850c.lcm	1x	DNU	7/5/2024 19:24
70	20240705-070	E2400785-001	Perchlorate6850c.lcm	1x		7/5/2024 19:30
71	20240705-071	E2400787-001	Perchlorate6850c.lcm	1x		7/5/2024 19:35
72	20240705-072	E2400789-001	Perchlorate6850c.lcm	1x	DNU	7/5/2024 19:41
73	20240705-073	IB	Perchlorate6850c.lcm	1x		7/5/2024 19:46
74	20240705-074	CCV	Perchlorate6850c.lcm	1x		7/5/2024 19:52

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211814-2 B:**Acetonitrile 235171
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240710-001	IB	Perchlorate6850c.lcm	1x		7/10/2024 13:34
2	20240710-002	ICS	Perchlorate6850c.lcm	1x		7/10/2024 13:39
3	20240710-003	CCV	Perchlorate6850c.lcm	1x		7/10/2024 13:45
4	20240710-004	LODV	Perchlorate6850c.lcm	1x		7/10/2024 13:50
5	20240710-005	IB	Perchlorate6850c.lcm	1x		7/10/2024 13:56
6	20240710-006	EQ2400374-01MB	Perchlorate6850c.lcm	1x	DNU Report 7/5 run	7/10/2024 14:38
7	20240710-007	EQ2400374-02LCS	Perchlorate6850c.lcm	1x	DNU	7/10/2024 14:43
8	20240710-008	EQ2400374-03DLCS	Perchlorate6850c.lcm	1x	DNU	7/10/2024 14:49
9	20240710-009	EQ2400374-04ICS	Perchlorate6850c.lcm	1x	DNU Report 7/5 run	7/10/2024 14:54
10	20240710-010	E2400735-004x100	Perchlorate6850c.lcm	100x		7/10/2024 15:00
11	20240710-011	E2400736-002x10	Perchlorate6850c.lcm	10x		7/10/2024 15:05
12	20240710-012	EQ2400375-07MSX10	Perchlorate6850c.lcm	10x		7/10/2024 15:11
13	20240710-013	EQ2400375-08DMSX10	Perchlorate6850c.lcm	10x		7/10/2024 15:17
14	20240710-014	E2400376-003X10	Perchlorate6850c.lcm	10x		7/10/2024 15:22
15	20240710-015	E2400376-004X10	Perchlorate6850c.lcm	10x		7/10/2024 15:28
16	20240710-016	CCV	Perchlorate6850c.lcm	1x		7/10/2024 15:33
17	20240710-017	IB	Perchlorate6850c.lcm	1x		7/10/2024 15:39
18	20240710-018	EQ2400374-02LCS	Perchlorate6850c.lcm	1x		7/10/2024 15:44
19	20240710-019	EQ2400374-03DLCS	Perchlorate6850c.lcm	1x		7/10/2024 15:50
20	20240710-020	E2400376-005X10	Perchlorate6850c.lcm	10x	DNU Report 7/5 run	7/10/2024 15:56
21	20240710-021	E2400736-006X1000	Perchlorate6850c.lcm	1000x		7/10/2024 16:01
22	20240710-022	E2400789-001X500	Perchlorate6850c.lcm	500x		7/10/2024 16:07
23	20240710-023	E2400734-002X100	Perchlorate6850c.lcm	100x		7/10/2024 16:12
24	20240710-024	E2400734-003X10	Perchlorate6850c.lcm	10x		7/10/2024 16:18
25	20240710-025	E2400734-004X100	Perchlorate6850c.lcm	100x		7/10/2024 16:23
26	20240710-026	EQ2400374-05MSX100	Perchlorate6850c.lcm	100x		7/10/2024 16:29
27	20240710-027	EQ2400374-06DMSX100	Perchlorate6850c.lcm	100x		7/10/2024 16:34
28	20240710-028	CCV	Perchlorate6850c.lcm	1x		7/10/2024 16:40
29	20240710-029	IB	Perchlorate6850c.lcm	1x		7/10/2024 16:46
30	20240710-030	E2400734-005X1000	Perchlorate6850c.lcm	1000x		7/10/2024 16:51
31	20240710-031	E2400734-006X100	Perchlorate6850c.lcm	100x		7/10/2024 16:57
32	20240710-032	E2400734-007X1000	Perchlorate6850c.lcm	1000x		7/10/2024 17:02
33	20240710-033	E2400734-008X50	Perchlorate6850c.lcm	50x		7/10/2024 17:08
34	20240710-034	E2400734-013X50	Perchlorate6850c.lcm	50x		7/10/2024 17:13
35	20240710-035	E2400734-014X10	Perchlorate6850c.lcm	10x		7/10/2024 17:19
36	20240710-036	E2400734-017X10	Perchlorate6850c.lcm	10x		7/10/2024 17:24
37	20240710-037	E2400734-020X100	Perchlorate6850c.lcm	100x		7/10/2024 17:30
38	20240710-038	E2400734-021X100	Perchlorate6850c.lcm	100x		7/10/2024 17:35
39	20240710-039	E2400734-023X10	Perchlorate6850c.lcm	10x		7/10/2024 17:41
40	20240710-040	CCV	Perchlorate6850c.lcm	1x		7/10/2024 17:46
41	20240710-041	IB	Perchlorate6850c.lcm	1x		7/10/2024 17:52

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/5/24 13:02

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

File ID: I:\LCMS01\DATA\20240705\20240705-003
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400376-01
Analysis Lot: 846469
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400376-01	197,133	3.43
Method Blank	EQ2400375-01	196,343	3.43
Lab Control Sample	EQ2400375-02	191,311	3.43
Duplicate Lab Control Sample	EQ2400375-03	179,660	3.43

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/5/24 14:19

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

File ID: I:\LCMS01\DATA\20240705\20240705-014
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400376-02
Analysis Lot: 846469
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400376-02	201,802	3.43

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/5/24 14:19

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

File ID: I:\LCMS01\DATA\20240705\20240705-014
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-01
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-01	201,802	3.43

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/5/24 15:26

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

File ID: I:\LCMS01\DATA\20240705\20240705-026
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-02
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-02	208,764	3.42

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: HS24061313

Service Request: E2400735
Date Analyzed: 7/5/24 16:32

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

File ID: I:\LCMS01\DATA\20240705\20240705-038
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-03
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-03	200,200	3.42
18WW19_061924	E2400735-001	198,204	3.42

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: HS24061313

Service Request: E2400735
Date Analyzed: 7/5/24 17:39

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

File ID: I:\LCMS01\DATA\20240705\20240705-050
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-04
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-04	196,021	3.42
18WW19_061924MS	EQ2400375-05	197,070	3.42
18WW19_061924DMS	EQ2400375-06	197,280	3.43
18WW20_061924	E2400735-002	196,177	3.42
18WW25_061924	E2400735-003	219,078	3.43
18CPTMW16_061924	E2400735-005	204,596	3.42
18CPTMW16_061924_a	E2400735-006	212,039	3.42

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: HS24061313

Service Request: E2400735
Date Analyzed: 7/5/24 18:45

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

File ID: I:\LCMS01\DATA\20240705\20240705-062
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-05
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-05	198,372	3.42

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: HS24061313

Service Request: E2400735
Date Analyzed: 7/5/24 19:52

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

File ID: I:\LCMS01\DATA\20240705\20240705-074
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400381-06
Analysis Lot: 846917
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400381-06	218,852	3.42

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: HS24061313

Service Request: E2400735
Date Analyzed: 7/10/24 13:45

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

File ID: I:\LCMS01\DATA\20240710\20240710-003
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400383-01
Analysis Lot: 846941
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400383-01	152,163	3.40
125_061924	E2400735-004	157,761	3.40

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: HS24061313

Service Request: E2400735
Date Analyzed: 7/10/24 15:33

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

File ID: I:\LCMS01\DATA\20240710\20240710-016
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400383-02
Analysis Lot: 846941
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400383-02	164,410	3.41

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: HS24061313

Service Request: E2400735
Date Analyzed: 7/10/24 16:40

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

File ID: I:\LCMS01\DATA\20240710\20240710-028
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400383-03
Analysis Lot: 846941
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400383-03	179,730	3.40

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: HS24061313

Service Request: E2400735
Date Analyzed: 7/10/24 17:46

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

File ID: I:\LCMS01\DATA\20240710\20240710-040
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400383-04
Analysis Lot: 846941
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400383-04	173,977	3.40

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: HS24061313

Service Request: E2400735
Date Analyzed: 7/ 5/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-003

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846469
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1460	0.1463	0.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/ 5/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-014

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846469
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1460	0.1573	7.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/ 5/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-014

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1460	3.174E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/ 5/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-026

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.9	0.1460	3.320E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/ 5/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-038

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1460	3.166E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/ 5/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-050

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.7	0.1460	3.060E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/ 5/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-062

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1460	3.121E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/ 5/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240705\20240705-074

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846917
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.6	0.1460	3.399E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/10/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240710\20240710-003

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846941
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.74	0.1460	2.165E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/10/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240710\20240710-016

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846941
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.82	0.1460	2.358E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/10/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240710\20240710-028

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846941
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.61	0.1460	2.522E4	######*	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061313

Service Request: E2400735
Date Analyzed: 7/10/24

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

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240710\20240710-040

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 846941
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1460	2.566E4	######*	NA	± 15 %	Average RF

Insight Report

Printed at 7/11/2024 11:39:02 AM

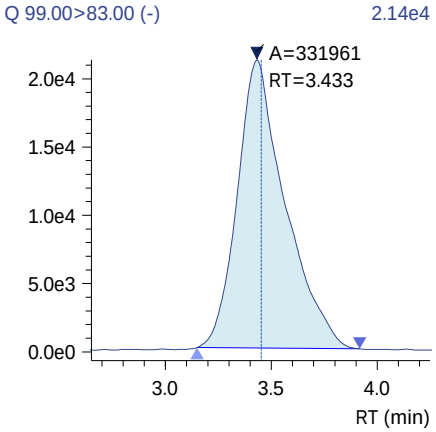
CCV

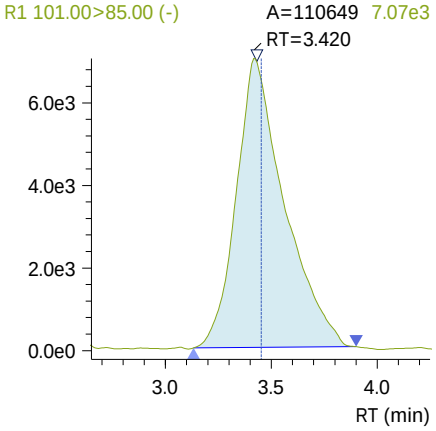
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Date Acquired: 7/5/2024 3:26:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-026.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.433	331961	208764	10.8909	ng/mL	101.00 >85.00	33.33	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.422	208764	208764	1.0000	ng/mL	----	----	

Perchlorate

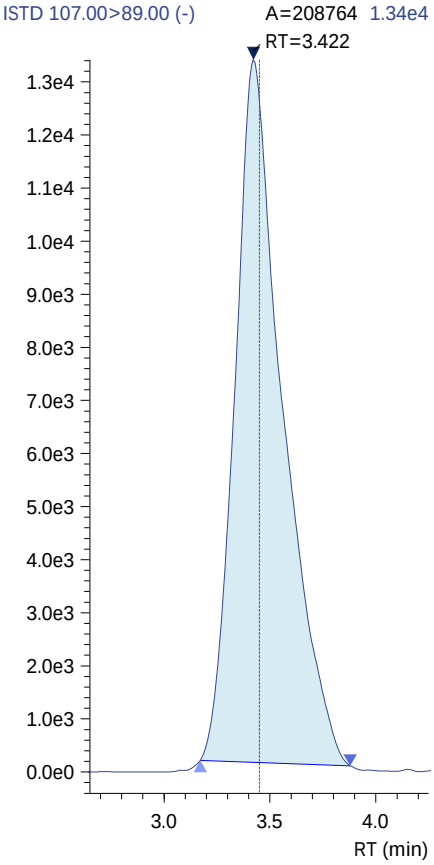
Conc 10.8909
R#1 33.33 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

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Project File: I:\LCMS01\DATA\20240705\20240705.damlp

IB

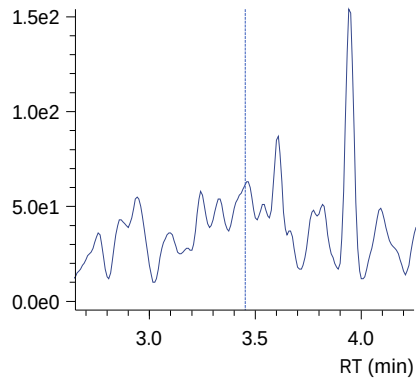
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Date Acquired: 7/5/2024 12:32:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	177014	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.428	177014	177014	1.0000	ng/mL	----	----	

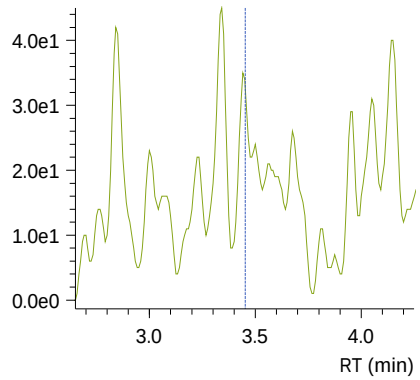
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.54e2



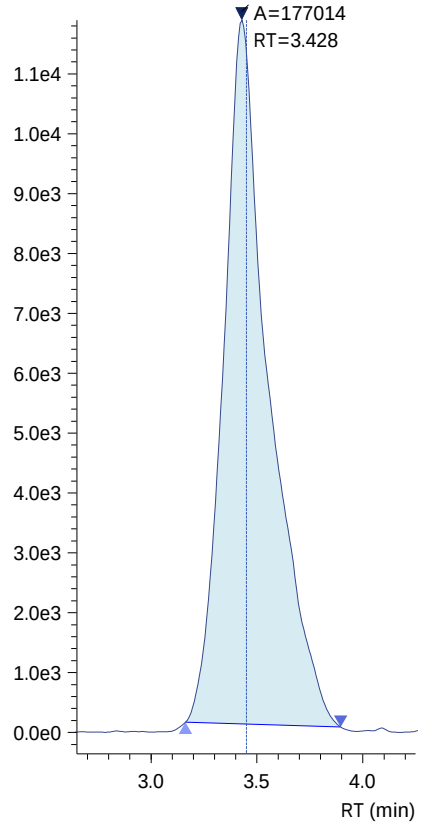
R1 101.00>85.00 (-) 4.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.19e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

IB

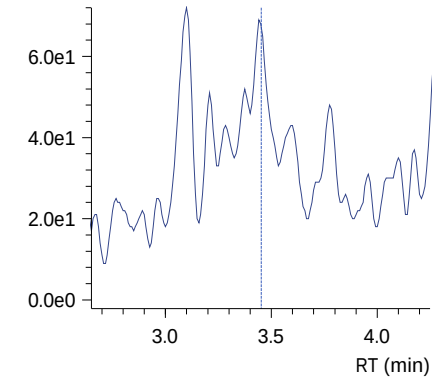
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Date Acquired: 7/5/2024 12:56:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	192052	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.431	192052	192052	1.0000	ng/mL	----	----	

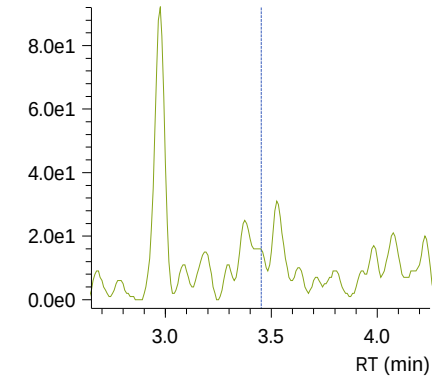
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.20e1



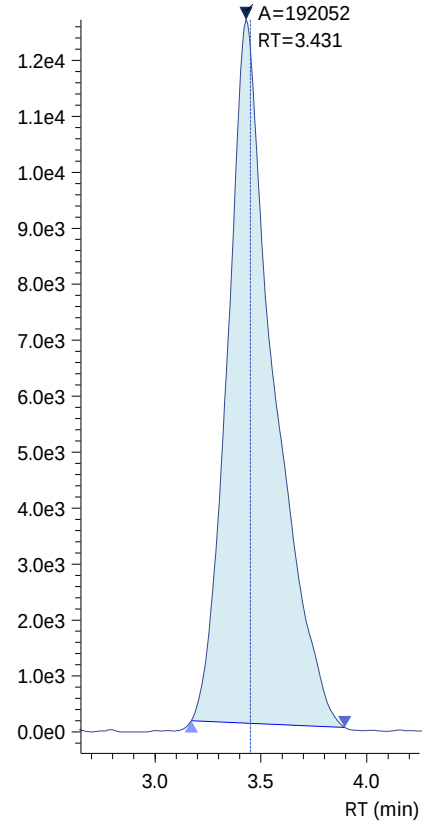
R1 101.00>85.00 (-) 9.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.27e4



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CCV

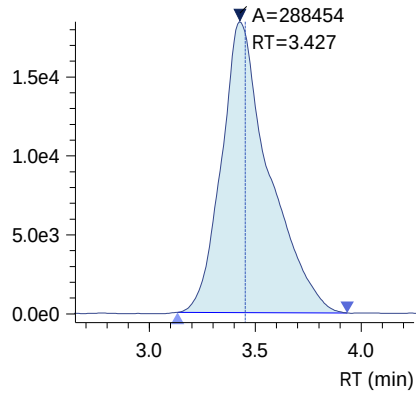
Sample ID: CCV
Date Acquired: 7/5/2024 1:02:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-003.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.427	288454	197133	10.0219	ng/mL	101.00 >85.00	33.11	23.32 -42.91
Sodium Perchlorate -18O4_IS	M	3.430	197133	197133	1.0000	ng/mL	----	----	

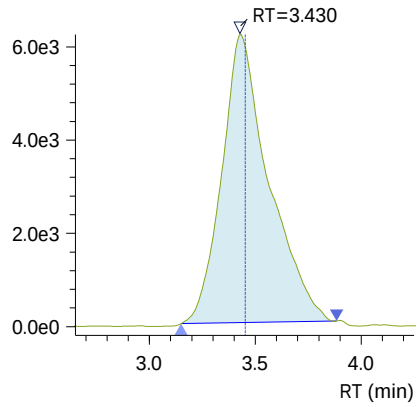
Perchlorate

Conc 10.0219
R#1 33.11 (35.24)

Q 99.00>83.00 (-) 1.85e4



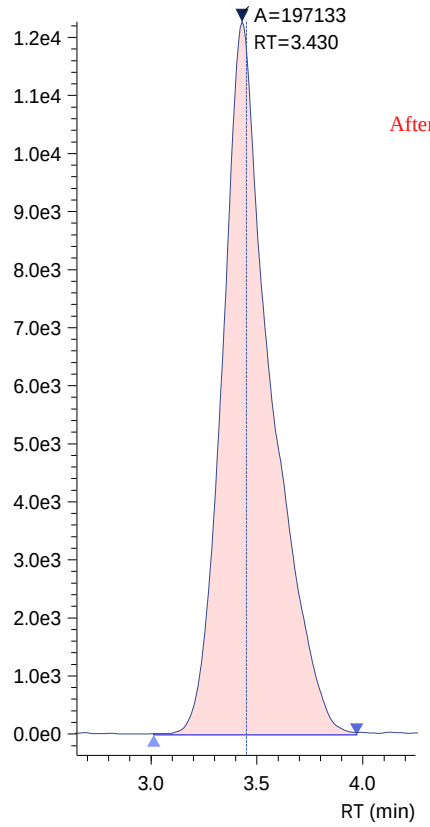
R1 101.00>85.00 (-) A=95508 6.27e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.23e4



After-BLC

Insight Report

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Method File: I:\LCMS01\DATA\20240705\20240705.lcm
Project File: I:\LCMS01\DATA\20240705\20240705.damlp

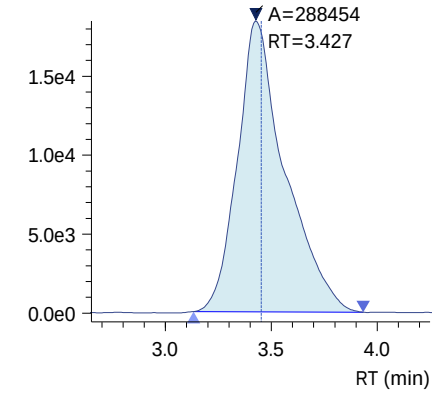
CCV

Sample ID: CCV
Date Acquired: 7/5/2024 1:02:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-003.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

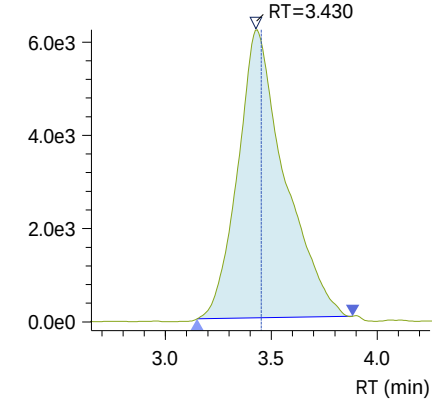
Perchlorate

Conc 10.4491
R#1 33.11 (35.24)

Q 99.00>83.00 (-) 1.85e4



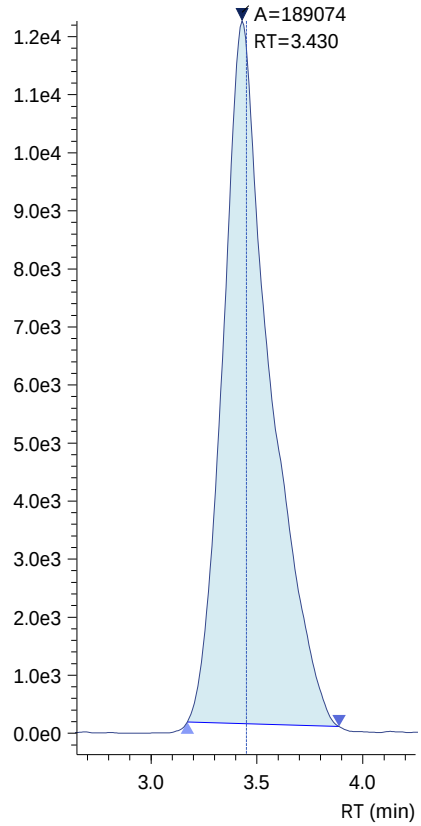
R1 101.00>85.00 (-) A=95508 6.27e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.23e4



Insight Report

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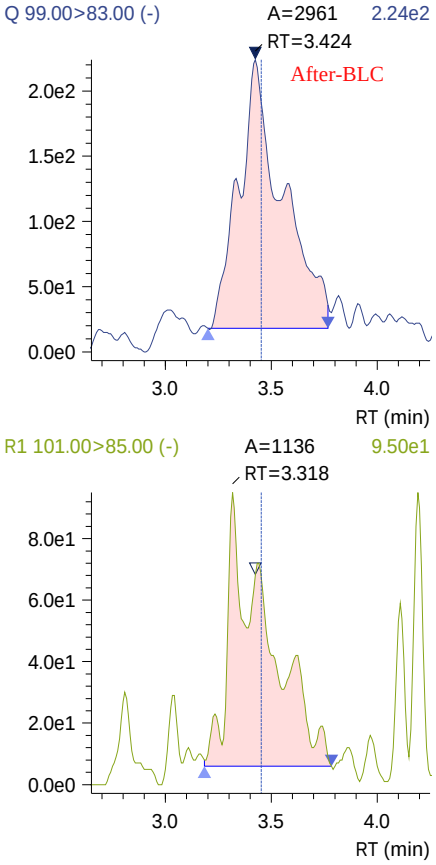
ICS

Sample ID: ICS
Date Acquired: 7/5/2024 1:16:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-004.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.424	2961	184580	0.1099	ng/mL	101.00 >85.00	38.35	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.428	184580	184580	1.0000	ng/mL	----	----	

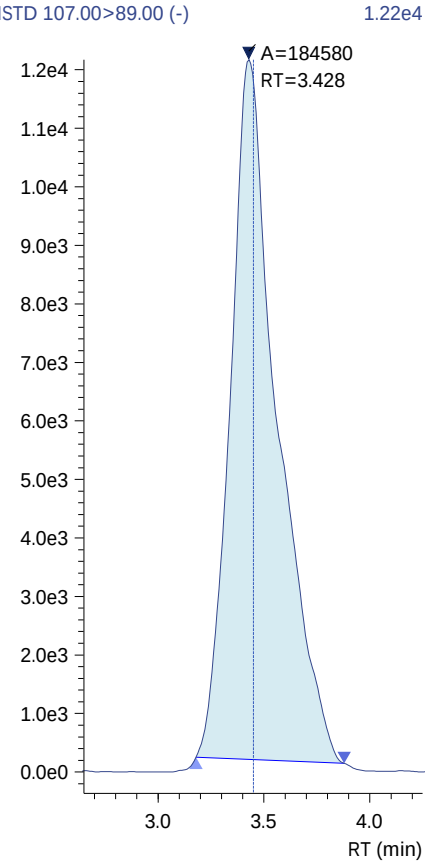
Perchlorate

Conc 0.1099
R#1 38.35 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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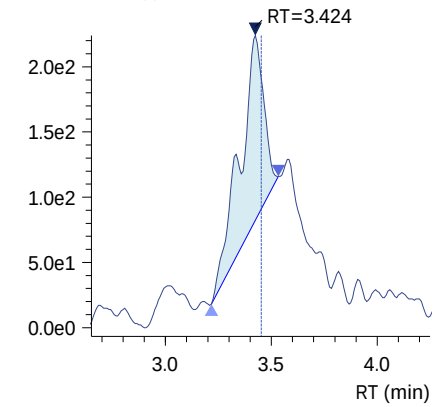
ICS

Sample ID: ICS
Date Acquired: 7/5/2024 1:16:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-004.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

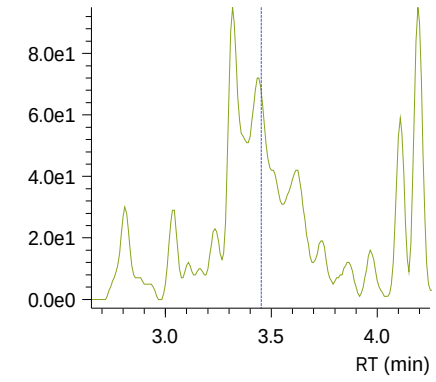
Perchlorate

Conc 0.0412
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1110 2.24e2



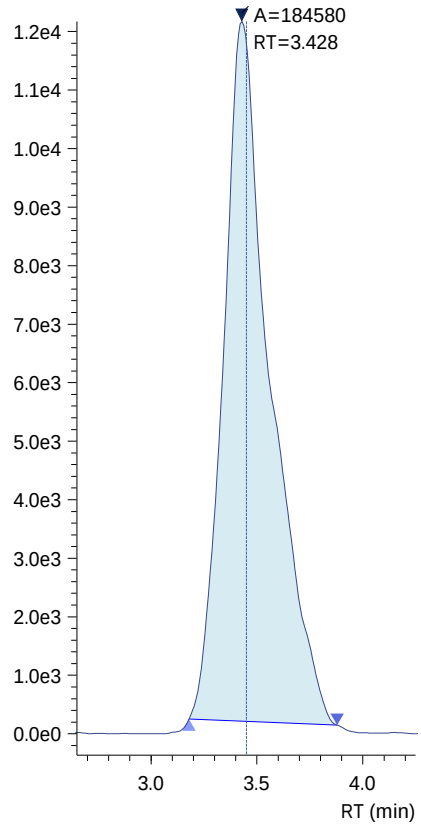
R1 101.00>85.00 (-) 9.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.22e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

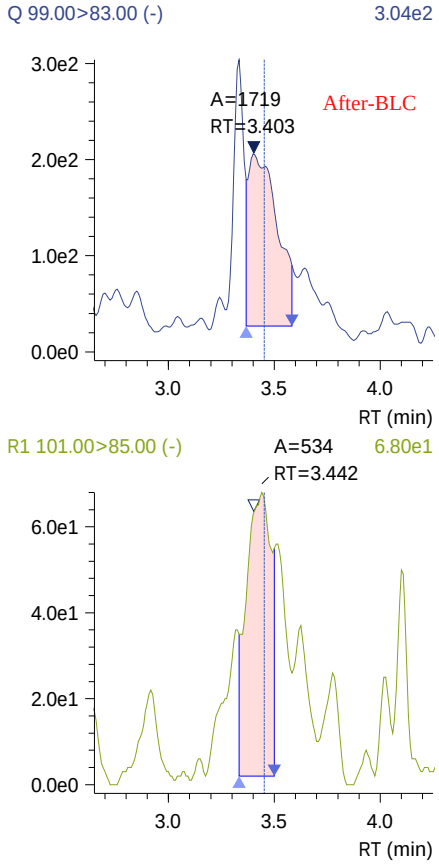
LODV

Sample ID: LODV
Date Acquired: 7/5/2024 1:29:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-005.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.403	1719	221331	0.0532	ng/mL	101.00 >85.00	31.07	23.32 -42.91
Sodium Perchlorate -18O4_IS	M	3.430	221331	221331	1.0000	ng/mL	----	----	

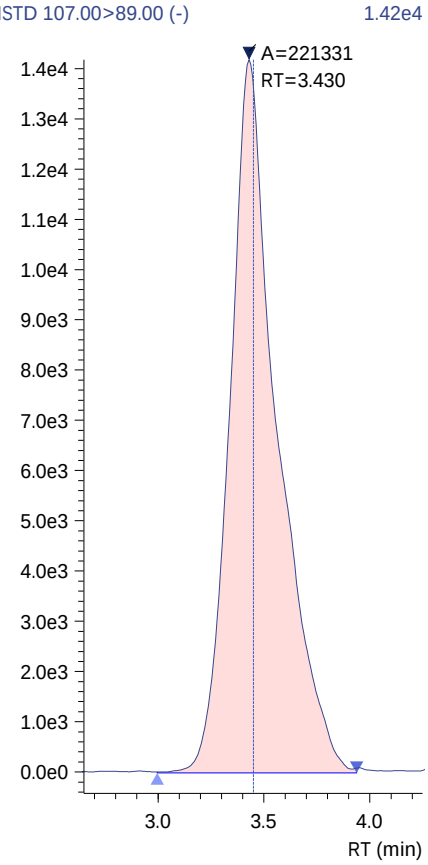
Perchlorate

Conc 0.0532
R#1 31.07 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

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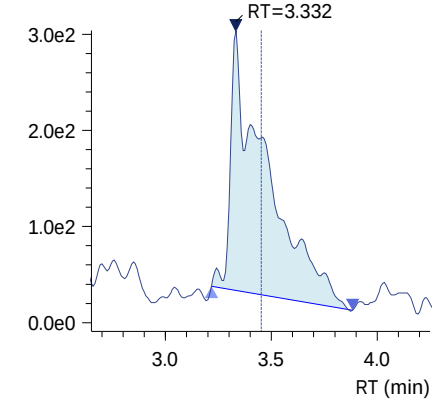
LODV

Sample ID: LODV
Date Acquired: 7/5/2024 1:29:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-005.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

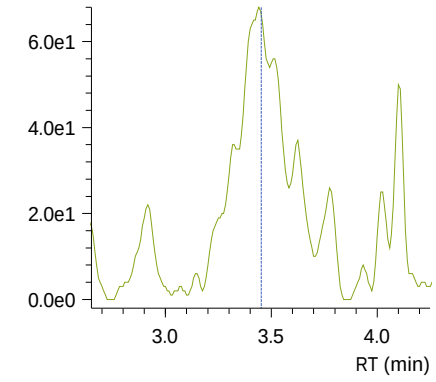
Perchlorate

Conc 0.1025
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=3194 3.04e2



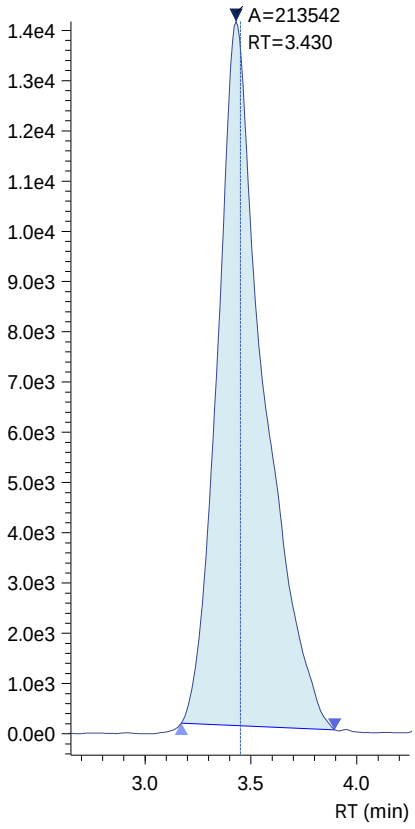
R1 101.00>85.00 (-) 6.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.42e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

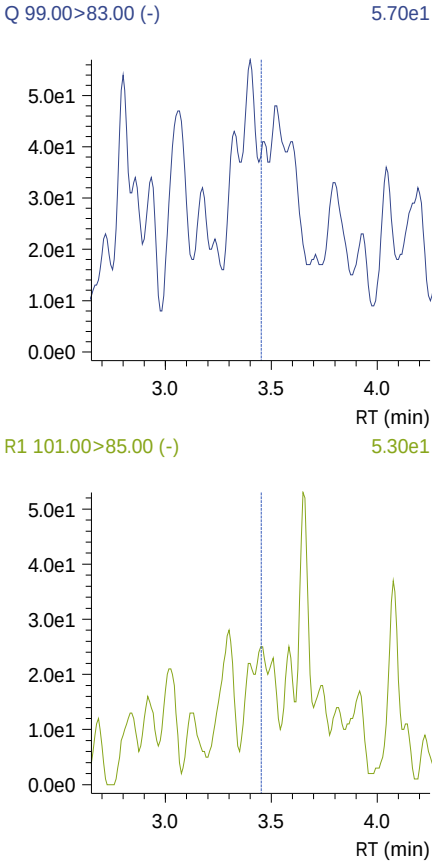
IB

Sample ID: IB
Date Acquired: 7/5/2024 1:34:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	203269	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	M	3.425	203269	203269	1.0000	ng/mL	----	----	

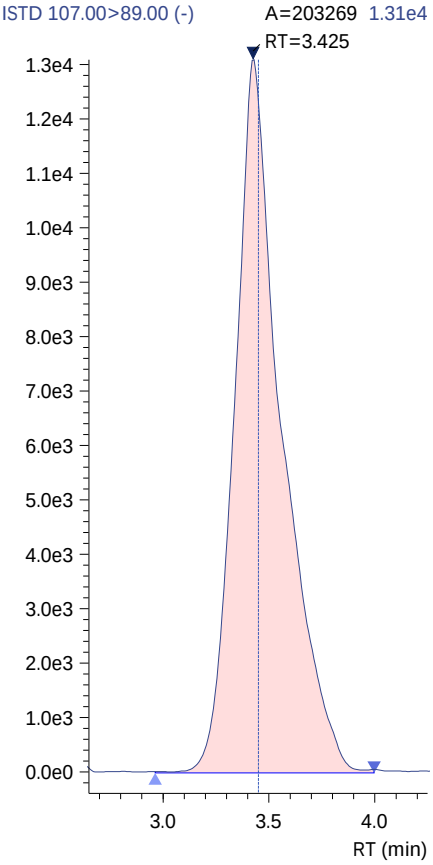
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 7/11/2024 11:40:38 AM

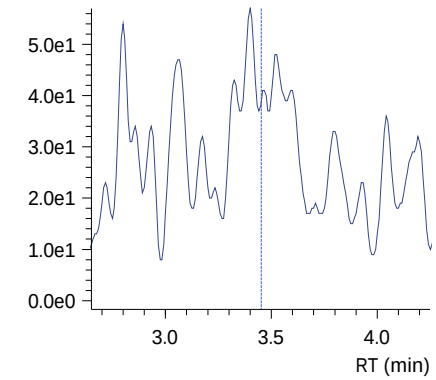
IB

Sample ID: IB
Date Acquired: 7/5/2024 1:34:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

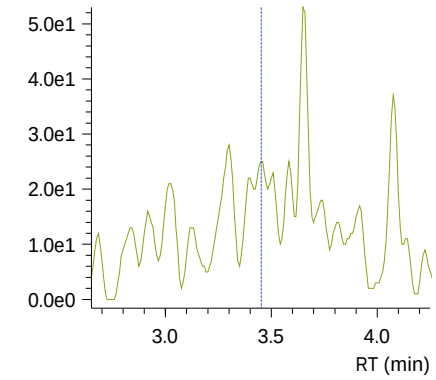
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 5.70e1



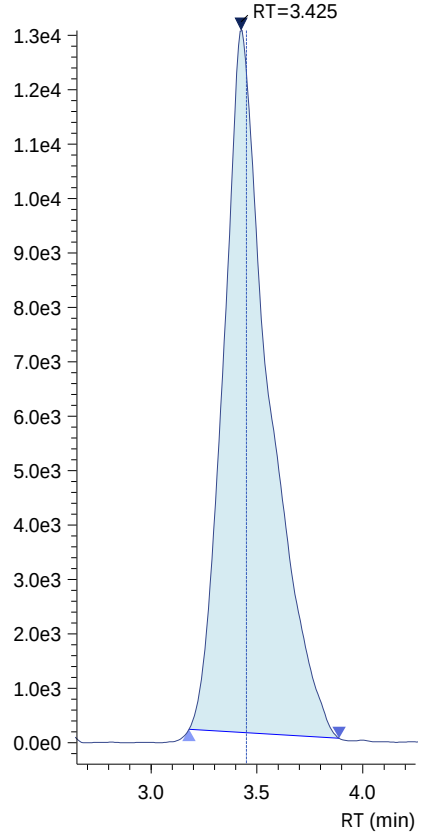
R1 101.00>85.00 (-) 5.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=194571 1.31e4
RT=3.425



Insight Report

Printed at 7/11/2024 11:39:02 AM

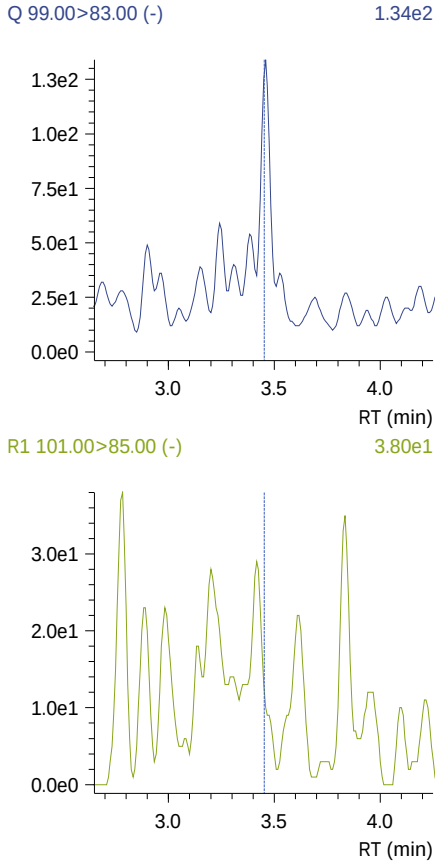
EQ2400375-01MB

Sample ID: EQ2400375-01
Date Acquired: 7/5/2024 1:51:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-009.lcd
Vial: 3 | 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)	----	----	196343	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.425	196343	196343	1.0000	ng/mL	----	----	

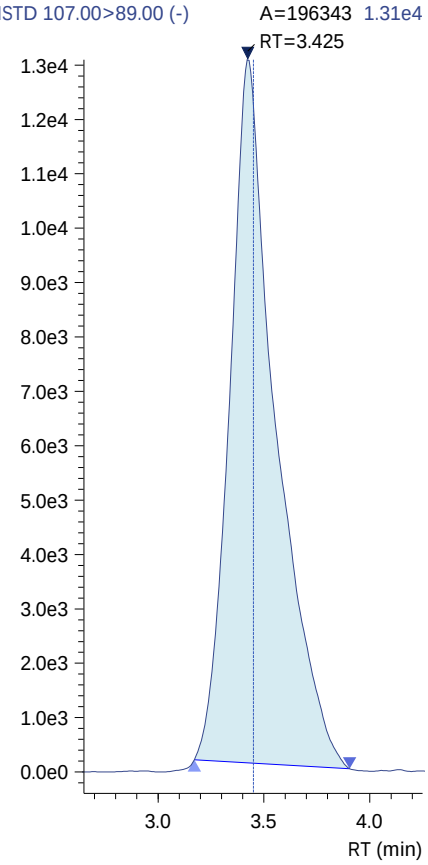
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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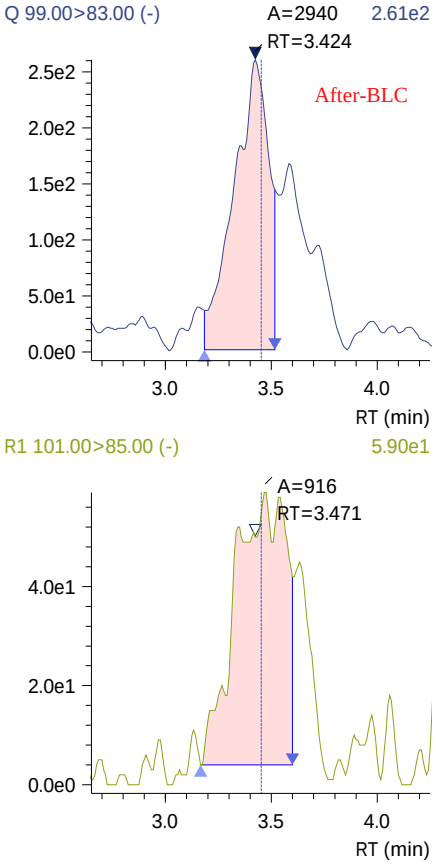
EQ2400375-02LCS

Sample ID: EQ2400375-02
Date Acquired: 7/5/2024 1:56:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-010.lcd
Vial: 4 | 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	3.424	2940	191311	0.1052	ng/mL	101.00 >85.00	31.16	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.428	191311	191311	1.0000	ng/mL	----	----	

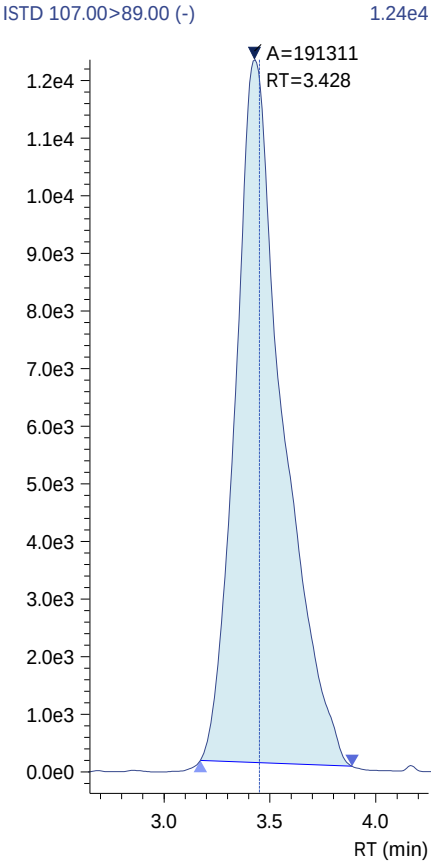
Perchlorate

Conc 0.1052
R#1 31.16 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

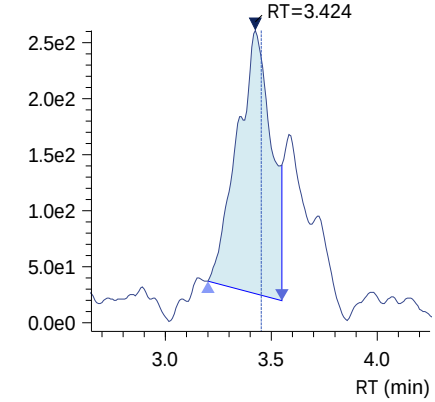
EQ2400375-02LCS

Sample ID: EQ2400375-02
Date Acquired: 7/5/2024 1:56:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 4

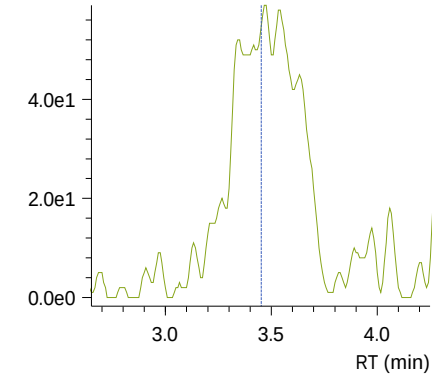
Perchlorate

Conc 0.0942
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=2630 2.61e2



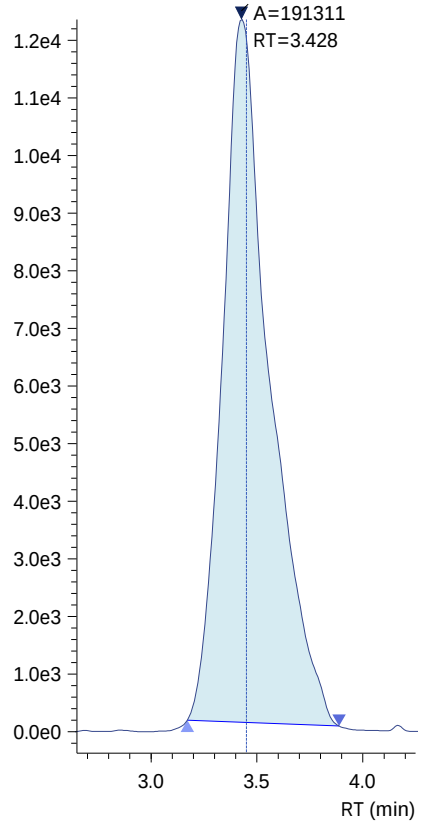
R1 101.00>85.00 (-) 5.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

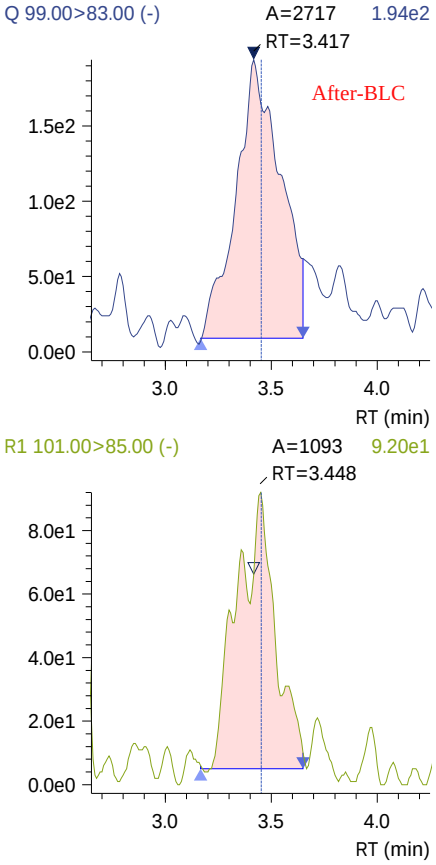
EQ2400375-03DLCS

Sample ID: EQ2400375-03
Date Acquired: 7/5/2024 2:02:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-011.lcd
Vial: 5 | 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	3.417	2717	179660	0.1036	ng/mL	101.00 >85.00	40.22	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.425	179660	179660	1.0000	ng/mL	----	----	

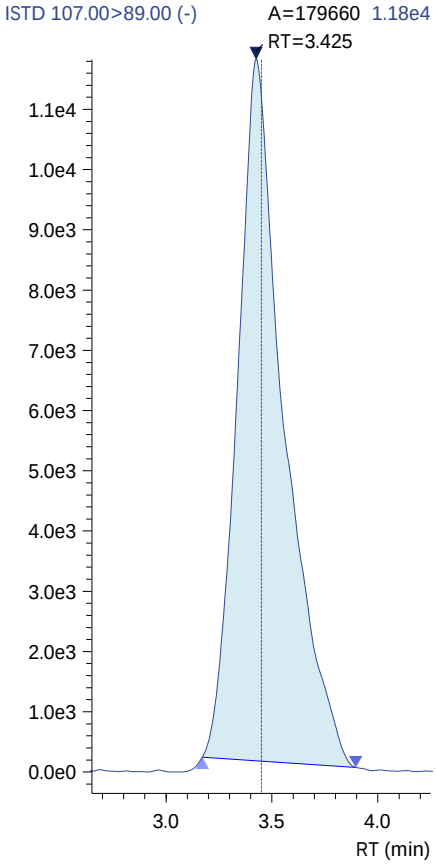
Perchlorate

Conc 0.1036
R#1 40.22 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

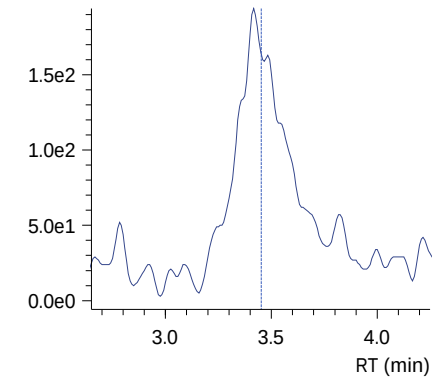
EQ2400375-03DLCS

Sample ID: EQ2400375-03
Date Acquired: 7/5/2024 2:02:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 4

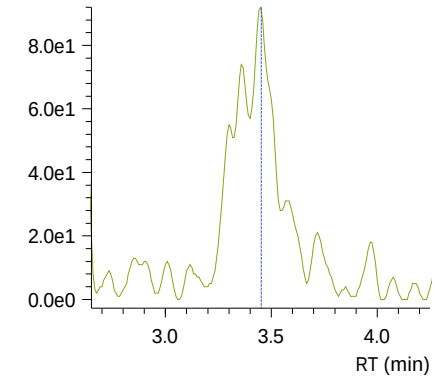
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.94e2



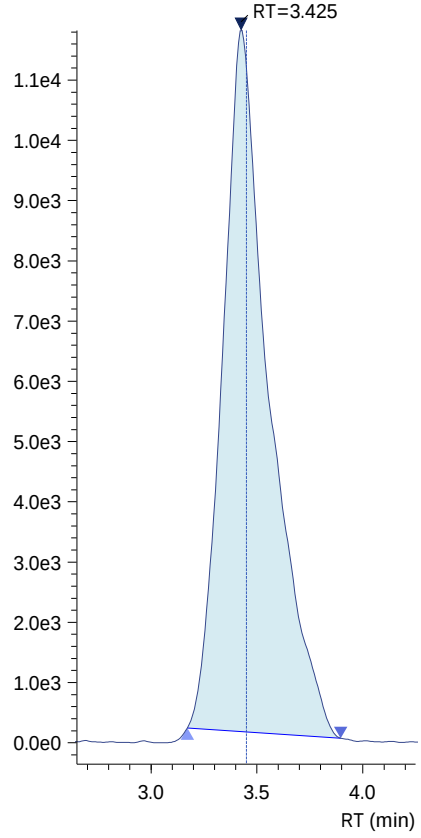
R1 101.00>85.00 (-) 9.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=179660 1.18e4
RT=3.425



Insight Report

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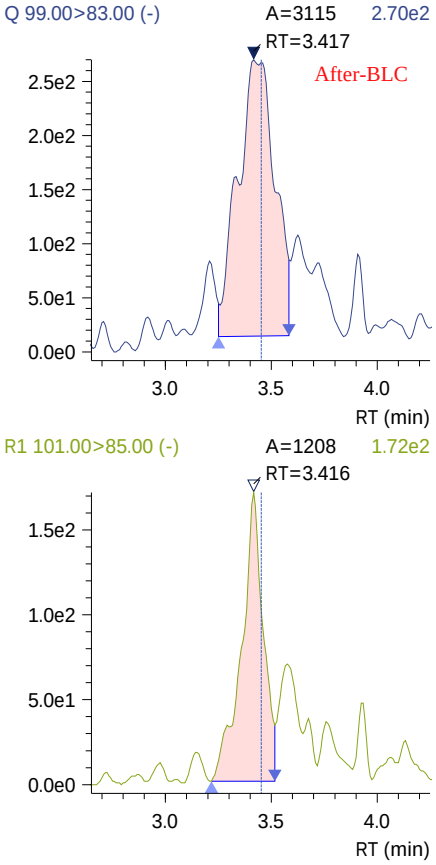
EQ2400375-04ICS

Sample ID: EQ2400375-04
Date Acquired: 7/5/2024 2:07:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-012.lcd
Vial: 6 | 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	3.417	3115	199970	0.1067	ng/mL	101.00 >85.00	38.78	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.425	199970	199970	1.0000	ng/mL	----	----	

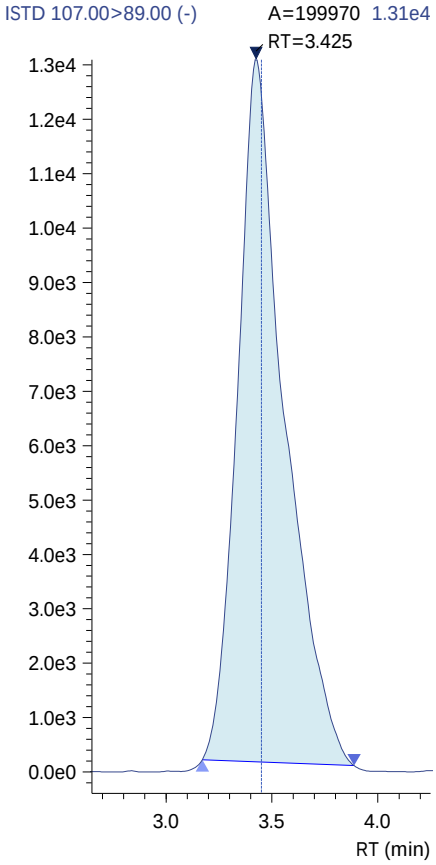
Perchlorate

Conc 0.1067
R#1 38.78 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

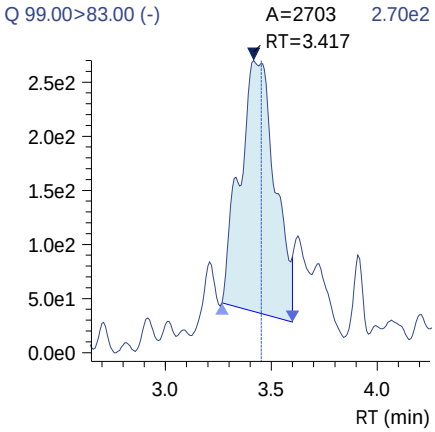
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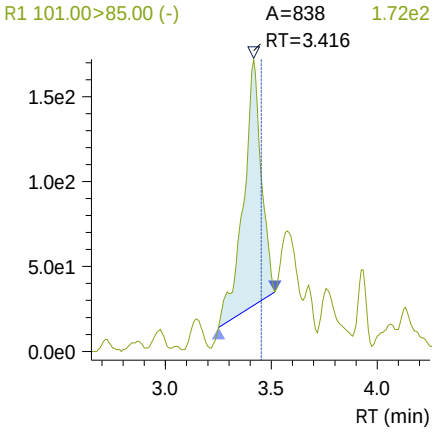
EQ2400375-04ICS

Sample ID: EQ2400375-04
Date Acquired: 7/5/2024 2:07:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

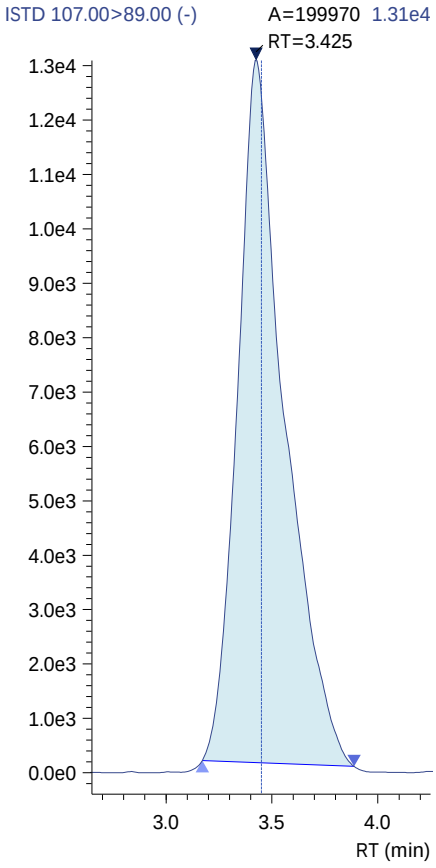
Conc 0.0926
R#1 31.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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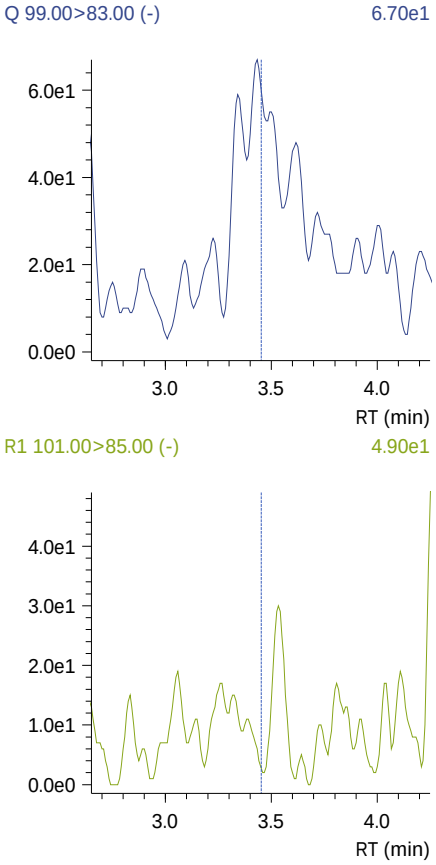
IB

Sample ID: IB
Date Acquired: 7/5/2024 2:14:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	203684	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.423	203684	203684	1.0000	ng/mL	----	----	

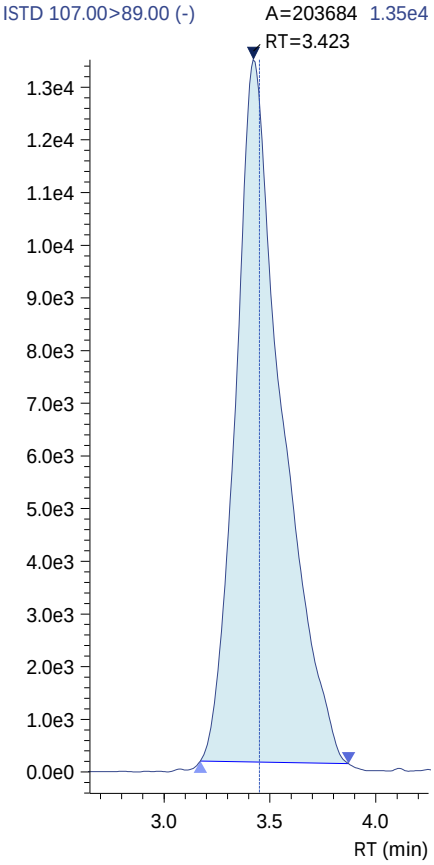
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

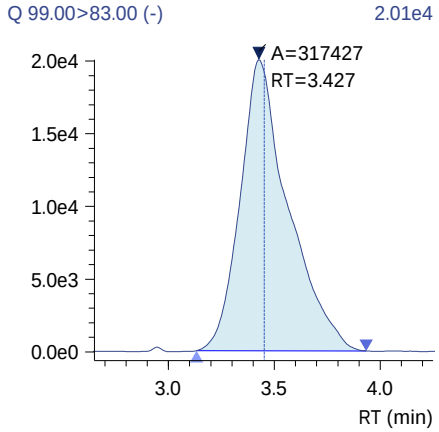
CCV

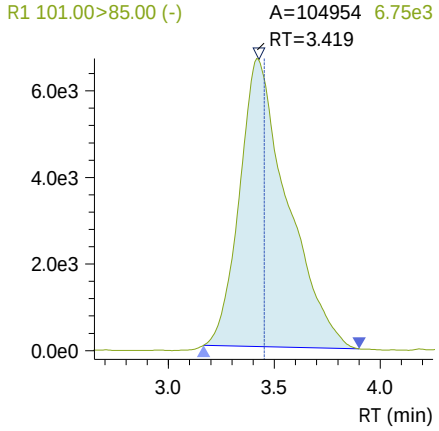
Sample ID: CCV
Date Acquired: 7/5/2024 2:19:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-014.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.427	317427	201802	10.7734	ng/mL	101.00 >85.00	33.06	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.430	201802	201802	1.0000	ng/mL	----	----	

Perchlorate

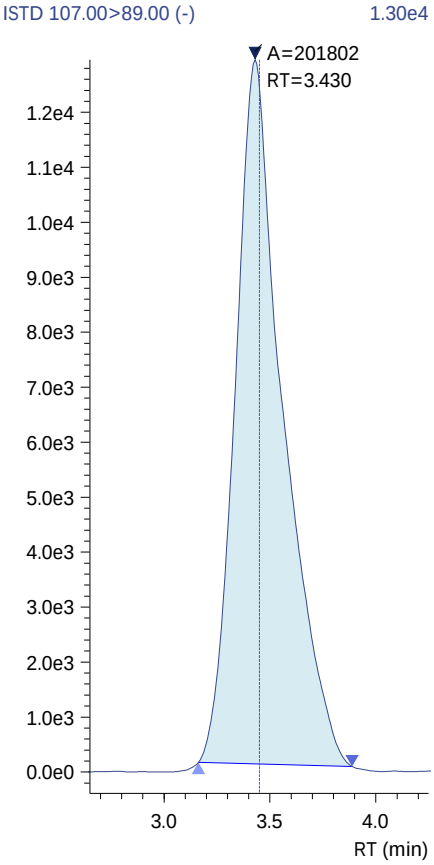
Conc 10.7734
R#1 33.06 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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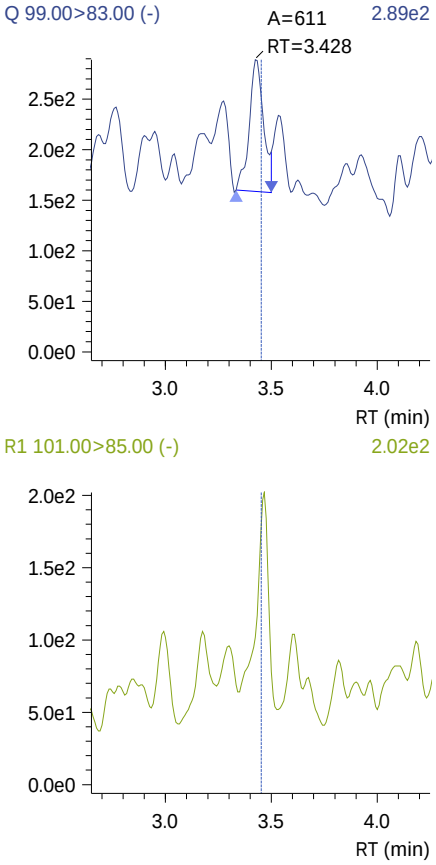
IB

Sample ID: IB
Date Acquired: 7/5/2024 3:20:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-025.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	207757	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.428	207757	207757	1.0000	ng/mL	----	----	

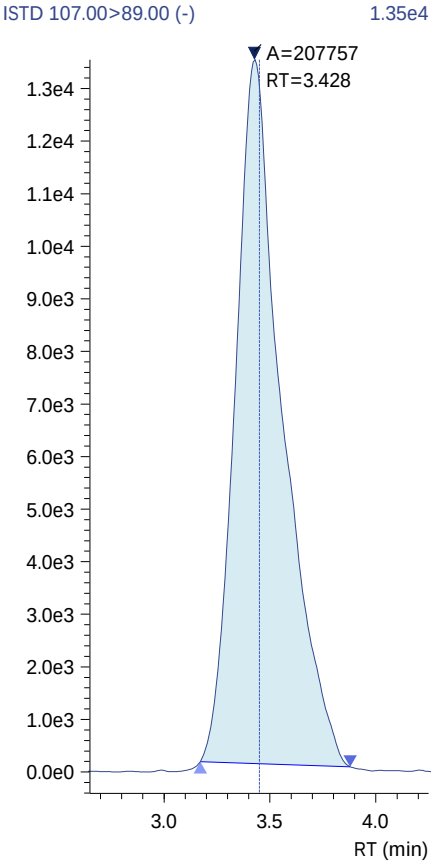
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

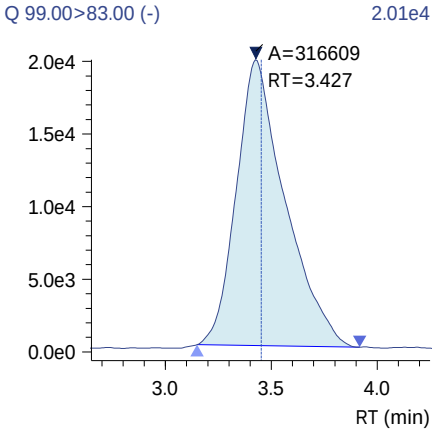
CCV

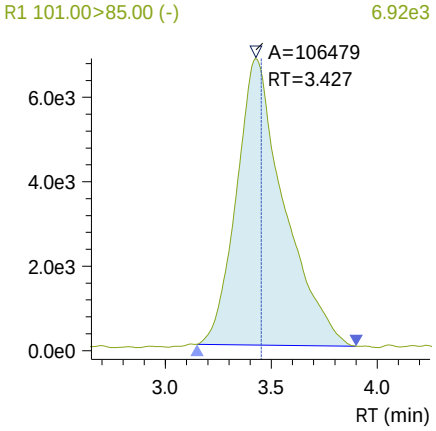
Sample ID: CCV
Date Acquired: 7/5/2024 4:32:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-038.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.427	316609	200200	10.8316	ng/mL	101.00 >85.00	33.63	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.423	200200	200200	1.0000	ng/mL	----	----	

Perchlorate

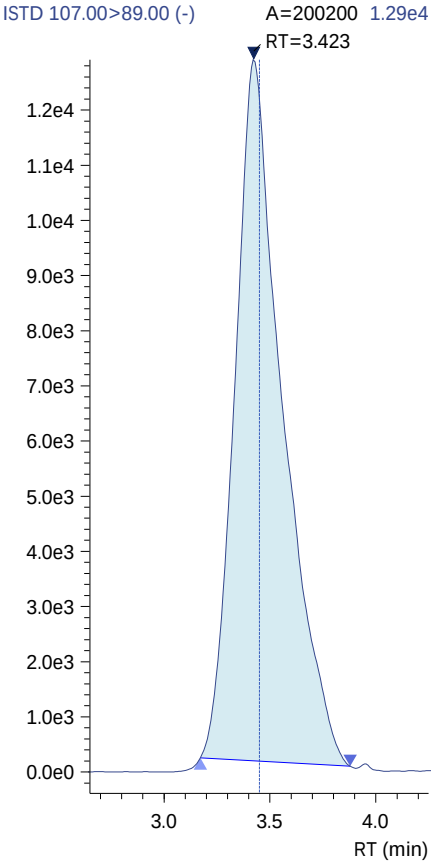
Conc 10.8316
R#1 33.63 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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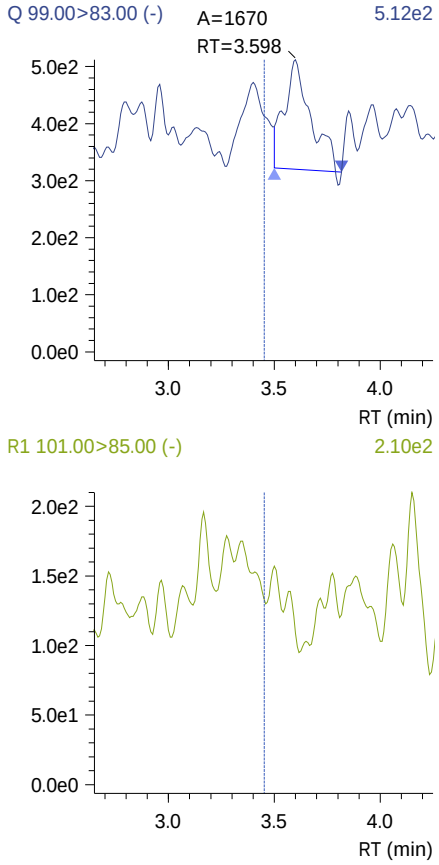
IB

Sample ID: IB
Date Acquired: 7/5/2024 5:33:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-049.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	198346	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.424	198346	198346	1.0000	ng/mL	----	----	

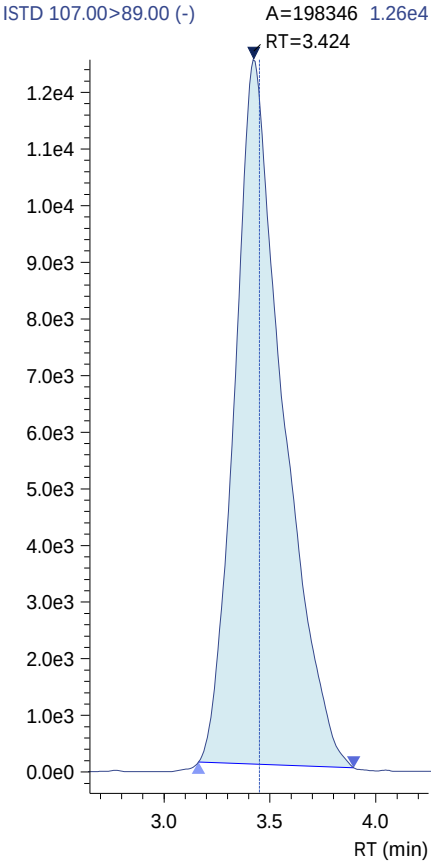
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

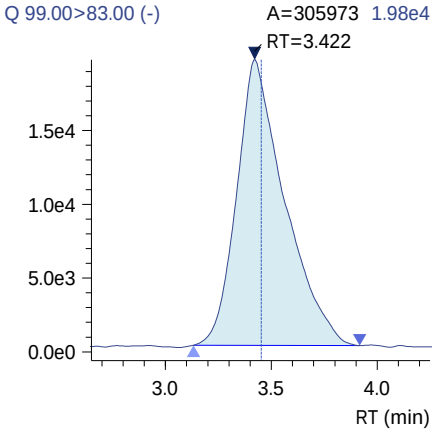
CCV

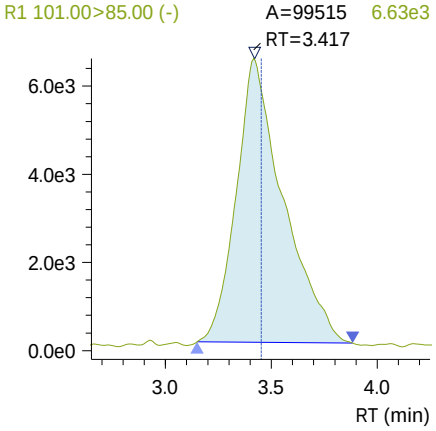
Sample ID: CCV
Date Acquired: 7/5/2024 5:39:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-050.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.422	305973	196021	10.6909	ng/mL	101.00 >85.00	32.52	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.424	196021	196021	1.0000	ng/mL	----	----	

Perchlorate

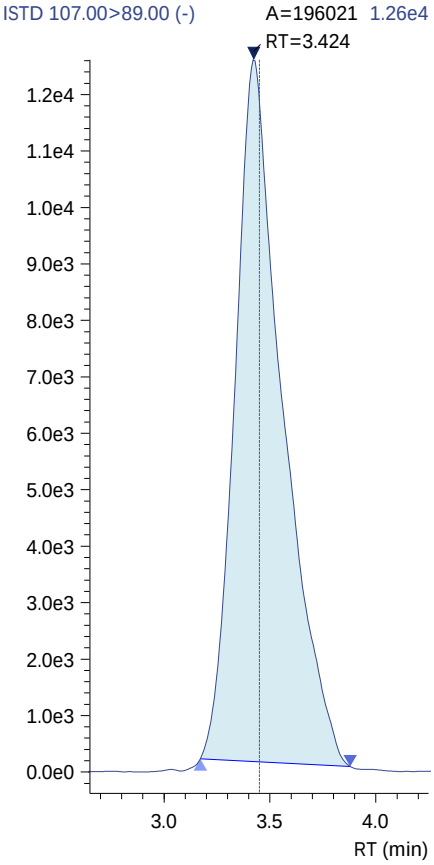
Conc 10.6909
R#1 32.52 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

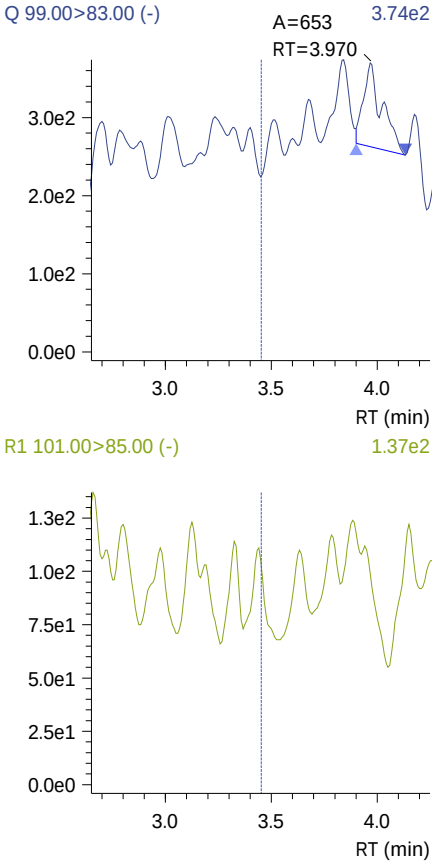
IB

Sample ID: IB
Date Acquired: 7/5/2024 4:27:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-037.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	201701	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate-18O4_IS	Auto	3.420	201701	201701	1.0000	ng/mL	----	----	

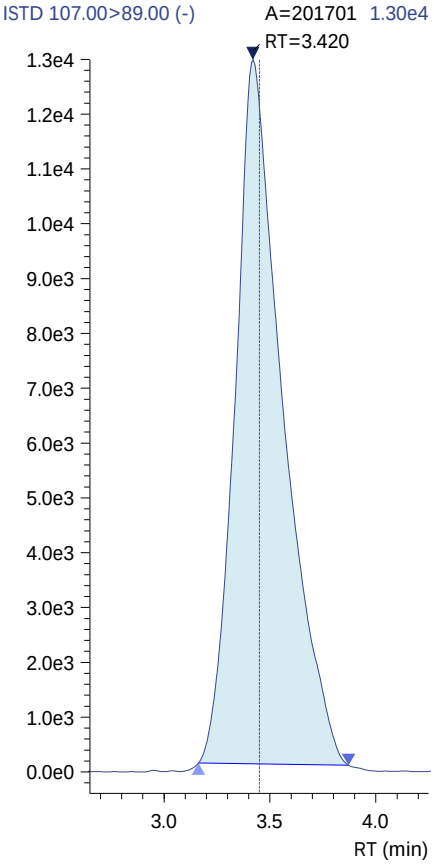
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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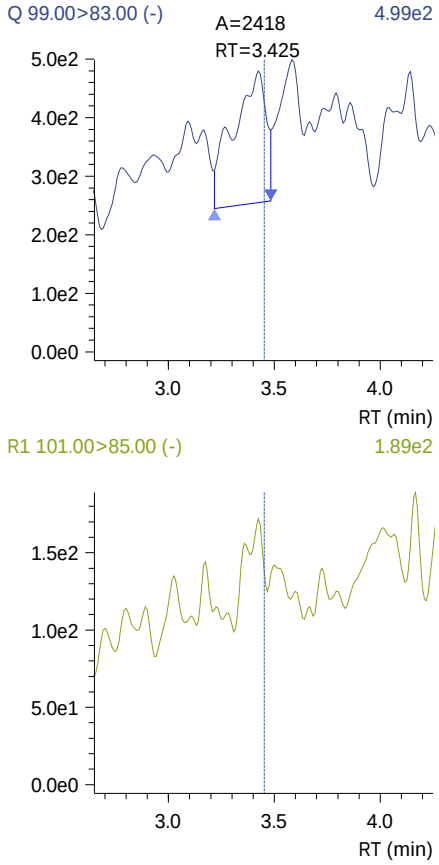
E2400735-001

Sample ID: E2400735-001
Date Acquired: 7/5/2024 5:28:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-048.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	NI	----	----	198204	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.420	198204	198204	1.0000	ng/mL	----	----	

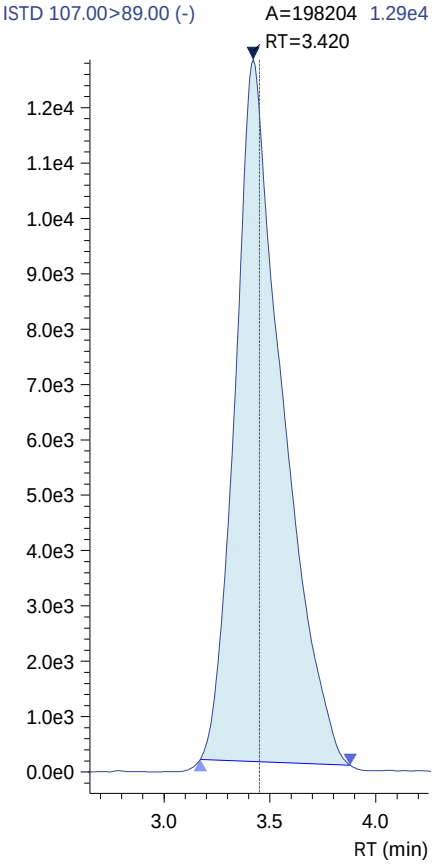
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

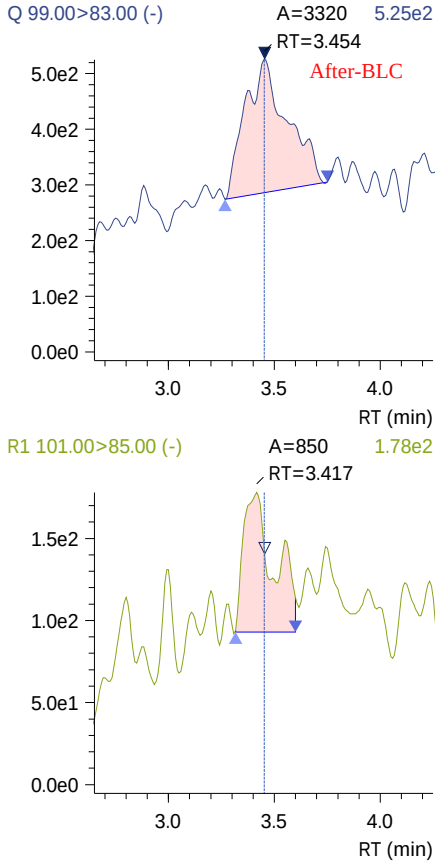
EQ2400375-05MS

Sample ID: EQ2400375-05MS
Date Acquired: 7/5/2024 5:56:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-053.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	MI	3.454	3320	197070	0.1154	ng/mL	101.00 >85.00	25.59	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.423	197070	197070	1.0000	ng/mL	----	----	

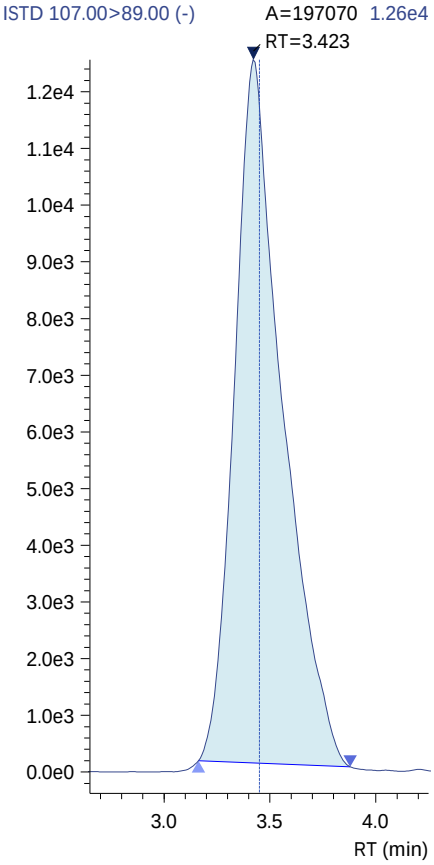
Perchlorate

Conc 0.1154
R#1 25.59 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

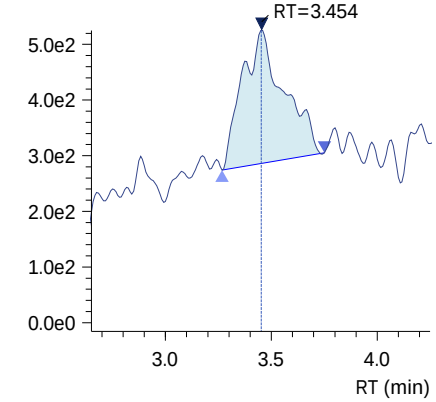
EQ2400375-05MS

Sample ID: EQ2400375-05MS
Date Acquired: 7/5/2024 5:56:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-053.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 4

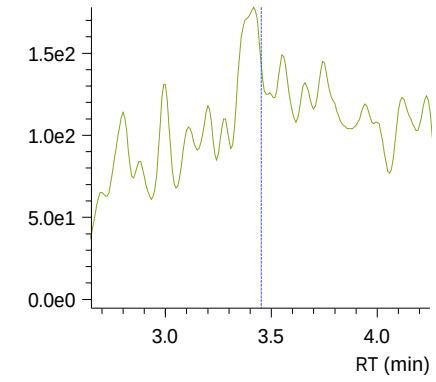
Perchlorate

Conc 0.1154
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=3320 5.25e2 RT=3.454



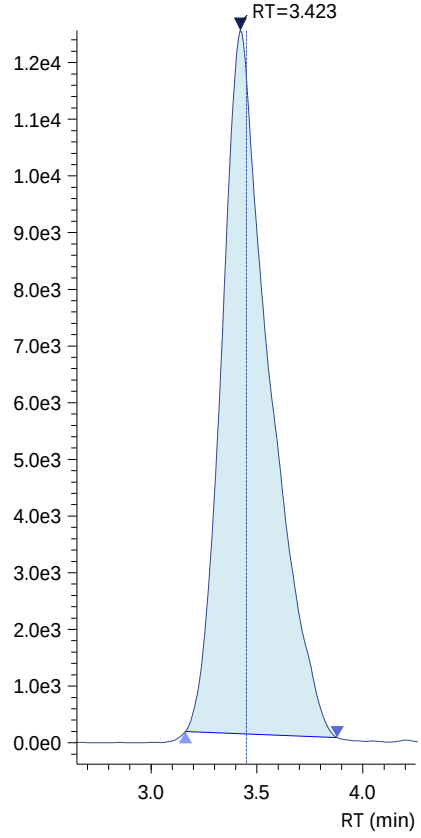
R1 101.00>85.00 (-) 1.78e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=197070 1.26e4 RT=3.423



Insight Report

Printed at 7/11/2024 11:39:02 AM

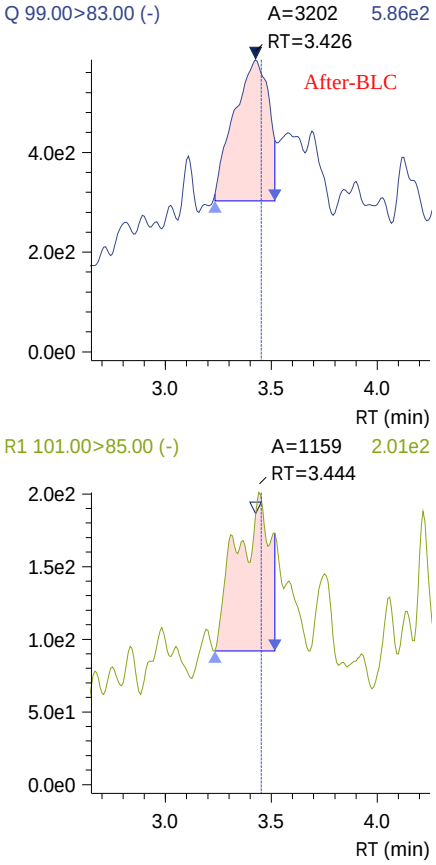
EQ2400375-06DMS

Sample ID: EQ2400375-06DMS
Date Acquired: 7/5/2024 6:01:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-054.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	M	3.426	3202	197280	0.1112	ng/mL	101.00 >85.00	36.19	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.426	197280	197280	1.0000	ng/mL	----	----	

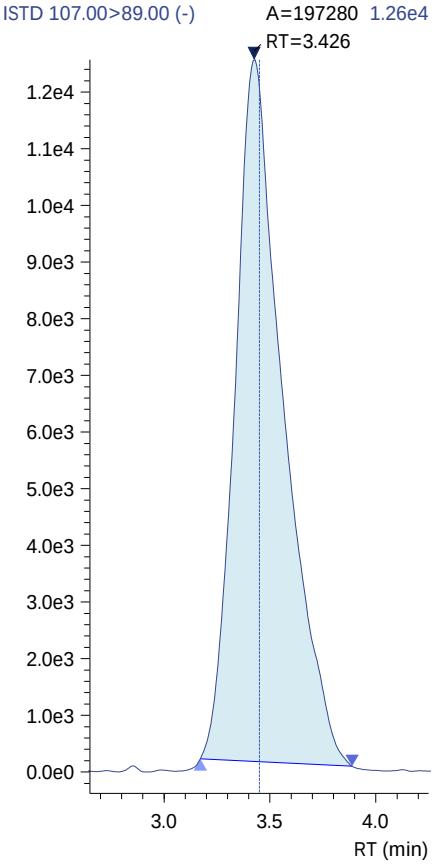
Perchlorate

Conc 0.1112
R#1 36.19 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:40:38 AM

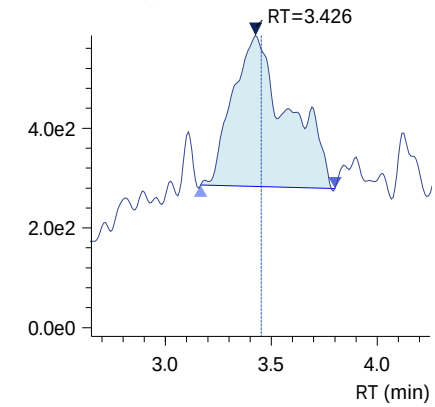
EQ2400375-06DMS

Sample ID: EQ2400375-06DMS
Date Acquired: 7/5/2024 6:01:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-054.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 4

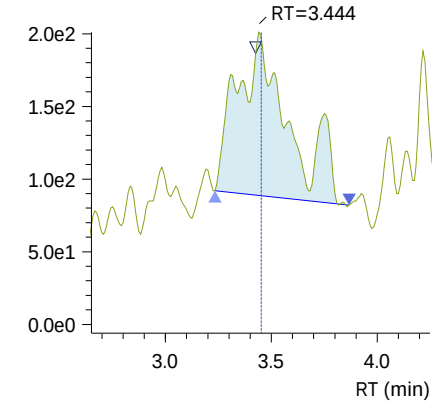
Perchlorate

Conc 0.1926
R#1 34.18 (35.24)

Q 99.00>83.00 (-) A=5549 5.86e2



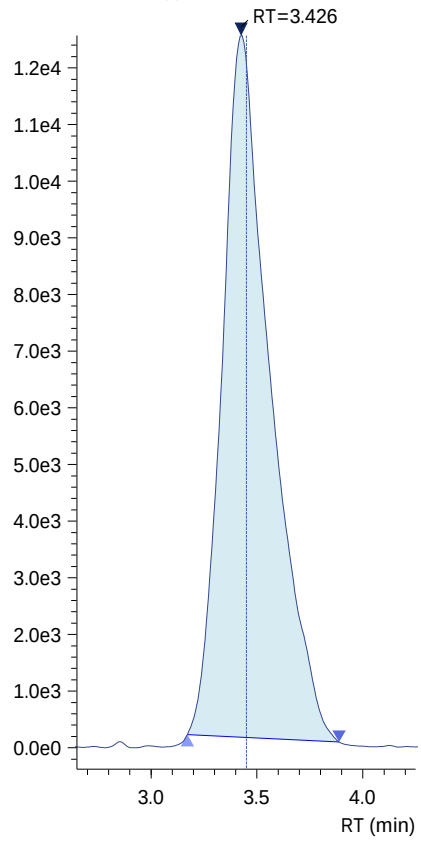
R1 101.00>85.00 (-) A=1897 2.01e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=197280 1.26e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

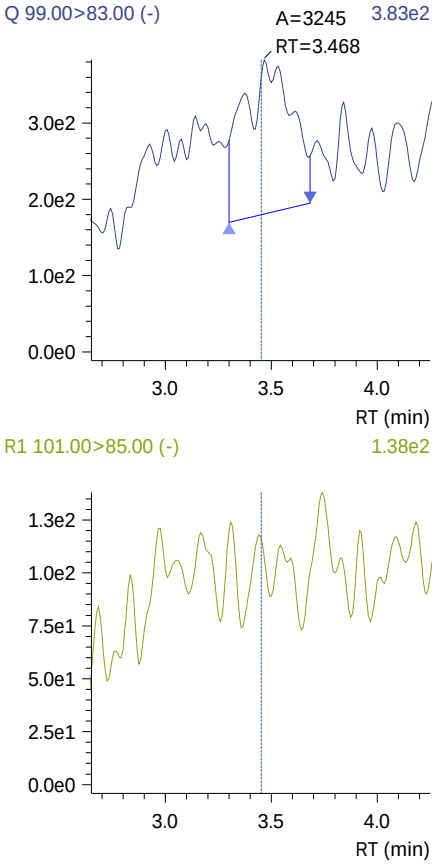
E2400735-002

Sample ID: E2400735-002
Date Acquired: 7/5/2024 6:07:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-055.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	NI	----	----	196177	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.420	196177	196177	1.0000	ng/mL	----	----	

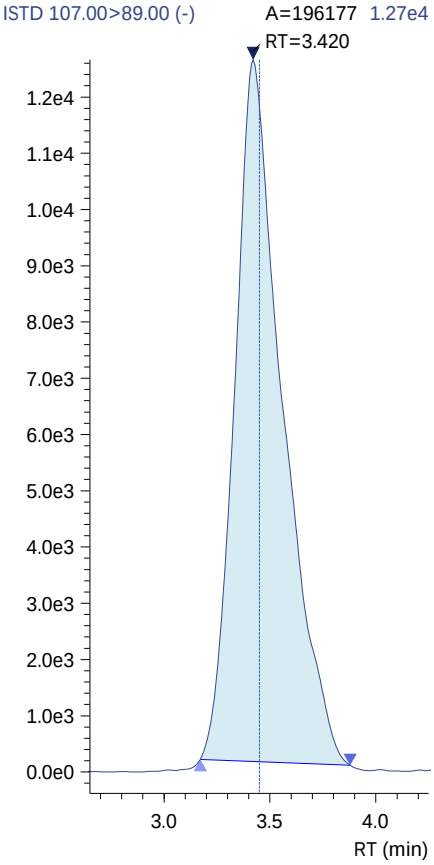
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

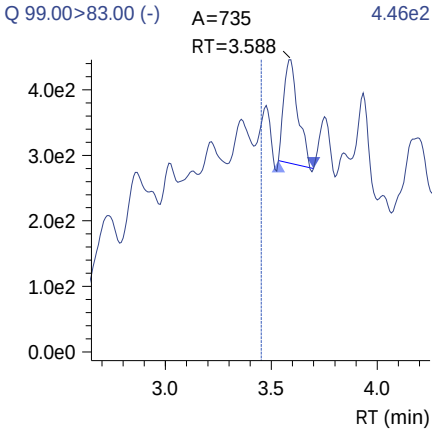
E2400735-003

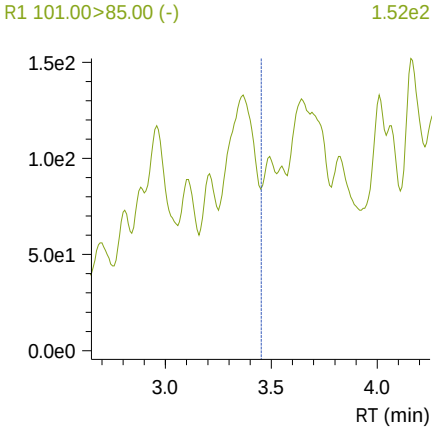
Sample ID: E2400735-003
Date Acquired: 7/5/2024 6:12:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-056.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	219078	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.429	219078	219078	1.0000	ng/mL	----	----	

Perchlorate

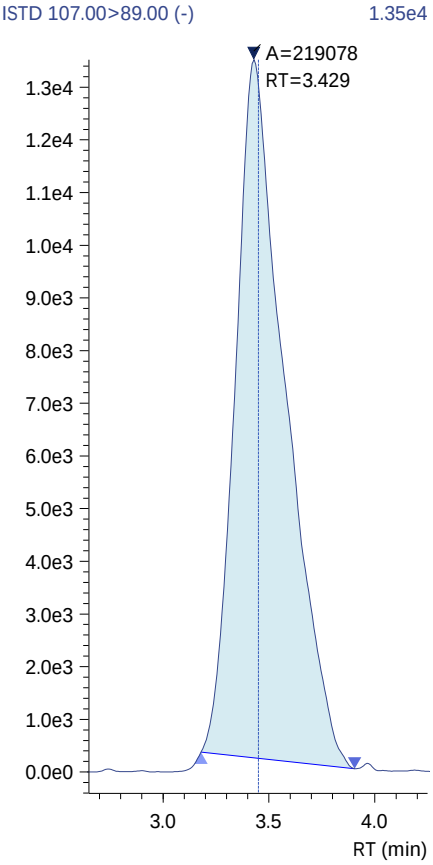
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

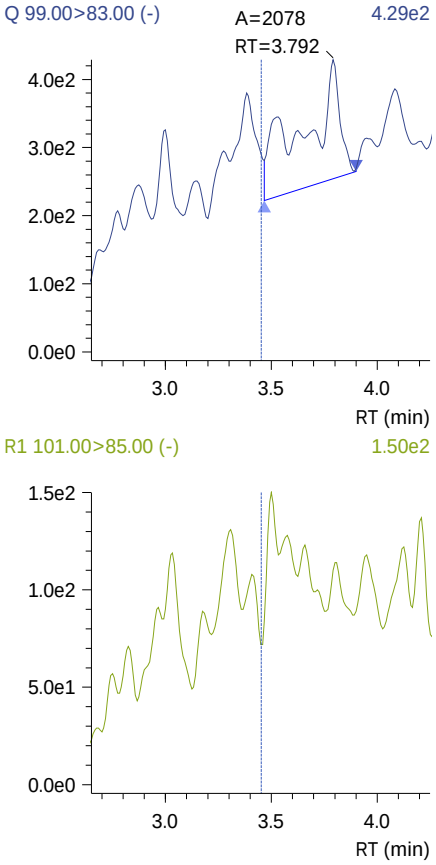
E2400735-005

Sample ID: E2400735-005
Date Acquired: 7/5/2024 6:23:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-058.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	NI	----	----	204596	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.423	204596	204596	1.0000	ng/mL	----	----	

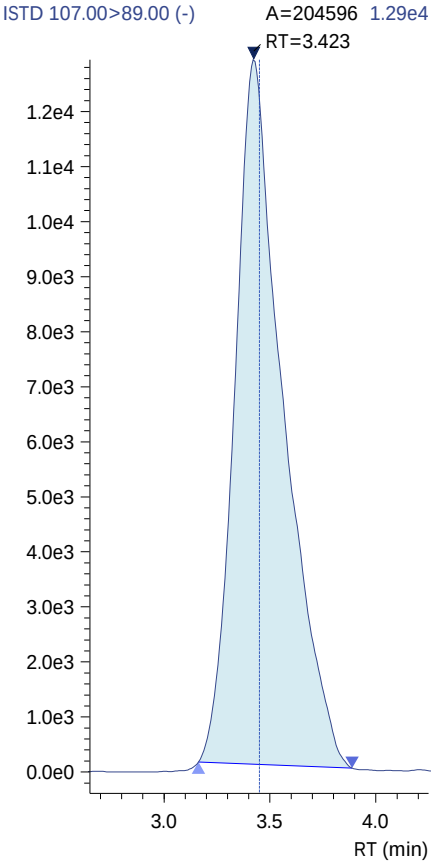
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

E2400735-006

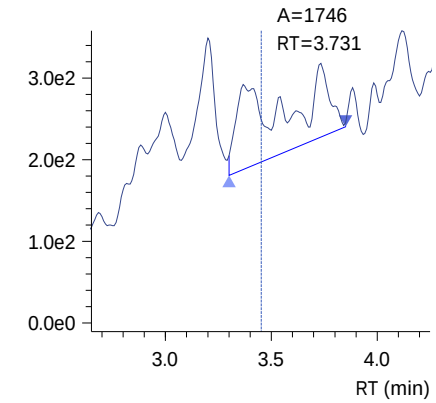
Sample ID: E2400735-006
Date Acquired: 7/5/2024 6:29:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-059.lcd
Vial: 17 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	212039	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.423	212039	212039	1.0000	ng/mL	----	----	

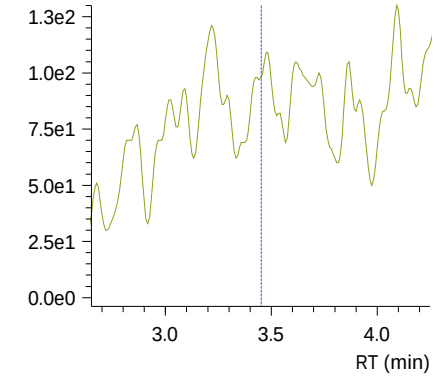
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 3.58e2



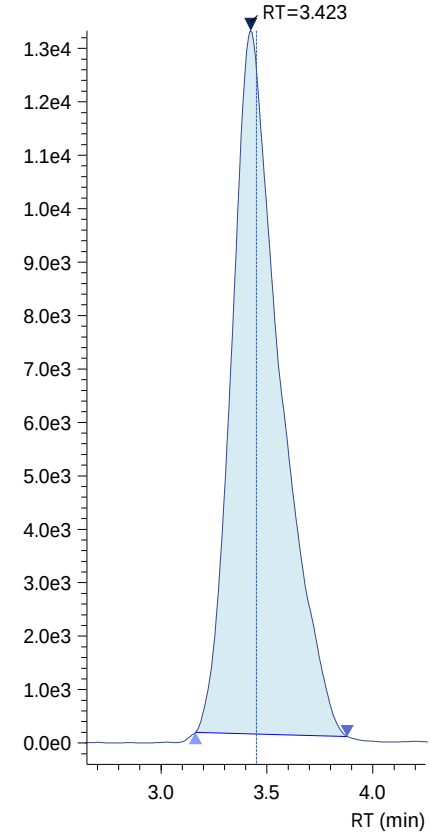
R1 101.00>85.00 (-) 1.30e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=212039 1.33e4



Insight Report

Printed at 7/11/2024 11:39:02 AM

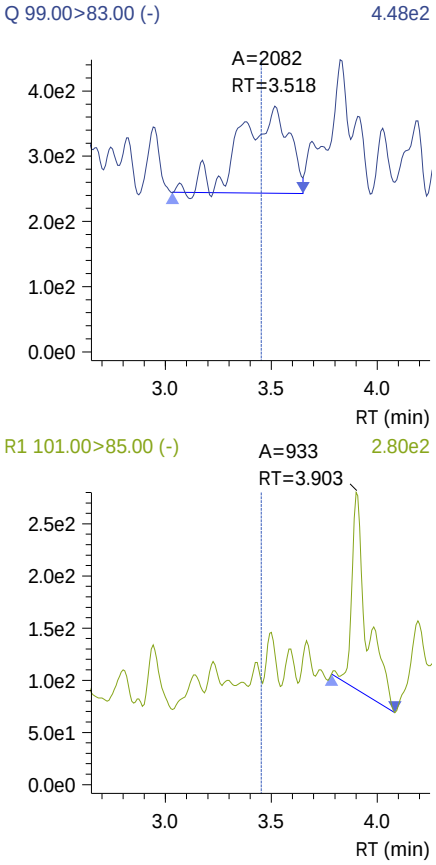
IB

Sample ID: IB
Date Acquired: 7/5/2024 6:40:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-061.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	203195	----	ng/mL	101.00 >85.00	0.00	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.422	203195	203195	1.0000	ng/mL	----	----	

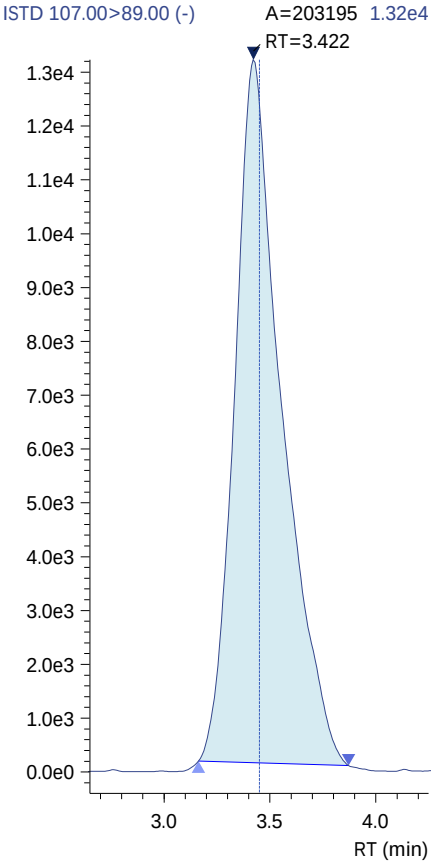
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:39:02 AM

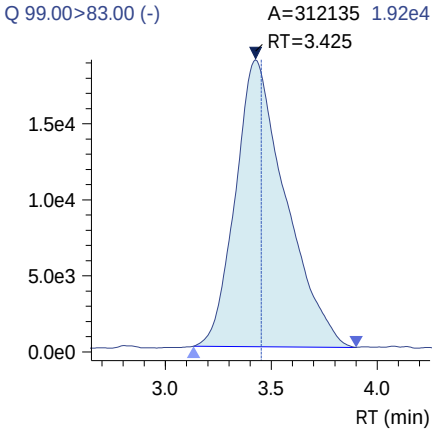
CCV

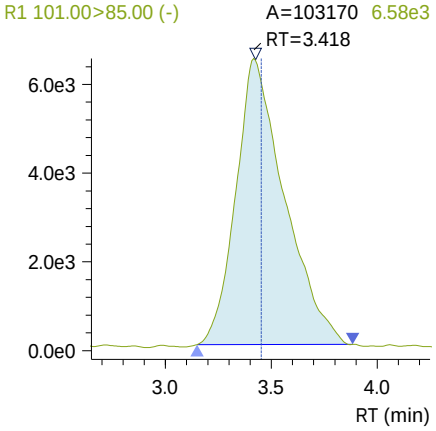
Sample ID: CCV
Date Acquired: 7/5/2024 6:45:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240705\20240705-062.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.425	312135	198372	10.7769	ng/mL	101.00 >85.00	33.05	23.32 -42.91
Sodium Perchlorate -18O4_IS	Auto	3.421	198372	198372	1.0000	ng/mL	----	----	

Perchlorate

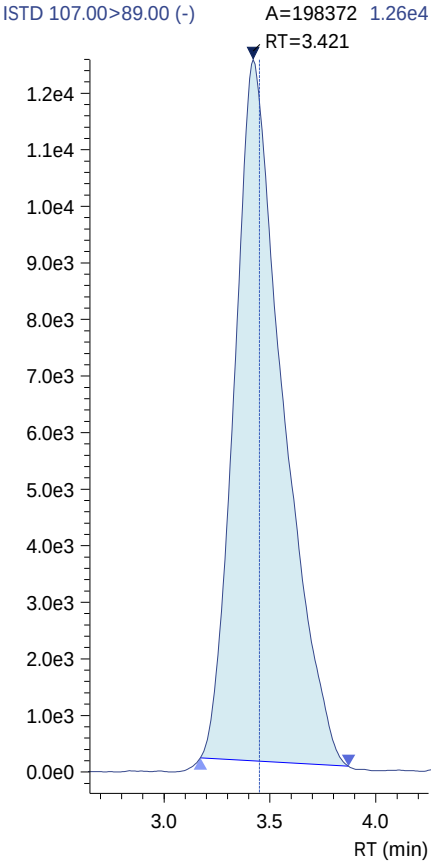
Conc 10.7769
R#1 33.05 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/11/2024 11:51:12 AM

Method File: I:\LCMS01\DATA\20240710\20240710.lcm
Project File: I:\LCMS01\DATA\20240710\20240710.damlp

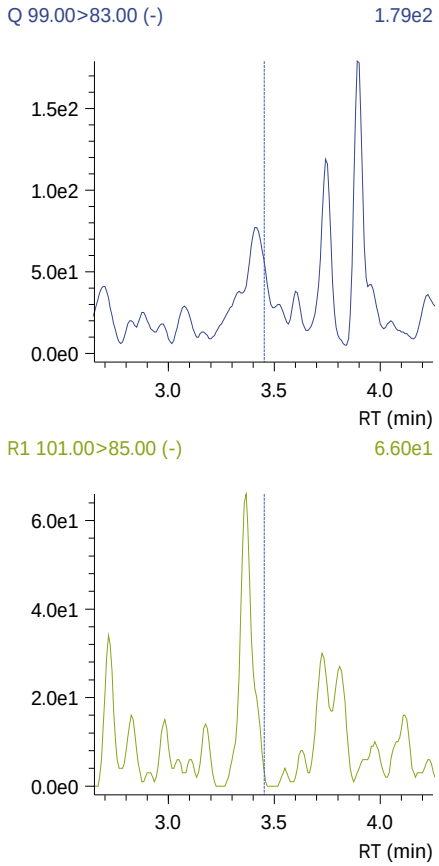
IB

Sample ID: IB
Date Acquired: 7/10/2024 1:34:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	149115	----	ng/mL	101.00 >85.00	0.00	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.409	149115	149115	1.0000	ng/mL	----	----	

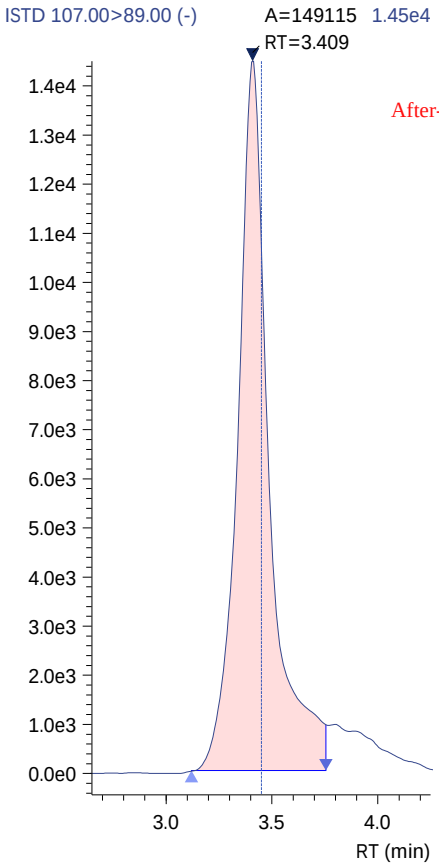
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 7/11/2024 11:51:53 AM

Method File: I:\LCMS01\DATA\20240710\20240710.lcm
Project File: I:\LCMS01\DATA\20240710\20240710.damlp

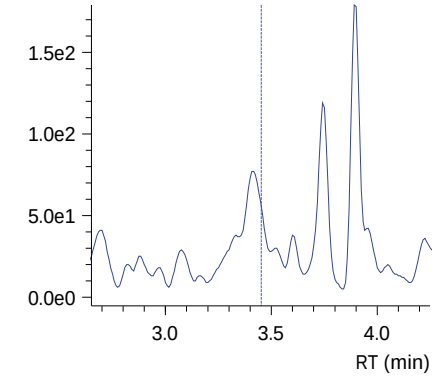
IB

Sample ID: IB
Date Acquired: 7/10/2024 1:34:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

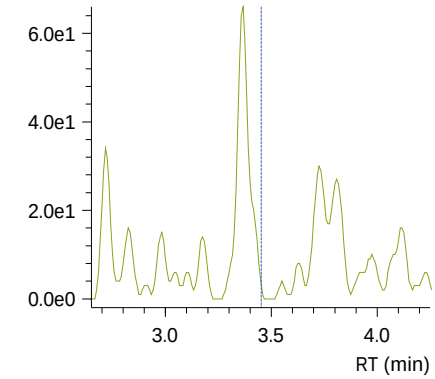
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.79e2



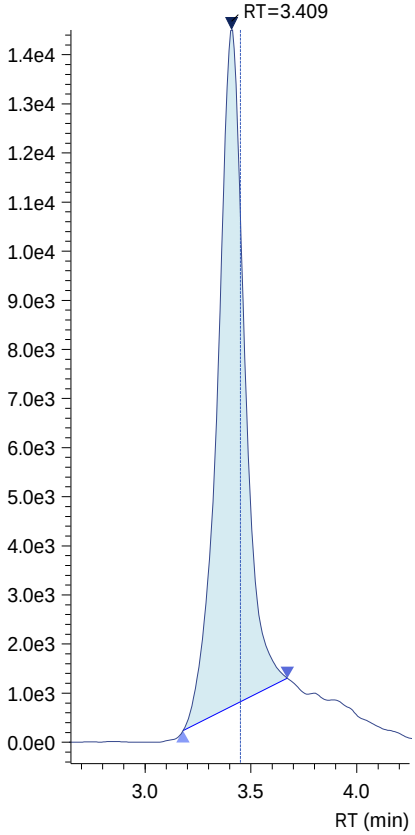
R1 101.00>85.00 (-) 6.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=122602 1.45e4
RT=3.409



Insight Report

Printed at 7/11/2024 11:51:12 AM

ICS

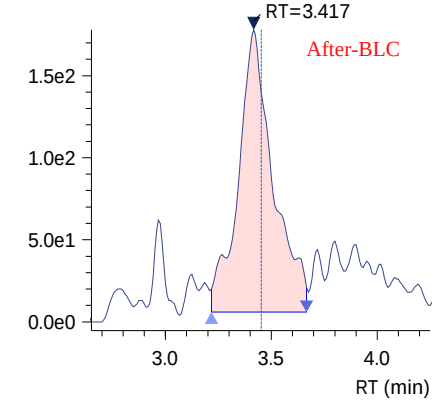
Sample ID: ICS
Date Acquired: 7/10/2024 1:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-002.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.417	1962	153744	0.0874	ng/mL	101.00 >85.00	34.08	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.406	1537 44	153744	1.0000	ng/mL	----	----	

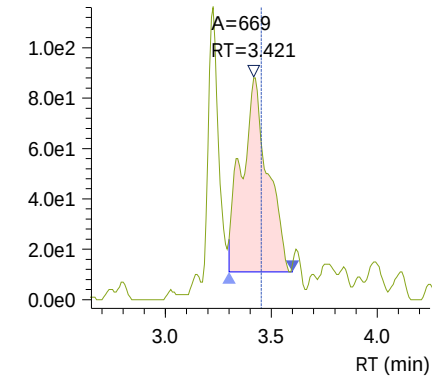
Perchlorate

Conc 0.0874
R#1 34.08 (35.24)

Q 99.00>83.00 (-) A=1962 1.78e2
RT=3.417
After-BLC



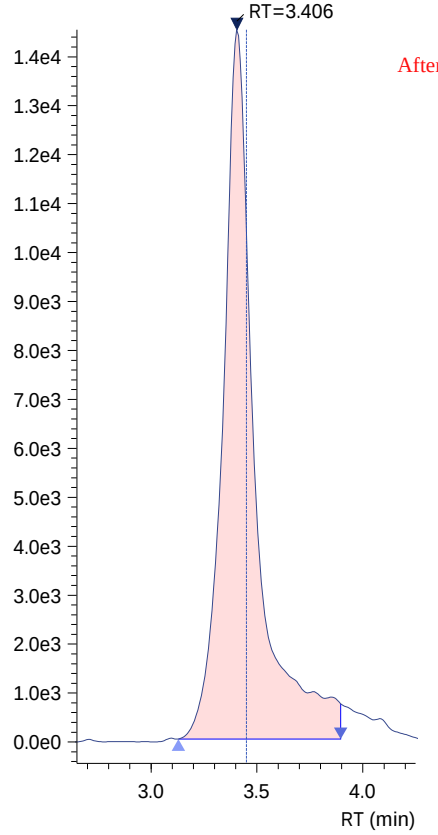
R1 101.00>85.00 (-) 1.16e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=153744 1.46e4
RT=3.406
After-BLC



Insight Report

Printed at 7/11/2024 11:51:53 AM

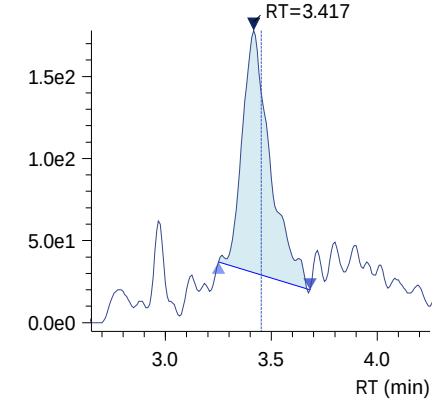
ICS

Sample ID: ICS
Date Acquired: 7/10/2024 1:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-002.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

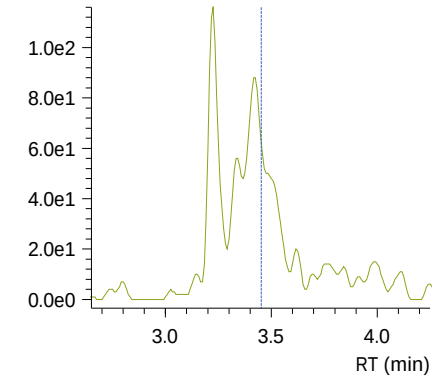
Perchlorate

Conc 0.0778
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1346 1.78e2 RT=3.417



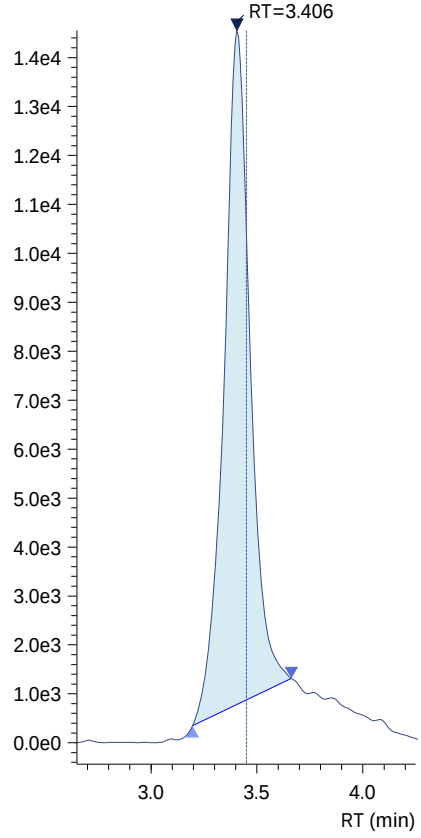
R1 101.00>85.00 (-) 1.16e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=118460 1.46e4 RT=3.406



Insight Report

Printed at 7/11/2024 11:51:12 AM

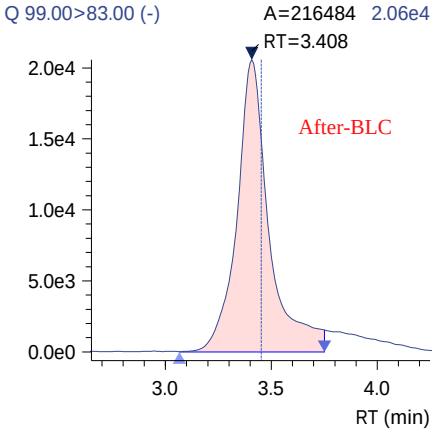
CCV

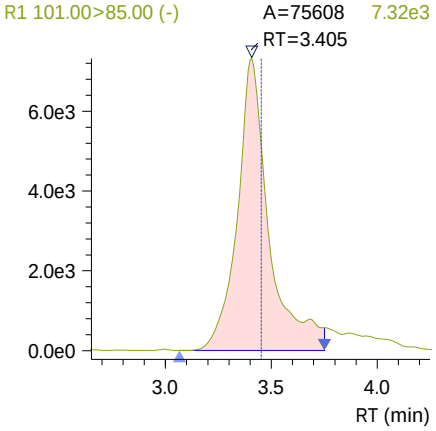
Sample ID: CCV
Date Acquired: 7/10/2024 1:45:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-003.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.408	216484	152163	9.7443	ng/mL	101.00 >85.00	34.92	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.403	152163	152163	1.0000	ng/mL	----	----	

Perchlorate

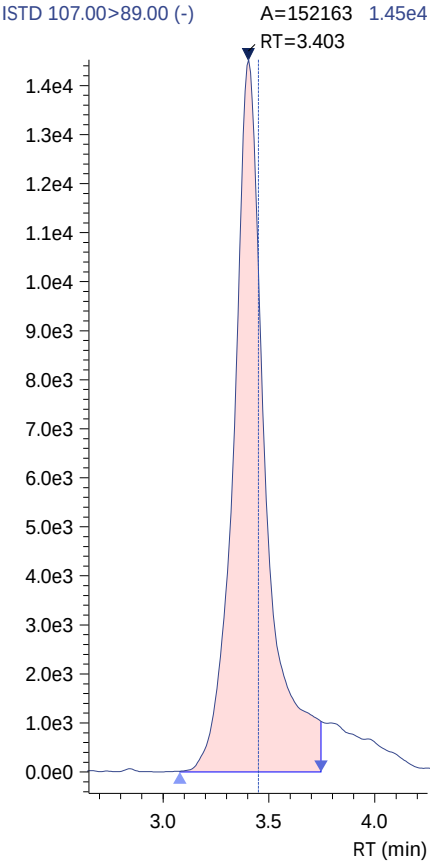
Conc 9.7443
R#1 34.92 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

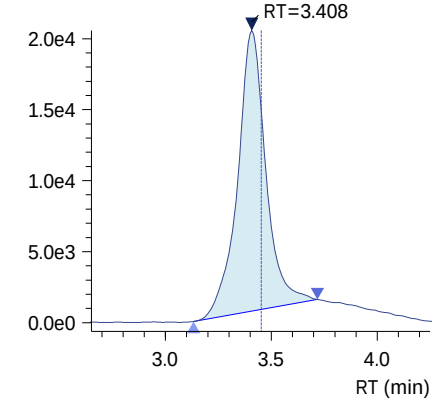
CCV

Sample ID: CCV
Date Acquired: 7/10/2024 1:45:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-003.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

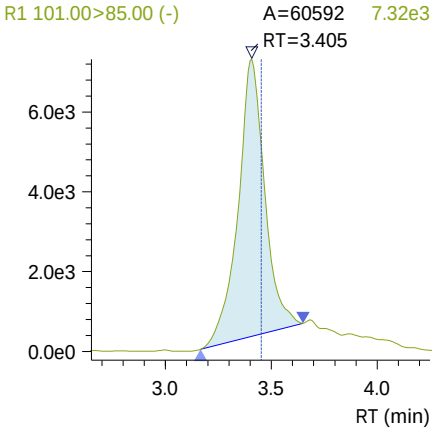
Perchlorate

Conc 10.1836
R#1 33.07 (35.24)

Q 99.00>83.00 (-) A=183225 2.06e4



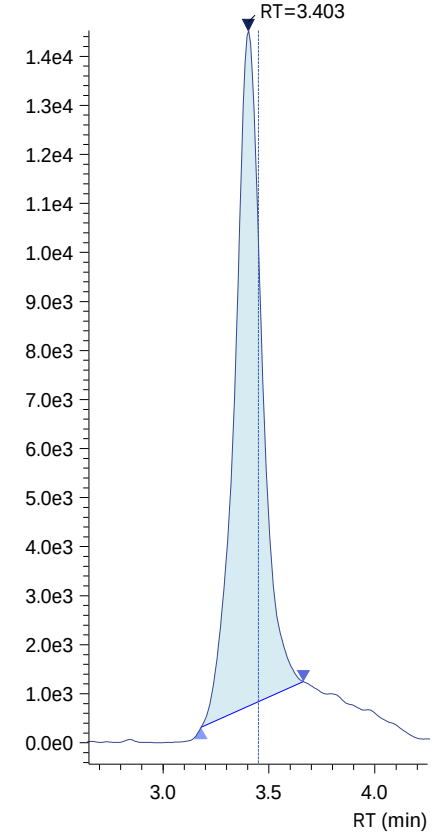
R1 101.00>85.00 (-) A=60592 7.32e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=123230 1.45e4



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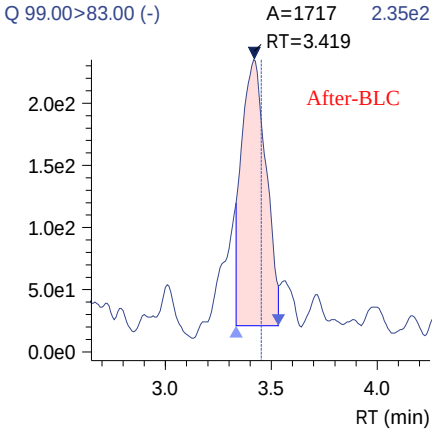
LODV

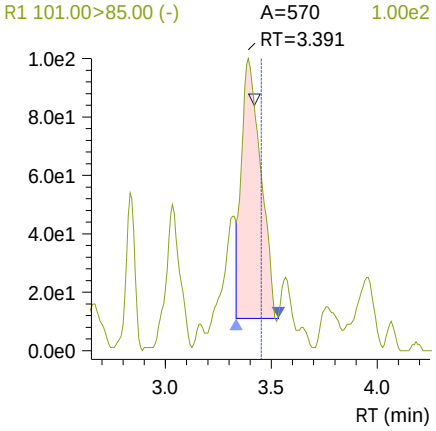
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.419	1717	198887	0.0591	ng/mL	101.00 >85.00	33.16	24.17 -44.88
Sodium Perchlorate-18O4 _IS	M	3.404	1988 87	198887	1.0000	ng/mL	----	----	

Perchlorate

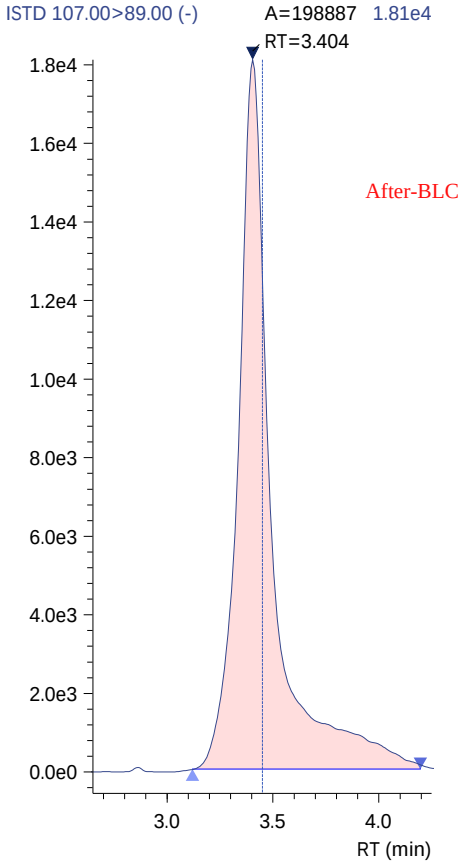
Conc 0.0591
R#1 33.16 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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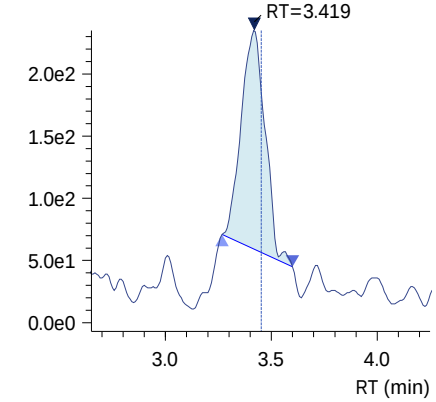
LODV

Sample ID: LODV
Date Acquired: 7/10/2024 1:50:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

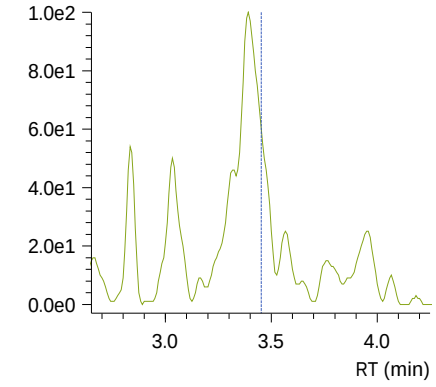
Perchlorate

Conc 0.0609
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1376 2.35e2 RT=3.419



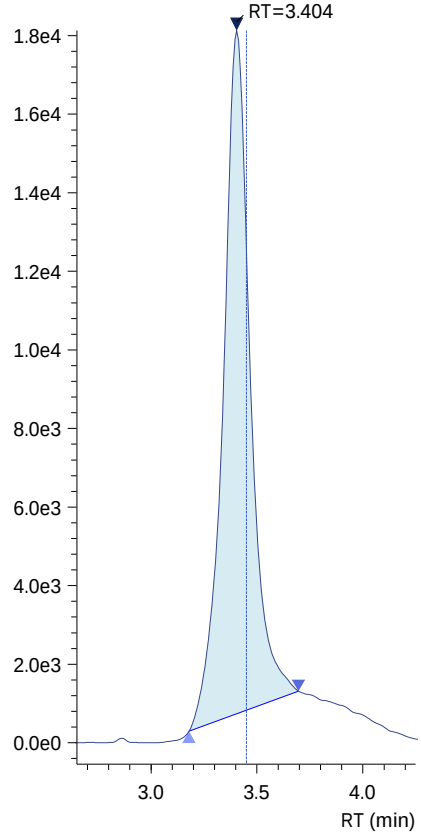
R1 101.00>85.00 (-) 1.00e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=154812 1.81e4 RT=3.404



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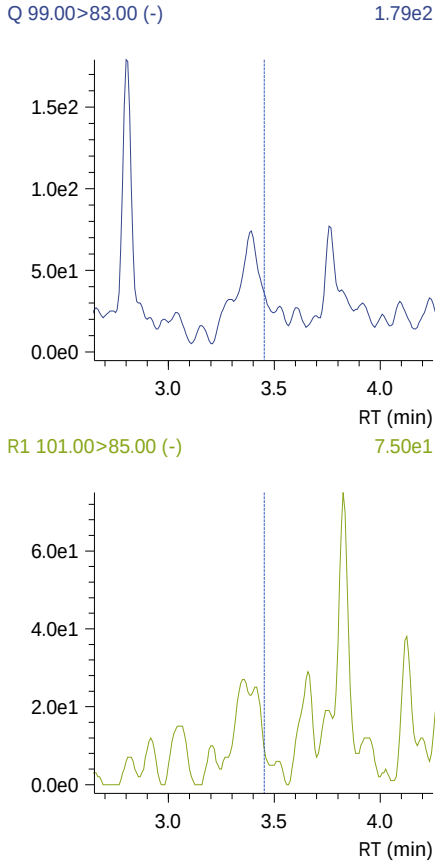
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	168115	----	ng/mL	101.00 >85.00	0.00	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.404	168115	168115	1.0000	ng/mL	----	----	

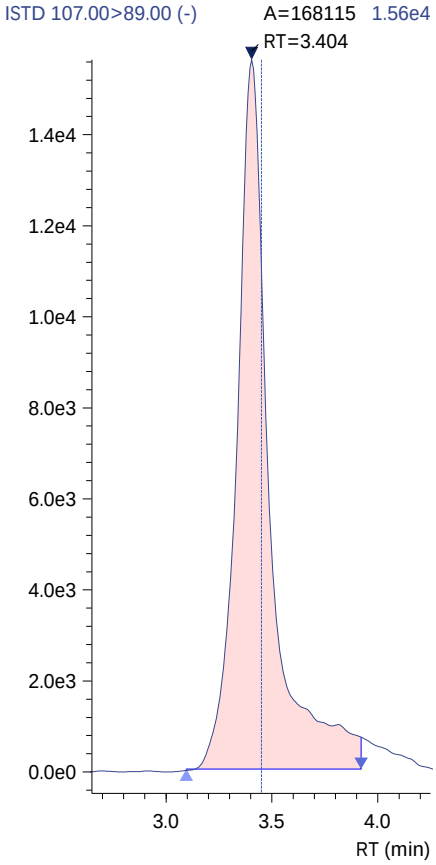
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

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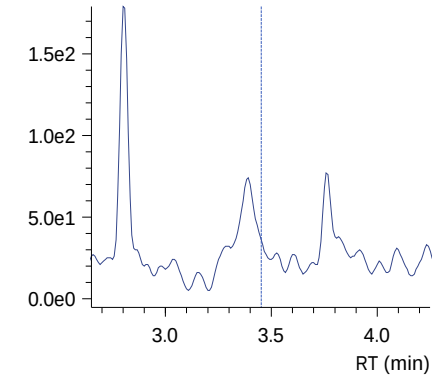
IB

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Acquired by: System Administrator
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Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

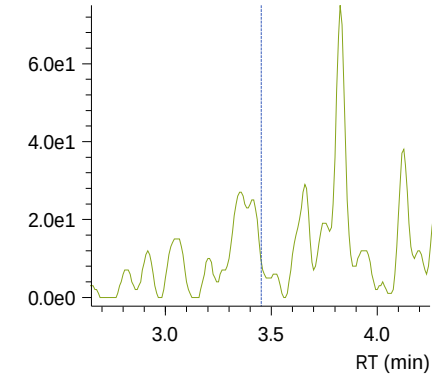
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.79e2



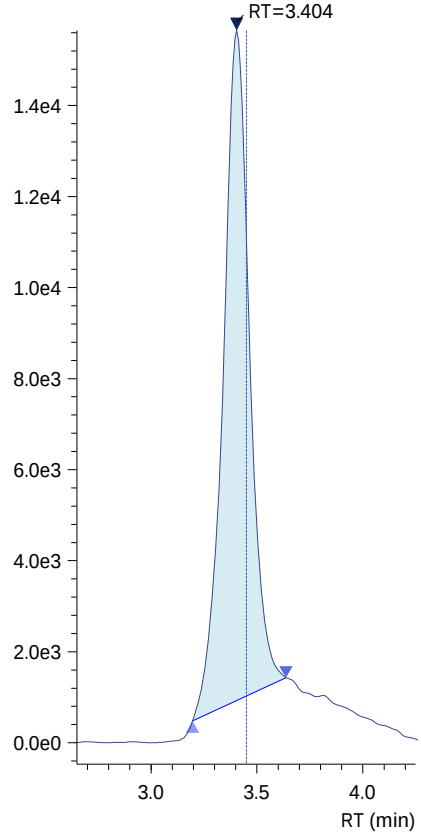
R1 101.00>85.00 (-) 7.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=127252 1.56e4
RT=3.404



Insight Report

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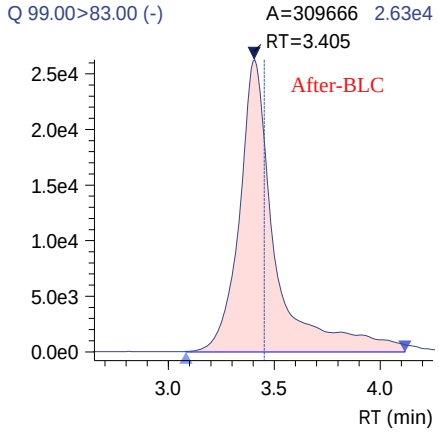
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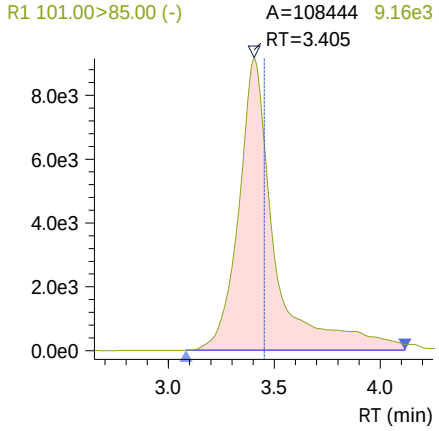
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Date Acquired: 7/10/2024 3:00:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-010.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.405	3096 66	157761	13.4 439	ng/mL	101.00 >85.00	35.02	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.404	1577 61	157761	1.0000	ng/mL	----	----	

Perchlorate

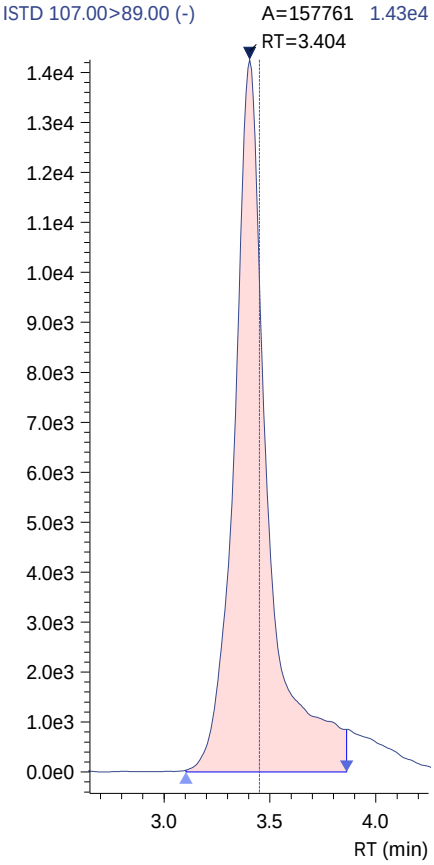
Conc 13.4439
R#1 35.02 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

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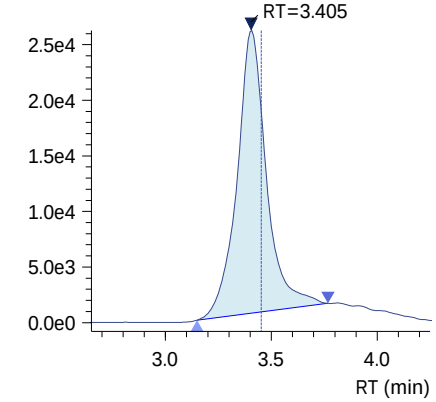
E2400735-004x100

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Date Acquired: 7/10/2024 3:00:22 PM
Acquired by: System Administrator
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Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

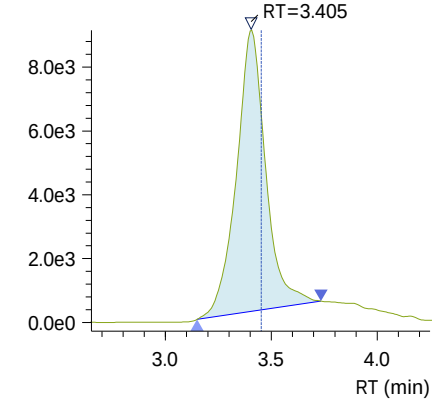
Perchlorate

Conc 13.4676
R#1 34.49 (35.24)

Q 99.00>83.00 (-) A=245423 2.63e4



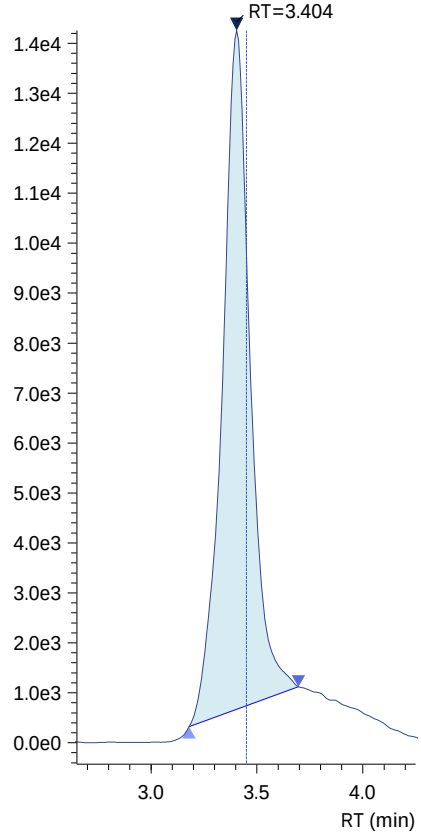
R1 101.00>85.00 (-) A=84634 9.16e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=124812 1.43e4



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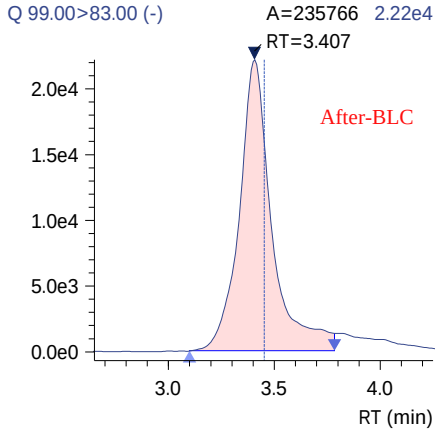
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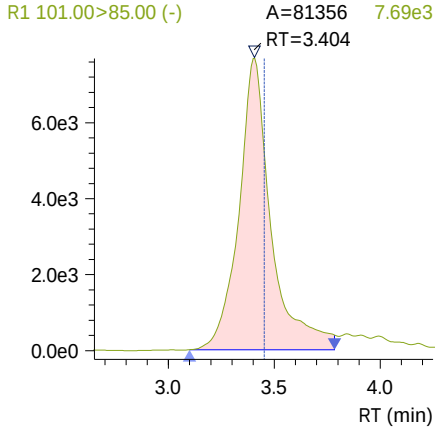
Sample ID: CCV
Date Acquired: 7/10/2024 3:33:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-016.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.407	235766	164410	9.8217	ng/mL	101.00 >85.00	34.51	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.405	164410	164410	1.0000	ng/mL	----	----	

Perchlorate

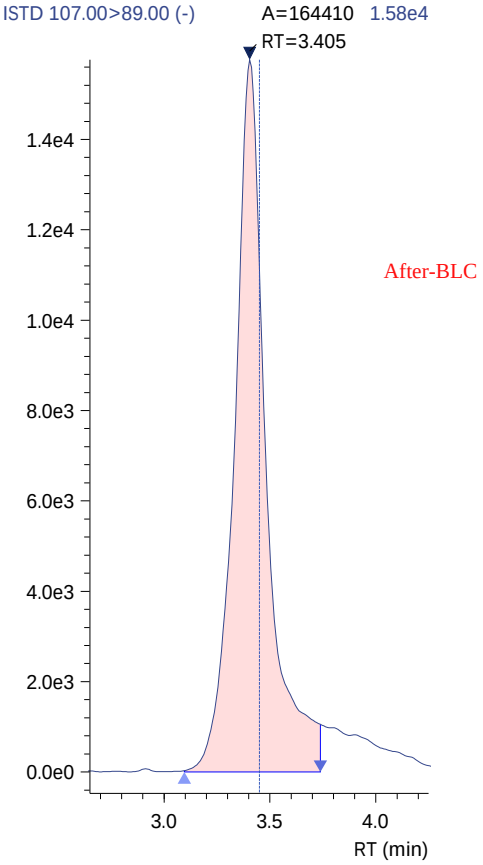
Conc 9.8217
R#1 34.51 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

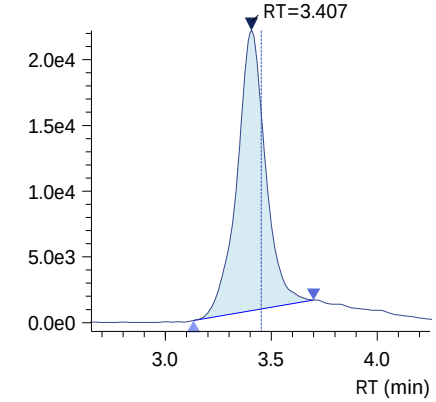
CCV

Sample ID: CCV
Date Acquired: 7/10/2024 3:33:44 PM
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Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

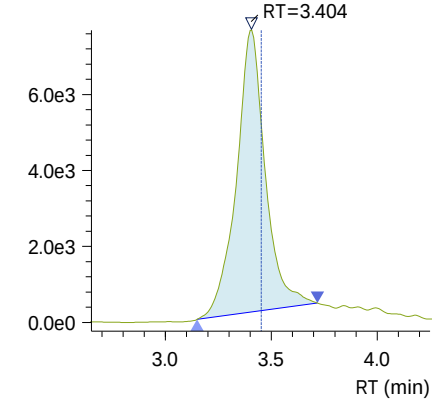
Perchlorate

Conc 10.0877
R#1 35.21 (35.24)

Q 99.00>83.00 (-) A=199416 2.22e4



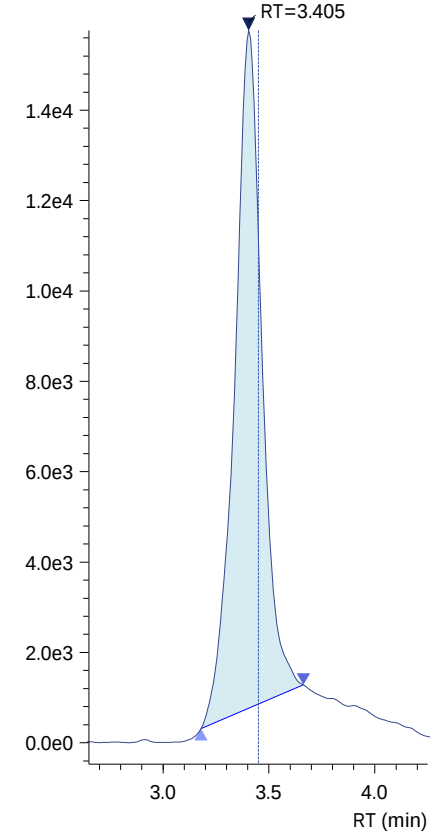
R1 101.00>85.00 (-) A=70219 7.69e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

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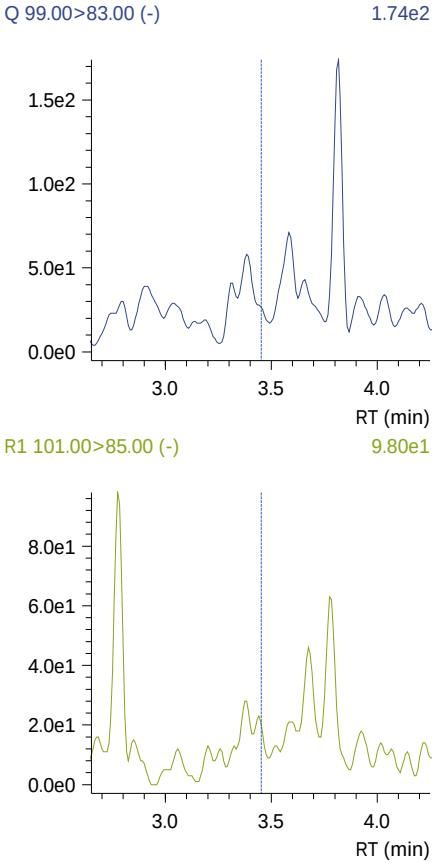
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Sample ID: IB
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Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240710\20240710-017.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	169849	----	ng/mL	101.00 >85.00	0.00	24.17 -44.88
Sodium Perchlorate-18O4_IS	M	3.404	169849	169849	1.0000	ng/mL	----	----	

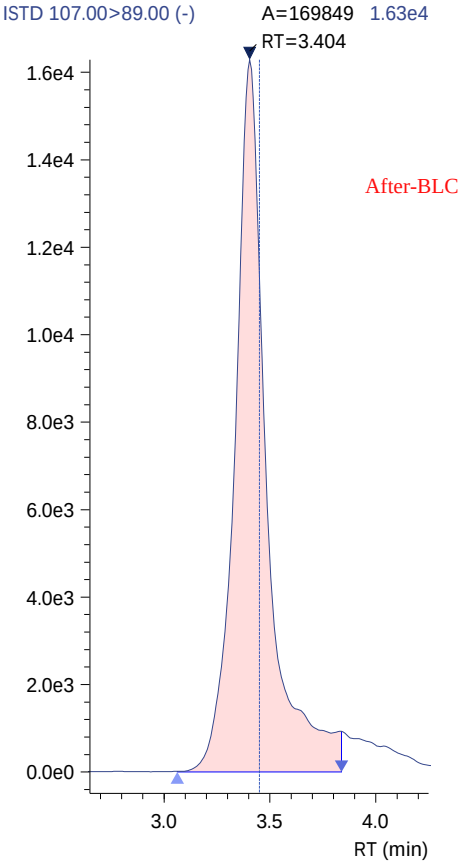
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

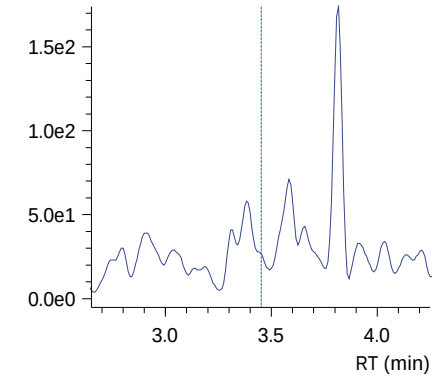
IB

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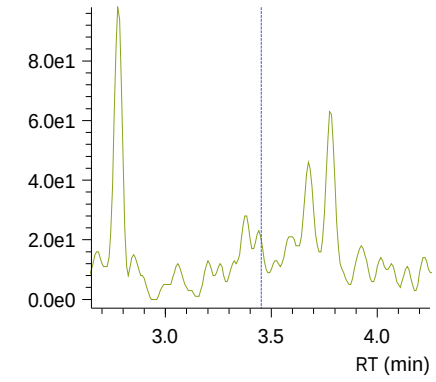
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.74e2



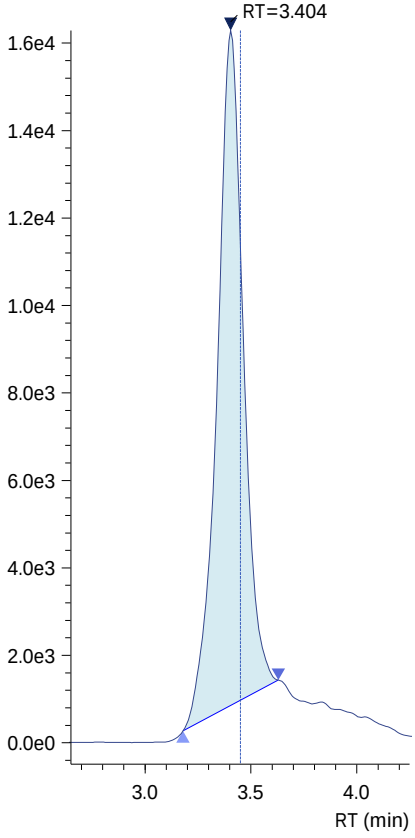
R1 101.00>85.00 (-) 9.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=133107 1.63e4
RT=3.404



HS24061313 Middletown's 8260 Level IV

ALS WO# HS24061313

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project AHH138|HS24061313
Workorder 3366030
Report ID 336027 on 7/9/2024 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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2524070128.D 3846787 MSD 378
2524070129.D 1801 CCV 388

Certificate of Analysis

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Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project AHH138|HS24061313
Workorder 3366030
Report ID 336027 on 7/9/2024 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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Project AHH138|HS24061313
Workorder 3366030

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3366030001	18WW19_061924	Ground Water	06/19/2024 07:25	06/26/2024 09:36	CBC	Collected By Client
3366030002	18WW20_061924	Ground Water	06/19/2024 08:15	06/26/2024 09:36	CBC	Collected By Client
3366030003	18WW25_061924	Ground Water	06/19/2024 09:00	06/26/2024 09:36	CBC	Collected By Client
3366030004	125_061924	Ground Water	06/19/2024 09:15	06/26/2024 09:36	CBC	Collected By Client
3366030005	Trip Blank	Ground Water	06/19/2024 00:00	06/26/2024 09:36	CBC	Collected By Client

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Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project AHH138|HS24061313
Workorder 3366030

Project Notations

P1 This certificate of analysis was reissued to generate a data package.

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The surrogate Toluene-d8 for method SW846 8260D was outside of control limits. The % Recovery was reported as 113 and the control limits were 89 to 112. This result was reported at a dilution of 1.

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Project AHH138|HS24061313
Workorder 3366030

Detected Results Summary

Client Sample ID	125_061924	Collected	06/19/2024 09:15
Lab Sample ID	3366030004	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethene	9.9	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	0.38J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	1.5	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH138|HS24061313
Workorder 3366030

Detected Results Summary

Client Sample ID	Trip Blank	Collected	06/19/2024 00:00
Lab Sample ID	3366030005	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Trichlorofluoromethane	2.7	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW19_061924	Collected	06/19/2024 07:25
Lab Sample ID	3366030001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 11:56	TMP	C
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	07/01/2024 11:56	TMP	C
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	07/01/2024 11:56	TMP	C
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	07/01/2024 11:56	TMP	C

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW19_061924	Collected	06/19/2024 07:25
Lab Sample ID	3366030001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 11:56	TMP	C

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.2%	81 – 118	07/01/2024 11:56	
4-Bromofluorobenzene	460-00-4	97.3%	85 – 114	07/01/2024 11:56	
Dibromofluoromethane	1868-53-7	90.7%	80 – 119	07/01/2024 11:56	
Toluene-d8	2037-26-5	101%	89 – 112	07/01/2024 11:56	

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW20_061924	Collected	06/19/2024 08:15
Lab Sample ID	3366030002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:16	TMP	B
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	07/01/2024 12:16	TMP	B
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	07/01/2024 12:16	TMP	B
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	07/01/2024 12:16	TMP	B

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW20_061924	Collected	06/19/2024 08:15
Lab Sample ID	3366030002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:16	TMP	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	81 – 118	07/01/2024 12:16	
4-Bromofluorobenzene	460-00-4	109%	85 – 114	07/01/2024 12:16	
Dibromofluoromethane	1868-53-7	100%	80 – 119	07/01/2024 12:16	
Toluene-d8	2037-26-5	113*%	89 – 112	07/01/2024 12:16	1

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW25_061924	Collected	06/19/2024 09:00
Lab Sample ID	3366030003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:36	TMP	B
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	07/01/2024 12:36	TMP	B
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	07/01/2024 12:36	TMP	B
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	07/01/2024 12:36	TMP	B

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	18WW25_061924	Collected	06/19/2024 09:00
Lab Sample ID	3366030003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:36	TMP	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.9%	81 – 118	07/01/2024 12:36	
4-Bromofluorobenzene	460-00-4	92.1%	85 – 114	07/01/2024 12:36	
Dibromofluoromethane	1868-53-7	93.1%	80 – 119	07/01/2024 12:36	
Toluene-d8	2037-26-5	98.5%	89 – 112	07/01/2024 12:36	

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	125_061924	Collected	06/19/2024 09:15
Lab Sample ID	3366030004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1-Dichloroethene	9.9	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	07/01/2024 12:57	TMP	B
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	07/01/2024 12:57	TMP	B
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
cis-1,2-Dichloroethene	0.38J	J,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	07/01/2024 12:57	TMP	B
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	07/01/2024 12:57	TMP	B

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	125_061924	Collected	06/19/2024 09:15
Lab Sample ID	3366030004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Trichloroethene	1.5	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Trichlorofluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	07/01/2024 12:57	TMP	B

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.7%	81 – 118	07/01/2024 12:57	
4-Bromofluorobenzene	460-00-4	107%	85 – 114	07/01/2024 12:57	
Dibromofluoromethane	1868-53-7	93.8%	80 – 119	07/01/2024 12:57	
Toluene-d8	2037-26-5	100%	89 – 112	07/01/2024 12:57	

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	Trip Blank	Collected	06/19/2024 00:00
Lab Sample ID	3366030005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1,1-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1,2,2-Tetrachloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1,2-Trichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,1-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2,3-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2,3-Trichloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2,4-Trichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2,4-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2-Dibromo-3-chloropropane	2.5U	U,P1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2-Dibromoethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2-Dichloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,3,5-Trimethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,3-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,3-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
1,4-Dichlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
2,2-Dichloropropane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
2-Butanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
2-Hexanone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
Acetone	3.8U	U,P1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/28/2024 11:45	TMP	A
Benzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Bromobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/28/2024 11:45	TMP	A
Bromochloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Bromodichloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Bromoform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Bromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Carbon Disulfide	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Carbon Tetrachloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Chlorobenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Chlorodibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Chloroethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Chloroform	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Chloromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
cis-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
cis-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Dibromomethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Dichlorodifluoromethane	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Ethylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Hexachlorobutadiene	3.8U	U,P1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/28/2024 11:45	TMP	A
Isopropylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Methylene Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
mp-Xylene	1.5U	U,P1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/28/2024 11:45	TMP	A

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Project AHH138|HS24061313
Workorder 3366030

Results

Client Sample ID	Trip Blank	Collected	06/19/2024 00:00
Lab Sample ID	3366030005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
n-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
n-Propylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
o-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
o-Xylene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
p-Chlorotoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
p-Isopropyltoluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
sec-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Styrene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
tert-Butylbenzene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Tetrachloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Toluene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
trans-1,2-Dichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
trans-1,3-Dichloropropene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Trichloroethene	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Trichlorofluoromethane	2.7	P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A
Vinyl Chloride	0.75U	U,P1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/28/2024 11:45	TMP	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/28/2024 11:45	
4-Bromofluorobenzene	460-00-4	102%	85 – 114	06/28/2024 11:45	
Dibromofluoromethane	1868-53-7	92.4%	80 – 119	06/28/2024 11:45	
Toluene-d8	2037-26-5	101%	89 – 112	06/28/2024 11:45	

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Workorder 3366030

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3366030001	18WW19_061924	SW846 8260D	N/A	
3366030002	18WW20_061924	SW846 8260D	N/A	
3366030003	18WW25_061924	SW846 8260D	N/A	
3366030004	125_061924	SW846 8260D	N/A	
3366030005	Trip Blank	SW846 8260D	N/A	

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1236144	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366030005

Method Blank 3845975 (MB) Created on 06/28/2024 10:24 For QC Batch 1236144

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.60	30	102	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	26.80	30	89.4	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.60	30	92	80 - 119	
Toluene-d8	2037-26-5	BLK	30.30	30	101	89 - 112	

Lab Control Standard 3845976 (LCS) Created on 06/28/2024 10:24 For QC Batch 1236144

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.10		20	95.6	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.50		20	108	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.60		20	108	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	20.70		20	104	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	20.80		20	104	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.50		20	108	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20.60		20	103	79 - 125		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,3-Trichlorobenzene	87-61-6	LCS	19.50		20	97.3	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.20		20	106	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.10		20	121	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.10		20	101	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90		20	94.7	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19		20	94.8	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	21.90		20	110	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	19.70		20	98.5	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	20.80		20	104	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.20		20	106	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.10		20	110	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	21.60		20	108	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	21.80		20	109	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.30		20	107	60 - 139		
2-Butanone	78-93-3	LCS	104		100	104	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	104		100	104	67 - 130		
Acetone	67-64-1	LCS	108		100	108	39 - 160		
Benzene	71-43-2	LCS	19.90		20	99.3	79 - 120		
Bromobenzene	108-86-1	LCS	20.10		20	100	80 - 120		
Bromochloromethane	74-97-5	LCS	21.20		20	106	78 - 123		
Bromodichloromethane	75-27-4	LCS	18.80		20	94.2	79 - 125		
Bromoform	75-25-2	LCS	18.10		20	90.3	66 - 130		
Bromomethane	74-83-9	LCS	20		20	100	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.10		20	106	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.40		20	87.2	72 - 136		
Chlorobenzene	108-90-7	LCS	20.60		20	103	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.10		20	90.4	74 - 126		
Chloroethane	75-00-3	LCS	20.30		20	102	60 - 138		
Chloroform	67-66-3	LCS	20.80		20	104	79 - 124		
Chloromethane	74-87-3	LCS	20.10		20	100	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	21.10		20	106	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.90		20	94.3	75 - 124		
Dibromomethane	74-95-3	LCS	20.20		20	101	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	20.10		20	101	32 - 152		
Ethylbenzene	100-41-4	LCS	19.10		20	95.7	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	22.70		20	113	66 - 134		
Isopropylbenzene	98-82-8	LCS	24.20		20	121	72 - 131		
Methylene Chloride	75-09-2	LCS	21.40		20	107	74 - 124		
mp-Xylene	108383/106423	LCS	38.90		40	97.2	80 - 121		
Naphthalene	91-20-3	LCS	19.90		20	99.6	61 - 128		
n-Butylbenzene	104-51-8	LCS	21.30		20	107	75 - 128		
n-Propylbenzene	103-65-1	LCS	21.10		20	106	76 - 126		
o-Chlorotoluene	95-49-8	LCS	21.40		20	107	79 - 122		
o-Xylene	95-47-6	LCS	19.30		20	96.4	78 - 122		
p-Chlorotoluene	106-43-4	LCS	22.40		20	112	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	21.80		20	109	77 - 127		

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
sec-Butylbenzene	135-98-8	LCS	22.90		20	115	77 - 126		
Styrene	100-42-5	LCS	21.20		20	106	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.20		20	101	74 - 129		
Toluene	108-88-3	LCS	19.60		20	98.2	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.50		20	108	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.60		20	97.9	73 - 127		
Trichloroethene	79-01-6	LCS	20.20		20	101	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	19.30		20	96.5	65 - 141		
Vinyl Chloride	75-01-4	LCS	19.70		20	98.7	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.40	30	101	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.20	30	97.3	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.70	30	98.9	80 - 119	
Toluene-d8	2037-26-5	LCS	30.30	30	101	89 - 112	

QC Batch

QC Batch	1238630	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366030001 3366030002 3366030003 3366030004

Method Blank 3846765 (MB) Created on 07/01/2024 10:31 For QC Batch 1238630

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	31.20	30	104	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	30.90	30	103	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.90	30	99.6	80 - 119	
Toluene-d8	2037-26-5	BLK	32.10	30	107	89 - 112	

Lab Control Standard 3846766 (LCS) Created on 07/01/2024 10:31 For QC Batch 1238630

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.60		20	97.8	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.70		20	108	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	20.90		20	104	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	20.40		20	102	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	20.30		20	101	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	20.60		20	103	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20		20	100	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	18.10		20	90.7	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	20.40		20	102	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	22.50		20	112	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	20.10		20	101	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	16.60		20	82.9	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19.10		20	95.3	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	21.20		20	106	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	19.40		20	97.2	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	20.20		20	101	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.20		20	106	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	21.70		20	108	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	20.90		20	105	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	21.40		20	107	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.10		20	106	60 - 139		
2-Butanone	78-93-3	LCS	97.80		100	97.8	56 - 143		
2-Hexanone	591-78-6	LCS	89.60		100	89.6	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	90.80		100	90.8	67 - 130		
Acetone	67-64-1	LCS	101		100	101	39 - 160		
Benzene	71-43-2	LCS	19.60		20	98.2	79 - 120		
Bromobenzene	108-86-1	LCS	21.20		20	106	80 - 120		
Bromochloromethane	74-97-5	LCS	21.80		20	109	78 - 123		
Bromodichloromethane	75-27-4	LCS	18.60		20	93.2	79 - 125		
Bromoform	75-25-2	LCS	17.20		20	85.9	66 - 130		
Bromomethane	74-83-9	LCS	19.50		20	97.4	53 - 141		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Carbon Disulfide	75-15-0	LCS	20.80		20	104	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	18.20		20	90.9	72 - 136		
Chlorobenzene	108-90-7	LCS	20.70		20	104	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.10		20	90.6	74 - 126		
Chloroethane	75-00-3	LCS	19.10		20	95.6	60 - 138		
Chloroform	67-66-3	LCS	20.80		20	104	79 - 124		
Chloromethane	74-87-3	LCS	19		20	95	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	20.50		20	102	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.60		20	92.9	75 - 124		
Dibromomethane	74-95-3	LCS	20.70		20	104	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	19.50		20	97.4	32 - 152		
Ethylbenzene	100-41-4	LCS	19.60		20	98	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	21		20	105	66 - 134		
Isopropylbenzene	98-82-8	LCS	22.70		20	114	72 - 131		
Methylene Chloride	75-09-2	LCS	20.20		20	101	74 - 124		
mp-Xylene	108383/106423	LCS	39		40	97.5	80 - 121		
Naphthalene	91-20-3	LCS	18		20	89.8	61 - 128		
n-Butylbenzene	104-51-8	LCS	21.20		20	106	75 - 128		
n-Propylbenzene	103-65-1	LCS	21.70		20	109	76 - 126		
o-Chlorotoluene	95-49-8	LCS	21.40		20	107	79 - 122		
o-Xylene	95-47-6	LCS	19.50		20	97.5	78 - 122		
p-Chlorotoluene	106-43-4	LCS	21.80		20	109	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	21.60		20	108	77 - 127		
sec-Butylbenzene	135-98-8	LCS	22.40		20	112	77 - 126		
Styrene	100-42-5	LCS	19.60		20	97.8	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.60		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.70		20	104	74 - 129		
Toluene	108-88-3	LCS	19.60		20	97.8	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	20		20	100	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	18.90		20	94.3	73 - 127		
Trichloroethene	79-01-6	LCS	20.10		20	100	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	19.10		20	95.6	65 - 141		
Vinyl Chloride	75-01-4	LCS	18.80		20	94	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	28.50	30	94.9	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.90	30	99.6	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.40	30	98	80 - 119	
Toluene-d8	2037-26-5	LCS	29.70	30	99.1	89 - 112	

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Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Matrix Spike 3846786 (MS) 3366030001 For QC Batch 1238630

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3846787 (MSD) 3366030001 For QC Batch 1238630

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	19.20	0	20	96	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	18.10	0	20	90.7	78 - 124	RPD 5.64 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	22.20	0	20	111	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	21.40	0	20	107	74 - 131	RPD 3.43 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	22.70	0	20	113	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21.20	0	20	106	71 - 121	RPD 6.87 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	21.20	0	20	106	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	20	0	20	99.8	80 - 119	RPD 5.88 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	21	0	20	105	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	20.50	0	20	102	77 - 125	RPD 2.77 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	22.70	0	20	113	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	21.10	0	20	106	71 - 131	RPD 7.16 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	21.20	0	20	106	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	20.10	0	20	100	79 - 125	RPD 5.24 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	17.40	0	20	86.8	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	16.20	0	20	80.8	69 - 129	RPD 7.08 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.10	0	20	111	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	20	0	20	99.8	73 - 122	RPD 10.40 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	21.50	0	20	107	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	20.20	0	20	101	69 - 130	RPD 6.34 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	20.90	0	20	105	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	19.20	0	20	95.9	76 - 124	RPD 8.68 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	16.70	0	20	83.7	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	16	0	20	80.2	62 - 128	RPD 4.27 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	19	0	20	95.1	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	18.20	0	20	90.8	77 - 121	RPD 4.68 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	21.70	0	20	108	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	20.10	0	20	101	80 - 119	RPD 7.51 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	20.40	0	20	102	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	20	0	20	100	73 - 128	RPD 1.77 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	20.60	0	20	103	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	20	0	20	100	78 - 122	RPD 2.80 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	22.70	0	20	114	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	20.70	0	20	104	75 - 124	RPD 9.19 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.10	0	20	110	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	20.10	0	20	100	80 - 119	RPD 9.34 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	22.10	0	20	110	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	20.50	0	20	102	80 - 119	RPD 7.47 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	21.20	0	20	106	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	20	0	20	99.9	79 - 118	RPD 5.97 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	18.70	0	20	93.6	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	18.70	0	20	93.4	60 - 139	RPD 0.23 (Max-30)	

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	MS	92.40	0	100	92.4	56 - 143		
2-Butanone	78-93-3	MSD	90.30	0	100	90.3	56 - 143	RPD 2.36 (Max-30)	
2-Hexanone	591-78-6	MS	95.50	0	100	95.5	57 - 139		
2-Hexanone	591-78-6	MSD	91.80	0	100	91.8	57 - 139	RPD 3.89 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	98.90	0	100	98.9	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	94.60	0	100	94.6	67 - 130	RPD 4.48 (Max-30)	
Acetone	67-64-1	MS	86.50	0	100	86.5	39 - 160		
Acetone	67-64-1	MSD	88.70	0	100	88.7	39 - 160	RPD 2.44 (Max-30)	
Benzene	71-43-2	MS	20.20	0	20	101	79 - 120		
Benzene	71-43-2	MSD	19.50	0	20	97.6	79 - 120	RPD 3.48 (Max-30)	
Bromobenzene	108-86-1	MS	21.80	0	20	109	80 - 120		
Bromobenzene	108-86-1	MSD	20.40	0	20	102	80 - 120	RPD 6.61 (Max-30)	
Bromochloromethane	74-97-5	MS	20.70	0	20	103	78 - 123		
Bromochloromethane	74-97-5	MSD	20.30	0	20	101	78 - 123	RPD 1.94 (Max-30)	
Bromodichloromethane	75-27-4	MS	18.70	0	20	93.4	79 - 125		
Bromodichloromethane	75-27-4	MSD	18.10	0	20	90.5	79 - 125	RPD 3.06 (Max-30)	
Bromoform	75-25-2	MS	17.30	0	20	86.5	66 - 130		
Bromoform	75-25-2	MSD	16.10	0	20	80.6	66 - 130	RPD 7.03 (Max-30)	
Bromomethane	74-83-9	MS	21.70	0	20	109	53 - 141		
Bromomethane	74-83-9	MSD	21.10	0	20	106	53 - 141	RPD 2.76 (Max-30)	
Carbon Disulfide	75-15-0	MS	20.40	0	20	102	64 - 133		
Carbon Disulfide	75-15-0	MSD	19.70	0	20	98.4	64 - 133	RPD 3.49 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	17.80	0	20	89.2	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	17.60	0	20	87.9	72 - 136	RPD 1.50 (Max-30)	
Chlorobenzene	108-90-7	MS	21.20	0	20	106	82 - 118		
Chlorobenzene	108-90-7	MSD	20.10	0	20	100	82 - 118	RPD 5.17 (Max-30)	
Chlorodibromomethane	124-48-1	MS	17.60	0	20	88	74 - 126		
Chlorodibromomethane	124-48-1	MSD	17.10	0	20	85.5	74 - 126	RPD 2.91 (Max-30)	
Chloroethane	75-00-3	MS	20.30	0	20	101	60 - 138		
Chloroethane	75-00-3	MSD	19.10	0	20	95.5	60 - 138	RPD 6 (Max-30)	
Chloroform	67-66-3	MS	20.70	0	20	103	79 - 124		
Chloroform	67-66-3	MSD	20.20	0	20	101	79 - 124	RPD 2.10 (Max-30)	
Chloromethane	74-87-3	MS	21	0	20	105	50 - 139		
Chloromethane	74-87-3	MSD	19.90	0	20	99.6	50 - 139	RPD 5.20 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	22.60	0	20	113	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	21.70	0	20	109	78 - 123	RPD 3.86 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	18.60	0	20	93.1	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	17.70	0	20	88.4	75 - 124	RPD 5.22 (Max-30)	
Dibromomethane	74-95-3	MS	19.90	0	20	99.3	79 - 123		
Dibromomethane	74-95-3	MSD	19.70	0	20	98.6	79 - 123	RPD 0.71 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	19.40	0	20	96.8	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	18.80	0	20	94	32 - 152	RPD 2.91 (Max-30)	
Ethylbenzene	100-41-4	MS	20.20	0	20	101	79 - 121		
Ethylbenzene	100-41-4	MSD	18.60	0	20	93.1	79 - 121	RPD 8.35 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	19.10	0	20	95.3	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	18.10	0	20	90.4	66 - 134	RPD 5.29 (Max-30)	
Isopropylbenzene	98-82-8	MS	24.40	0	20	122	72 - 131		
Isopropylbenzene	98-82-8	MSD	22.20	0	20	111	72 - 131	RPD 9.30 (Max-30)	
Methylene Chloride	75-09-2	MS	20.40	0	20	102	74 - 124		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methylene Chloride	75-09-2	MSD	19.70	0	20	98.4	74 - 124	RPD 3.76 (Max-30)	
mp-Xylene	108383/106423	MS	39.50	0	40	98.7	80 - 121		
mp-Xylene	108383/106423	MSD	37.50	0	40	93.9	80 - 121	RPD 5.07 (Max-30)	
Naphthalene	91-20-3	MS	17.80	0	20	88.8	61 - 128		
Naphthalene	91-20-3	MSD	16.80	0	20	84	61 - 128	RPD 5.60 (Max-30)	
n-Butylbenzene	104-51-8	MS	21.20	0	20	106	75 - 128		
n-Butylbenzene	104-51-8	MSD	19.40	0	20	97.2	75 - 128	RPD 8.70 (Max-30)	
n-Propylbenzene	103-65-1	MS	22.90	0	20	115	76 - 126		
n-Propylbenzene	103-65-1	MSD	21	0	20	105	76 - 126	RPD 8.59 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.30	0	20	116	79 - 122		
o-Chlorotoluene	95-49-8	MSD	21.20	0	20	106	79 - 122	RPD 9.42 (Max-30)	
o-Xylene	95-47-6	MS	19.60	0	20	98.1	78 - 122		
o-Xylene	95-47-6	MSD	18.70	0	20	93.5	78 - 122	RPD 4.83 (Max-30)	
p-Chlorotoluene	106-43-4	MS	23.20	0	20	116	78 - 122		
p-Chlorotoluene	106-43-4	MSD	21.20	0	20	106	78 - 122	RPD 9.27 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	22.20	0	20	111	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	20.90	0	20	105	77 - 127	RPD 5.63 (Max-30)	
sec-Butylbenzene	135-98-8	MS	23.90	0	20	119	77 - 126		
sec-Butylbenzene	135-98-8	MSD	22.20	0	20	111	77 - 126	RPD 7.27 (Max-30)	
Styrene	100-42-5	MS	20.30	0	20	102	78 - 123		
Styrene	100-42-5	MSD	19.20	0	20	96.1	78 - 123	RPD 5.61 (Max-30)	
tert-Butylbenzene	98-06-6	MS	23.50	0	20	118	78 - 124		
tert-Butylbenzene	98-06-6	MSD	22	0	20	110	78 - 124	RPD 6.50 (Max-30)	
Tetrachloroethene	127-18-4	MS	20	0	20	99.9	74 - 129		
Tetrachloroethene	127-18-4	MSD	19.10	0	20	95.5	74 - 129	RPD 4.53 (Max-30)	
Toluene	108-88-3	MS	20.70	0	20	104	80 - 121		
Toluene	108-88-3	MSD	19.30	0	20	96.3	80 - 121	RPD 7.36 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	21.60	0	20	108	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	20.50	0	20	102	75 - 124	RPD 5.43 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	18.70	0	20	93.5	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	17.60	0	20	88	73 - 127	RPD 6.12 (Max-30)	
Trichloroethene	79-01-6	MS	22.10	0	20	111	79 - 123		
Trichloroethene	79-01-6	MSD	20.80	0	20	104	79 - 123	RPD 6.05 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	19.60	0	20	98.1	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	18.40	0	20	92.2	65 - 141	RPD 6.11 (Max-30)	
Vinyl Chloride	75-01-4	MS	19.80	0	20	99.1	58 - 137		
Vinyl Chloride	75-01-4	MSD	18.70	0	20	93.3	58 - 137	RPD 6.05 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	30.90	30	103	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	30.20	30	101	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30.10	30	100	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	29.90	30	99.6	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30	30	100	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	29.20	30	97.5	80 - 119	
Toluene-d8	2037-26-5	MS	31.70	30	106	89 - 112	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
Toluene-d8	2037-26-5	MSD	30.30	30	101	89 - 112	

Project AHH138|HS24061313
Workorder 3366030

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3366030001	18WW19_061924	N/A	N/A	N/A		SW846 8260D	1238630
3366030002	18WW20_061924	N/A	N/A	N/A		SW846 8260D	1238630
3366030003	18WW25_061924	N/A	N/A	N/A		SW846 8260D	1238630
3366030004	125_061924	N/A	N/A	N/A		SW846 8260D	1238630
3366030005	Trip Blank	N/A	N/A	N/A		SW846 8260D	1236144

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3366030
Logged By: CXW
PM: SSL

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 26144

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057

Phone: +1 717 702 2244

CUSTOMER INFORMATION:

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

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24061313
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID		MATRIX	COLLECT DATE
	ANALYSIS REQUESTED				DUE DATE
1.	**HS24061313-01**	**18WW19_061924**	9-G/MCL MS/MSD	**Water**	**19 Jun 2024 07:25**
	Custom selection				05 Jul 2024
2.	**HS24061313-02**	**18WW20_061924**	3-G/MCL	**Water**	**19 Jun 2024 08:15**
	Custom selection				05 Jul 2024
3.	**HS24061313-03**	**18WW25_061924**		**Water**	**19 Jun 2024 09:00**
	Custom selection				05 Jul 2024
4.	**HS24061313-04**	**125_061924**		**Water**	**19 Jun 2024 09:15**
	Custom selection				05 Jul 2024
5.	**HS24061313-07**	**Trip Blank**		**Water**	**19 Jun 2024 00:00**
	Custom selection				05 Jul 2024

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

QC Level: DOD IV (DoD Data Package)

30 of 31
7/9/2024 10:15 AM

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26144**

Relinquished By: _____ Date/Time: _____

Received By: Fedex Date/Time: _____

~~Cooler ID(s):~~ Fedex ~~Temperature(s):~~ 6/26/24 936

6/26/24 936

Temp By: MJE | WO Temp (°C) 1° | Therm ID 570

Receipt Info Completed By:	MJE
Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N NA
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	Y N
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N NA
NI≤4 Days?	Y N
Rad Screen (uCi)	

Courier/Tracking #: 738879234761

SDWA Compliance Y N

PWSID

WV Containers 0-6°C Y N NA

*No sampler, G1c, G1HCL-MSE 6/26/24

pm notified WO2724

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

Internal Chain of Custody

Work Order: 3366030

3366030001-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030001-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030001-E	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030001-F	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030001-G	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030001-H	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030001-I	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030002-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030002-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030002-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

Internal Chain of Custody

Work Order: 3366030

3366030003-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030003-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030003-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030004-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030004-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030004-C	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030005-A	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

3366030005-B	G - CLEAR GLASS		
Transfer Date	**To Location**	**Transfer Reason**	**Transferred To**
06-26-24 13:51	RECEIVING	LOGIN	Wickline, Chelsea
06-26-24 09:36	*Sample Received At Lab*		

Case Narrative

Case Narrative
AHH-138
(3366030)

Sample Management

This report contains the results of the analysis of five (5) ground water samples collected on June 19, 2024. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALS - Middletown via courier on June 26, 2024. Upon receipt, the samples were inspected and compared to the Chain of Custody. Sample temperature was documented on the enclosed Chain of Custody. The samples were received intact and properly preserved, unless noted on the enclosed Certificate of Analysis and/or Chain of Custody.

Qualifier Symbol Definitions:

U = Qualifier indicates that the analyte was not detected above the LOD.
J = Qualifier indicates that the analyte value is between the DL and the LOQ.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds the calibration range.
P = Qualifier indicates that the RPD between the two analytical columns is > 40%.
NSC = Qualifier indicates that spike recoveries were not calculated based on the spiking concentration.

Result Symbol Definitions:

DL = The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence.
LOD = The smallest analyte concentration that must be present in a sample in order to be detected at a high level of confidence.
LOQ = The lowest concentration that produces a quantitative result within specified limits of precision or bias.

Manual Integration Symbol Definitions

I = Peak was not integrated properly by chromatographic software. This may be due to baseline irregularities resulting from sample matrix, elevated baseline, or incorrect integration by software on a sample. Integration was adjusted by operator to ensure proper quantitation.
H = The incorrect peak was identified or the chromatographic software did not identify an analyte peak. Operator manually identified the correct peak as the appropriate target analyte. This flag is automatically assigned by the Target software.
SP = Peak was erroneously split. The operator manually integrated the peak to include all the area of the analyte peak to ensure proper quantitation.
MP = Two peaks were erroneously merged. This may include two discrete peaks separated by a distinguishable valley or a larger peak with a clearly identifiable shoulder. Operator manually split peaks.
AB = Integration of group of adjacent peaks did not follow baseline. Operator manually assigned integration to follow baseline.
NP = Negative spike in the baseline resulted in overstating area of analyte peaks. Analyte peaks were re-assigned.
AC = Integration of aggregate or multi-component analyte to include area off all components of the analyte (i.e., toxaphene).

Manual Integrations

If manual integrations were performed, they are indicated on the raw data quantification files for each method.

Volatile Organics by SW-846 Method 8260D

Sample Handling. Five (5) ground water samples were analyzed by SW-846 Method 8260 for volatile organic compounds. All analyses were performed within holding time.

Initial Calibrations. Initial calibrations were properly analyzed and met method criteria for all target analytes. **Note:** The batch LCS also serves as a second source (ICV).

Continuing Calibration Verification. Continuing calibration verifications were properly analyzed and met method criteria for all target analytes.

Blanks. Target analytes were not detected in the method blank.

Surrogates. Recoveries were within control limits, except for the following:

- 3366030002 surrogate Toluene-d8 recovered above control limits.

Laboratory control samples. Target analytes were within control limits.

Internal Standards. Internal standard results met method criteria.

Spikes. Target analytes were within control limits.

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260D

Workorder

3366030

Client

ALS Houston

Project

AHH138|HS24061313

07/18/2024

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

18WW19_061924	Collected	Received	Matrix
3366030001	06/19/24 07:25	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	07/01/24 11:56	25240701	2524070107
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	07/01/24 11:56	25240701	2524070107
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 11:56	25240701	2524070107
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 11:56	25240701	2524070107
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 11:56	25240701	2524070107
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 11:56	25240701	2524070107
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

18WW19_061924	Collected	Received	Matrix
3366030001	06/19/24 07:25	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	07/01/24 11:56	25240701	2524070107
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	07/01/24 11:56	25240701	2524070107
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:56	25240701	2524070107

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

18WW20_061924

	Collected	Received	Matrix
3366030002	06/19/24 08:15	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	07/01/24 12:16	25240701	2524070108
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	07/01/24 12:16	25240701	2524070108
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:16	25240701	2524070108
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:16	25240701	2524070108
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:16	25240701	2524070108
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:16	25240701	2524070108
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

18WW20_061924

	Collected	Received	Matrix
3366030002	06/19/24 08:15	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	07/01/24 12:16	25240701	2524070108
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	07/01/24 12:16	25240701	2524070108
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:16	25240701	2524070108

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

18WW25_061924	Collected	Received	Matrix
3366030003	06/19/24 09:00	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	07/01/24 12:36	25240701	2524070109
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	07/01/24 12:36	25240701	2524070109
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:36	25240701	2524070109
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:36	25240701	2524070109
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:36	25240701	2524070109
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:36	25240701	2524070109
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

18WW25_061924	Collected	Received	Matrix
3366030003	06/19/24 09:00	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	07/01/24 12:36	25240701	2524070109
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	07/01/24 12:36	25240701	2524070109
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:36	25240701	2524070109

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

125_061924	Collected	Received	Matrix
3366030004	06/19/24 09:15	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,1-Dichloroethene	9.9		ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	07/01/24 12:57	25240701	2524070110
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	07/01/24 12:57	25240701	2524070110
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:57	25240701	2524070110
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:57	25240701	2524070110
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:57	25240701	2524070110
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 12:57	25240701	2524070110
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

125_061924	Collected	Received	Matrix
3366030004	06/19/24 09:15	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
cis-1,2-Dichloroethene	0.38	J	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	07/01/24 12:57	25240701	2524070110
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	07/01/24 12:57	25240701	2524070110
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Trichloroethene	1.5		ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 12:57	25240701	2524070110

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

Trip Blank

	Collected	Received	Matrix
3366030005	06/19/24 00:00	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 11:45	25240628	2524062805
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 11:45	25240628	2524062805
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:45	25240628	2524062805
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:45	25240628	2524062805
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:45	25240628	2524062805
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:45	25240628	2524062805
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

Trip Blank

	Collected	Received	Matrix
3366030005	06/19/24 00:00	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/28/24 11:45	25240628	2524062805
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/28/24 11:45	25240628	2524062805
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Trichlorofluoromethane	2.7		ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:45	25240628	2524062805

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

MB for HBN 1236144 [VOMS/73650

3845975

Matrix

WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 11:24	25240628	2524062804
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

MB for HBN 1236144 [VOMS/73650

3845975

Matrix WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	06/28/24 11:24	25240628	2524062804
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	06/28/24 11:24	25240628	2524062804
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	06/28/24 11:24	25240628	2524062804

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

LCS for HBN 1236144 [VOMS/7365

3845976

Matrix

WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	19.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1,1-Trichloroethane	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1,2,2-Tetrachloroethane	21.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1,2-Trichloroethane	20.7		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1-Dichloroethane	20.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1-Dichloroethene	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,1-Dichloropropene	20.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2,3-Trichlorobenzene	19.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2,3-Trichloropropane	21.2		ug/L	1.6	2.5	5.0	1	06/28/24 10:23	25240628	2524062802
1,2,4-Trichlorobenzene	24.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2,4-Trimethylbenzene	20.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dibromo-3-chloropropane	18.9		ug/L	1.6	2.5	5.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dibromoethane	19		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dichlorobenzene	21.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dichloroethane	19.7		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,2-Dichloropropane	20.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,3,5-Trimethylbenzene	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,3-Dichlorobenzene	22.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,3-Dichloropropane	21.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
1,4-Dichlorobenzene	21.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
2,2-Dichloropropane	21.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
2-Butanone	104		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
2-Hexanone	103		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
4-Methyl-2-Pentanone(MIBK)	104		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
Acetone	108		ug/L	1.6	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
Benzene	19.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromobenzene	20.1		ug/L	0.20	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromochloromethane	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromodichloromethane	18.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromoform	18.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Bromomethane	20		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Carbon Disulfide	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

LCS for HBN 1236144 [VOMS/7365

3845976

Matrix WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	17.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chlorobenzene	20.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chlorodibromomethane	18.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chloroethane	20.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chloroform	20.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Chloromethane	20.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
cis-1,2-Dichloroethene	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
cis-1,3-Dichloropropene	18.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Dibromomethane	20.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Dichlorodifluoromethane	20.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Ethylbenzene	19.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Hexachlorobutadiene	22.7		ug/L	0.43	3.8	5.0	1	06/28/24 10:23	25240628	2524062802
Isopropylbenzene	24.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Methylene Chloride	21.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
mp-Xylene	38.9		ug/L	0.66	1.5	2.0	1	06/28/24 10:23	25240628	2524062802
Naphthalene	19.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
n-Butylbenzene	21.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
n-Propylbenzene	21.1		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
o-Chlorotoluene	21.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
o-Xylene	19.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
p-Chlorotoluene	22.4		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
p-Isopropyltoluene	21.8		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
sec-Butylbenzene	22.9		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Styrene	21.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
tert-Butylbenzene	22.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Tetrachloroethene	20.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Toluene	19.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
trans-1,2-Dichloroethene	21.5		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
trans-1,3-Dichloropropene	19.6		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Trichloroethene	20.2		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Trichlorofluoromethane	19.3		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802
Vinyl Chloride	19.7		ug/L	0.33	0.75	1.0	1	06/28/24 10:23	25240628	2524062802

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

MB for HBN 1238630 [VOMS/73674

3846765

Matrix

WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,1,1-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,1,2,2-Tetrachloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,1,2-Trichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,1-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,1-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,1-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,2,3-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,2,3-Trichloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	07/01/24 11:15	25240701	2524070105
1,2,4-Trichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,2,4-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,2-Dibromo-3-chloropropane	2.5	U	ug/L	1.6	2.5	5.0	1	07/01/24 11:15	25240701	2524070105
1,2-Dibromoethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,2-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,2-Dichloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,3,5-Trimethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,3-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,3-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
1,4-Dichlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
2,2-Dichloropropane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
2-Butanone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 11:15	25240701	2524070105
2-Hexanone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 11:15	25240701	2524070105
4-Methyl-2-Pentanone(MIBK)	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 11:15	25240701	2524070105
Acetone	3.8	U	ug/L	1.6	3.8	5.0	1	07/01/24 11:15	25240701	2524070105
Benzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Bromobenzene	0.75	U	ug/L	0.20	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Bromochloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Bromodichloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Bromoform	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Bromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Carbon Disulfide	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

MB for HBN 1238630 [VOMS/73674

3846765

Matrix

WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Chlorobenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Chlorodibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Chloroethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Chloroform	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Chloromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
cis-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
cis-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Dibromomethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Dichlorodifluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Ethylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Hexachlorobutadiene	3.8	U	ug/L	0.43	3.8	5.0	1	07/01/24 11:15	25240701	2524070105
Isopropylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Methylene Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
mp-Xylene	1.5	U	ug/L	0.66	1.5	2.0	1	07/01/24 11:15	25240701	2524070105
Naphthalene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
n-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
n-Propylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
o-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
o-Xylene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
p-Chlorotoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
p-Isopropyltoluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
sec-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Styrene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
tert-Butylbenzene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Tetrachloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Toluene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
trans-1,2-Dichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
trans-1,3-Dichloropropene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Trichloroethene	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Trichlorofluoromethane	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105
Vinyl Chloride	0.75	U	ug/L	0.33	0.75	1.0	1	07/01/24 11:15	25240701	2524070105

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

LCS for HBN 1238630 [VOMS/7367

	Matrix
3846766	WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	19.6		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,1,1-Trichloroethane	21.7		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,1,2,2-Tetrachloroethane	20.9		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,1,2-Trichloroethane	20.4		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,1-Dichloroethane	20.3		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,1-Dichloroethene	20.6		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,1-Dichloropropene	20		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,2,3-Trichlorobenzene	18.1		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,2,3-Trichloropropane	20.4		ug/L	1.6	2.5	5.0	1	07/01/24 09:53	25240701	2524070102
1,2,4-Trichlorobenzene	22.5		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,2,4-Trimethylbenzene	20.1		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,2-Dibromo-3-chloropropane	16.6		ug/L	1.6	2.5	5.0	1	07/01/24 09:53	25240701	2524070102
1,2-Dibromoethane	19.1		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,2-Dichlorobenzene	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,2-Dichloroethane	19.4		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,2-Dichloropropane	20.2		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,3,5-Trimethylbenzene	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,3-Dichlorobenzene	21.7		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,3-Dichloropropane	20.9		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
1,4-Dichlorobenzene	21.4		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
2,2-Dichloropropane	21.1		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
2-Butanone	97.8		ug/L	1.6	3.8	5.0	1	07/01/24 09:53	25240701	2524070102
2-Hexanone	89.6		ug/L	1.6	3.8	5.0	1	07/01/24 09:53	25240701	2524070102
4-Methyl-2-Pentanone(MIBK)	90.8		ug/L	1.6	3.8	5.0	1	07/01/24 09:53	25240701	2524070102
Acetone	101		ug/L	1.6	3.8	5.0	1	07/01/24 09:53	25240701	2524070102
Benzene	19.6		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Bromobenzene	21.2		ug/L	0.20	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Bromochloromethane	21.8		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Bromodichloromethane	18.6		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Bromoform	17.2		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Bromomethane	19.5		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Carbon Disulfide	20.8		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

LCS for HBN 1238630 [VOMS/7367

	Matrix
3846766	WQ

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	18.2		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Chlorobenzene	20.7		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Chlorodibromomethane	18.1		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Chloroethane	19.1		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Chloroform	20.8		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Chloromethane	19		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
cis-1,2-Dichloroethene	20.5		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
cis-1,3-Dichloropropene	18.6		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Dibromomethane	20.7		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Dichlorodifluoromethane	19.5		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Ethylbenzene	19.6		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Hexachlorobutadiene	21		ug/L	0.43	3.8	5.0	1	07/01/24 09:53	25240701	2524070102
Isopropylbenzene	22.7		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Methylene Chloride	20.2		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
mp-Xylene	39		ug/L	0.66	1.5	2.0	1	07/01/24 09:53	25240701	2524070102
Naphthalene	18		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
n-Butylbenzene	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
n-Propylbenzene	21.7		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
o-Chlorotoluene	21.4		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
o-Xylene	19.5		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
p-Chlorotoluene	21.8		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
p-Isopropyltoluene	21.6		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
sec-Butylbenzene	22.4		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Styrene	19.6		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
tert-Butylbenzene	22.6		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Tetrachloroethene	20.7		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Toluene	19.6		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
trans-1,2-Dichloroethene	20		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
trans-1,3-Dichloropropene	18.9		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Trichloroethene	20.1		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Trichlorofluoromethane	19.1		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102
Vinyl Chloride	18.8		ug/L	0.33	0.75	1.0	1	07/01/24 09:53	25240701	2524070102

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

18WW19_061924MS	Collected	Received	Matrix
3846786	06/19/24 07:25	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	19.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,1,1-Trichloroethane	22.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,1,2,2-Tetrachloroethane	22.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,1,2-Trichloroethane	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,1-Dichloroethane	21		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,1-Dichloroethene	22.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,1-Dichloropropene	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,2,3-Trichlorobenzene	17.4		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,2,3-Trichloropropane	22.1		ug/L	1.6	2.5	5.0	1	07/01/24 18:43	25240701	2524070127
1,2,4-Trichlorobenzene	21.5		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,2,4-Trimethylbenzene	20.9		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,2-Dibromo-3-chloropropane	16.7		ug/L	1.6	2.5	5.0	1	07/01/24 18:43	25240701	2524070127
1,2-Dibromoethane	19		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,2-Dichlorobenzene	21.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,2-Dichloroethane	20.4		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,2-Dichloropropane	20.6		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,3,5-Trimethylbenzene	22.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,3-Dichlorobenzene	22.1		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,3-Dichloropropane	22.1		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
1,4-Dichlorobenzene	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
2,2-Dichloropropane	18.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
2-Butanone	92.4		ug/L	1.6	3.8	5.0	1	07/01/24 18:43	25240701	2524070127
2-Hexanone	95.5		ug/L	1.6	3.8	5.0	1	07/01/24 18:43	25240701	2524070127
4-Methyl-2-Pentanone(MIBK)	98.9		ug/L	1.6	3.8	5.0	1	07/01/24 18:43	25240701	2524070127
Acetone	86.5		ug/L	1.6	3.8	5.0	1	07/01/24 18:43	25240701	2524070127
Benzene	20.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Bromobenzene	21.8		ug/L	0.20	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Bromochloromethane	20.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Bromodichloromethane	18.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Bromoform	17.3		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Bromomethane	21.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Carbon Disulfide	20.4		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

18WW19_061924MS	Collected	Received	Matrix
3846786	06/19/24 07:25	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	17.8		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Chlorobenzene	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Chlorodibromomethane	17.6		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Chloroethane	20.3		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Chloroform	20.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Chloromethane	21		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
cis-1,2-Dichloroethene	22.6		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
cis-1,3-Dichloropropene	18.6		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Dibromomethane	19.9		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Dichlorodifluoromethane	19.4		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Ethylbenzene	20.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Hexachlorobutadiene	19.1		ug/L	0.43	3.8	5.0	1	07/01/24 18:43	25240701	2524070127
Isopropylbenzene	24.4		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Methylene Chloride	20.4		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
mp-Xylene	39.5		ug/L	0.66	1.5	2.0	1	07/01/24 18:43	25240701	2524070127
Naphthalene	17.8		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
n-Butylbenzene	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
n-Propylbenzene	22.9		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
o-Chlorotoluene	23.3		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
o-Xylene	19.6		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
p-Chlorotoluene	23.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
p-Isopropyltoluene	22.2		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
sec-Butylbenzene	23.9		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Styrene	20.3		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
tert-Butylbenzene	23.5		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Tetrachloroethene	20		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Toluene	20.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
trans-1,2-Dichloroethene	21.6		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
trans-1,3-Dichloropropene	18.7		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Trichloroethene	22.1		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Trichlorofluoromethane	19.6		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127
Vinyl Chloride	19.8		ug/L	0.33	0.75	1.0	1	07/01/24 18:43	25240701	2524070127

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

18WW19_061924MSD	Collected	Received	Matrix
3846787	06/19/24 07:25	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	18.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,1,1-Trichloroethane	21.4		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,1,2,2-Tetrachloroethane	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,1,2-Trichloroethane	20		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,1-Dichloroethane	20.5		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,1-Dichloroethene	21.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,1-Dichloropropene	20.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,2,3-Trichlorobenzene	16.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,2,3-Trichloropropane	20		ug/L	1.6	2.5	5.0	1	07/01/24 19:04	25240701	2524070128
1,2,4-Trichlorobenzene	20.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,2,4-Trimethylbenzene	19.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,2-Dibromo-3-chloropropane	16		ug/L	1.6	2.5	5.0	1	07/01/24 19:04	25240701	2524070128
1,2-Dibromoethane	18.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,2-Dichlorobenzene	20.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,2-Dichloroethane	20		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,2-Dichloropropane	20		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,3,5-Trimethylbenzene	20.7		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,3-Dichlorobenzene	20.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,3-Dichloropropane	20.5		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
1,4-Dichlorobenzene	20		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
2,2-Dichloropropane	18.7		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
2-Butanone	90.3		ug/L	1.6	3.8	5.0	1	07/01/24 19:04	25240701	2524070128
2-Hexanone	91.8		ug/L	1.6	3.8	5.0	1	07/01/24 19:04	25240701	2524070128
4-Methyl-2-Pentanone(MIBK)	94.6		ug/L	1.6	3.8	5.0	1	07/01/24 19:04	25240701	2524070128
Acetone	88.7		ug/L	1.6	3.8	5.0	1	07/01/24 19:04	25240701	2524070128
Benzene	19.5		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Bromobenzene	20.4		ug/L	0.20	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Bromochloromethane	20.3		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Bromodichloromethane	18.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Bromoform	16.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Bromomethane	21.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Carbon Disulfide	19.7		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128

Form 1 - Organic Analysis Data Sheet

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

18WW19_061924MSD	Collected	Received	Matrix
3846787	06/19/24 07:25	06/26/24 09:36	GW

Analyte	Result	Q	Units	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Carbon Tetrachloride	17.6		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Chlorobenzene	20.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Chlorodibromomethane	17.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Chloroethane	19.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Chloroform	20.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Chloromethane	19.9		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
cis-1,2-Dichloroethene	21.7		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
cis-1,3-Dichloropropene	17.7		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Dibromomethane	19.7		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Dichlorodifluoromethane	18.8		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Ethylbenzene	18.6		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Hexachlorobutadiene	18.1		ug/L	0.43	3.8	5.0	1	07/01/24 19:04	25240701	2524070128
Isopropylbenzene	22.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Methylene Chloride	19.7		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
mp-Xylene	37.5		ug/L	0.66	1.5	2.0	1	07/01/24 19:04	25240701	2524070128
Naphthalene	16.8		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
n-Butylbenzene	19.4		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
n-Propylbenzene	21		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
o-Chlorotoluene	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
o-Xylene	18.7		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
p-Chlorotoluene	21.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
p-Isopropyltoluene	20.9		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
sec-Butylbenzene	22.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Styrene	19.2		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
tert-Butylbenzene	22		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Tetrachloroethene	19.1		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Toluene	19.3		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
trans-1,2-Dichloroethene	20.5		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
trans-1,3-Dichloropropene	17.6		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Trichloroethene	20.8		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Trichlorofluoromethane	18.4		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128
Vinyl Chloride	18.7		ug/L	0.33	0.75	1.0	1	07/01/24 19:04	25240701	2524070128

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260D

Workorder

3366030

Client

ALS Houston

Project

AHH138|HS24061313

07/18/2024

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

RUNID 25240628

Volatiles by EPA 8260D

Trip Blank

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366030005	MS25	GW	06/28/24 11:45	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062805.D	31.1	30	104		81-118
4-Bromofluorobenzene	2524062805.D	30.5	30	102		85-114
Dibromofluoromethane	2524062805.D	27.7	30	92		80-119
Toluene-d8	2524062805.D	30.3	30	101		89-112

MB for HBN 1236144 [VOMS/73650

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845975	MS25	WQ		ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062804.D	30.6	30	102		81-118
4-Bromofluorobenzene	2524062804.D	26.8	30	89		85-114
Dibromofluoromethane	2524062804.D	27.6	30	92		80-119
Toluene-d8	2524062804.D	30.3	30	101		89-112

LCS for HBN 1236144 [VOMS/7365

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3845976	MS25	WQ	06/28/24 10:23	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524062802.D	30.4	30	101		81-118
4-Bromofluorobenzene	2524062802.D	29.2	30	97		85-114
Dibromofluoromethane	2524062802.D	29.7	30	99		80-119
Toluene-d8	2524062802.D	30.3	30	101		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

RUNID 25240701

Volatiles by EPA 8260D

18WW19_061924

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366030001	MS25	GW	07/01/24 11:56	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524070107.D	29.2	30	97		81-118
4-Bromofluorobenzene	2524070107.D	29.2	30	97		85-114
Dibromofluoromethane	2524070107.D	27.2	30	91		80-119
Toluene-d8	2524070107.D	30.2	30	101		89-112

18WW20_061924

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366030002	MS25	GW	07/01/24 12:16	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524070108.D	32.8	30	109		81-118
4-Bromofluorobenzene	2524070108.D	32.8	30	109		85-114
Dibromofluoromethane	2524070108.D	30	30	100		80-119
Toluene-d8	2524070108.D	33.9	30	113	*	89-112

18WW25_061924

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366030003	MS25	GW	07/01/24 12:36	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524070109.D	29.7	30	99		81-118
4-Bromofluorobenzene	2524070109.D	27.6	30	92		85-114
Dibromofluoromethane	2524070109.D	27.9	30	93		80-119
Toluene-d8	2524070109.D	29.5	30	99		89-112

Form 2 - System Monitoring Compound Recovery

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

RUNID 25240701

125_061924	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3366030004	MS25	GW	07/01/24 12:57	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524070110.D	29.3	30	98		81-118
4-Bromofluorobenzene	2524070110.D	32.1	30	107		85-114
Dibromofluoromethane	2524070110.D	28.1	30	94		80-119
Toluene-d8	2524070110.D	30.1	30	100		89-112

MB for HBN 1238630 [VOMS/73674	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3846765	MS25	WQ		ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524070105.D	31.2	30	104		81-118
4-Bromofluorobenzene	2524070105.D	30.9	30	103		85-114
Dibromofluoromethane	2524070105.D	29.9	30	100		80-119
Toluene-d8	2524070105.D	32.1	30	107		89-112

LCS for HBN 1238630 [VOMS/7367	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3846766	MS25	WQ	07/01/24 09:53	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524070102.D	28.5	30	95		81-118
4-Bromofluorobenzene	2524070102.D	29.9	30	100		85-114
Dibromofluoromethane	2524070102.D	29.4	30	98		80-119
Toluene-d8	2524070102.D	29.7	30	99		89-112

Form 2 - System Monitoring Compound Recovery

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Project HS24061313 - AHH138

Workorder **3366030**

RUNID 25240701

Volatiles by EPA 8260D

18WW19_061924MS

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3846786	MS25	GW	07/01/24 18:43	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524070127.D	30.9	30	103		81-118
4-Bromofluorobenzene	2524070127.D	30.1	30	100		85-114
Dibromofluoromethane	2524070127.D	30	30	100		80-119
Toluene-d8	2524070127.D	31.7	30	106		89-112

18WW19_061924MSD

	Instrument	Matrix	Analysis Date	Conc Units	Dilution
3846787	MS25	GW	07/01/24 19:04	ug/L	1

Surrogate	File ID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	2524070128.D	30.2	30	101		81-118
4-Bromofluorobenzene	2524070128.D	29.9	30	100		85-114
Dibromofluoromethane	2524070128.D	29.2	30	98		80-119
Toluene-d8	2524070128.D	30.3	30	101		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260D

Workorder

3366030

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07/18/2024

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

SAMPLENUM MS-3846786

Volatiles by EPA 8260D

18WW19_061924 (3366030001)			3846786MS		3846787MSD	
Sample Matrix GW	**Prep Method**		**Run Date** 07/01/24		**Run Date** 07/01/24	
Result Units ug/L			**Run Time** 18:43		**Run Time** 19:04	

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	0.75U	19.2	20	**96**		18.1	20	**91**		30	**5.64**	
1,1,1-Trichloroethane	74-131	1	0.75U	22.2	20	**111**		21.4	20	**107**		30	**3.43**	
1,1,2,2-Tetrachloroethane	71-121	1	0.75U	22.7	20	**113**		21.2	20	**106**		30	**6.87**	
1,1,2-Trichloroethane	80-119	1	0.75U	21.2	20	**106**		20.0	20	**100**		30	**5.88**	
1,1-Dichloroethane	77-125	1	0.75U	21.0	20	**105**		20.5	20	**102**		30	**2.77**	
1,1-Dichloroethene	71-131	1	0.75U	22.7	20	**113**		21.1	20	**106**		30	**7.16**	
1,1-Dichloropropene	79-125	1	0.75U	21.2	20	**106**		20.1	20	**100**		30	**5.24**	
1,2,3-Trichlorobenzene	69-129	1	0.75U	17.4	20	**87**		16.2	20	**81**		30	**7.08**	
1,2,3-Trichloropropane	73-122	1	2.5U	22.1	20	**111**		20.0	20	**100**		30	**10.4**	
1,2,4-Trichlorobenzene	69-130	1	0.75U	21.5	20	**107**		20.2	20	**101**		30	**6.34**	
1,2,4-Trimethylbenzene	76-124	1	0.75U	20.9	20	**105**		19.2	20	**96**		30	**8.68**	
1,2-Dibromo-3-chloropropane	62-128	1	2.5U	16.7	20	**84**		16.0	20	**80**		30	**4.27**	
1,2-Dibromoethane	77-121	1	0.75U	19.0	20	**95**		18.2	20	**91**		30	**4.68**	
1,2-Dichlorobenzene	80-119	1	0.75U	21.7	20	**108**		20.1	20	**101**		30	**7.51**	
1,2-Dichloroethane	73-128	1	0.75U	20.4	20	**102**		20.0	20	**100**		30	**1.77**	
1,2-Dichloropropane	78-122	1	0.75U	20.6	20	**103**		20.0	20	**100**		30	**2.8**	
1,3,5-Trimethylbenzene	75-124	1	0.75U	22.7	20	**114**		20.7	20	**104**		30	**9.19**	
1,3-Dichlorobenzene	80-119	1	0.75U	22.1	20	**110**		20.1	20	**100**		30	**9.34**	
1,3-Dichloropropane	80-119	1	0.75U	22.1	20	**110**		20.5	20	**102**		30	**7.47**	
1,4-Dichlorobenzene	79-118	1	0.75U	21.2	20	**106**		20.0	20	**100**		30	**5.97**	
2,2-Dichloropropane	60-139	1	0.75U	18.7	20	**94**		18.7	20	**93**		30	**0.23**	
2-Butanone	56-143	1	3.8U	92.4	100	**92**		90.3	100	**90**		30	**2.36**	
2-Hexanone	57-139	1	3.8U	95.5	100	**96**		91.8	100	**92**		30	**3.89**	
4-Methyl-2-Pentanone(MIBK)	67-130	1	3.8U	98.9	100	**99**		94.6	100	**95**		30	**4.48**	
Acetone	39-160	1	3.8U	86.5	100	**86**		88.7	100	**89**		30	**2.44**	
Benzene	79-120	1	0.75U	20.2	20	**101**		19.5	20	**98**		30	**3.48**	
Bromobenzene	80-120	1	0.75U	21.8	20	**109**		20.4	20	**102**		30	**6.61**	
Bromochloromethane	78-123	1	0.75U	20.7	20	**103**		20.3	20	**101**		30	**1.94**	
Bromodichloromethane	79-125	1	0.75U	18.7	20	**93**		18.1	20	**90**		30	**3.06**	
Bromoform	66-130	1	0.75U	17.3	20	**86**		16.1	20	**81**		30	**7.03**	
Bromomethane	53-141	1	0.75U	21.7	20	**109**		21.1	20	**106**		30	**2.76**	
Carbon Disulfide	64-133	1	0.75U	20.4	20	**102**		19.7	20	**98**		30	**3.49**	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

SAMPLENUM MS-3846786

Volatiles by EPA 8260D

18WW19_061924 (3366030001)			3846786MS		3846787MSD	
Sample Matrix GW	**Prep Method**		**Run Date** 07/01/24		**Run Date** 07/01/24	
Result Units ug/L			**Run Time** 18:43		**Run Time** 19:04	

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon Tetrachloride	72-136	1	0.75U	17.8	20	**89**		17.6	20	**88**		30	**1.5**	
Chlorobenzene	82-118	1	0.75U	21.2	20	**106**		20.1	20	**100**		30	**5.17**	
Chlorodibromomethane	74-126	1	0.75U	17.6	20	**88**		17.1	20	**86**		30	**2.91**	
Chloroethane	60-138	1	0.75U	20.3	20	**101**		19.1	20	**96**		30	**6**	
Chloroform	79-124	1	0.75U	20.7	20	**103**		20.2	20	**101**		30	**2.1**	
Chloromethane	50-139	1	0.75U	21.0	20	**105**		19.9	20	**100**		30	**5.2**	
cis-1,2-Dichloroethene	78-123	1	0.75U	22.6	20	**113**		21.7	20	**109**		30	**3.86**	
cis-1,3-Dichloropropene	75-124	1	0.75U	18.6	20	**93**		17.7	20	**88**		30	**5.22**	
Dibromomethane	79-123	1	0.75U	19.9	20	**99**		19.7	20	**99**		30	**0.71**	
Dichlorodifluoromethane	32-152	1	0.75U	19.4	20	**97**		18.8	20	**94**		30	**2.91**	
Ethylbenzene	79-121	1	0.75U	20.2	20	**101**		18.6	20	**93**		30	**8.35**	
Hexachlorobutadiene	66-134	1	3.8U	19.1	20	**95**		18.1	20	**90**		30	**5.29**	
Isopropylbenzene	72-131	1	0.75U	24.4	20	**122**		22.2	20	**111**		30	**9.3**	
Methylene Chloride	74-124	1	0.75U	20.4	20	**102**		19.7	20	**98**		30	**3.76**	
mp-Xylene	80-121	1	1.5U	39.5	40	**99**		37.5	40	**94**		30	**5.07**	
Naphthalene	61-128	1	0.75U	17.8	20	**89**		16.8	20	**84**		30	**5.6**	
n-Butylbenzene	75-128	1	0.75U	21.2	20	**106**		19.4	20	**97**		30	**8.7**	
n-Propylbenzene	76-126	1	0.75U	22.9	20	**115**		21.0	20	**105**		30	**8.59**	
o-Chlorotoluene	79-122	1	0.75U	23.3	20	**116**		21.2	20	**106**		30	**9.42**	
o-Xylene	78-122	1	0.75U	19.6	20	**98**		18.7	20	**94**		30	**4.83**	
p-Chlorotoluene	78-122	1	0.75U	23.2	20	**116**		21.2	20	**106**		30	**9.27**	
p-Isopropyltoluene	77-127	1	0.75U	22.2	20	**111**		20.9	20	**105**		30	**5.63**	
sec-Butylbenzene	77-126	1	0.75U	23.9	20	**119**		22.2	20	**111**		30	**7.27**	
Styrene	78-123	1	0.75U	20.3	20	**102**		19.2	20	**96**		30	**5.61**	
tert-Butylbenzene	78-124	1	0.75U	23.5	20	**118**		22.0	20	**110**		30	**6.5**	
Tetrachloroethene	74-129	1	0.75U	20.0	20	**100**		19.1	20	**96**		30	**4.53**	
Toluene	80-121	1	0.75U	20.7	20	**104**		19.3	20	**96**		30	**7.36**	
trans-1,2-Dichloroethene	75-124	1	0.75U	21.6	20	**108**		20.5	20	**102**		30	**5.43**	
trans-1,3-Dichloropropene	73-127	1	0.75U	18.7	20	**94**		17.6	20	**88**		30	**6.12**	
Trichloroethene	79-123	1	0.75U	22.1	20	**111**		20.8	20	**104**		30	**6.05**	
Trichlorofluoromethane	65-141	1	0.75U	19.6	20	**98**		18.4	20	**92**		30	**6.11**	
Vinyl Chloride	58-137	1	0.75U	19.8	20	**99**		18.7	20	**93**		30	**6.05**	

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260D

Workorder

3366030

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AHH138|HS24061313

07/18/2024

Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

SAMPLENUM LCS-3845976

Volatiles by EPA 8260D

25240628			3845976		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 06/28/24 **Run Time** 10:23		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	19.1	**96**	
1,1,1-Trichloroethane	74-131	20	21.5	**108**	
1,1,2,2-Tetrachloroethane	71-121	20	21.6	**108**	
1,1,2-Trichloroethane	80-119	20	20.7	**104**	
1,1-Dichloroethane	77-125	20	20.8	**104**	
1,1-Dichloroethene	71-131	20	21.5	**108**	
1,1-Dichloropropene	79-125	20	20.6	**103**	
1,2,3-Trichlorobenzene	69-129	20	19.5	**97**	
1,2,3-Trichloropropane	73-122	20	21.2	**106**	
1,2,4-Trichlorobenzene	69-130	20	24.1	**121**	
1,2,4-Trimethylbenzene	76-124	20	20.1	**101**	
1,2-Dibromo-3-chloropropane	62-128	20	18.9	**95**	
1,2-Dibromoethane	77-121	20	19	**95**	
1,2-Dichlorobenzene	80-119	20	21.9	**110**	
1,2-Dichloroethane	73-128	20	19.7	**99**	
1,2-Dichloropropane	78-122	20	20.8	**104**	
1,3,5-Trimethylbenzene	75-124	20	21.2	**106**	
1,3-Dichlorobenzene	80-119	20	22.1	**110**	
1,3-Dichloropropane	80-119	20	21.6	**108**	
1,4-Dichlorobenzene	79-118	20	21.8	**109**	
2,2-Dichloropropane	60-139	20	21.3	**107**	
2-Butanone	56-143	100	104	**104**	
2-Hexanone	57-139	100	103	**103**	
4-Methyl-2-Pentanone(MIBK)	67-130	100	104	**104**	
Acetone	39-160	100	108	**108**	
Benzene	79-120	20	19.9	**99**	
Bromobenzene	80-120	20	20.1	**100**	
Bromochloromethane	78-123	20	21.2	**106**	
Bromodichloromethane	79-125	20	18.8	**94**	
Bromoform	66-130	20	18.1	**90**	
Bromomethane	53-141	20	20	**100**	
Carbon Disulfide	64-133	20	21.1	**106**	
Carbon Tetrachloride	72-136	20	17.4	**87**	
Chlorobenzene	82-118	20	20.6	**103**	
Chlorodibromomethane	74-126	20	18.1	**90**	

Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

SAMPLENUM LCS-3845976

Volatiles by EPA 8260D

25240628			3845976		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 06/28/24 **Run Time** 10:23		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Chloroethane	60-138	20	20.3	**102**	
Chloroform	79-124	20	20.8	**104**	
Chloromethane	50-139	20	20.1	**100**	
cis-1,2-Dichloroethene	78-123	20	21.1	**106**	
cis-1,3-Dichloropropene	75-124	20	18.9	**94**	
Dibromomethane	79-123	20	20.2	**101**	
Dichlorodifluoromethane	32-152	20	20.1	**101**	
Ethylbenzene	79-121	20	19.1	**96**	
Hexachlorobutadiene	66-134	20	22.7	**113**	
Isopropylbenzene	72-131	20	24.2	**121**	
Methylene Chloride	74-124	20	21.4	**107**	
mp-Xylene	80-121	40	38.9	**97**	
Naphthalene	61-128	20	19.9	**100**	
n-Butylbenzene	75-128	20	21.3	**107**	
n-Propylbenzene	76-126	20	21.1	**106**	
o-Chlorotoluene	79-122	20	21.4	**107**	
o-Xylene	78-122	20	19.3	**96**	
p-Chlorotoluene	78-122	20	22.4	**112**	
p-Isopropyltoluene	77-127	20	21.8	**109**	
sec-Butylbenzene	77-126	20	22.9	**115**	
Styrene	78-123	20	21.2	**106**	
tert-Butylbenzene	78-124	20	22.5	**113**	
Tetrachloroethene	74-129	20	20.2	**101**	
Toluene	80-121	20	19.6	**98**	
trans-1,2-Dichloroethene	75-124	20	21.5	**108**	
trans-1,3-Dichloropropene	73-127	20	19.6	**98**	
Trichloroethene	79-123	20	20.2	**101**	
Trichlorofluoromethane	65-141	20	19.3	**97**	
Vinyl Chloride	58-137	20	19.7	**99**	

Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

SAMPLENUM LCS-3846766

Volatiles by EPA 8260D

25240701			3846766		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 07/01/24 **Run Time** 09:53		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	19.6	**98**	
1,1,1-Trichloroethane	74-131	20	21.7	**108**	
1,1,2,2-Tetrachloroethane	71-121	20	20.9	**104**	
1,1,2-Trichloroethane	80-119	20	20.4	**102**	
1,1-Dichloroethane	77-125	20	20.3	**101**	
1,1-Dichloroethene	71-131	20	20.6	**103**	
1,1-Dichloropropene	79-125	20	20	**100**	
1,2,3-Trichlorobenzene	69-129	20	18.1	**91**	
1,2,3-Trichloropropane	73-122	20	20.4	**102**	
1,2,4-Trichlorobenzene	69-130	20	22.5	**112**	
1,2,4-Trimethylbenzene	76-124	20	20.1	**101**	
1,2-Dibromo-3-chloropropane	62-128	20	16.6	**83**	
1,2-Dibromoethane	77-121	20	19.1	**95**	
1,2-Dichlorobenzene	80-119	20	21.2	**106**	
1,2-Dichloroethane	73-128	20	19.4	**97**	
1,2-Dichloropropane	78-122	20	20.2	**101**	
1,3,5-Trimethylbenzene	75-124	20	21.2	**106**	
1,3-Dichlorobenzene	80-119	20	21.7	**108**	
1,3-Dichloropropane	80-119	20	20.9	**105**	
1,4-Dichlorobenzene	79-118	20	21.4	**107**	
2,2-Dichloropropane	60-139	20	21.1	**106**	
2-Butanone	56-143	100	97.8	**98**	
2-Hexanone	57-139	100	89.6	**90**	
4-Methyl-2-Pentanone(MIBK)	67-130	100	90.8	**91**	
Acetone	39-160	100	101	**101**	
Benzene	79-120	20	19.6	**98**	
Bromobenzene	80-120	20	21.2	**106**	
Bromochloromethane	78-123	20	21.8	**109**	
Bromodichloromethane	79-125	20	18.6	**93**	
Bromoform	66-130	20	17.2	**86**	
Bromomethane	53-141	20	19.5	**97**	
Carbon Disulfide	64-133	20	20.8	**104**	
Carbon Tetrachloride	72-136	20	18.2	**91**	
Chlorobenzene	82-118	20	20.7	**104**	
Chlorodibromomethane	74-126	20	18.1	**91**	

Form 3B - Laboratory Control Sample Recovery

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

SAMPLENUM LCS-3846766

Volatiles by EPA 8260D

25240701			3846766		
Spike Matrix WQ	**Result Units** ug/L		**Run Date** 07/01/24 **Run Time** 09:53		
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q
Chloroethane	60-138	20	19.1	**96**	
Chloroform	79-124	20	20.8	**104**	
Chloromethane	50-139	20	19	**95**	
cis-1,2-Dichloroethene	78-123	20	20.5	**102**	
cis-1,3-Dichloropropene	75-124	20	18.6	**93**	
Dibromomethane	79-123	20	20.7	**104**	
Dichlorodifluoromethane	32-152	20	19.5	**97**	
Ethylbenzene	79-121	20	19.6	**98**	
Hexachlorobutadiene	66-134	20	21	**105**	
Isopropylbenzene	72-131	20	22.7	**114**	
Methylene Chloride	74-124	20	20.2	**101**	
mp-Xylene	80-121	40	39	**98**	
Naphthalene	61-128	20	18	**90**	
n-Butylbenzene	75-128	20	21.2	**106**	
n-Propylbenzene	76-126	20	21.7	**109**	
o-Chlorotoluene	79-122	20	21.4	**107**	
o-Xylene	78-122	20	19.5	**98**	
p-Chlorotoluene	78-122	20	21.8	**109**	
p-Isopropyltoluene	77-127	20	21.6	**108**	
sec-Butylbenzene	77-126	20	22.4	**112**	
Styrene	78-123	20	19.6	**98**	
tert-Butylbenzene	78-124	20	22.6	**113**	
Tetrachloroethene	74-129	20	20.7	**104**	
Toluene	80-121	20	19.6	**98**	
trans-1,2-Dichloroethene	75-124	20	20	**100**	
trans-1,3-Dichloropropene	73-127	20	18.9	**94**	
Trichloroethene	79-123	20	20.1	**100**	
Trichlorofluoromethane	65-141	20	19.1	**96**	
Vinyl Chloride	58-137	20	18.8	**94**	

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Form 4

Method Blank Summary

Volatiles by EPA 8260D

Workorder

3366030

Client

ALS Houston

Project

AHH138|HS24061313

07/18/2024

Form 4 - Method Blank Summary

Client	ALS Houston	Workorder	
Project	HS24061313 - AHH138	**3366030**	

Volatiles by EPA 8260D

METHOD BLANK	PrepDate / PrepBacth	Matrix	Analysis Date	Analysis Batch	Inst ID	Column
3845975		WQ	06/28/24 11:24	1236144	MS25	

Client Sample ID	Type	Lab Sample ID	2524062804.D	Analysis Date	Analysis Batch	Inst ID	Column
LCS for HBN 1236144 [VOMS/7365	LCS	3845976	2524062802.D	06/28/24 10:23	1236144	MS25	
Trip Blank	SAMPLE	3366030005	2524062805.D	06/28/24 11:45	1236144	MS25	

Form 4 - Method Blank Summary

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

METHOD BLANK	PrepDate / PrepBacth	Matrix	Analysis Date	Analysis Batch	Inst ID	Column
3846765		WQ	07/01/24 11:15	1238630	MS25	

Client Sample ID	Type	Lab Sample ID	2524070105.D	Analysis Date	Analysis Batch	Inst ID	Column
LCS for HBN 1238630 [VOMS/7367	LCS	3846766	2524070102.D	07/01/24 09:53	1238630	MS25	
18WW19_061924	SAMPLE	3366030001	2524070107.D	07/01/24 11:56	1238630	MS25	
18WW20_061924	SAMPLE	3366030002	2524070108.D	07/01/24 12:16	1238630	MS25	
18WW25_061924	SAMPLE	3366030003	2524070109.D	07/01/24 12:36	1238630	MS25	
125_061924	SAMPLE	3366030004	2524070110.D	07/01/24 12:57	1238630	MS25	
18WW19_061924MS	MS	3846786	2524070127.D	07/01/24 18:43	1238630	MS25	
18WW19_061924MSD	MSD	3846787	2524070128.D	07/01/24 19:04	1238630	MS25	

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Form 5

Instrument Performance Check

Volatiles by EPA 8260D

Workorder

3366030

Client

ALS Houston

Project

AHH138|HS24061313

07/18/2024

Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061313 - AHH138

Workorder 3366030

8260D

RUNID 25240625

Tune File 2524062500.D 06/25/24 09:52

m / e	Ion Abundance Criterion	%RA
95	Base Peak, 100% RA	100.00
50	15.00 - 40.00% of mass 95	16.72
75	30.00 - 60.00% of mass 95	46.71
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.49
175	5.00 - 9.00% of mass 174	7.88 (8.42)
176	95.00 - 101.00% of mass 174	92.80 (99.27)
177	5.00 - 9.00% of mass 176	5.61 (6.04)

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date	Lab File ID	Sample ID
1	1000	TUNE	06/25 09:52	2524062500	BFB
2	VSTD00.5	ICAL8	06/25 11:03	2524062503	LEVEL8
3	1234	ICAL1	06/25 11:23	2524062504	LEVEL1
4	1235	ICAL2	06/25 11:44	2524062505	LEVEL2
5	1236	ICAL3	06/25 12:04	2524062506	LEVEL3
6	1237	ICAL4	06/25 12:24	2524062507	LEVEL4
7	1238	ICAL5	06/25 12:45	2524062508	LEVEL5
8	1239	ICAL6	06/25 13:05	2524062509	LEVEL6
9	ICVQ	ICV	06/25 15:08	2524062515IC	ICV
10	1801	CCV	06/25 20:54	2524062532	CCV

Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

8260D

RUNID 25240628

Tune File 2524062800.D 06/28/24 09:00

m / e	Ion Abundance Criterion	%RA
95	Base Peak, 100% RA	100.00
50	15.00 - 40.00% of mass 95	18.49
75	30.00 - 60.00% of mass 95	47.66
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.39 (0.45)
174	Greater than 50.00% of mass 95	86.25
175	5.00 - 9.00% of mass 174	6.82 (7.91)
176	95.00 - 101.00% of mass 174	84.39 (97.84)
177	5.00 - 9.00% of mass 176	5.64 (6.69)

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date	Lab File ID	Sample ID
1	1000	TUNE	06/28 09:00	2524062800	BFB
2	1800	CCV	06/28 09:53	2524062801	CCV
3	3845976	LCS	06/28 10:23	2524062802	LCS for HBN 1236144
4	3845975	MB	06/28 11:24	2524062804	MB for HBN 1236144
5	3366030005	SAMP	06/28 11:45	2524062805	Trip Blank
6	1801	CCV	06/28 19:34	2524062829	CCV

Form 5 - Instrument Performance Check

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

RUNID 25240701

8260D

Tune File 2524070100.D 07/01/24 08:32

m / e	Ion Abundance Criterion	%RA
95	Base Peak, 100% RA	100.00
50	15.00 - 40.00% of mass 95	16.84
75	30.00 - 60.00% of mass 95	46.45
96	5.00 - 9.00% of mass 95	7.31
173	Less than 2.00% of mass 174	1.08 (1.19)
174	Greater than 50.00% of mass 95	91.10
175	5.00 - 9.00% of mass 174	7.87 (8.64)
176	95.00 - 101.00% of mass 174	87.45 (95.99)
177	5.00 - 9.00% of mass 176	5.80 (6.63)

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date	Lab File ID	Sample ID
1	1000	TUNE	07/01 08:32	2524070100	BFB
2	1800	CCV	07/01 09:22	2524070101	CCV
3	3846766	LCS	07/01 09:53	2524070102	LCS for HBN 1238630
4	3846765	MB	07/01 11:15	2524070105	MB for HBN 1238630
5	3366030001	SAMP	07/01 11:56	2524070107	18WW19_061924
6	3366030002	SAMP	07/01 12:16	2524070108	18WW20_061924
7	3366030003	SAMP	07/01 12:36	2524070109	18WW25_061924
8	3366030004	SAMP	07/01 12:57	2524070110	125_061924
9	3846786	MS	07/01 18:43	2524070127	18WW19_061924MS
10	3846787	MSD	07/01 19:04	2524070128	18WW19_061924MSD
11	1801	CCV	07/01 19:24	2524070129	CCV

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Form 6

Initial Calibration Data

Volatiles by EPA 8260D

Workorder

3366030

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AHH138|HS24061313

07/18/2024

Form 6 Initial Calibration Data

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

Instrument ID MS25
ICAL Start Date 25-JUN-2024 1103
ICAL End Date 25-JUN-2024 1305

Calibration Files

Level1 - 25240625.b\2524062504.D
Level2 - 25240625.b\2524062505.D
Level3 - 25240625.b\2524062506.D
Level4 - 25240625.b\2524062507.D
Level5 - 25240625.b\2524062508.D
Level6 - 25240625.b\2524062509.D
Level8 - 25240625.b\2524062503.D

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	0.405	0.265	0.329	0.304	0.329	0.359	0.333	AVRG		0.332		13.1	
Chloromethane	7701	10647	52986	186575	540092	1078871	2190978	WLINR	-0.004	3.46		0.999	
Vinyl Chloride	0.463	0.320	0.373	0.339	0.372	0.397	0.363	AVRG		0.375		12.3	
Bromomethane	6439	8135	37472	128221	348305	683038	1305713	WLINR	-0.015	5.62		0.998	
Chloroethane	7553	12457	49249	167849	473353	939865	1905246	WLINR	-0.010	3.97		0.999	
Pentane	13487	17356	50203	154298	429548	877950	1732989	WLINR	-0.035	4.37		0.998	
Trichlorofluoromethane	0.609	0.448	0.522	0.475	0.508	0.542	0.494	AVRG		0.514		10.1	
Dichlorofluoromethane	0.413	0.405	0.507	0.458	0.513	0.535	0.499	AVRG		0.476		10.8	
Ethyl Ether	0.128	0.122	0.144	0.145	0.157	0.162	0.155	AVRG		0.145		10.3	
1,1-Dichloroethene	0.259	0.260	0.297	0.272	0.302	0.325	0.306	AVRG		0.289		8.83	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Form 6 Initial Calibration Data

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 2 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Freon 113	0.174 0.182	0.216	0.188	0.213	0.232	0.216	AVRG		0.203		10.6	
Carbon Disulfide	0.587 0.536	0.603	0.575	0.670	0.715	0.672	AVRG		0.623		10.3	
Iodomethane	1008 2132	12856	55931	202377	423659	874390	WLINR	0.017	8.85		0.993	
Acrolein	0.048 0.040	0.046	0.044	0.049	0.051	0.049	AVRG		0.047		8.35	
Isopropyl Alcohol	3328 4784	13242	48509	143259	289391	563852	WLINR	-0.106	66.6		0.997	
3-Chloro-1-propene	3005 7346	45996	163615	502818	973704	1831594	WLINR	0.006	3.96		0.996	
Methylene Chloride	0.204 0.223	0.246	0.226	0.251	0.257	0.243	AVRG		0.236		7.97	
Acetone	0.027 0.028	0.025	0.024	0.026	0.027	0.025	AVRG		0.026		5.46	
Methyl acetate	2035 2657	9079	35525	106383	195422	401646	WLINR	-0.014	18.8		0.999	
trans-1,2-Dichloroethene	0.243 0.256	0.288	0.267	0.307	0.320	0.297	AVRG		0.283		9.97	
Hexane	15367 20884	86426	304896	870351	1762469	3534639	WLINR	-0.010	2.14		0.998	
Methyl t-Butyl Ether	9076 19555	120315	466744	1393184	2707334	5465615	WLINR	0.008	1.37		0.999	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Form 6 Initial Calibration Data

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 3 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
tert.- Butyl Alcohol	0.023 0.024	0.024	0.026	0.028	0.030	0.027	AVRG		0.026		9.72	
Acetonitrile	0.027 0.025	0.030	0.028	0.032	0.033	0.030	AVRG		0.029		9.61	
Diisopropyl ether	0.517 0.556	0.644	0.607	0.687	0.708	0.671	AVRG		0.627		11.2	
Chloroprene	0.270 0.264	0.311	0.307	0.352	0.368	0.354	AVRG		0.318		13.0	
1,1-Dichloroethane	0.324 0.332	0.404	0.365	0.421	0.436	0.414	AVRG		0.385		11.7	
Acrylonitrile	0.080 0.083	0.103	0.099	0.112	0.117	0.109	AVRG		0.100		14.2	
Ethyl tert-butyl ether	0.536 0.551	0.665	0.658	0.739	0.774	0.740	AVRG		0.666		14.0	
n-Propanol	0.014 0.012	0.012	0.011	0.012	0.013	0.012	AVRG		0.012		8.23	
Vinyl Acetate	715 1240	9677	38506	126310	244750	502264	WLINR	0.013	15.1		0.998	
cis-1,2-Dichloroethene	0.243 0.251	0.294	0.281	0.310	0.322	0.305	AVRG		0.287		10.5	
2,2-Dichloropropane	0.278 0.270	0.309	0.290	0.326	0.348	0.326	AVRG		0.307		9.34	
Bromochloromethane	0.100 0.098	0.128	0.124	0.141	0.142	0.132	AVRG		0.124		14.4	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Form 6 Initial Calibration Data

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 4 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Cyclohexane	0.329 0.306	0.344	0.316	0.354	0.389	0.369	AVRG		0.344		8.51	
Chloroform	0.360 0.344	0.430	0.401	0.451	0.476	0.447	AVRG		0.416		11.8	
Ethyl Acetate	6710 8670	42053	158992	472909	938737	1869543	WLINR	-0.003	4.02		0.998	
Methyl acrylate	0.213 0.191	0.223	0.224	0.250	0.265	0.249	AVRG		0.231		11.0	
Carbon Tetrachloride	2612 6249	45979	178993	556541	1141242	2364065	WLINR	0.014	3.24		0.997	
Tetrahydrofuran	0.069 0.063	0.068	0.066	0.075	0.078	0.074	AVRG		0.071		7.34	
1,1,1-Trichloroethane	0.253 0.278	0.325	0.318	0.355	0.376	0.359	AVRG		0.324		13.9	
2-Butanone	0.031 0.031	0.034	0.033	0.036	0.038	0.036	AVRG		0.034		7.73	
1,1-Dichloropropene	0.280 0.252	0.316	0.290	0.331	0.346	0.327	AVRG		0.306		10.9	
1-Chlorobutane	0.234 0.167	0.199	0.175	0.197	0.210	0.197	AVRG		0.197		11.3	
Heptane	0.195 0.160	0.183	0.158	0.175	0.194	0.179	AVRG		0.178		8.30	
Benzene	0.945 0.864	0.948	0.879	0.978	1.01	0.958	AVRG		0.941		5.62	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 5 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Propionitrile	0.030 0.035	0.037	0.037	0.042	0.043	0.041	AVRG		0.038		12.3	
Methacrylonitrile	0.114 0.085	0.106	0.111	0.125	0.130	0.125	AVRG		0.114		13.5	
tert-Amyl methyl ether	0.545 0.560	0.620	0.624	0.711	0.739	0.703	AVRG		0.643		11.8	
Isobutyl alcohol	394 1830	7621	34403	96464	211992	461252	WLINR	0.134	171		0.995	
1,2-Dichloroethane	0.291 0.272	0.298	0.275	0.315	0.318	0.301	AVRG		0.296		6.04	
tert-Amyl Alcohol	0.018 0.021	0.017	0.019	0.021	0.022	0.022	AVRG		0.020		10.2	
Diisobutylene	44441 50206	125872	376363	1061231	2168082	4304948	WLINR	-0.050	1.77		0.997	
Trichloroethene	0.246 0.210	0.231	0.215	0.254	0.260	0.251	AVRG		0.238		8.37	
Methyl cyclohexane	0.936 0.905	0.978	0.920	1.01	1.06	1.01	AVRG		0.973		5.67	
tert-Amyl Ethylether	7238 14413	87789	354280	1054026	2075694	4280148	WLINR	0.009	1.77		0.999	
Dibromomethane	0.130 0.125	0.145	0.149	0.166	0.172	0.166	AVRG		0.151		12.2	
1,2-Dichloropropane	0.194 0.200	0.226	0.217	0.245	0.257	0.245	AVRG		0.226		10.6	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 6 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	3592	7191	47880	189702	593498	1172803	2408792	WLINR	0.011	3.15		0.998	
Methyl methacrylate	0.136	0.162	0.172	0.171	0.197	0.213	0.203	AVRG		0.179		14.8	
1,4-Dioxane	0.004	0.003	0.004	0.003	0.004	0.004	0.003	AVRG		0.004		8.24	
2-Chloroethylvinyl ether	1903	3719	23423	95250	300617	612756	1290655	WLINR	0.012	5.99		0.997	
cis-1,3-Dichloropropene	4396	10566	57636	247573	767185	1499905	3091062	WLINR	0.009	0.980		0.999	
Octane	0.381	0.308	0.356	0.362	0.384	0.410	0.381	AVRG		0.369		8.64	
Toluene	1.73	1.41	1.46	1.37	1.56	1.55	1.47	AVRG		1.51		7.88	
Chloroacetonitrile	0.037	0.030	0.033	0.035	0.044	0.044	0.040	AVRG		0.038		13.5	
2-Nitropropane	3617	7049	42330	186383	593939	1224339	2564073	WLINR	0.062	6.01		0.997	
1,1-Dichloro-2-Propanone	307	649	4269	18693	56995	120735	244954	WLINR	0.065	62.2		0.997	
4-Methyl-2-Pentanone(MIBK)	15196	29113	187763	770302	2330999	4540988	8734882	WLINR	0.034	1.68		0.997	
trans-1,3-Dichloropropene	4340	8929	54063	223814	694418	1390540	2883334	WLINR	0.010	1.06		0.998	

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Workorder 3366030

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 7 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Tetrachloroethene	0.500	0.491	0.554	0.529	0.591	0.602	0.571	AVRG		0.548		7.93	
Ethyl Methacrylate	3766	8256	51147	223797	687236	1354483	2747208	WLINR	0.011	1.10		0.998	
1,1,2-Trichloroethane	0.376	0.441	0.466	0.457	0.514	0.508	0.476	AVRG		0.463		9.98	
Chlorodibromomethane	2392	5551	36996	154197	487189	980105	2002816	WLINR	0.012	1.51		0.998	
1,3-Dichloropropane	0.755	0.805	0.901	0.922	1.03	1.03	0.959	AVRG		0.914		11.4	
1,2-Dibromoethane	2751	6550	39025	153645	464742	921715	1854429	WLINR	0.008	1.62		0.999	
2-Hexanone	9727	21128	125367	515146	1586898	3096661	6043549	WLINR	0.037	2.44		0.997	
1-Chlorohexane	0.765	0.588	0.806	0.753	0.876	0.906	0.850	AVRG		0.792		13.4	
Chlorobenzene	1.35	1.32	1.54	1.50	1.69	1.71	1.63	AVRG		1.53		10.1	
Ethylbenzene	9240	13774	58271	219414	661770	1327438	2724522	WLINR	-0.004	1.12		0.999	
1,1,1,2-Tetrachloroethane	2323	4988	34773	142310	438151	867838	1749666	WLINR	0.011	1.72		0.998	
mp-Xylene	30052	36347	154227	535925	1603689	3168696	6367993	WLINR	-0.026	0.946		0.998	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 8 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
o-Xylene	1.26	0.946	0.920	0.903	1.05	1.06	1.00	AVRG		1.02		12.1	
Styrene	7432	15866	91709	391500	1227060	2454318	4976988	WLINR	0.010	0.560		0.998	
Bromoform	2337	3823	22861	102722	330003	690099	1437569	WLINR	0.012	1.98		0.996	
Isopropylbenzene	13069	26101	150199	566222	1751429	3465736	6796201	WLINR	0.005	0.403		0.999	
100 1,2-Dichloroethene, Total	0.243	0.253	0.291	0.274	0.309	0.321	0.301	AVRG		0.285		10.2	
Bromobenzene	0.641	0.641	0.707	0.668	0.747	0.787	0.773	AVRG		0.709		8.66	
n-Propylbenzene	0.744	0.602	0.698	0.672	0.764	0.805	0.793	AVRG		0.725		10.0	
1,1,2,2-Tetrachloroethane	0.581	0.580	0.693	0.706	0.776	0.804	0.795	AVRG		0.705		13.5	
o-Chlorotoluene	1.71	1.69	1.90	1.81	2.02	2.13	2.10	AVRG		1.91		9.40	
1,3,5-Trimethylbenzene	2.01	1.77	1.95	1.88	2.11	2.24	2.17	AVRG		2.02		8.23	
1,2,3-Trichloropropane	0.176	0.217	0.232	0.226	0.242	0.253	0.247	AVRG		0.227		11.4	
trans-1,4-Dichloro-2-butene	1054	1628	11562	47099	149889	297095	609147	WLINR	0.010	4.60		0.998	

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Workorder 3366030

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 9 / 10

Compound	0.500 Level 8 / 1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
p-Chlorotoluene	1.61 1.47	1.74	1.66	1.85	1.91	1.87	AVRG		1.73		9.23	
tert-Butylbenzene	0.416 0.378	0.501	0.481	0.528	0.544	0.531	AVRG		0.483		13.1	
Pentachloroethane	2125 4178	25931	104294	332675	667170	1367796	WLINR	0.010	2.05		0.998	
1,2,4-Trimethylbenzene	20714 27718	132392	488792	1510193	2964649	5884390	WLINR	-0.005	0.469		0.999	
sec-Butylbenzene	2.25 2.04	2.55	2.43	2.70	2.82	2.66	AVRG		2.49		11.0	
p-Isopropyltoluene	0.480 0.478	0.583	0.554	0.617	0.655	0.632	AVRG		0.571		12.4	
1,3-Dichlorobenzene	1.00 1.10	1.20	1.14	1.28	1.33	1.31	AVRG		1.19		10.0	
1,4-Dichlorobenzene	1.18 1.12	1.22	1.17	1.32	1.37	1.36	AVRG		1.25		8.19	
Benzyl Chloride	736 2620	12513	59767	194577	405519	867235	WLINR	0.016	3.32		0.994	
n-Butylbenzene	0.592 0.451	0.496	0.485	0.550	0.585	0.577	AVRG		0.534		10.5	
Hexachloroethane	1752 3087	20694	85914	284589	590317	1225691	WLINR	0.013	2.32		0.996	
1,2-Dichlorobenzene	0.945 1.03	1.12	1.10	1.22	1.27	1.27	AVRG		1.14		11.0	

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Form 6 Initial Calibration Data

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240625 25-8260b09D

Volatiles by EPA 8260D

ICAL Start Date 25-JUN-2024 11:03 **ICAL End Date** 25-JUN-2024 13:05 ICAL Summary Page 10 / 10

Compound	0.500 Level 8	1.00 Level 1	5.00 Level 2	20.0 Level 3	50.0 Level 4	100 Level 5	200 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,2-Dibromo-3-chloropropane	380	1191	6452	27852	86909	187226	386483	WLINR	0.014	7.36		0.996	
Nitrobenzene	1713	3058	15593	74725	289112	699975	1663438	QUAD	0.000e+000	0.039	0.000	0.999	
Hexachlorobutadiene	1952	2971	21249	82540	257277	520622	1058167	WLINR	0.008	2.64		0.998	
120 1,3-Dichloropropene, Total	8736	19495	111699	471387	1461603	2890445	5974396	WLINR	0.019	1.02		0.999	
1,2,4-Trichlorobenzene	0.674	0.641	0.693	0.697	0.816	0.878	0.878	AVRG		0.754		13.3	
121 Total Xylenes	38742	49625	219745	785145	2376968	4684805	9434263	WLINR	-0.027	0.958		0.998	
Naphthalene	10056	18088	109460	463248	1514181	3095315	6235557	WLINR	0.011	0.448		0.997	
1,2,3-Trichlorobenzene	3948	7150	45198	178753	573042	1155326	2411703	WLINR	0.010	1.17		0.997	
41 Dibromofluoromethane	0.230	0.233	0.243	0.235	0.237	0.242	0.236	AVRG		0.237		2.04	
51 1,2-Dichloroethane-d4	0.258	0.252	0.264	0.250	0.241	0.250	0.232	AVRG		0.250		4.18	
68 Toluene-d8	2.47	2.39	2.46	2.43	2.35	2.34	2.19	AVRG		2.38		4.06	
92 4-Bromofluorobenzene	0.858	0.818	0.847	0.853	0.782	0.857	0.795	AVRG		0.830		3.81	

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260D

Workorder

3366030

Client

ALS Houston

Project

AHH138|HS24061313

07/18/2024

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

8260D

RunID 25240625_2524062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	20.0	20.7	103	80-120	
Chloromethane	20.0	19.5	97.7	80-120	
Vinyl Chloride	20.0	20.4	102	80-120	
Bromomethane	20.0	20.3	102	80-120	
Chloroethane	20.0	21.2	106	80-120	
Pentane	20.0	20.7	104	80-120	
Trichlorofluoromethane	20.0	20.4	102	80-120	
Dichlorofluoromethane	20.0	23.2	116	80-120	
Ethyl Ether	20.0	21.6	108	80-120	
1,1-Dichloroethene	20.0	22.8	114	80-120	
Freon 113	20.0	22.8	114	80-120	
Carbon Disulfide	20.0	21.7	108	80-120	
Iodomethane	20.0	16.8	84.0	80-120	
Acrolein	150	159	106	80-120	
Isopropyl Alcohol	100	103	103	80-120	
3-Chloro-1-propene	20.0	22.9	115	80-120	
Methylene Chloride	20.0	22.3	111	80-120	
Acetone	100	107	107	80-120	
Methyl acetate	20.0	21.2	106	80-120	
trans-1,2-Dichloroethene	20.0	23.0	115	80-120	
Hexane	20.0	20.9	105	80-120	
Methyl t-Butyl Ether	20.0	20.7	103	80-120	
tert.- Butyl Alcohol	100	112	112	80-120	
Acetonitrile	100	111	111	80-120	
Diisopropyl ether	20.0	22.5	113	80-120	
Chloroprene	20.0	22.9	114	80-120	
1,1-Dichloroethane	20.0	22.6	113	80-120	
Acrylonitrile	100	114	114	80-120	
Ethyl tert-butyl ether	20.0	23.2	116	80-120	
n-Propanol	200	208	104	80-120	
Vinyl acetate	20.0	18.9	94.5	80-120	
cis-1,2-Dichloroethene	20.0	22.6	113	80-120	
2,2-Dichloropropane	20.0	20.5	103	80-120	
Bromochloromethane	20.0	23.4	117	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

8260D

RunID 25240625_2524062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	20.0	22.6	113	80-120	
Chloroform	20.0	22.8	114	80-120	
Ethyl acetate	20.0	20.0	99.9	80-120	
Methyl acrylate	20.0	22.6	113	80-120	
Carbon Tetrachloride	20.0	19.7	98.3	80-120	
Tetrahydrofuran	100	106	106	80-120	
1,1,1-Trichloroethane	20.0	23.6	118	80-120	
2-Butanone	100	110	110	80-120	
1,1-Dichloropropene	20.0	22.3	112	80-120	
1-Chlorobutane	20.0	21.5	107	80-120	
Heptane	20.0	20.9	104	80-120	
Benzene	20.0	21.5	108	80-120	
Propionitrile	100	111	111	80-120	
Methacrylonitrile	20.0	22.2	111	80-120	
tert-amyl methyl E	20.0	23.0	115	80-120	
1,2-Dichloroethane	20.0	21.8	109	80-120	
tert-Amyl Alcohol	100	114	114	80-120	
Isobutyl alcohol	200	164	81.8	80-120	
Diisobutylene	20.0	20.4	102	80-120	
Trichloroethene	20.0	21.8	109	80-120	
Methyl cyclohexane	20.0	21.9	110	80-120	
tert-Amyl Ethylether	20.0	19.7	98.5	80-120	
Dibromomethane	20.0	22.3	112	80-120	
1,2-Dichloropropane	20.0	22.4	112	80-120	
Bromodichloromethane	20.0	20.4	102	80-120	
Methyl methacrylate	20.0	22.0	110	80-120	
1,4-Dioxane	500	0.000		80-120	*
2-Chloroethylvinyl ether	20.0	19.9	99.7	80-120	
cis-1,3-Dichloropropene	20.0	19.6	98.0	80-120	
Octane	20.0	22.0	110	80-120	
Toluene	20.0	21.0	105	80-120	
Chloroacetonitrile	100	117	117	80-120	
2-Nitropropane	100	93.1	93.1	80-120	
1,1-Dichloro-2-pro	100	97.1	97.1	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

8260D

RunID 25240625_2524062515ICVQ.D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	100	110	110	80-120	
Tetrachloroethene	20.0	22.0	110	80-120	
trans-1,3-Dichloropropene	20.0	20.0	100	80-120	
Ethyl methacrylate	20.0	19.8	99.0	80-120	
1,1,2-Trichloroethane	20.0	22.3	111	80-120	
Chlorodibromomethane	20.0	19.4	97.2	80-120	
1,3-Dichloropropane	20.0	22.8	114	80-120	
1,2-Dibromoethane	20.0	20.1	101	80-120	
2-Hexanone	100	108	108	80-120	
1-Chlorohexane	20.0	22.6	113	80-120	
Chlorobenzene	20.0	21.9	110	80-120	
Ethylbenzene	20.0	20.9	104	80-120	
1,1,1,2-Tetrachloroethane	20.0	20.2	101	80-120	
mp-Xylene	40.0	41.2	103	80-120	
o-Xylene	20.0	20.3	102	80-120	
Styrene	20.0	21.1	106	80-120	
Bromoform	20.0	18.5	92.7	80-120	
Isopropylbenzene	20.0	23.7	119	80-120	
Bromobenzene	20.0	21.4	107	80-120	
n-Propylbenzene	20.0	21.8	109	80-120	
1,1,2,2-Tetrachloroethane	20.0	22.5	112	80-120	
o-Chlorotoluene	20.0	21.9	109	80-120	
1,3,5-Trimethylbenzene	20.0	21.6	108	80-120	
1,2,3-Trichloropropane	20.0	22.1	110	80-120	
trans-1,4-Dichloro-2-butene	20.0	19.7	98.7	80-120	
1,2-Dichloroethene, Total	40.0	45.5	114	80-120	
p-Chlorotoluene	20.0	22.1	110	80-120	
tert-Butylbenzene	20.0	22.7	113	80-120	
Pentachloroethane	20.0	17.9	89.4	80-120	
1,2,4-Trimethylbenzene	20.0	20.6	103	80-120	
sec-Butylbenzene	20.0	22.8	114	80-120	
p-Isopropyltoluene	20.0	21.9	110	80-120	
1,3-Dichlorobenzene	20.0	22.3	112	80-120	
1,4-Dichlorobenzene	20.0	21.9	109	80-120	

Form 6I Initial Calibration Verification (ICV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240625_2524062515ICVQ.D

8260D

Sample Matrix LIQUID
Lab Smp Id ICVQ
Data Type MS DATA
File ID 2524062515ICVQ.D
Fraction VOA
SampleType ICV
Inj Date 25-JUN-2024 1508

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	20.0	16.0	80.2	80-120	
n-Butylbenzene	20.0	21.4	107	80-120	
Hexachloroethane	20.0	18.6	93.2	80-120	
1,2-Dichlorobenzene	20.0	22.3	112	80-120	
1,2-Dibromo-3-chloropropane	20.0	18.2	91.2	80-120	
Nitrobenzene	200	166	82.9	80-120	
Hexachlorobutadiene	20.0	21.0	105	80-120	
1,2,4-Trichlorobenzene	20.0	23.4	117	80-120	
Naphthalene	20.0	19.8	99.1	80-120	
1,2,3-Trichlorobenzene	20.0	19.3	96.6	80-120	
1,3-Dichloropropene, Total	40.0	39.6	99.1	80-120	
121 TOTAL XYLENES	60.0	61.5	103	80-120	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260D

Workorder

3366030

Client

ALS Houston

Project

AHH138|HS24061313

07/18/2024

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

8260D

RunID 25240625_2524062532.D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062532.D
Fraction VOA
SampleType ENDCCV
Inj Date 25-JUN-2024 2054

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	50.0	45.8	91.7	50-150	
Chloromethane	50.0	47.9	95.8	50-150	
Vinyl Chloride	50.0	46.9	93.7	50-150	
Bromomethane	50.0	53.2	106	50-150	
Chloroethane	50.0	46.3	92.6	50-150	
Pentane	50.0	40.0	79.9	50-150	
Trichlorofluoromethane	50.0	45.7	91.3	50-150	
Dichlorofluoromethane	50.0	52.8	106	50-150	
Ethyl Ether	50.0	54.6	109	50-150	
1,1-Dichloroethene	50.0	51.0	102	50-150	
Freon 113	50.0	48.1	96.2	50-150	
Carbon Disulfide	50.0	51.0	102	50-150	
Iodomethane	50.0	47.1	94.3	50-150	
Acrolein	250	254	102	50-150	
Isopropyl Alcohol	250	251	100	50-150	
3-Chloro-1-propene	50.0	50.4	101	50-150	
Methylene Chloride	50.0	53.9	108	50-150	
Acetone	250	249	99.7	50-150	
Methyl acetate	50.0	54.7	109	50-150	
trans-1,2-Dichloroethene	50.0	53.1	106	50-150	
Hexane	50.0	43.8	87.6	50-150	
Methyl t-Butyl Ether	50.0	50.6	101	50-150	
tert.- Butyl Alcohol	250	274	110	50-150	
Acetonitrile	250	278	111	50-150	
Diisopropyl ether	50.0	55.6	111	50-150	
Chloroprene	50.0	53.9	108	50-150	
1,1-Dichloroethane	50.0	53.6	107	50-150	
Acrylonitrile	250	283	113	50-150	
n-Propanol	500	513	102	50-150	
Ethyl tert-butyl ether	50.0	56.5	113	50-150	
Vinyl acetate	50.0	46.7	93.4	50-150	
cis-1,2-Dichloroethene	50.0	53.7	107	50-150	
2,2-Dichloropropane	50.0	42.1	84.2	50-150	
Bromochloromethane	50.0	56.9	114	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

8260D

RunID 25240625_2524062532.D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062532.D
Fraction VOA
SampleType ENDCCV
Inj Date 25-JUN-2024 2054

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	50.0	49.3	98.6	50-150	
Chloroform	50.0	54.7	109	50-150	
Ethyl acetate	50.0	49.9	99.8	50-150	
Methyl acrylate	50.0	55.4	111	50-150	
Carbon Tetrachloride	50.0	47.3	94.7	50-150	
Tetrahydrofuran	250	270	108	50-150	
1,1,1-Trichloroethane	50.0	53.4	107	50-150	
2-Butanone	250	267	107	50-150	
1,1-Dichloropropene	50.0	51.0	102	50-150	
1-Chlorobutane	50.0	49.9	99.8	50-150	
Heptane	50.0	39.4	78.7	50-150	
Benzene	50.0	51.1	102	50-150	
Propionitrile	250	283	113	50-150	
Methacrylonitrile	50.0	55.2	110	50-150	
tert-amyl methyl E	50.0	57.1	114	50-150	
Isobutyl alcohol	500	561	112	50-150	
1,2-Dichloroethane	50.0	53.0	106	50-150	
tert-Amyl Alcohol	250	262	105	50-150	
Diisobutylene	50.0	44.4	88.7	50-150	
Trichloroethene	50.0	50.4	101	50-150	
Methyl cyclohexane	50.0	48.8	97.6	50-150	
tert-Amyl Ethylether	50.0	50.1	100	50-150	
Dibromomethane	50.0	55.5	111	50-150	
1,2-Dichloropropane	50.0	54.7	109	50-150	
Bromodichloromethane	50.0	49.5	98.9	50-150	
Methyl methacrylate	50.0	57.5	115	50-150	
1,4-Dioxane	1250	0.000		50-150	*
2-Chloroethylvinyl ether	50.0	47.8	95.6	50-150	
cis-1,3-Dichloropropene	50.0	50.9	102	50-150	
Octane	50.0	42.0	84.0	50-150	
Toluene	50.0	51.8	104	50-150	
Chloroacetonitrile	250	281	112	50-150	
2-Nitropropane	250	256	102	50-150	
1,1-Dichloro-2-pro	250	256	102	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

8260D

RunID 25240625_2524062532.D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062532.D
Fraction VOA
SampleType ENDCCV
Inj Date 25-JUN-2024 2054

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	250	281	112	50-150	
Tetrachloroethene	50.0	56.5	113	50-150	
trans-1,3-Dichloropropene	50.0	50.6	101	50-150	
Ethyl methacrylate	50.0	53.6	107	50-150	
1,1,2-Trichloroethane	50.0	56.9	114	50-150	
Chlorodibromomethane	50.0	52.1	104	50-150	
1,2-Dibromoethane	50.0	53.2	106	50-150	
2-Hexanone	250	274	110	50-150	
1-Chlorohexane	50.0	51.6	103	50-150	
1,3-Dichloropropane	50.0	58.3	117	50-150	
Chlorobenzene	50.0	56.5	113	50-150	
Ethylbenzene	50.0	50.6	101	50-150	
1,1,1,2-Tetrachloroethane	50.0	52.2	104	50-150	
mp-Xylene	100	102	102	50-150	
o-Xylene	50.0	51.3	103	50-150	
Styrene	50.0	52.2	104	50-150	
Bromoform	50.0	50.1	100	50-150	
Isopropylbenzene	50.0	51.0	102	50-150	
Bromobenzene	50.0	56.0	112	50-150	
n-Propylbenzene	50.0	53.9	108	50-150	
1,1,2,2-Tetrachloroethane	50.0	58.6	117	50-150	
o-Chlorotoluene	50.0	56.1	112	50-150	
1,2-Dichloroethene, Total	100	107	107	50-150	
1,3,5-Trimethylbenzene	50.0	54.4	109	50-150	
1,2,3-Trichloropropane	50.0	56.6	113	50-150	
trans-1,4-Dichloro-2-butene	50.0	48.2	96.4	50-150	
p-Chlorotoluene	50.0	56.0	112	50-150	
tert-Butylbenzene	50.0	55.8	112	50-150	
Pentachloroethane	50.0	46.2	92.4	50-150	
1,2,4-Trimethylbenzene	50.0	51.6	103	50-150	
sec-Butylbenzene	50.0	55.7	111	50-150	
p-Isopropyltoluene	50.0	54.1	108	50-150	
1,3-Dichlorobenzene	50.0	55.9	112	50-150	
1,4-Dichlorobenzene	50.0	54.6	109	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240625_2524062532.D

8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062532.D
Fraction VOA
SampleType ENDCCV
Inj Date 25-JUN-2024 2054

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	50.0	34.2	68.3	50-150	
n-Butylbenzene	50.0	50.8	102	50-150	
Hexachloroethane	50.0	48.1	96.3	50-150	
1,2-Dichlorobenzene	50.0	57.3	115	50-150	
1,2-Dibromo-3-chloropropane	50.0	50.8	102	50-150	
Nitrobenzene	500	476	95.2	50-150	
Hexachlorobutadiene	50.0	45.4	90.8	50-150	
1,2,4-Trichlorobenzene	50.0	55.8	112	50-150	
Naphthalene	50.0	50.7	101	50-150	
1,3-Dichloropropene, Total	100	102	102	50-150	
1,2,3-Trichlorobenzene	50.0	49.2	98.4	50-150	
121 TOTAL XYLENES	150	154	102	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	0.332	0.302	0.302	0.010	-8.879	20.0	Averaged	
Chloromethane	50.0	49.7	3.47	0.100	-0.611	20.0	Wt Linear	
Vinyl Chloride	0.375	0.360	0.360	0.010	-4.127	20.0	Averaged	
Bromomethane	50.0	53.3	5.23	0.010	6.60	20.0	Wt Linear	
Chloroethane	50.0	47.7	4.13	0.010	-4.558	20.0	Wt Linear	
Pentane	50.0	42.7	4.99	0.010	-14.592	20.0	Wt Linear	
Trichlorofluoromethane	0.514	0.484	0.484	0.010	-5.829	20.0	Averaged	
Dichlorofluoromethane	0.476	0.485	0.485	0.010	1.99	20.0	Averaged	
Ethyl Ether	0.145	0.150	0.150	0.010	3.69	20.0	Averaged	
1,1-Dichloroethene	0.289	0.281	0.281	0.010	-2.585	20.0	Averaged	
Carbon Disulfide	0.623	0.613	0.613	0.010	-1.488	20.0	Averaged	
Freon 113	0.203	0.195	0.195	0.010	-4.043	20.0	Averaged	
Iodomethane	50.0	49.3	9.06	0.010	-1.320	20.0	Wt Linear	
Acrolein	0.047	0.046	0.046	0.000	-2.012	20.0	Averaged	
3-Chloro-1-propene	50.0	48.7	4.08	0.010	-2.589	20.0	Wt Linear	
Isopropyl Alcohol	250	260	63.2	0.000	4.10	20.0	Wt Linear	
Methylene Chloride	0.236	0.240	0.240	0.010	2.01	20.0	Averaged	
Acetone	0.026	0.025	0.025	0.000	-4.078	20.0	Averaged	
Methyl acetate	50.0	47.2	19.7	0.005	-5.627	20.0	Wt Linear	
trans-1,2-Dichloroethene	0.283	0.291	0.291	0.010	3.10	20.0	Averaged	
Hexane	50.0	47.2	2.25	0.010	-5.689	20.0	Wt Linear	
Methyl t-Butyl Ether	50.0	48.8	1.41	0.010	-2.310	20.0	Wt Linear	
tert.- Butyl Alcohol	0.026	0.027	0.027	0.000	1.79	20.0	Averaged	
Acetonitrile	0.029	0.031	0.031	0.000	6.86	20.0	Averaged	
Diisopropyl ether	0.627	0.672	0.672	0.010	7.17	20.0	Averaged	
Chloroprene	0.318	0.339	0.339	0.010	6.60	20.0	Averaged	
1,1-Dichloroethane	0.385	0.403	0.403	0.100	4.63	20.0	Averaged	
Acrylonitrile	0.100	0.109	0.109	0.000	8.82	20.0	Averaged	
n-Propanol	0.012	0.012	0.012	0.000	-0.496	20.0	Averaged	
Ethyl tert-butyl ether	0.666	0.723	0.723	0.010	8.53	20.0	Averaged	
Vinyl Acetate	50.0	46.7	16.3	0.010	-6.686	20.0	Wt Linear	
cis-1,2-Dichloroethene	0.287	0.298	0.298	0.010	3.96	20.0	Averaged	
2,2-Dichloropropane	0.307	0.313	0.313	0.010	1.98	20.0	Averaged	
100 1,2-Dichloroethene, Total	0.285	0.295	0.295	0.010	3.53	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromochloromethane	0.124	0.130	0.130	0.010	5.53	20.0	Averaged	
Cyclohexane	0.344	0.333	0.333	0.010	-3.269	20.0	Averaged	
Chloroform	0.416	0.421	0.421	0.010	1.18	20.0	Averaged	
Ethyl Acetate	50.0	48.1	4.17	0.010	-3.868	20.0	Wt Linear	
Methyl acrylate	0.231	0.242	0.242	0.010	4.96	20.0	Averaged	
Carbon Tetrachloride	50.0	43.2	3.79	0.010	-13.502	20.0	Wt Linear	
Tetrahydrofuran	0.071	0.073	0.073	0.000	3.00	20.0	Averaged	
41 Dibromofluoromethane	0.237	0.231	0.231	0.010	-2.368	20.0	Averaged	
1,1,1-Trichloroethane	0.324	0.332	0.332	0.010	2.45	20.0	Averaged	
2-Butanone	0.034	0.034	0.034	0.000	-0.537	20.0	Averaged	
1,1-Dichloropropene	0.306	0.310	0.310	0.010	1.39	20.0	Averaged	
1-Chlorobutane	0.197	0.192	0.192	0.010	-2.569	20.0	Averaged	
Heptane	0.178	0.170	0.170	0.000	-4.544	20.0	Averaged	
Propionitrile	0.038	0.041	0.041	0.000	8.82	20.0	Averaged	
Benzene	0.941	0.927	0.927	0.010	-1.505	20.0	Averaged	
Methacrylonitrile	0.114	0.120	0.120	0.010	5.09	20.0	Averaged	
tert-Amyl methyl ether	0.643	0.696	0.696	0.010	8.28	20.0	Averaged	
51 1,2-Dichloroethane-d4	0.250	0.241	0.241	0.010	-3.351	20.0	Averaged	
Isobutyl alcohol	500	518	167	0.000	3.63	20.0	Wt Linear	
1,2-Dichloroethane	0.296	0.303	0.303	0.010	2.58	20.0	Averaged	
tert-Amyl Alcohol	0.020	0.021	0.021	0.002	3.10	20.0	Averaged	
Diisobutylene	50.0	46.3	1.86	0.010	-7.457	20.0	Wt Linear	
Trichloroethene	0.238	0.240	0.240	0.010	0.953	20.0	Averaged	
Methyl cyclohexane	0.973	0.964	0.964	0.005	-0.977	20.0	Averaged	
tert-Amyl Ethylether	50.0	48.6	1.83	0.010	-2.709	20.0	Wt Linear	
Dibromomethane	0.151	0.158	0.158	0.010	5.09	20.0	Averaged	
1,2-Dichloropropane	0.226	0.237	0.237	0.010	4.87	20.0	Averaged	
Bromodichloromethane	50.0	46.6	3.41	0.010	-6.786	20.0	Wt Linear	
Methyl methacrylate	0.179	0.194	0.194	0.010	8.44	20.0	Averaged	
2-Chloroethylvinyl ether	50.0	46.7	6.46	0.010	-6.596	20.0	Wt Linear	
cis-1,3-Dichloropropene	50.0	49.7	0.992	0.010	-0.656	20.0	Wt Linear	
Octane	0.369	0.376	0.376	0.010	1.88	20.0	Averaged	
68 Toluene-d8	2.38	2.35	2.35	0.010	-0.993	20.0	Averaged	
Toluene	1.51	1.46	1.46	0.010	-2.952	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroacetonitrile	0.038	0.039	0.039	0.000	4.84	20.0	Averaged	
2-Nitropropane	250	236	6.42	0.005	-5.570	20.0	Wt Linear	
1,1-Dichloro-2-Propanone	250	240	65.2	0.001	-3.900	20.0	Wt Linear	
4-Methyl-2-Pentanone(MIBK)	250	260	1.62	0.010	4.00	20.0	Wt Linear	
trans-1,3-Dichloropropene	50.0	48.6	1.09	0.010	-2.794	20.0	Wt Linear	
Tetrachloroethene	0.548	0.546	0.546	0.010	-0.447	20.0	Averaged	
Ethyl Methacrylate	50.0	49.9	1.10	0.010	-0.236	20.0	Wt Linear	
1,1,2-Trichloroethane	0.463	0.495	0.495	0.010	6.99	20.0	Averaged	
Chlorodibromomethane	50.0	47.2	1.62	0.010	-5.589	20.0	Wt Linear	
1,3-Dichloropropane	0.914	0.994	0.994	0.010	8.79	20.0	Averaged	
1,2-Dibromoethane	50.0	48.5	1.67	0.010	-2.917	20.0	Wt Linear	
2-Hexanone	250	256	2.39	0.010	2.48	20.0	Wt Linear	
1-Chlorohexane	0.792	0.824	0.824	0.010	4.07	20.0	Averaged	
Ethylbenzene	50.0	47.4	1.18	0.010	-5.139	20.0	Wt Linear	
Chlorobenzene	1.53	1.60	1.60	0.300	4.58	20.0	Averaged	
1,1,1,2-Tetrachloroethane	50.0	47.8	1.81	0.010	-4.476	20.0	Wt Linear	
mp-Xylene	100	96.9	0.969	0.010	-3.103	20.0	Wt Linear	
120 1,3-Dichloropropene, Total	100	98.3	1.04	0.010	-1.725	20.0	Wt Linear	
o-Xylene	1.02	0.985	0.985	0.010	-3.560	20.0	Averaged	
Styrene	50.0	49.2	0.572	0.010	-1.545	20.0	Wt Linear	
Bromoform	50.0	45.1	2.21	0.100	-9.774	20.0	Wt Linear	
Isopropylbenzene	50.0	49.5	0.408	0.010	-1.025	20.0	Wt Linear	
92 4-Bromofluorobenzene	0.830	0.810	0.810	0.010	-2.393	20.0	Averaged	
121 Total Xylenes	150	145	0.984	0.010	-3.255	20.0	Wt Linear	
n-Propylbenzene	0.725	0.754	0.754	0.010	3.94	20.0	Averaged	
Bromobenzene	0.709	0.735	0.735	0.010	3.64	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.705	0.770	0.770	0.300	9.18	20.0	Averaged	
1,3,5-Trimethylbenzene	2.02	2.13	2.13	0.010	5.40	20.0	Averaged	
o-Chlorotoluene	1.91	2.05	2.05	0.010	7.37	20.0	Averaged	
1,2,3-Trichloropropane	0.227	0.242	0.242	0.010	6.49	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	49.0	4.72	0.010	-1.967	20.0	Wt Linear	
p-Chlorotoluene	1.73	1.86	1.86	0.010	7.54	20.0	Averaged	
tert-Butylbenzene	0.483	0.516	0.516	0.010	6.94	20.0	Averaged	
Pentachloroethane	50.0	48.0	2.15	0.010	-3.906	20.0	Wt Linear	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240628_2524062801.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524062801.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 28-JUN-2024 0953
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2,4-Trimethylbenzene	50.0	49.6	0.472	0.010	-0.882	20.0	Wt Linear	
sec-Butylbenzene	2.49	2.71	2.71	0.010	8.57	20.0	Averaged	
p-Isopropyltoluene	0.571	0.617	0.617	0.010	7.98	20.0	Averaged	
1,3-Dichlorobenzene	1.19	1.26	1.26	0.010	5.45	20.0	Averaged	
1,4-Dichlorobenzene	1.25	1.29	1.29	0.010	3.57	20.0	Averaged	
n-Butylbenzene	0.534	0.561	0.561	0.010	5.06	20.0	Averaged	
Benzyl Chloride	50.0	45.9	3.65	0.010	-8.113	20.0	Wt Linear	
Hexachloroethane	50.0	44.6	2.62	0.010	-10.770	20.0	Wt Linear	
1,2-Dichlorobenzene	1.14	1.21	1.21	0.010	5.89	20.0	Averaged	
1,2-Dibromo-3-chloropropane	50.0	46.8	7.93	0.010	-6.458	20.0	Wt Linear	
Nitrobenzene	500	446	25.7	0.000	-10.731	20.0	Quadratic	
Hexachlorobutadiene	50.0	47.6	2.79	0.000	-4.752	20.0	Wt Linear	
1,2,4-Trichlorobenzene	0.754	0.822	0.822	0.010	9.10	20.0	Averaged	
Naphthalene	50.0	47.3	0.477	0.010	-5.351	20.0	Wt Linear	
1,2,3-Trichlorobenzene	50.0	46.6	1.27	0.010	-6.879	20.0	Wt Linear	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	50.0	45.7	91.4	50-150	
Chloromethane	50.0	50.1	100	50-150	
Vinyl Chloride	50.0	47.3	94.7	50-150	
Bromomethane	50.0	57.6	115	50-150	
Chloroethane	50.0	47.5	95.1	50-150	
Pentane	50.0	38.5	77.1	50-150	
Trichlorofluoromethane	50.0	45.8	91.7	50-150	
Dichlorofluoromethane	50.0	49.6	99.2	50-150	
Ethyl Ether	50.0	50.1	100	50-150	
1,1-Dichloroethene	50.0	47.8	95.6	50-150	
Freon 113	50.0	45.4	90.8	50-150	
Carbon Disulfide	50.0	47.1	94.2	50-150	
Iodomethane	50.0	45.4	90.9	50-150	
Acrolein	250	230	92.0	50-150	
Isopropyl Alcohol	250	248	99.3	50-150	
3-Chloro-1-propene	50.0	46.8	93.6	50-150	
Methylene Chloride	50.0	48.9	97.9	50-150	
Acetone	250	236	94.2	50-150	
Methyl acetate	50.0	46.6	93.2	50-150	
trans-1,2-Dichloroethene	50.0	49.4	98.9	50-150	
Hexane	50.0	42.5	85.0	50-150	
Methyl t-Butyl Ether	50.0	47.1	94.1	50-150	
tert.- Butyl Alcohol	250	252	101	50-150	
Acetonitrile	250	272	109	50-150	
Diisopropyl ether	50.0	53.2	106	50-150	
Chloroprene	50.0	52.7	105	50-150	
1,1-Dichloroethane	50.0	52.1	104	50-150	
Acrylonitrile	250	267	107	50-150	
n-Propanol	500	505	101	50-150	
Ethyl tert-butyl ether	50.0	53.4	107	50-150	
Vinyl acetate	50.0	43.6	87.2	50-150	
cis-1,2-Dichloroethene	50.0	51.2	102	50-150	
2,2-Dichloropropane	50.0	39.6	79.1	50-150	
Bromochloromethane	50.0	51.8	104	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	50.0	47.1	94.1	50-150	
Chloroform	50.0	51.4	103	50-150	
Ethyl acetate	50.0	47.9	95.9	50-150	
Methyl acrylate	50.0	52.1	104	50-150	
Carbon Tetrachloride	50.0	44.4	88.8	50-150	
Tetrahydrofuran	250	261	104	50-150	
1,1,1-Trichloroethane	50.0	50.8	102	50-150	
2-Butanone	250	248	99.1	50-150	
1,1-Dichloropropene	50.0	48.9	97.8	50-150	
1-Chlorobutane	50.0	48.7	97.4	50-150	
Heptane	50.0	38.7	77.3	50-150	
Benzene	50.0	48.9	97.9	50-150	
Propionitrile	250	276	110	50-150	
Methacrylonitrile	50.0	52.8	106	50-150	
tert-amyl methyl E	50.0	53.2	106	50-150	
Isobutyl alcohol	500	669	134	50-150	
1,2-Dichloroethane	50.0	49.9	99.9	50-150	
tert-Amyl Alcohol	250	244	97.8	50-150	
Diisobutylene	50.0	44.9	89.7	50-150	
Trichloroethene	50.0	47.5	95.0	50-150	
Methyl cyclohexane	50.0	44.4	88.8	50-150	
tert-Amyl Ethylether	50.0	47.5	95.0	50-150	
Dibromomethane	50.0	51.8	104	50-150	
1,2-Dichloropropane	50.0	52.4	105	50-150	
Bromodichloromethane	50.0	45.5	91.1	50-150	
Methyl methacrylate	50.0	53.7	107	50-150	
1,4-Dioxane	1250	0.000		50-150	*
2-Chloroethylvinyl ether	50.0	45.8	91.6	50-150	
cis-1,3-Dichloropropene	50.0	43.9	87.8	50-150	
Octane	50.0	38.3	76.7	50-150	
Toluene	50.0	44.8	89.5	50-150	
Chloroacetonitrile	250	247	98.8	50-150	
2-Nitropropane	250	225	89.9	50-150	
1,1-Dichloro-2-pro	250	219	87.5	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	250	250	100	50-150	
Tetrachloroethene	50.0	47.4	94.9	50-150	
trans-1,3-Dichloropropene	50.0	43.5	87.0	50-150	
Ethyl methacrylate	50.0	46.5	93.0	50-150	
1,1,2-Trichloroethane	50.0	49.0	98.0	50-150	
Chlorodibromomethane	50.0	43.5	87.0	50-150	
1,2-Dibromoethane	50.0	45.4	90.8	50-150	
2-Hexanone	250	245	98.1	50-150	
1-Chlorohexane	50.0	46.6	93.2	50-150	
1,3-Dichloropropane	50.0	50.5	101	50-150	
Chlorobenzene	50.0	47.5	95.0	50-150	
Ethylbenzene	50.0	43.5	87.0	50-150	
1,1,1,2-Tetrachloroethane	50.0	44.1	88.3	50-150	
mp-Xylene	100	87.1	87.0	50-150	
o-Xylene	50.0	44.4	88.8	50-150	
Styrene	50.0	48.9	97.7	50-150	
Bromoform	50.0	44.5	88.9	50-150	
Isopropylbenzene	50.0	48.9	97.8	50-150	
Bromobenzene	50.0	51.0	102	50-150	
n-Propylbenzene	50.0	50.8	102	50-150	
1,1,2,2-Tetrachloroethane	50.0	55.0	110	50-150	
o-Chlorotoluene	50.0	52.6	105	50-150	
1,2-Dichloroethene, Total	100	101	101	50-150	
1,3,5-Trimethylbenzene	50.0	51.5	103	50-150	
1,2,3-Trichloropropane	50.0	53.1	106	50-150	
trans-1,4-Dichloro-2-butene	50.0	47.4	94.7	50-150	
p-Chlorotoluene	50.0	52.6	105	50-150	
tert-Butylbenzene	50.0	52.8	106	50-150	
Pentachloroethane	50.0	43.3	86.6	50-150	
1,2,4-Trimethylbenzene	50.0	48.8	97.6	50-150	
sec-Butylbenzene	50.0	53.1	106	50-150	
p-Isopropyltoluene	50.0	51.9	104	50-150	
1,3-Dichlorobenzene	50.0	51.3	103	50-150	
1,4-Dichlorobenzene	50.0	50.9	102	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240628_2524062829.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524062829.D
Fraction VOA
SampleType ENDCCV
Inj Date 28-JUN-2024 1934

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	50.0	30.4	60.9	50-150	
n-Butylbenzene	50.0	49.0	97.9	50-150	
Hexachloroethane	50.0	45.6	91.2	50-150	
1,2-Dichlorobenzene	50.0	52.4	105	50-150	
1,2-Dibromo-3-chloropropane	50.0	46.9	93.7	50-150	
Nitrobenzene	500	451	90.2	50-150	
Hexachlorobutadiene	50.0	42.8	85.6	50-150	
1,2,4-Trichlorobenzene	50.0	50.1	100	50-150	
Naphthalene	50.0	46.6	93.1	50-150	
1,3-Dichloropropene, Total	100	87.4	87.4	50-150	
1,2,3-Trichlorobenzene	50.0	44.6	89.3	50-150	
121 TOTAL XYLENES	150	131	87.6	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240701_2524070101.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524070101.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 01-JUL-2024 0922
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	0.332	0.287	0.287	0.010	-13.448	20.0	Averaged	
Chloromethane	50.0	45.5	3.79	0.100	-9.057	20.0	Wt Linear	
Vinyl Chloride	0.375	0.337	0.337	0.010	-10.088	20.0	Averaged	
Bromomethane	50.0	51.6	5.39	0.010	3.23	20.0	Wt Linear	
Chloroethane	50.0	45.5	4.33	0.010	-9.008	20.0	Wt Linear	
Pentane	50.0	33.1	6.38	0.010	-33.727	20.0	Wt Linear	*
Trichlorofluoromethane	0.514	0.473	0.473	0.010	-7.918	20.0	Averaged	
Dichlorofluoromethane	0.476	0.458	0.458	0.010	-3.689	20.0	Averaged	
Ethyl Ether	0.145	0.147	0.147	0.010	1.44	20.0	Averaged	
1,1-Dichloroethene	0.289	0.270	0.270	0.010	-6.385	20.0	Averaged	
Carbon Disulfide	0.623	0.567	0.567	0.010	-8.872	20.0	Averaged	
Freon 113	0.203	0.186	0.186	0.010	-8.376	20.0	Averaged	
Iodomethane	50.0	48.6	9.19	0.010	-2.720	20.0	Wt Linear	
Acrolein	0.047	0.045	0.045	0.000	-3.473	20.0	Averaged	
3-Chloro-1-propene	50.0	44.9	4.43	0.010	-10.124	20.0	Wt Linear	
Isopropyl Alcohol	250	233	70.4	0.000	-6.754	20.0	Wt Linear	
Methylene Chloride	0.236	0.240	0.240	0.010	1.88	20.0	Averaged	
Acetone	0.026	0.025	0.025	0.000	-4.230	20.0	Averaged	
Methyl acetate	50.0	48.8	19.1	0.005	-2.341	20.0	Wt Linear	
trans-1,2-Dichloroethene	0.283	0.277	0.277	0.010	-1.832	20.0	Averaged	
Hexane	50.0	43.9	2.42	0.010	-12.106	20.0	Wt Linear	
Methyl t-Butyl Ether	50.0	48.4	1.42	0.010	-3.114	20.0	Wt Linear	
tert.- Butyl Alcohol	0.026	0.026	0.026	0.000	1.40	20.0	Averaged	
Acetonitrile	0.029	0.030	0.030	0.000	1.64	20.0	Averaged	
Diisopropyl ether	0.627	0.637	0.637	0.010	1.59	20.0	Averaged	
Chloroprene	0.318	0.322	0.322	0.010	1.21	20.0	Averaged	
1,1-Dichloroethane	0.385	0.386	0.386	0.100	0.212	20.0	Averaged	
Acrylonitrile	0.100	0.102	0.102	0.000	1.63	20.0	Averaged	
n-Propanol	0.012	0.011	0.011	0.000	-7.112	20.0	Averaged	
Ethyl tert-butyl ether	0.666	0.704	0.704	0.010	5.61	20.0	Averaged	
Vinyl Acetate	50.0	48.6	15.6	0.010	-2.745	20.0	Wt Linear	
cis-1,2-Dichloroethene	0.287	0.289	0.289	0.010	0.674	20.0	Averaged	
2,2-Dichloropropane	0.307	0.310	0.310	0.010	1.05	20.0	Averaged	
100 1,2-Dichloroethene, Total	0.285	0.283	0.283	0.010	-0.570	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240701_2524070101.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524070101.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 01-JUL-2024 0922
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromochloromethane	0.124	0.138	0.138	0.010	11.3	20.0	Averaged	
Cyclohexane	0.344	0.320	0.320	0.010	-6.900	20.0	Averaged	
Chloroform	0.416	0.430	0.430	0.010	3.49	20.0	Averaged	
Ethyl Acetate	50.0	46.7	4.30	0.010	-6.618	20.0	Wt Linear	
Methyl acrylate	0.231	0.236	0.236	0.010	2.23	20.0	Averaged	
Carbon Tetrachloride	50.0	45.1	3.63	0.010	-9.752	20.0	Wt Linear	
Tetrahydrofuran	0.071	0.069	0.069	0.000	-2.490	20.0	Averaged	
41 Dibromofluoromethane	0.237	0.240	0.240	0.010	1.39	20.0	Averaged	
1,1,1-Trichloroethane	0.324	0.331	0.331	0.010	2.20	20.0	Averaged	
2-Butanone	0.034	0.035	0.035	0.000	2.80	20.0	Averaged	
1,1-Dichloropropene	0.306	0.303	0.303	0.010	-1.142	20.0	Averaged	
1-Chlorobutane	0.197	0.174	0.174	0.010	-11.548	20.0	Averaged	
Heptane	0.178	0.165	0.165	0.000	-7.080	20.0	Averaged	
Propionitrile	0.038	0.039	0.039	0.000	1.92	20.0	Averaged	
Benzene	0.941	0.921	0.921	0.010	-2.119	20.0	Averaged	
Methacrylonitrile	0.114	0.119	0.119	0.010	4.81	20.0	Averaged	
tert-Amyl methyl ether	0.643	0.681	0.681	0.010	5.90	20.0	Averaged	
51 1,2-Dichloroethane-d4	0.250	0.246	0.246	0.010	-1.595	20.0	Averaged	
Isobutyl alcohol	500	541	160	0.000	8.15	20.0	Wt Linear	
1,2-Dichloroethane	0.296	0.297	0.297	0.010	0.559	20.0	Averaged	
tert-Amyl Alcohol	0.020	0.021	0.021	0.002	4.01	20.0	Averaged	
Diisobutylene	50.0	44.6	1.92	0.010	-10.792	20.0	Wt Linear	
Trichloroethene	0.238	0.229	0.229	0.010	-3.742	20.0	Averaged	
Methyl cyclohexane	0.973	0.976	0.976	0.005	0.305	20.0	Averaged	
tert-Amyl Ethylether	50.0	47.6	1.88	0.010	-4.889	20.0	Wt Linear	
Dibromomethane	0.151	0.159	0.159	0.010	5.84	20.0	Averaged	
1,2-Dichloropropane	0.226	0.232	0.232	0.010	2.46	20.0	Averaged	
Bromodichloromethane	50.0	47.4	3.35	0.010	-5.149	20.0	Wt Linear	
Methyl methacrylate	0.179	0.186	0.186	0.010	3.73	20.0	Averaged	
2-Chloroethylvinyl ether	50.0	46.3	6.52	0.010	-7.349	20.0	Wt Linear	
cis-1,3-Dichloropropene	50.0	50.5	0.975	0.010	1.08	20.0	Wt Linear	
Octane	0.369	0.385	0.385	0.010	4.30	20.0	Averaged	
68 Toluene-d8	2.38	2.44	2.44	0.010	2.87	20.0	Averaged	
Toluene	1.51	1.50	1.50	0.010	-0.252	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240701_2524070101.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524070101.D
Analysis Type WATER
Lab Sample ID 1800

Injection Date 01-JUL-2024 0922
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Chloroacetonitrile	0.038	0.040	0.040	0.000	5.91	20.0	Averaged	
2-Nitropropane	250	243	6.24	0.005	-2.932	20.0	Wt Linear	
1,1-Dichloro-2-Propanone	250	242	64.7	0.001	-3.136	20.0	Wt Linear	
4-Methyl-2-Pentanone(MIBK)	250	256	1.64	0.010	2.26	20.0	Wt Linear	
trans-1,3-Dichloropropene	50.0	49.5	1.08	0.010	-1.016	20.0	Wt Linear	
Tetrachloroethene	0.548	0.574	0.574	0.010	4.77	20.0	Averaged	
Ethyl Methacrylate	50.0	50.9	1.08	0.010	1.78	20.0	Wt Linear	
1,1,2-Trichloroethane	0.463	0.500	0.500	0.010	8.03	20.0	Averaged	
Chlorodibromomethane	50.0	50.2	1.52	0.010	0.385	20.0	Wt Linear	
1,3-Dichloropropane	0.914	1.01	1.01	0.010	10.6	20.0	Averaged	
1,2-Dibromoethane	50.0	51.2	1.59	0.010	2.44	20.0	Wt Linear	
2-Hexanone	250	252	2.43	0.010	0.753	20.0	Wt Linear	
1-Chlorohexane	0.792	0.858	0.858	0.010	8.34	20.0	Averaged	
Ethylbenzene	50.0	49.5	1.13	0.010	-0.964	20.0	Wt Linear	
Chlorobenzene	1.53	1.65	1.65	0.300	7.48	20.0	Averaged	
1,1,1,2-Tetrachloroethane	50.0	50.1	1.72	0.010	0.179	20.0	Wt Linear	
mp-Xylene	100	100	0.936	0.010	0.308	20.0	Wt Linear	
120 1,3-Dichloropropene, Total	100	100	1.02	0.010	0.032	20.0	Wt Linear	
o-Xylene	1.02	1.03	1.03	0.010	0.558	20.0	Averaged	
Styrene	50.0	48.1	0.586	0.010	-3.753	20.0	Wt Linear	
Bromoform	50.0	46.0	2.17	0.100	-8.087	20.0	Wt Linear	
Isopropylbenzene	50.0	48.8	0.414	0.010	-2.309	20.0	Wt Linear	
92 4-Bromofluorobenzene	0.830	0.806	0.806	0.010	-2.834	20.0	Averaged	
121 Total Xylenes	150	151	0.948	0.010	0.391	20.0	Wt Linear	
n-Propylbenzene	0.725	0.749	0.749	0.010	3.27	20.0	Averaged	
Bromobenzene	0.709	0.748	0.748	0.010	5.45	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.705	0.760	0.760	0.300	7.84	20.0	Averaged	
1,3,5-Trimethylbenzene	2.02	2.11	2.11	0.010	4.37	20.0	Averaged	
o-Chlorotoluene	1.91	2.00	2.00	0.010	4.84	20.0	Averaged	
1,2,3-Trichloropropane	0.227	0.241	0.241	0.010	5.90	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	48.0	4.82	0.010	-3.993	20.0	Wt Linear	
p-Chlorotoluene	1.73	1.83	1.83	0.010	5.65	20.0	Averaged	
tert-Butylbenzene	0.483	0.518	0.518	0.010	7.20	20.0	Averaged	
Pentachloroethane	50.0	48.2	2.14	0.010	-3.550	20.0	Wt Linear	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240701_2524070101.D

Volatiles by EPA 8260D

Instrument ID ms25.i
Lab File ID 2524070101.D
Analysis Type WATER
Lab Sample ID 1800
Injection Date 01-JUL-2024 0922
ICAL Date(s) 25-JUN-2024, 25-JUN-2024
ICAL Times 11:03, 13:05
Quant Type ISTD

Compound	RRF / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2,4-Trimethylbenzene	50.0	49.5	0.473	0.010	-1.024	20.0	Wt Linear	
sec-Butylbenzene	2.49	2.70	2.70	0.010	8.37	20.0	Averaged	
p-Isopropyltoluene	0.571	0.611	0.611	0.010	6.95	20.0	Averaged	
1,3-Dichlorobenzene	1.19	1.27	1.27	0.010	6.15	20.0	Averaged	
1,4-Dichlorobenzene	1.25	1.30	1.30	0.010	4.41	20.0	Averaged	
n-Butylbenzene	0.534	0.548	0.548	0.010	2.58	20.0	Averaged	
Benzyl Chloride	50.0	47.1	3.56	0.010	-5.825	20.0	Wt Linear	
Hexachloroethane	50.0	45.6	2.56	0.010	-8.811	20.0	Wt Linear	
1,2-Dichlorobenzene	1.14	1.21	1.21	0.010	6.68	20.0	Averaged	
1,2-Dibromo-3-chloropropane	50.0	45.2	8.21	0.010	-9.526	20.0	Wt Linear	
Nitrobenzene	500	452	25.3	0.000	-9.506	20.0	Quadratic	
Hexachlorobutadiene	50.0	47.5	2.80	0.000	-5.058	20.0	Wt Linear	
1,2,4-Trichlorobenzene	0.754	0.825	0.825	0.010	9.50	20.0	Averaged	
Naphthalene	50.0	47.2	0.478	0.010	-5.548	20.0	Wt Linear	
1,2,3-Trichlorobenzene	50.0	47.3	1.25	0.010	-5.497	20.0	Wt Linear	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240701_2524070129.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524070129.D
Fraction VOA
SampleType ENDCCV
Inj Date 01-JUL-2024 1924

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Dichlorodifluoromethane	50.0	46.1	92.1	50-150	
Chloromethane	50.0	51.6	103	50-150	
Vinyl Chloride	50.0	50.2	100	50-150	
Bromomethane	50.0	59.2	118	50-150	
Chloroethane	50.0	49.3	98.7	50-150	
Pentane	50.0	32.9	65.8	50-150	
Trichlorofluoromethane	50.0	48.1	96.2	50-150	
Dichlorofluoromethane	50.0	51.8	104	50-150	
Ethyl Ether	50.0	50.6	101	50-150	
1,1-Dichloroethene	50.0	49.6	99.2	50-150	
Freon 113	50.0	47.2	94.4	50-150	
Carbon Disulfide	50.0	48.3	96.6	50-150	
Iodomethane	50.0	48.7	97.3	50-150	
Acrolein	250	228	91.2	50-150	
Isopropyl Alcohol	250	231	92.6	50-150	
3-Chloro-1-propene	50.0	47.9	95.9	50-150	
Methylene Chloride	50.0	51.5	103	50-150	
Acetone	250	231	92.4	50-150	
Methyl acetate	50.0	47.8	95.6	50-150	
trans-1,2-Dichloroethene	50.0	52.7	105	50-150	
Hexane	50.0	42.5	85.0	50-150	
Methyl t-Butyl Ether	50.0	48.7	97.4	50-150	
tert.- Butyl Alcohol	250	243	97.1	50-150	
Acetonitrile	250	263	105	50-150	
Diisopropyl ether	50.0	54.5	109	50-150	
Chloroprene	50.0	54.9	110	50-150	
1,1-Dichloroethane	50.0	54.2	108	50-150	
Acrylonitrile	250	264	105	50-150	
n-Propanol	500	517	103	50-150	
Ethyl tert-butyl ether	50.0	54.8	110	50-150	
Vinyl acetate	50.0	44.4	88.7	50-150	
cis-1,2-Dichloroethene	50.0	55.5	111	50-150	
2,2-Dichloropropane	50.0	42.9	85.8	50-150	
Bromochloromethane	50.0	55.0	110	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240701_2524070129.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524070129.D
Fraction VOA
SampleType ENDCCV
Inj Date 01-JUL-2024 1924

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Cyclohexane	50.0	49.7	99.3	50-150	
Chloroform	50.0	54.4	109	50-150	
Ethyl acetate	50.0	47.4	94.8	50-150	
Methyl acrylate	50.0	52.0	104	50-150	
Carbon Tetrachloride	50.0	46.2	92.4	50-150	
Tetrahydrofuran	250	253	101	50-150	
1,1,1-Trichloroethane	50.0	54.4	109	50-150	
2-Butanone	250	247	98.7	50-150	
1,1-Dichloropropene	50.0	52.6	105	50-150	
1-Chlorobutane	50.0	50.6	101	50-150	
Heptane	50.0	40.5	80.9	50-150	
Benzene	50.0	51.9	104	50-150	
Propionitrile	250	264	105	50-150	
Methacrylonitrile	50.0	52.5	105	50-150	
tert-amyl methyl E	50.0	53.5	107	50-150	
Isobutyl alcohol	500	490	98.0	50-150	
1,2-Dichloroethane	50.0	51.8	104	50-150	
tert-Amyl Alcohol	250	253	101	50-150	
Diisobutylene	50.0	47.5	94.9	50-150	
Trichloroethene	50.0	53.4	107	50-150	
Methyl cyclohexane	50.0	50.3	101	50-150	
tert-Amyl Ethylether	50.0	49.5	99.1	50-150	
Dibromomethane	50.0	53.5	107	50-150	
1,2-Dichloropropane	50.0	54.3	108	50-150	
Bromodichloromethane	50.0	48.8	97.6	50-150	
Methyl methacrylate	50.0	54.7	109	50-150	
1,4-Dioxane	1250	0.000		50-150	*
2-Chloroethylvinyl ether	50.0	47.4	94.8	50-150	
cis-1,3-Dichloropropene	50.0	49.4	98.8	50-150	
Octane	50.0	42.0	84.0	50-150	
Toluene	50.0	51.3	103	50-150	
Chloroacetonitrile	250	257	103	50-150	
2-Nitropropane	250	238	95.2	50-150	
1,1-Dichloro-2-pro	250	222	88.6	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240701_2524070129.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524070129.D
Fraction VOA
SampleType ENDCCV
Inj Date 01-JUL-2024 1924

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentanone(MIBK)	250	260	104	50-150	
Tetrachloroethene	50.0	55.3	111	50-150	
trans-1,3-Dichloropropene	50.0	48.8	97.7	50-150	
Ethyl methacrylate	50.0	50.2	100	50-150	
1,1,2-Trichloroethane	50.0	53.4	107	50-150	
Chlorodibromomethane	50.0	49.0	98.0	50-150	
1,2-Dibromoethane	50.0	50.2	100	50-150	
2-Hexanone	250	253	101	50-150	
1-Chlorohexane	50.0	50.3	101	50-150	
1,3-Dichloropropane	50.0	56.3	113	50-150	
Chlorobenzene	50.0	53.8	108	50-150	
Ethylbenzene	50.0	50.0	100	50-150	
1,1,1,2-Tetrachloroethane	50.0	50.0	100.0	50-150	
mp-Xylene	100	101	101	50-150	
o-Xylene	50.0	50.2	100	50-150	
Styrene	50.0	51.1	102	50-150	
Bromoform	50.0	46.4	92.8	50-150	
Isopropylbenzene	50.0	52.6	105	50-150	
Bromobenzene	50.0	53.7	107	50-150	
n-Propylbenzene	50.0	54.8	110	50-150	
1,1,2,2-Tetrachloroethane	50.0	55.8	112	50-150	
o-Chlorotoluene	50.0	55.9	112	50-150	
1,2-Dichloroethene, Total	100	108	108	50-150	
1,3,5-Trimethylbenzene	50.0	54.8	110	50-150	
1,2,3-Trichloropropane	50.0	53.8	108	50-150	
trans-1,4-Dichloro-2-butene	50.0	45.5	91.0	50-150	
p-Chlorotoluene	50.0	56.2	112	50-150	
tert-Butylbenzene	50.0	56.0	112	50-150	
Pentachloroethane	50.0	46.3	92.6	50-150	
1,2,4-Trimethylbenzene	50.0	52.1	104	50-150	
sec-Butylbenzene	50.0	57.2	114	50-150	
p-Isopropyltoluene	50.0	55.3	111	50-150	
1,3-Dichlorobenzene	50.0	55.4	111	50-150	
1,4-Dichlorobenzene	50.0	53.9	108	50-150	

Form 7 Continuing Calibration Verification (CCV)

Client ALS Houston
Project AHH138|HS24061313

Workorder 3366030

RunID 25240701_2524070129.D

Volatiles by EPA 8260D

Sample Matrix LIQUID
Lab Smp Id 1801
Data Type MS DATA
File ID 2524070129.D
Fraction VOA
SampleType ENDCCV
Inj Date 01-JUL-2024 1924

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Benzyl Chloride	50.0	33.3	66.5	50-150	
n-Butylbenzene	50.0	52.5	105	50-150	
Hexachloroethane	50.0	49.4	98.9	50-150	
1,2-Dichlorobenzene	50.0	55.2	110	50-150	
1,2-Dibromo-3-chloropropane	50.0	45.9	91.9	50-150	
Nitrobenzene	500	443	88.6	50-150	
Hexachlorobutadiene	50.0	46.9	93.8	50-150	
1,2,4-Trichlorobenzene	50.0	53.2	106	50-150	
Naphthalene	50.0	47.7	95.4	50-150	
1,3-Dichloropropene, Total	100	98.2	98.2	50-150	
1,2,3-Trichlorobenzene	50.0	47.6	95.2	50-150	
121 TOTAL XYLENES	150	151	101	50-150	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260D

Workorder

3366030

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AHH138|HS24061313

07/18/2024

Form 8 - Internal Standard Area and RT Summary

Client ALS Houston

Project HS24061313 - AHH138

Workorder **3366030**

Volatiles by EPA 8260D

25240628		Fluorobenzene				Chlorobenzene -d5				1,4-Dichloro - benzene-d4				
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	
STD-CCV	2524062801.D	1037403		4.17		395519		6.17		361869		7.95		
3366030005	2524062805.D	1051403		4.17		384230		6.17		314015		7.95		
MB-3845975	2524062804.D	1076068		4.17		385851		6.17		307789		7.95		
LCS-3845976	2524062802.D	1039946		4.17		395604		6.17		325554		7.95		

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client ALS Houston

Project HS24061313 - AHH138

Workorder 3366030

Volatiles by EPA 8260D

25240701		Fluorobenzene				Chlorobenzene -d5				1,4-Dichloro - benzene-d4				
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	
STD-CCV	2524070101.D	1107878		4.17		413498		6.17		396634		7.95		
3366030001	2524070107.D	1114739		4.17		396797		6.17		332249		7.95		
3366030002	2524070108.D	1100698		4.17		395697		6.17		330547		7.95		
3366030003	2524070109.D	1075444		4.17		394564		6.17		334489		7.95		
3366030004	2524070110.D	1039509		4.17		384217		6.17		317077		7.95		
MB-3846765	2524070105.D	1124234		4.17		409825		6.17		351184		7.95		
LCS-3846766	2524070102.D	1119462		4.17		424836		6.17		379786		7.95		
MS-3846786	2524070127.D	974374		4.17		359522		6.17		307946		7.95		
MSD-3846787	2524070128.D	995065		4.17		380727		6.17		333270		7.95		

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Logbook

Analysis Logs

Volatiles by EPA 8260D

Workorder

3366030

Client

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AHH138|HS24061313

07/18/2024

Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240625.b

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	6/25/2024	Analyst:	ILY		SOP ID:	02 8260	
DATA FILE:	25240625xx.d	BFB INJ :	6/25/24 9:52	INSTRUMENT: MS25	METHOD(S)	8260W	8260C_W	D8260W
BATCH:	25240625.b	12-HOUR ENDING:	6/25/24 21:52	ICAL DATE: 6/25/2024	LIMS BATCH:			73573

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment
0	00	1000	1	BFB	-	-	-		33	33							
1	01	WP	1	8260	-	-	-		34	34							
2	02	WP	1	8260	-	-	-		35	35							
3	03	VSTD00.5	1	8260	-	-	-		36	36							
4	04	1234	1	8260	-	-	-		37	37							
5	05	1235	1	8260	-	-	-		38	38							
6	06	1236	1	8260	-	-	-		39	39							
7	07	1237	1	8260	-	-	-		40	40							
8	08	1238	1	8260	-	-	-		41	41							
9	09	1239	1	8260	-	-	-		42	42							
10	10	WP	1	8260	-	-	-		43	43							
11	11	WP	1	8260	-	-	-		44	44							
12	12	WP	1	8260	-	-	-		45	45							
13	13	WP	1	8260	-	-	-		46	46							
14	14	3844041	1	8260	-	-	-	AF	47	47							
15	15	3844042	1	8260	-	-	-	AF	48	48							
16	16	WP	1	8260	-	-	-		49	49							
17	17	LOQ 1.0	1	8260	-	-	-		50	50							
18	18	3364027004-A	1	D8260W V		N			51	51							
19	19	3364639004-A	1	D8260W V		N			52	52							
20	20	3364581002-A	1	D8260W V		N			53	53							
21	21	3364581001-A	1	D8260W V		N			54	54							
22	22	3364027001-A	1	D8260W V		N			55	55							
23	23	3364027002-A	1	D8260W V		N			56	56							
24	24	3364027003-A	1	D8260W V		N			57	57							
25	25	3364581003-A	1	D8260W V		N			58	58							
26	26	3364639001-A	1	D8260W V		N			59	59							
27	27	3364464007-C	1	D8260W V		N		(RR)	60	60							
28	28	3363896005-C	1	D8260W V		N		(RR) PD MSD	61	61							
29	29	3363896016	20	TCLP V	-	-	-	AF	62	62							
30	30	3844274	1	D8260W V		N		"?"	63	63							
31	31	3844275	1	D8260W V		N		"?"	64	64							
32	32	1801	1	8260	-	-	-		65	65							

IS:	VOA0258	Vhew:	VOA0283
SS:	VOA0259	Vgas:	VOA0286
BFB:	VOA0250	Qvoa:	VOA0270
AF:	VOA0261	Qgas:	VOA0285

ABBREVIATIONS

CO:	Suspect Carryover	SS:	Surrogate Failure	NB:	Needs Batched
LS:	Library Search	IS:	ISTD Failure	AAS:	Autosampler Adds Surrogate (Soil)
RR:	Rerun same dilution	DNR:	Do not Report	(**):	Sample is an RR, DF, or DL
DFx:	Rerun @ less diln x	NU:	Not Used	WP:	Water Blank
DLx:	Rerun @ diln x	AF:	Antifoam was used	COMP:	Composite
HDSP:	Headspase	Cl:	Chlorine Check	Wt:	Weight

10ul :	HS972
25ul :	HS866
100ul :	HS987
1 mL :	HS927
5 mL :	HS997
10 mL :	HS1002

Batch Review Checklist

TARGET BATCH:	25240625.b	**HORIZON BATCH:**	0		73573	**ICAL DATE(S):**	6/25/2024
INSTRUMENT:	MS25	**METHOD:**	8260W	3260C_W	D8260W	**SOP ID:**	02 8260

DATA REVIEW

Reviewer 1	Reviewer 2		
PDK	CHS	BFB Reviewed	
PDK	CHS	Calibration/Continuing Calibration reviewed	
PDK	CHS	Continuing Calibration passes +/- ISTD area - CCAL is zeroed	
PDK	CHS	Correct ICAL referenced	
PDK	CHS	Correct start/end times/dates for ICAL	
PDK	CHS	Any elavated reporting limits due to ICAL?	Yes/No: **N**
PDK	CHS	Blank reviewed.	
PDK	CHS	LCS/second source reviewed	
PDK	CHS	MS/MSD reviewed - List failures on native sample	
PDK	CHS	All samples within 12/24-hour tune period?	
PDK	CHS	Compound retention times reviewed	
PDK	CHS	ISTDs for each sample reviewed	
PDK	CHS	Surrogates for each sample reviewed	
-	-	Soil weights/volumes correct	
PDK	CHS	Samples checked for over-range detections and put back in for reanalysis	
PDK	CHS	Spectra and ions have been reviewed for each analyte detected	
-	-	Library search has been performed for clients requesting it	
PDK	CHS	Container IDs in LIMS batch	

REPORTS REVIEW:

CHS	Runlog printed to PDF
PDK	Batch summary printed to PDF
PDK	ICAL Summary printed to PDF
PDK	BFB Reports printed to PDF
PDK	Calibration/CCAL reports printed to PDF
PDK	Reports printed to PDF for all samples (w/ LS if needed)
PDK	Logbook complete - All standard information included
CHS	Tests scheduled in LIMS

Signature	Date	
PDK	6/25/2024	Data 1st Review
CHS	6/27/2024	Data 2nd Review
CHS	6/27/2024	Data Reported
CHS	6/27/2024	Data Approved

COMMENTS:

LL Readback Outliers: None

MIDL Readback Outliers: None

ICVLCS Outliers (70-130%) : None

DOD ICVLCS Outliers (80-120%): None

Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240628.b

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	6/28/2024	Analyst:	TMP/ILY		SOP ID:	02 8260	
DATA FILE:	25240628xx.d	BFB INJ :	6/28/24 9:00	INSTRUMENT: MS25	METHOD(S)	D8260DW / 8260C_W	D8260DW
BATCH:	25240628.b	12-HOUR ENDING:	6/28/24 21:00	ICAL DATE: 6/25/2024	LIMS BATCH:	73650	

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment
0	00	1000	1	BFB	-	-	-		33	33							
1	01	1800	1	8260	-	-	-		34	34							
2	02	3845976	1	8260	-	-	-	AF	35	35							
3	03	WP	1	8260	-	-	-		36	36							
4	-	WP	1	8260	-	-	-	skipped by AS	37	37							
5	04	3845975	1	8260	-	-	-	AF	38	38							
6	05	3366030005-A	1	D8260W V	<2	N	N		39	39							
7	06	3366026023-A	1	D8260W V	<2	N	N		40	40							
8	07	3366028005-B	1	D8260W V	<2	N	N	(CORR)	41	41	LAST VIAL						
9	08	3366028008-B	1	D8260W V	<2	N	N	(CORR)	42	42	LAST VIAL						
10	09	3366027002-B	1	D8260W V	<2	N	N	(CORR)	43	43							
11	11	3366026001-A	1	D8260W V	<2	N	N		44	44	fixed AS error here						
12	12	3366026002-A	1	D8260W V	<2	N	N	DL20	45	45							
13	13	3366026003-A	1	D8260W V	<2	N	N	CORR1X	46	46							
14	14	3366026005-A	1	D8260W V	<2	N	N	DL5	47	47							
15	15	3366026006-A	1	D8260W V	<2	N	N	DL10	48	48							
16	16	3366026007-A	1	D8260W V	<2	N	N	DL100	49	49							
17	17	3366026008-A	1	D8260W V	<2	N	N	DL20	50	50							
18	18	3366030001-A	1	D8260W V	<2	N	N	PD MSD CORR1X	51	51							
19	19	3366030002-A	1	D8260W V	<2	N	N	CORR1X	52	52							
20	20	3366030003-A	1	D8260W V	<2	N	N	CORR1X	53	53							
21	21	3366030004-A	1	D8260W V	<2	N	N	CORR1X	54	54							
22	22	3366036001-B	5	D8260W V	<2	N	N	(DL)	55	55							
23	23	3366028004-B	10	D8260W V	<2	N	N	(DL)	56	56							
24	24	3366028007-B	10	D8260W V	<2	N	N	(DL)	57	57							
25	25	3366027001-B	50	D8260W V	<2	N	N	(DL)	58	58							
26	26	3845977	1	8260	<2	N	N	"B"	59	59	CANCELLED						parent sample needs rerun
26	27	3845978	1	8260	<2	N	N	"B"	60	60	CANCELLED						parent sample needs rerun
27	28	WP	1	8260	-	-	-		61	61							
28	29	1801	1	8260	-	-	-		62	62							
29	30								63	63							
30	31								64	64							
31	32								65	65							

IS:	VOA0258	Vhew:	VOA0283
SS:	VOA0259	Vgas:	VOA0286
BFB:	VOA0250	Qvoa:	VOA0270
AF:	VOA0261	Qgas:	VOA0285

ABBREVIATIONS

CO: Suspect Carryover	SS: Surrogate Failure	NB: Needs Batched
LS: Library Search	IS: ISTD Failure	AAS: Autosampler Adds Surrogate (Soil)
RR: Rerun same dilution	DNR: Do not Report	(**): Sample is an RR, DF, or DL
DFx: Rerun @ less diln x	NU: Not Used	WP: Water Blank
DLx: Rerun @ diln x	AF: Antifoam was used	COMP: Composite
HDSP: Headspase	CL: Chlorine Check	Wt: Weight

10ul :	HS972
25ul :	HS866
100ul :	HS987
1 mL :	HS927
5 mL :	HS997
10 mL :	HS1002

Batch Review Checklist

TARGET BATCH:	25240628.b	**HORIZON BATCH:**	73650			**ICAL DATE(S):**	6/25/2024
INSTRUMENT:	MS25	**METHOD:**	D8260DW	8260C_W	D8260DW	**SOP ID:**	02 8260

DATA REVIEW

Reviewer 1	Reviewer 2		
TMP	VLM	BFB Reviewed	
TMP	VLM	Calibration/Continuing Calibration reviewed	
TMP	VLM	Continuing Calibration passes +/- ISTD area - CCAL is zeroed	
TMP	VLM	Correct ICAL referenced	
TMP	VLM	Correct start/end times/dates for ICAL	
TMP	VLM	Any elavated reporting limits due to ICAL?	Yes/No: **N**
TMP	VLM	Blank reviewed.	
TMP	VLM	LCS/second source reviewed	
TMP	VLM	MS/MSD reviewed - List failures on native sample	
TMP	VLM	All samples within 12/24-hour tune period?	
TMP	VLM	Compound retention times reviewed	
TMP	VLM	ISTDs for each sample reviewed	
TMP	VLM	Surrogates for each sample reviewed	
-	-	Soil weights/volumes correct	
TMP	VLM	Samples checked for over-range detections and put back in for reanalysis	
TMP	VLM	Spectra and ions have been reviewed for each analyte detected	
-	-	Library search has been performed for clients requesting it	
TMP	VLM	Container IDs in LIMS batch	

REPORTS REVIEW:

VLM	Runlog printed to PDF
TMP	Batch summary printed to PDF
TMP	ICAL Summary printed to PDF
TMP	BFB Reports printed to PDF
TMP	Calibration/CCAL reports printed to PDF
TMP	Reports printed to PDF for all samples (w/ LS if needed)
TMP	Logbook complete - All standard information included
VLM	Tests scheduled in LIMS

Signature	Date	
TMP	6/29/2024	Data 1st Review
VLM	6/30/2024	Data 2nd Review
VLM	6/30/2024	Data Reported
VLM	6/30/2024	Data Approved

COMMENTS:

LL Readback Outllers: None

MIDL Readback Outllers: None

ICVLCS Outliers (70-130%) : None

DOD ICVLCS Outliers (80-120%): None

Data File: \\GC01\TargetData\Chem2\ms25.i\25_2024\25240701.b

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	7/1/2024	Analyst:	TMP		SOP ID:	02 8260	
DATA FILE:	25240701xx.d	BFB INJ :	7/1/24 8:32	INSTRUMENT: MS25	METHOD(S)	8260DW	8260C_W	D8260DW
BATCH:	25240701.b	12-HOUR ENDING:	7/1/24 20:32	ICAL DATE: 6/25/2024	LIMS BATCH:			73674

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL^-	Comment
0	00	1000	1	BFB	-	-	-		33	33							
1	01	1800	1	8260	-	-	-		34	34							
2	02	3846766	1	8260	-	-	-		35	35							
3	03	WP	1	8260	-	-	-		36	36							
4	04	WP	1	8260	-	-	-		37	37							
5	05	3846765	1	8260	-	-	-		38	38							
6	06	3366026003-B	1	D8260W V	<2	N	N	(CORR) LAST VIAL	39	39							
7	07	3366030001-C	1	D8260W V	<2	N	N	(CORR) MS/D PAID QC	40	40							
8	08	3366030002-B	1	D8260W V	<2	N	N	(CORR) SS	41	41							
9	09	3366030003-B	1	D8260W V	<2	N	N	(CORR)	42	42							
10	10	3366030004-B	1	D8260W V	<2	N	N	(CORR)	43	43							
11	11	3366026002-B	20	D8260W V	<2	N	N	(DL)	44	44							
12	12	3366026005-B	5	D8260W V	<2	N	N	(DL)	45	45							
13	13	3366026006-B	10	D8260W V	<2	N	N	(DL)	46	46							
14	14	3366026007-B	100	D8260W V	<2	N	N	(DL)	47	47							
15	15	3366026008-B	20	D8260W V	<2	N	N	(DL)	48	48							
16	16	3366026009-A	1	D8260W V	<2	N	N	DL100	49	49							
17	17	3366026010-A	1	D8260W V	<2	N	N	CO DL100	50	50							
18	18	3366026011-A	1	D8260W V	<2	N	N	CO DL100	51	51							
19	19	3366026012-A	1	D8260W V	<2	N	N	CO DL50	52	52							
20	20	3366026013-A	1	D8260W V	<2	N	N	CORR1X	53	53							
21	21	3366026014-A	1	D8260W V	<2	N	N		54	54							
22	22	3366026015-A	1	D8260W V	<2	N	N		55	55							
23	23	3366026016-A	1	D8260W V	<2	N	N		56	56							
24	24	3366026017-A	1	D8260W V	<2	N	N		57	57							
25	25	3366026018-A	1	D8260W V	<2	N	N		58	58							
26	26	WP	1	D8260W V	-	-	-		59	59							
27	27	3846786	1	D8260W V	<2	N	N	"D"	60	60							
27	28	3846787	1	D8260W V	<2	N	N	"D"	61	61							
28	29	1801	1	D8260W V	-	-	-		62	62							
29	30								63	63							
30	31								64	64							
31	32								65	65							

IS:	VOA0258	Vhew:	VOA0283
SS:	VOA0259	Vgas:	VOA0286
BFB:	VOA0250	Qvoa:	VOA0270
AF:	VOA0261	Qgas:	VOA0285

ABBREVIATIONS

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LS: Library Search	IS: ISTD Failure	AAS: Autosampler Adds Surrogate (Soil)
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HDSP: Headspase	Cl: Chlorine Check	Wt: Weight

10ul :	HS972
25ul :	HS866
100ul :	HS987
1 mL :	HS927
5 mL :	HS997
10 mL :	HS1002

Batch Review Checklist

TARGET BATCH:	25240701.b	**HORIZON BATCH:**	0		73674	**ICAL DATE(S):**	6/25/2024
INSTRUMENT:	MS25	**METHOD:**	8260DW	8260C_W	D8260DW	**SOP ID:**	02 8260

DATA REVIEW

Reviewer 1	Reviewer 2		
PDK	VLM	BFB Reviewed	
PDK	VLM	Calibration/Continuing Calibration reviewed	
PDK	VLM	Continuing Calibration passes +/- ISTD area - CCAL is zeroed	
PDK	VLM	Correct ICAL referenced	
PDK	VLM	Correct start/end times/dates for ICAL	
PDK	VLM	Any elavated reporting limits due to ICAL?	Yes/No: **N**
PDK	VLM	Blank reviewed.	
PDK	VLM	LCS/second source reviewed	
PDK	VLM	MS/MSD reviewed - List failures on native sample	
PDK	VLM	All samples within 12/24-hour tune period?	
PDK	VLM	Compound retention times reviewed	
PDK	VLM	ISTDs for each sample reviewed	
PDK	VLM	Surrogates for each sample reviewed	
-	-	Soil weights/volumes correct	
PDK	VLM	Samples checked for over-range detections and put back in for reanalysis	
PDK	VLM	Spectra and ions have been reviewed for each analyte detected	
-	-	Library search has been performed for clients requesting it	
PDK	VLM	Container IDs in LIMS batch	

REPORTS REVIEW:

VLM	Runlog printed to PDF
PDK	Batch summary printed to PDF
PDK	ICAL Summary printed to PDF
PDK	BFB Reports printed to PDF
PDK	Calibration/CCAL reports printed to PDF
PDK	Reports printed to PDF for all samples (w/ LS if needed)
PDK	Logbook complete - All standard information included
VLM	Tests scheduled in LIMS

Signature	Date	
PDK	7/1/2024	Data 1st Review
VLM	7/2/2024	Data 2nd Review
VLM	7/2/2024	Data Reported
VLM	7/2/2024	Data Approved

COMMENTS:

LL Readback Outllers: None

MIDL Readback Outllers: None

ICVLCS Outliers (70-130%) : None

DOD ICVLCS Outliers (80-120%): None

right solutions.
right partner.

Raw Data 25240625

Volatiles by EPA 8260D

Workorder

3366030

Client

ALS Houston

Project

AHH138|HS24061313

07/18/2024

Data File: 2524062500.D Page 1
Report Date: 25-Jun-2024 21:11

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062500.D
Lab Smp Id: 1000
Inj Date : 25-JUN-2024 09:52
Operator : ILY Inst ID: ms25.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\bfb288.m
Meth Date : 13-Sep-2023 15:55 bsimms Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAMDTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
7.057	8.129	(0.000)	95	112296			0.00- 100.00	100.00
7.057	8.129	(0.000)	50	18776			15.00- 40.00	16.72
7.057	8.129	(0.000)	75	52448			30.00- 60.00	46.71
7.057	8.129	(0.000)	96	7984			5.00- 9.00	7.11
7.057	8.129	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
7.057	8.129	(0.000)	174	104984			50.00- 0.00	93.49
7.057	8.129	(0.000)	175	8844			5.00- 9.00	8.42
7.057	8.129	(0.000)	176	104216			95.00- 101.00	99.27
7.057	8.129	(0.000)	177	6298			5.00- 9.00	6.04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.72
75	30.00 - 60.00% of mass 95	46.71
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.49
175	5.00 - 9.00% of mass 174	7.88 (8.42)
176	95.00 - 101.00% of mass 174	92.80 (99.27)
177	5.00 - 9.00% of mass 176	5.61 (6.04)

Data File: 2524062500.D
Spectrum: Avg. Scans 1084-1086 (7.06), Background Scan 1077
Location of Maximum: 95.00
Number of points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	878	63.00	4033	91.00	717	135.00	206
37.00	4617	64.00	365	92.00	3363	137.00	282
38.00	4815	67.00	329	93.00	4897	141.00	1172
39.00	1768	68.00	10547	94.00	13036	142.00	251
40.00	333	69.00	10385	95.00	112296	143.00	1323
43.00	55	70.00	816	96.00	7984	146.00	154
44.00	630	72.00	618	97.00	360	148.00	374
45.00	922	73.00	5006	104.00	480	152.00	114
46.00	165	74.00	19224	105.00	186	154.00	79
47.00	1141	75.00	52448	106.00	451	155.00	261
48.00	668	76.00	4690	107.00	96	158.00	58
49.00	4345	77.00	434	111.00	71	159.00	58
50.00	18776	78.00	266	113.00	63	161.00	54
51.00	5851	79.00	3765	115.00	335	172.00	1160
52.00	298	80.00	1102	116.00	557	174.00	104984
55.00	297	81.00	3762	117.00	700	175.00	8844
56.00	2095	82.00	874	118.00	643	176.00	104216
57.00	2561	83.00	53	119.00	637	177.00	6298
58.00	199	86.00	72	123.00	59	178.00	54
59.00	87	87.00	4862	128.00	429	207.00	146
60.00	908	88.00	4831	129.00	125	251.00	59
61.00	5090	89.00	67	130.00	386		
62.00	4861	90.00	56	131.00	261		

Data File: \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062500.D

Date : 25-JUN-2024 09:52

Client ID:

Instrument: ms25.i

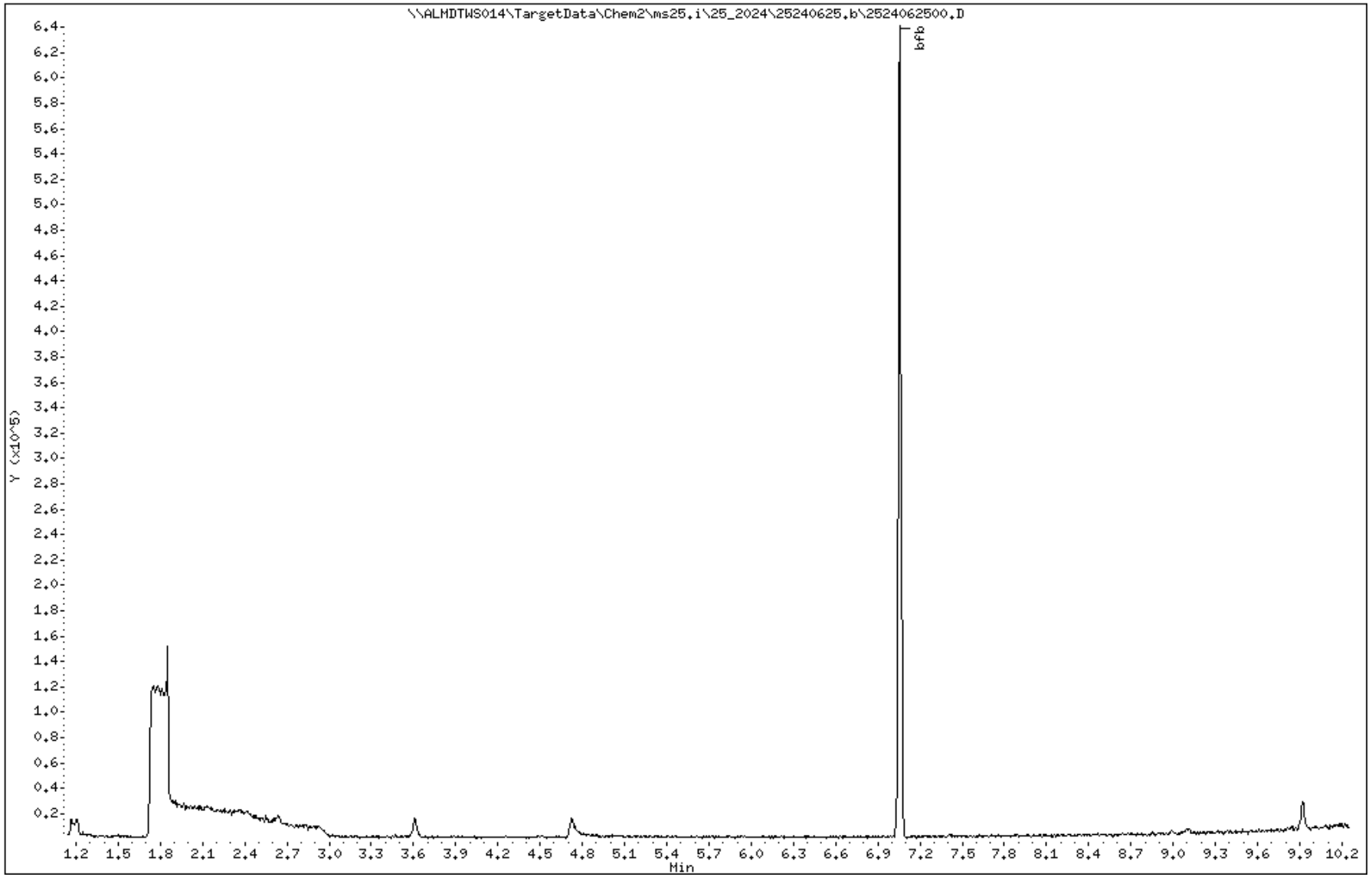
Sample Info: 1000

Volume Injected (uL): 1.0

Operator: ILY

Column phase: DB624

Column diameter: 0.53



Data File : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062500.D
Inj Date : 25-JUN-2024 09:52
InstruID : ms25.i
LabSampID : 1000

NO MANUAL INTEGRATIONS

Data File: 2524062503.D Page 1
Report Date: 25-Jun-2024 19:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\2524062503.D
Lab Smp Id: VSTD00.5
Inj Date : 25-JUN-2024 11:03
Operator : ILY Inst ID: ms25.i
Smp Info : VSTD00.5;;1;1;8;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms25.i\25_2024\25240625.b\25-8260b09.m
Meth Date : 25-Jun-2024 19:29 pdk Quant Type: ISTD
Cal Date : 25-JUN-2024 11:23 Cal File: 2524062504.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ICAL.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	1.497	1.497	(0.359)	7403	0.50000	0.609970(a)	
2	Chloromethane	50	1.644	1.645	(0.394)	7701	0.50000	0.611694(a)	
3	Vinyl Chloride	62	1.704	1.705	(0.409)	8472	0.50000	0.617487(a)	
4	Bromomethane	94	1.922	1.923	(0.461)	6439	0.50000	0.549339(a)	
5	Chloroethane	64	2.004	2.005	(0.481)	7553	0.50000	0.512149(a)	
6	Pentane	41	2.091	2.092	(0.502)	13487	0.50000	0.552296(aQ)	
7	Trichlorofluoromethane	101	2.097	2.103	(0.503)	11132	0.50000	0.592347(a)	
8	Dichlorofluoromethane	67	2.124	2.125	(0.509)	7544	0.50000	0.433835(a)	
9	Ethyl Ether	74	2.272	2.278	(0.545)	2339	0.50000	0.442329(aQ)	
10	1,1-Dichloroethene	61	2.413	2.409	(0.579)	4727	0.50000	0.447977(a)	
11	Freon 113	101	2.435	2.425	(0.584)	3186	0.50000	0.429279(a)	
12	Carbon Disulfide	76	2.446	2.447	(0.587)	10727	0.50000	0.471259(a)	
13	Iodomethane	127	2.506	2.507	(0.601)	1008	0.50000	0.755321(a)	
14	Acrolein	56	2.599	2.600	(0.623)	4363	2.50000	2.56343	
15	Isopropyl Alcohol	45	2.653	2.654	(0.636)	3328	2.50000	2.88058	
16	3-Chloro-1-propene	41	2.686	2.676	(0.644)	3005	0.50000	0.499977(a)	
17	Methylene Chloride	84	2.741	2.741	(0.657)	3732	0.50000	0.432985(a)	
18	Acetone	58	2.757	2.752	(0.661)	2467	2.50000	2.58339(Q)	
19	Methyl acetate	74	2.817	2.812	(0.676)	2035	0.50000	0.623791(aQ)	
20	trans-1,2-Dichloroethene	61	2.828	2.829	(0.678)	4448	0.50000	0.430387(a)	
21	Hexane	57	2.861	2.867	(0.686)	15367	0.50000	0.605676(a)	